AN ISO 9001 & 14001 COMPANY

TENDER DOCUMENT

TENDER No: DLI/CON/COLD STORAGE/621

FOR

CONSTRUCTION OF MULTI COMMODITY 5000 MT & 3000 MT CAPACITY COLD STORAGES INCLUDING REFRIGERATION, VENTILATION AND OTHER SERVICES AT NINE LOCATIONS IN ODISHA

VOLUME – III

BILL OF QUANTITY/ PRICE BID
<table>
<thead>
<tr>
<th>SI. No.</th>
<th>LOCATION</th>
<th>ESTIMATED COST (Rs.) Without Taxes</th>
<th>% Rate (-) BELOW/ AT PAR/(+) ABOVE(inclusive of GST &amp; all other taxes)</th>
<th>AMOUNT IN Rs. AFTER ADDING % (-) BELOW / AT PAR / (+) ABOVE</th>
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<td>3</td>
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<td>4</td>
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<tr>
<td>6</td>
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<td>7</td>
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<tr>
<td>8</td>
<td>Baragarh</td>
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<td>9</td>
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<td><strong>Total Tender Cost</strong></td>
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Note:
(i) Rates to be quoted in this tender all inclusive with all taxes and duties etc. including GST.
(ii) In case of discrepancy between rate and amount, the rate quoted in words shall be considered.

(In Figures) ______________________________________

(In Words) ______________________________________

Seal & Signature of EPIL Seal & Signature of Bidder
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<th>SR NO.</th>
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<th>Deduct Sales/Turn over Tax @ 4% as per Odisha State</th>
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<td>PART-5</td>
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<td>PART-8</td>
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<td>PART-9</td>
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<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
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<td>Earth work in ordinary soil within 50m, initial lead and 1.5m initial lift including rought dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-in-charge.</td>
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<td>Earth work in Hard soil within 50m, initial lead and 1.5m initial lift including rought dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-in-charge.</td>
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<td>3926.975</td>
<td>119.9</td>
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<td>Extra Lift of 1.5m or part there of over the initial lift of 1.5m in all kinds of embankments and road work and ordinary earth work in general.</td>
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<td>1528.79</td>
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<td>4</td>
<td>Back filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5m.</td>
<td>cum</td>
<td>2567.049</td>
<td>66.6</td>
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<td>5</td>
<td>Supplying &amp; Filling foundation trenches , plinth &amp; ditches with clean course river sand well watered and rammed in layers not exceeding 23 c.m. in depth with all lead and lift including cost, conveyance, loading, unloading, stacking, royalties and all taxes of sand, cost &amp; conveyance of water, cost of all Labour, labour cess, T&amp;P required for the work etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td>cum</td>
<td>2326.16</td>
<td>267.5</td>
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</table>
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BARABATI, under Jajpur RMC, Odisha

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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<tr>
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<td>Providing and laying Plain cement concrete of proportion (1:4:8) using 4cm size metal etc. in foundation and floors using cement, 40mm. Size crusher broken H.G.Metal and screened and washed sharp river sand for mortar of approved quality and from approved quarry incluign hoisting, lowering and laying concrete to the required level, ramming, watering and curing etc. complete to required levels, laid in layers not exceeding 15cm thick in each layer including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P required for the work including shoring, shuttering and dewatering (if required) including hire and running charges of water pump required for the work etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td>cum</td>
<td>289.205</td>
<td>3896.1</td>
<td>1126771.601</td>
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| Providing and laying in position ready mixed M-25 grade concrete having compressive strength at 28 days test not less than 250 kg/ sq.cm for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, and hoisting, lowering, laying and compacting concrete, watering and curing and finishing the exposed surfaces smooth with cost, conveyance, royalties, taxes of all materials with all labour, Labour cess and T&P required for the work improve workability without impairing strength and durability as per direction of the Engineer - in - charge. | Cu mt | 1070.721 | 5406.1 | 5788426.719 |

<table>
<thead>
<tr>
<th>Up to Plinth Level</th>
<th>Cu mt</th>
<th>1070.721</th>
<th>5406.1</th>
<th>5788426.719</th>
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</table>

<table>
<thead>
<tr>
<th>Ground Floor Level (Plinth to 3.5Mtr)</th>
<th>Cu mt</th>
<th>56.798</th>
<th>5458.9</th>
<th>310054.6022</th>
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<tr>
<td>b</td>
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Sign and Stamp of EPIL

3

Sign and Stamp of bidder
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BARABATI, under Jajpur RMC, Odisha

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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<tbody>
<tr>
<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Cu mt</td>
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<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Cu mt</td>
<td>112.322</td>
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<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Cu mt</td>
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<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Cu mt</td>
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<td>Rigid &amp; smooth centering &amp; shuttering for R.C.C. works including false works with all necessary bracing and tiles and supports with leveling centering covered with plastic sheet with provisions for necessary holes and pockets for electrical conduits, pipes, P.H. pipes, for hooks or boxes, switch and board insert plates, clamps and extension bars etc., including dismantling the same after the required interval from the date of casting including cost of all materials, labour, Labour cess, conveyance, loading and unloading, taxes, royalties, scaffolding, watering, curing, sundries, tools and plants, etc., complete as per the direction of the Engineer-in-charge.</td>
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<td>a</td>
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Sign and Stamp of EPIL

Sign and Stamp of bidder
Name of Work: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BARABATI, under Jajpur RMC, Odisha

### ABSTRACT FOR CIVIL WORK

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<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
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- **Cutting, straightening, coiled or bent up HYSD/TMT Reinforcement Bars welding or jointing if necessary, bending, binding, tying the grills as required for R.C.C. works, providing Fan Hooks where necessary and hoising, lowering and placing the same in the proper position according to the approved designs and drawings in all floors including cost, conveyance, loading, unloading and taxes or HYSD/TMT Reinforcement Bars and Binding wires of 18 to 20 gauge required for the work cost of all labour, T&P and scaffolding complete in all respect as directed by the Engineer-in-charge (Payment will be made according to the actual/proper weight of HYSD/TMT Reinforcement Bars and Binding wires consumed in the particular work only).**

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
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<th>Qty</th>
<th>Rate</th>
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Sign and Stamp of bidder
## ABSTRACT FOR CIVIL WORK

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<tr>
<td>10</td>
<td>Fly Ash Brick Masonry in cement mortar of mix (1:6) using Fly Ash bricks of size 25 c.m x 12 c.m x 8 c.m in Foundation, Plinth &amp; super structure having crushing strength not less than 75 kg per square c.m. with cement and screened &amp; washed sharp sand for mortar after immersing the bricks for 6 (Six) hours in water before use in works with all necessary projections, spays cutting, circular moulding, corbelling, chamfering, watering and curing etc. including cost, conveyance, stacking, loading, unloading, royalties, all taxes, cost of all labour, Labour cess, scaffolding, sundries and T&amp;P required for the works etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Up to Plinth Level</td>
<td>Cum.</td>
<td>93.5625</td>
<td>3984.9</td>
<td>372837.2063</td>
</tr>
<tr>
<td>b</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Cum.</td>
<td>321.0613</td>
<td>4018.2</td>
<td>1290088.315</td>
</tr>
<tr>
<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Cum.</td>
<td>157.325</td>
<td>4181.1</td>
<td>657791.5575</td>
</tr>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Cum.</td>
<td>149.45</td>
<td>4368.4</td>
<td>652857.38</td>
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<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Cum.</td>
<td>157.325</td>
<td>4583.9</td>
<td>721162.0675</td>
</tr>
<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Cum.</td>
<td>94.07</td>
<td>4831.6</td>
<td>454508.612</td>
</tr>
</tbody>
</table>

| 11     | Providing 12mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement & screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary) including watering and curing, rounding of corners etc. complete with cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&P, sundries and scaffolding required for the work etc. as directed by the Engineer-in-charge. |      |       |        |                   |
| a      | Plinth Level                                                               | sqm  | 483.912 | 92     | 44519.904        |
| b      | Ground Floor Level (Plinth to 3.5Mtr)                                      | sqm  | 856.56  | 95.1   | 81458.856       |
| c      | First Floor Level (3.5mtr to 7.0mtr)                                       | sqm  | 701.64  | 98.4   | 69041.376       |
### ABSTRACT FOR CIVIL WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>sqm</td>
<td>687.36</td>
<td>101.8</td>
<td>69973.248</td>
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<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>sqm</td>
<td>671.16</td>
<td>105.4</td>
<td>70740.264</td>
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<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>sqm</td>
<td>620.64</td>
<td>109.2</td>
<td>67773.888</td>
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</table>

- Providing 16mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement & screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary)including watering and curing,rounding of corners etc. complete with cost,conveyance/loading, unloading,royalties and taxes of all materials,cost of all labour,T&P,sundries and scaffolding required for the work etc. as directed by the Engineer-in-charge.

| a      | Plinth Level | Sqm | 0 | 136 |                   |
| b      | Ground Floor Level (Plinth to 3.5Mtr) | sqm | 1491.032 | 139.1 | 207402.5512   |
| c      | First Floor Level (3.5mtr to 7.0mtr)  | Sqm | 1730.842 | 142.2 | 246125.7324   |
| d      | Second Floor Level (7.0mtr to 10.5mtr) | Sqm | 628.32 | 145.4 | 91357.728     |
| e      | Third Floor Level (10.5mtr to 14.0mtr) | Sqm | 659.82 | 148.6 | 98049.252     |
| f      | Forth Floor Level (14.0mtr above)     | Sqm | 578.28 | 152  | 87898.56      |

- Painting 2 (Two) or more coats with Weather Coat Paint of premium brand Such as Asian/ Berger/ ICI paints or equivalent of approved quality & colour, using required quantities of paint as specified by the manufacturer to give an even shade over a coat of wall priming (water based) on the finished external plastered surface at all height , watering the surface before applying the Weather Coat Paint and curing for the required period including cost, conveyance/loading , unloading ,stacking and all taxes , cost of all Labour, Labourcess, Sundries ,Scaffolding ,Staging and T&P etc. required for the work complete in all respect as directed by the Engineer-in-charge.
<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>a</td>
<td>Upto Plinth Level</td>
<td>Sqm</td>
<td>483.912</td>
<td>101.2795</td>
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<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>856.56</td>
<td>104.2383</td>
<td>89286.33084</td>
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<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>701.64</td>
<td>107.4</td>
<td>75356.136</td>
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<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>687.36</td>
<td>110.7</td>
<td>76090.752</td>
</tr>
<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>671.16</td>
<td>114.2</td>
<td>76646.472</td>
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<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>620.64</td>
<td>117.5</td>
<td>72925.2</td>
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<tr>
<td>14</td>
<td>Priming one coat over with any approved primer including cost of material &amp; labour For Plastere Surface with water bond Cement primer</td>
<td></td>
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<tr>
<td>a</td>
<td>Upto Plinth</td>
<td>Sqm</td>
<td>0</td>
<td>43.1</td>
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<tr>
<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>46</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>47.6</td>
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<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>49.3</td>
<td>0</td>
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<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>0</td>
<td>49.3</td>
<td>0</td>
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<tr>
<td>15</td>
<td>Priming one coat over with any approved primer including cost of material &amp; labour For Iron work</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Forth Floor</td>
<td>Sqm.</td>
<td>0</td>
<td>40</td>
<td>0</td>
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<tr>
<td>16</td>
<td>Wall painting two coats with plastic emulsion paint of approved quality colour at all heights to the interior surface of the wall to make an even finished surface including sand papering, applying putty wherever necessary including cost, conveyance, loading, unloading, stacking, all taxes, cost of all Labour, Labour cess, scaffoldings, staging, sundries, T&amp;P etc. required for the work complete as directed by the Engineer-in-charge.</td>
<td></td>
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<tr>
<td>a</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>1491.032</td>
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<td>Sr. No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
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<td>------------------------------------------------</td>
<td>-------</td>
<td>-----------</td>
<td>------</td>
<td>----------------</td>
</tr>
<tr>
<td>b</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>1730.842</td>
<td>183.1</td>
<td>316917.1702</td>
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<td>c</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>628.32</td>
<td>186.5</td>
<td>117181.68</td>
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<tr>
<td>d</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
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<td>659.82</td>
<td>189.9</td>
<td>125299.818</td>
</tr>
<tr>
<td>e</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>578.28</td>
<td>193.5</td>
<td>111897.18</td>
</tr>
<tr>
<td>17</td>
<td>Finishing wall surface of walls with Acrylic wall putty (water based) of approved make and finished smooth and even surface to receive painting including cost, conveyance, taxes of all materials, cost of all Labour, Labour cess, scaffoldings, staging, sundries, T&amp;P etc. required for the work complete as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>74.28</td>
<td>0</td>
</tr>
<tr>
<td>b</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>75.092</td>
<td>0</td>
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<tr>
<td>c</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>75.932</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>76.792</td>
<td>0</td>
</tr>
<tr>
<td>e</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>0</td>
<td>77.672</td>
<td>0</td>
</tr>
<tr>
<td>18</td>
<td>Brick on edge flooring using fly ash brick flat over one brick flat set in cement mortal (1:8)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Ground Floor</td>
<td>Sqm.</td>
<td>979.8</td>
<td>846.4475</td>
<td>829349.2831</td>
</tr>
<tr>
<td>19</td>
<td>Cement concrete flooring grade 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate) rounding off edges etc. but excluding the cost of nosing of steps etc. complete : 75 mm thick with 20 mm thick nominal size aggregate.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Ground Floor</td>
<td>Sqm.</td>
<td>0</td>
<td>235.26</td>
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</tr>
<tr>
<td>Sr.No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>--------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------</td>
<td>-----</td>
<td>------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>20</td>
<td>Providing and fixing steel glazed doors windows and ventilator shutters of standard rolled steel section joints mitred and welded with steel lugs 13 x 3 mm, 10 cm. long embedded in cement concrete block 15 x 10 x 10 cm. of 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws with fixing clips or with bolts and nuts as required including providing and fixing of plain glass panes 4 mm thick with copper glazing clips and special metal sash putty of approved make or metal beading with screws complete including priming coat of approved steel primer, excluding the cost of metal beading and other fitting except necessary hinges of pivots steel handles peg stay etc. as required : Windows side hung (openable)</td>
<td>Sqm.</td>
<td>1.28</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>23</td>
<td>Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge 0.50mm (+0.05%) total coated thickness with zinc coating 120grams per sqm as per IS:227, in 240mpa steel grade, 5-7 microns.</td>
<td>Sqm</td>
<td>1354.358</td>
<td>597.2311</td>
<td>808864.7652</td>
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**TOTAL**                                                                 |                                              |  |  |                  | **38340578**   |
<table>
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<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Supplying, fabricating and erection of steel work in built up tubular hollow hot finished welded type steel tubes for trusses or frame works, etc using round, square or rectangular hollow tubes including cutting, hoisting and fixing in position and applying a prime coat of approved steel primer including welding and bolting with special shaped washers including cost of all labours, joining materials, etc required for work complete as directed by Engineer-In-Charge.</td>
<td>Kg.</td>
<td>178336.5</td>
<td>77.3</td>
<td>13785410</td>
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<tr>
<td></td>
<td>(i) Hoising of Trusses and Placing in Position</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Supplying, fabricating &amp; fixing of Structural steel items made out of channels, angles, flats, plates, chequerd plates I Section, Beam, Hollow Section any type of frame, space frame, gates, atrium in top, truss, purlins, columns, beams etc. complete as per drawing including priming with one coat of red oxide primer in all floors as per the direction of the Engineer-in-charge.</td>
<td>Kg.</td>
<td>218280.1</td>
<td>77.3</td>
<td>16873051</td>
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<tr>
<td></td>
<td>(i) Hoising of Trusses and Placing in Position</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>30658461</strong></td>
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## ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong></td>
<td>Providing all materials, labour, T&amp;P for fitting and fixing white glazed vitreous china floor mounted water closet (European pattern) 'P' or 'S' type of approved make, As per IS-2556 with ISI mark, including supply of suitable PVC wall plug and Brass screws etc. all complete including cost of PVC seat cover (solid) with hinges &amp; rubber buffers etc all complete including cost, taxes and conveyance as per specification all complete as per direction of Engineer-in-charge. Make (No.C0297(S)Trap+C0278(P)Trap(Elite)Hindware</td>
<td>SET</td>
<td>1</td>
<td>3455.5</td>
<td>3455.5</td>
</tr>
<tr>
<td><strong>2</strong></td>
<td>Providing all materials, labour, and T&amp;P for fitting and fixing of 10 liter capacity PVC low level cistern complete with all internal fittings of approved make as per IS-7231 with ISI mark and Providing of necessary PVC wall plug, screws and 15mm dia PVC connection pipe with union at both end, including testing etc. all complete as per specification &amp; direction of Engineer-in-charge. Make : HINDWARE/CERA/PARRYWARE</td>
<td>No</td>
<td>1</td>
<td>1460.9</td>
<td>1460.9</td>
</tr>
<tr>
<td><strong>3</strong></td>
<td>Supply all materials and labour for fitting and fixing of 550x400mm white glazed vitreous china wash hand basin of approved make with supply &amp; fixing of 32mm CP waste, 15mm dia PVC water connection pipe, basin bolts &amp; Nuts of approved quality including cutting the walls &amp; floor and making good the damages with cement concrete (1:2:4) etc. with all taxes, duties, transportation etc. all complete as per direction of EIC. (Make (No.C0460 Basin(550x400m)Papular(Hindware)</td>
<td>SET</td>
<td>2</td>
<td>3770.2</td>
<td>7540.4</td>
</tr>
<tr>
<td><strong>4</strong></td>
<td>Supplying all materials and labour, T&amp;P for fitting and fixing of 590mm x 390mmx 375mm white glazed vitreous china Half stall front standing urinal basin as per IS-2556 with ISI mark along with supply &amp; fixing of necessary component parts like pair of C.I./M.S. bracket including all taxes, duties, transportation etc. with all complete fittings as per specification &amp; direction of the Engineer-in-charge. (Make No.C0575+C8095(White)Hindware.</td>
<td>SET</td>
<td>2</td>
<td>4704.1</td>
<td>9408.2</td>
</tr>
<tr>
<td><strong>5</strong></td>
<td>Providing all materials, labour, T&amp;P for fitting and fixing of 20mm thick white marble partition for urinal of following sizes including cutting, edge moulding, both side polishing including fixing on the wall after groove cutting &amp; making good the damages. The cost inclusive of all taxes, transportation etc. all complete as per specification &amp; direction of Engineer-in-charge. Marble partition Size-2x0.90x0.75=1.35</td>
<td>Sqmt</td>
<td>1.35</td>
<td>2570.7</td>
<td>3470.445</td>
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Name of Work: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. at BARABATI, under Jajpur RMC, Odisha
## Abstract for Plumbing & Sanitary Work

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>6</td>
<td>Providing all materials, labour, T&amp;P for fixing of 600x450mm bevelled edge mirror of 5mm thick mounted on 4mm thick A C back sheet &amp; CP cup screw with PVC wall plugs including cost, conveyance, taxes of all materials complete as per specification and direction of E.I.C.</td>
<td>NO</td>
<td>2</td>
<td>654.4</td>
<td>1308.8</td>
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<tr>
<td>7</td>
<td>Supplying all materials, labour, T&amp;P and fixing standard sized CP towel rail complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge</td>
<td>NO</td>
<td>1</td>
<td>955.4</td>
<td>955.4</td>
</tr>
<tr>
<td>8</td>
<td>Supplying all materials, labour, T&amp;P and fixing standard sized glass-shelf with CP brass brackets and guard rails complete fixed to woden plugs with CP screws as per specification and direction of the Engineer in charge</td>
<td>NO</td>
<td>1</td>
<td>569.9</td>
<td>569.9</td>
</tr>
<tr>
<td>9</td>
<td>Providing and fixing 15mm dia CP bib cock long body(Jaquar make)</td>
<td>NO</td>
<td>1</td>
<td>1179.4</td>
<td>1179.4</td>
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<tr>
<td>10</td>
<td>Providing and fixing 15mm dia CP angular stop cock(Jaquar make)</td>
<td>NO</td>
<td>5</td>
<td>840.3</td>
<td>4201.5</td>
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<td>11</td>
<td>Providing and fixing Health Faucet with 1m long PVC tube &amp; wall hook(Jaquar make)</td>
<td>NO</td>
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<td>1742.3</td>
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<tr>
<td>12</td>
<td>Providing and fixing 15mm dia CP two way bib cock(Jaquar make)</td>
<td>NO</td>
<td>1</td>
<td>1179.4</td>
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<td>Providing and fixing 15mm dia pillar cock(Jaquar make)</td>
<td>NO</td>
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<td>871.2</td>
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<td>Providing and fixing Robe Hook(Jaquar make)</td>
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<td>15</td>
<td>Providing and fixing soap case(Jaquar make)</td>
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<td>1016.3</td>
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<tr>
<td>16</td>
<td>Providing and fixing 32mm CP Bottle Trap(Jaquar make)</td>
<td>NO</td>
<td>4</td>
<td>1451.9</td>
<td>5807.6</td>
</tr>
<tr>
<td>17</td>
<td>Supplying all materials, labour &amp; fitting and fixing 125mm dia stainless steel gratting on top of floor traps with white cement all complete in all floors, as per technical specification and direction of Engineer-in-charge.</td>
<td>NO</td>
<td>4</td>
<td>83.8</td>
<td>335.2</td>
</tr>
<tr>
<td>18</td>
<td>Providing all materials, labour, T&amp;P for laying of following nominal dia UPVC pipes as per IS- 4985 with ISI mark including fixing of required size UPVC fittings like,bend,Tee,elbow,offsets,etc. and the same fixed on wall or floor with holder bat clamps screw etc. including testing the joints with required water presure. The cost inclusive of all taxes,duties,transportation scaffolding etc. as per specification and direction of Engineer-in-charge. Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td>RM</td>
<td>25</td>
<td>362.2</td>
<td>9055</td>
</tr>
<tr>
<td></td>
<td>a. 40mm dia</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>b. 50mm dia</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Providing and fixing on wall face unplasticised Rigid PVC soil, waste water pipes conforming to IS:13592 Type-B, including jointing with seal-ring conforming to IS:5382, Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td>RM</td>
<td>50</td>
<td>330.9</td>
<td>16545</td>
</tr>
<tr>
<td></td>
<td>a. 110mm dia</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sr.No.</td>
<td>Particulars</td>
<td>Unit</td>
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</tr>
<tr>
<td>20</td>
<td>Providing and fixing on wall face unplasticised Rigid PVC for rain water pipes conforming to IS:13592 Type-A, including jointing with seal-ring conforming to IS:5382, Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td>RM</td>
<td>100</td>
<td>330.9</td>
<td>33090</td>
</tr>
<tr>
<td></td>
<td>a 110mm dia</td>
<td>RM</td>
<td>100</td>
<td>717.3</td>
<td>71730</td>
</tr>
<tr>
<td>21</td>
<td>Supplying all materials, labour, T&amp;P, fitting and fixing of following dia UPVC SWR fittings of approved make confirming to IS-14735 with all taxes, duties, transportation &amp; requisite testing as per specification &amp; direction of Engineer-in-charge. Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td>NO</td>
<td>3</td>
<td>273.8</td>
<td>821.4</td>
</tr>
<tr>
<td></td>
<td>a 110mm x110mm P trap</td>
<td>NO</td>
<td>1</td>
<td>228</td>
<td>228</td>
</tr>
<tr>
<td></td>
<td>b 110mm WC Connector/ Bend with lip ring</td>
<td>NO</td>
<td>2</td>
<td>100.2</td>
<td>200.4</td>
</tr>
<tr>
<td></td>
<td>c 110mm dia Plain Bend 87.5 deg</td>
<td>NO</td>
<td>2</td>
<td>312</td>
<td>624</td>
</tr>
<tr>
<td></td>
<td>d 160mm dia Plain Bend 87.5 deg</td>
<td>NO</td>
<td>4</td>
<td>100.2</td>
<td>400.8</td>
</tr>
<tr>
<td></td>
<td>e 160mm dia Plain Bend 45 deg</td>
<td>metre</td>
<td>5</td>
<td>362.2</td>
<td>1811</td>
</tr>
<tr>
<td></td>
<td>f 160mm dia Plain Bend 45 deg</td>
<td>metre</td>
<td>150</td>
<td>452.75</td>
<td>67912.5</td>
</tr>
<tr>
<td>22</td>
<td>Providing all materials, labour, T&amp;P for laying in trenches of following nominal dia UPVC pipes (Sch-80) as per IS-ASTMD-1785 with ISI mark including fixing of required size fittings like bend, Tee, elbow, offsets etc. &amp; testing the joints with required water pressure. The cost inclusive of all taxes, duties, transportation scaffolding etc. as per specification and direction of Engineer-in-charge. Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td>metre</td>
<td>20</td>
<td>186</td>
<td>3720</td>
</tr>
<tr>
<td></td>
<td>a 25mm Dia</td>
<td>metre</td>
<td>20</td>
<td>145.2</td>
<td>2904</td>
</tr>
<tr>
<td>23</td>
<td>Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes SDR-13.5 conforming to IS: 15778, having thermal stability for hot &amp; cold water supply, including all CPVC plain &amp; brass threaded fittings including fixing the pipes with clamps at 1.00 m spacing. The includes jointing of pipes &amp; fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td>metre</td>
<td>20</td>
<td>336.7</td>
<td>336.7</td>
</tr>
<tr>
<td></td>
<td>a 25mm dia ball valve</td>
<td>No</td>
<td>1</td>
<td>1260</td>
<td>7560</td>
</tr>
<tr>
<td></td>
<td>b 50 mm dia ball Valve</td>
<td>No</td>
<td>6</td>
<td>909</td>
<td>5454</td>
</tr>
<tr>
<td>24</td>
<td>Supplying all materials, labour, T&amp;P fitting and fixing of different size brass upvc ASTM-1785,sch-80 ball valve Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td>No</td>
<td>6</td>
<td>909</td>
<td>5454</td>
</tr>
<tr>
<td>25</td>
<td>Supplying and fixing in position approved make bronze vertical non return valve(screwed) of approved make to IS: 778,</td>
<td>No</td>
<td>6</td>
<td>909</td>
<td>5454</td>
</tr>
<tr>
<td></td>
<td>a 50 mm dia</td>
<td>No</td>
<td>6</td>
<td>909</td>
<td>5454</td>
</tr>
</tbody>
</table>
**Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BARABATI, under Jajpur RMC, Odisha**

**ABSTRACT FOR PLUMBING & SANITARY WORK**

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Make- Zoloto/leader/shakti</td>
</tr>
<tr>
<td>26</td>
<td>Fixing Rotational moulded polyethylene cylindrical vertical water storage tanks conforming to IS:12701--1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc, including hoisting up to a height of 5 metres above ground level and placing the tank to the required position and construction of required staggering etc all complete as per specification and direction of the Engineer in charge</td>
</tr>
<tr>
<td>a</td>
<td>2000 litre capacity Double Layer Cylindrical Vertical water storage tanks</td>
</tr>
<tr>
<td>27</td>
<td>Cutting holes for taking 100mm dia PVC pipes through 250mm thick wall</td>
</tr>
<tr>
<td>28</td>
<td>Supplying all materials, joining materials, labour and T &amp; P and laying UPVC Foam core pipe as per IS:16098 sn-4 for underground rain water pipe and sewer Make :ASTRAL/ASHIRVAD</td>
</tr>
<tr>
<td>a</td>
<td>110mm Nominal Dia pipe</td>
</tr>
<tr>
<td>b</td>
<td>160mm Nominal Dia pipe</td>
</tr>
<tr>
<td>c</td>
<td>200 mm Nominal Dia pipe</td>
</tr>
<tr>
<td>29</td>
<td>Providing and laying in trench cement concrete (1:3:6) with 40mm size hard granite metal in the following type of bedding for upvc pipes of the following internal diameter including curing complete as per specification</td>
</tr>
<tr>
<td>a</td>
<td>110mm Nominal Dia pipe</td>
</tr>
<tr>
<td>b</td>
<td>160mm Nominal Dia pipe</td>
</tr>
<tr>
<td>c</td>
<td>200 mm Nominal Dia pipe</td>
</tr>
<tr>
<td>30</td>
<td>Supplying all materials, labour, T&amp;P and constructing gully trap chamber of the following inside size with 8cm thick R.C.C precast cover slab in cement concrete (1:2:4) mix using 12mm size h.g chips, foundation concrete (1:4:8) using 40mm size hard granite metal on bed and around trap, K.B brickwork in c.m (1:6) in F&amp;P and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mmx100mm size HCl gully trap, 150mmx150mm size C.I grating etc all complete as per approved drawing, specification and direction of the Engineer in charge-Gully trap chamber of size 250mmx250mm with R.C.C cover slab</td>
</tr>
<tr>
<td>No</td>
<td>1 1253.7 1253.7</td>
</tr>
</tbody>
</table>
### Name of Work
- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BARABATI, under Jajpur RMC, Odisha

#### ABSTRACT FOR PLUMBING & SANITARY WORK

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<tr>
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<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>31</td>
<td>Supplying all materials, labour, T&amp;P and constructing man hole chamber of the following size with cement concrete (1:3:6) using 40mm size hard granite metal on bed, 1st class K.B brickwork in cement mortar (1:6), moulding and shaping the channel inside and benching with cement concrete (1:2:4) using 12mm size h.g chips, 12mm thick cement plaster (1:3) with punning to inside, cement flush pointing (1:3) to outside, R.C.C cover slab in (1:2:4) using 12mm size h.g chips with RCC man hole cover, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge</td>
<td>No</td>
<td>10</td>
<td>13773.1</td>
<td>137731</td>
</tr>
<tr>
<td>32</td>
<td>Supplying all materials, labour, T&amp;P and constructing soakway pit of the following size with precast RCC rings joined loose, gravel backing in the rear of well steining, precast RCC cover slab in cement concrete (1:2:4) using 12mm size h.g chips fitted with iron lifting handles including cutting hole in the rings for inlet pipe, earthwork in open well excavation in all kinds of soil and refilling of cavity around the pit &amp; painting the iron works, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge - RCC rings soakway pit 1.22m dia x 2.10m deep</td>
<td>No</td>
<td>2</td>
<td>12873.4</td>
<td>25746.8</td>
</tr>
<tr>
<td>33</td>
<td>Supplying, installing, testing and commissioning of Non clog self priming centrifugal pump. Electric motor. The pump shall have cast iron delivery casting, cast iron impeller SS Shaft. Pump shall be provided with mechanical seal (gland packing). The pump shall be suitable for auto/ manual operation. All complete, including cost, convenance, taxes, T &amp; P etc complete as per direction of Engineer-in-charge. WATER TRANSFER PUMP FROM DOMESTIC WATER TANK UGR TO OVER HEAD TANK Flow rate = 185 lit/min each pump Head = 15 mtr Single- phase Motor HP=1</td>
<td>No</td>
<td>2</td>
<td>10000</td>
<td>20000</td>
</tr>
</tbody>
</table>

1SET (1 WORKING + 1 STAND BY)

Sign and Stamp of EPIL

16

Sign and Stamp of bidder
<table>
<thead>
<tr>
<th>Sr.No</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>34</td>
<td>Providing, fitting &amp; fixing pvc rung 200 mm X 300mm Step Iron (inside u.g.r.) etc. all complete as per direction of Engineer-in-charge.</td>
<td>No</td>
<td>20</td>
<td>179.7</td>
<td>3594</td>
</tr>
<tr>
<td>35</td>
<td>supplying fixing GI half round rain water gutter under the sloped roofs including providing necessary nuts and bolts, protection bar etc., complete as per the direction of the Engineer-in-charges.</td>
<td>rm</td>
<td>115</td>
<td>1100</td>
<td>126500</td>
</tr>
<tr>
<td></td>
<td><strong>ABSTRACT FOR PLUMBING &amp; SANITARY WORK</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>BORE WELL (Production well)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>Labour for drilling a perfectly bore hole for specified dia for specified depth below G.L through consolidated and unconsolidated rocks with fast drilling sophisticated DTH/combo. rig to suit the site condition as per the direction of the Engineer-in-charge including use of own Rigs with all accessories, T&amp;P consumables etc., for lowering of 200mm dia GI/PVC pipe for housing fitted with socket and with or without well screen as per necessity for soft, medium, hard &amp; boulder formation (GI/PVC/MS casing pipe if required to prevent collapse of over burden is to be provided by the contractor including lowering and withdrawing after completion of Tube well) 200mm dia to 400mm dia in overburden portion including packing of gravel supplied by the contractor for 400mm dia bore only.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>1) 200 mm dia</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1) 0 Mtr to 80 Mtr</td>
<td>Each Mtr</td>
<td>80</td>
<td>657</td>
<td>52560</td>
</tr>
<tr>
<td></td>
<td>Lowering the following size of G.I. /PVC/MS housing pipe with or without slotted pipes as per the necessity from ground level up to 45mtr depth fitted and fixed up in perfectly vertical position including cutting &amp; threading of pipes &amp; slotted pipes &amp; supplying &amp; fixing all jointing materials, tools &amp; plant etc. all complete &amp; keeping the top of casing pipe threaded including plugging tube-wells to prevent entry of foreign materials and keeping the casing pipe 1.00mtr above GL.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>0 Mtr to 80 Mtr</td>
<td>Each Mtr</td>
<td>40</td>
<td>1659.45</td>
<td>66378</td>
</tr>
<tr>
<td></td>
<td>Cleaning and developing the tube well with their own compressor continuously worked till clear and adequate discharge is obtained from the tube well including supply and use of all necessary equipment and labour as per direction of Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>Providing, fitting and fixing and laying of HDPE pipe with supply of all materials all complete as per PH specification &amp; direction of Engineer-in-charge. (MAKE: ORIPLAST)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>a) 50mm dia HDPE pipe (working pressure 0.8MPA)</td>
<td>Each Mtr</td>
<td>70</td>
<td>210</td>
</tr>
<tr>
<td>Sr.No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
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<td>---------</td>
</tr>
<tr>
<td>40</td>
<td>Supplying fitting, fixing of 3.00 HP submersible pump TEXMO Make(Item code no.TDF255 type : TRF 908 HS +SF007R) including cost of all materials, transportation and taxes of pump etc. complete as per PH specification &amp; direction of Engineer-in-charge.</td>
<td>Each Set</td>
<td>1</td>
<td>19000</td>
<td>19000</td>
</tr>
<tr>
<td>41</td>
<td>Supplying all materials, labour, T&amp;P for fitting and fixing of required control panel including DOL starter with indicator 32 Amp TPN main switch including connection, installation etc. all complete as per specification &amp; direction of Engineer-in-charge. (Model no :BEI-SSD2045*321 relay range 13-18 )make TC</td>
<td>Each Set</td>
<td>1</td>
<td>5050</td>
<td>5050</td>
</tr>
<tr>
<td>42</td>
<td>Supplying, fitting and fixing of 3core flat industrial cable for submission conforming to IS 694 Flexible 1100V. To IS 694. including all cost of material, labour, T&amp;P etc all complete.(Make: Finlox.)</td>
<td>Each Mtr</td>
<td>90</td>
<td>106</td>
<td>9540</td>
</tr>
<tr>
<td>43</td>
<td>Supplying, fitting, fixing of S.S tapper 2nos of 0.45mtr long M.S supporting clamps with M.S nuts &amp; bolt and 200mm tube well cover &amp; cap suitable for the above pump sets.</td>
<td>Each Set</td>
<td>1</td>
<td>2000</td>
<td>2000</td>
</tr>
<tr>
<td>44</td>
<td>Rain water Harvesting.Structure -2 nos</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>Sinking of tube well through D.T.H.Rig.</td>
<td>Mtr.</td>
<td>50</td>
<td>657</td>
<td>32850</td>
</tr>
<tr>
<td>46</td>
<td>Lowering of PVC casing pipe inside bore.</td>
<td>Mtr.</td>
<td>50</td>
<td>136</td>
<td>6800</td>
</tr>
<tr>
<td>47</td>
<td>Cost.of 200mm dia (Sch.80)Pipe</td>
<td>Mtr.</td>
<td>50</td>
<td>1523.45</td>
<td>76172.5</td>
</tr>
<tr>
<td>48</td>
<td>Cutting slot in casing pipe for recharge of rain water</td>
<td>Mtr.</td>
<td>50</td>
<td>353.5</td>
<td>17675</td>
</tr>
<tr>
<td>49</td>
<td>Labour for packing gravel outside the tube well</td>
<td>Cum</td>
<td>4.7</td>
<td>110.1</td>
<td>517.47</td>
</tr>
<tr>
<td>50</td>
<td>Earth work in all kinds of soil within 50 mtr initial lead and 1.5mtr initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3 mtr in depth and as per direction of the Engineer in charge.</td>
<td>Cum</td>
<td>4.7</td>
<td>1612.4</td>
<td>7578.28</td>
</tr>
<tr>
<td>51</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:4:8) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>L.wall-2x2x7.80x0.40x0.10=1.25</td>
<td></td>
<td></td>
<td>1.25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S.Wall-2x2x2.35x0.40x0.10=0.38</td>
<td></td>
<td></td>
<td>0.38</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Base-2x1x2.35x1.15x0.10=0.54</td>
<td></td>
<td></td>
<td>0.54</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cum</td>
<td></td>
<td></td>
<td>2.16</td>
<td>8393.976</td>
</tr>
</tbody>
</table>

Name of Work : -Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BARABATI, under Jajpur RMC, Odisha
### Name of Work : Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BARABATI, under Jajpur RMC, Odisha

#### ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
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<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>52</td>
<td>Supplying all materials, labour, T&amp;P and providing brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:6) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>L.Wall-2x2x7.65x0.25x2.0m=15.30</td>
<td></td>
<td>15.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>S.Wall-2x3x2.50x0.25x2.0m=7.50</td>
<td></td>
<td>7.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cum</td>
<td></td>
<td>22.8</td>
<td>3940</td>
<td>89832</td>
</tr>
<tr>
<td>53</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inside-2x(7.15+2.50)x2.0m=77.20</td>
<td></td>
<td>77.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2x2x2.50x2.0m=20.00</td>
<td></td>
<td></td>
<td>20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Outside-2x(7.65+3.0)x2.0m=85.20</td>
<td></td>
<td></td>
<td>85.2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sqm 182.4 110.5 20155.2</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>Supplying all materials, labour, T&amp;P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inside-2x(7.15+2.50)x2.0m=77.20</td>
<td></td>
<td>77.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2x2x2.50x2.0m=20.00</td>
<td></td>
<td></td>
<td>20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sqm 97.2 23.1 2245.32</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>Supplying all materials, labour, T&amp;P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Roof slab-2x1x0.90x2.50=4.50</td>
<td></td>
<td>4.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2x(1.40+3.00)x0.10=1.76</td>
<td></td>
<td>1.76</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sqm 6.26 353.7 2214.162</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>56</td>
<td>Supplying all materials, labour, T&amp;P and providing reinforced cement concrete work of M-25 grade with 20mm and down grade black hard granite crusher broken stone chips including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2x1x1.40x3.00x0.10=0.42</td>
<td></td>
<td>0.84</td>
<td>5502.7</td>
<td>4622.268</td>
</tr>
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</table>
### ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>57</td>
<td>Supplying all materials, labour, T&amp;P and providing M.S reinforcement for R.C.C work including cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Qntl.</td>
<td>0.68</td>
<td>6023</td>
<td>4095.64</td>
</tr>
<tr>
<td>58</td>
<td>Providing and filling filter media</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>40mm size bolder-2x1x6.0x2.50x0.85=25.50</td>
<td>Cum</td>
<td>25.5</td>
<td>1414.5</td>
<td>36069.75</td>
</tr>
<tr>
<td>b.</td>
<td>20mm size washed gravel-2x1x6.0x2.50x0.40=12.00</td>
<td>Cum</td>
<td>12</td>
<td>1723.5</td>
<td>20682</td>
</tr>
<tr>
<td>c.</td>
<td>Course sand-2x1x6.0x2.50x0.30=9.00</td>
<td>Cum</td>
<td>9</td>
<td>582.5</td>
<td>5242.5</td>
</tr>
<tr>
<td>59</td>
<td>Providing fitting and fixing M.S.grill,Jalli cover over the harvesty pindi</td>
<td>Qntl.</td>
<td>6</td>
<td>6100</td>
<td>36600</td>
</tr>
<tr>
<td>60</td>
<td>Construction of 10000 Ltrs.capaity UGR.- 2 Nos.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Earth work in all kinds of soil within 50 mtr initial lead and 1.5mtr initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3 mtr in depth and as per direction of the Engineer in charge.</td>
<td>Cum</td>
<td>4.54</td>
<td>129.7</td>
<td>588.838</td>
<td></td>
</tr>
<tr>
<td>61</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4 ) with 12mm size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>2.54</td>
<td>5584.4</td>
<td>14184.376</td>
</tr>
<tr>
<td>a.</td>
<td>In ground floor</td>
<td>Cum</td>
<td>3.56</td>
<td>4287.6</td>
<td>15263.856</td>
</tr>
<tr>
<td>62</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:3:6) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>8.56</td>
<td>4552.5</td>
<td>38969.4</td>
</tr>
<tr>
<td>63</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) with punning on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>8.56</td>
<td>4552.5</td>
<td>38969.4</td>
</tr>
<tr>
<td>a.</td>
<td>Ground floor</td>
<td>sqm</td>
<td>59.5</td>
<td>123.9</td>
<td>7372.05</td>
</tr>
<tr>
<td>64</td>
<td>Supplying all materials, labour, T&amp;P and providing 1st class K.B.Brick work in C.M (1:4) in foundation and plinth including watering, curing, conveyance of all materials to site.</td>
<td>Cum</td>
<td>8.56</td>
<td>4552.5</td>
<td>38969.4</td>
</tr>
<tr>
<td>a.</td>
<td>In ground floor</td>
<td>Cum</td>
<td>8.56</td>
<td>4552.5</td>
<td>38969.4</td>
</tr>
</tbody>
</table>

**Construction of 20 users septic tank**
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. at BARABATI, under Jajpur RMC, Odisha

## ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>65</td>
<td>Earth work in excavation of foundation in all kinds of soil within 50m initial lead and 1.5m initial lift including rough dressing &amp; breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-in-Charge.</td>
<td></td>
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<td></td>
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<tr>
<td>a</td>
<td>3.29mx2.09mx1.50m=10.31</td>
<td>cum</td>
<td>10.31</td>
<td>129.7</td>
<td>1337.207</td>
</tr>
<tr>
<td>b</td>
<td>Extra lifts of 1.50 mtr or part thereof over the initial lift of 1.5 mtr in all kinds of embankments and road works and ordinary earthwork in general.</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>3.29mx2.09mx0.63m=4.33</td>
<td>cum</td>
<td>4.33</td>
<td>139.2</td>
<td>602.736</td>
</tr>
<tr>
<td>66</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:3:6) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>In ground floor-3.29mx2.09mx0.08m=0.55</td>
<td>cum</td>
<td>0.55</td>
<td>4287.6</td>
<td>2358.18</td>
</tr>
<tr>
<td>67</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12m size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>In ground floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.29mx2.09mx0.15m=1.03</td>
<td></td>
<td>1.03</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.13mx1.13mx½(0.03m+0.13m)=0.28</td>
<td>cum</td>
<td>1.31</td>
<td>5584.4</td>
<td>7315.564</td>
</tr>
<tr>
<td>68</td>
<td>Supplying all materials, labour, T&amp;P and providing brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:4) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>a</td>
<td>In F&amp;P</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(3.09m+1.13m)0.38mx0.70m=2.25</td>
<td></td>
<td>2.25</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>2(2.83m+1.13m)0.25mx1.30m=2.57</td>
<td></td>
<td>2.57</td>
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<tr>
<td></td>
<td>4.82</td>
<td>cum</td>
<td>4.82</td>
<td>4552.5</td>
<td>21943.05</td>
</tr>
<tr>
<td>69</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>In ground floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inside</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1.95m+1.87m)1.13m=4.32</td>
<td></td>
<td>4.32</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2x2.33mx½(1.95m+1.87m)=8.90</td>
<td></td>
<td>8.90</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Outside</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(3.09m+1.89m)0.70m=6.97</td>
<td></td>
<td>6.97</td>
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<tr>
<td></td>
<td>2(2.83m+1.63)1.43m=12.76</td>
<td></td>
<td>12.76</td>
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<tr>
<td>Sr. No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>---------</td>
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<td>------------</td>
</tr>
<tr>
<td>70</td>
<td>Supplying all materials, labour, T&amp;P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>sqm</td>
<td>13.22</td>
<td>23.1</td>
<td>305.382</td>
</tr>
<tr>
<td>71</td>
<td>Supplying all materials, labour, T&amp;P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>sqm</td>
<td>3.43</td>
<td>353.7</td>
<td>1213.191</td>
</tr>
<tr>
<td>72</td>
<td>Supplying all materials, labour, T&amp;P and providing M.S reinforcement for R.C.C work including cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Qntl</td>
<td>0.38</td>
<td>5226</td>
<td>1985.88</td>
</tr>
<tr>
<td>73</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12mm size hard broken granite chips for R.C.C works including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>cum</td>
<td>0.47</td>
<td>5584.4</td>
<td>2624.668</td>
</tr>
<tr>
<td>74</td>
<td>Supplying all materials, labour, T&amp;P and providing, fitting and fixing 100mm x 100mm x 100mm SW Tee in wall including filling the recess with cement concrete (1:3:6) with 12mm size h.g chips all complete including watering, curing, conveyance of all materials to worksite, payment of royalty all complete as per specification and direction of the Engineer in charge</td>
<td>Each</td>
<td>2</td>
<td>321.9</td>
<td>643.8</td>
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<tr>
<td>75</td>
<td>Supplying all materials, labour, T&amp;P and making MS step iron in 20mm diameter MS steel bars and fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge.</td>
<td>Each</td>
<td>5</td>
<td>181.3</td>
<td>906.5</td>
</tr>
</tbody>
</table>

**Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BARABATI, under Jajpur RMC, Odisha**

**ABSTRACT FOR PLUMBING & SANITARY WORK**
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BARABATI, under Jajpur RMC, Odisha

**ABSTRACT FOR PLUMBING & SANITARY WORK**

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<tr>
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<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>76</td>
<td>Filling in foundation and plinth with excavated materials, moorum including watering and ramming as directed by the Engineer in charge</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>2(3.29m+1.89m)0.10mx0.70m=0.73</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(3.29m+1.63m)x0.23mx1.20m=2.72</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>cum</td>
<td>3.45</td>
<td>72</td>
<td>248.4</td>
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<td><strong>Total</strong></td>
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<td>1616924</td>
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Sign and Stamp of EPIL

Sign and Stamp of bidder
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<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PART 4</strong> Insulation Work</td>
<td>Providing Poly Urethene composite sandwich Ceiling panels 100mm thk. for Ceiling with 0.50mm BMT pre painted Galvalume PPGL sheet on both side , with tounge and groove joints, PUF(Poly Urethene foam) shall be of density 40Kg/Cu.mt. +-2%, The panels shall be CFC Free certified., complete with erection and commissioning as walk in cooler ceiling with supporting -T and flashings and fixtures, silicon, PUF chemical sealant complete item</td>
<td>Sq. Mtrs.</td>
<td>1168.54</td>
<td>2247</td>
<td>2625709.38</td>
</tr>
<tr>
<td>1</td>
<td><strong>Providing EPS thermocole insulation for floor in two layers of 50+75mm each that is 125 mm complete.as per specification of material and workmanship, first of all apply bitumin primer over the cleaned surface, then fix polyethylent sheet of 500 micron, over which fix one layer of thermocole using bitumin 85x25, seal the joints, then apply bitumin, again fix second layer, again seal the joints with bitumin, complete item.</strong></td>
<td>Sq. Mtrs.</td>
<td>1168.54</td>
<td>1498</td>
<td>1750472.92</td>
</tr>
<tr>
<td>2</td>
<td>Providing Poly Urethene composite sandwich panel 100 mm thk. for Outer Wall with 0.50mm BMT pre painted Galvalume PPGL sheet on chamber side face and 0.25mm thk PPGI( Pre painted Galvanised, as per specification of material and workmanship)iron sheet on wallside face, with tounge and groove joint, PUF(Poly Urethene foam) shall be of density 40Kg/Cu.mt. +-2%, The panels shall be CFC Free certified., including erection and commissioning as walk in cooler walls with flashings, fixtures,silicon sealant, PUF chemical complete item.</td>
<td>Sq. Mtrs.</td>
<td>1980.51</td>
<td>2140</td>
<td>4238291.4</td>
</tr>
<tr>
<td>3</td>
<td>Providing Poly Urethene composite sandwich panel for Partition wall, 100 mm thk. with 0.50mm BMT both sides pre painted Galvalume PPGL sheet on chamber side face and 0.25mm thk PPGI( Pre painted Glvanised, as per specification of material and workmanship)iron sheet on wallside face, with tounge and groove joint, PUF(Poly Urethene foam) shall be of density 40Kg/Cu.mt. +-2%, The panels shall be CFC Free certified., including erection and commissioning as walk in cooler partition wall with fixtures and flashings using silicon sealant and PUF chemical complete item.</td>
<td>Sq. Mtrs.</td>
<td>381.48</td>
<td>2140</td>
<td>816367.2</td>
</tr>
<tr>
<td>4</td>
<td>Providing and fixing Single leaf manual hinge hatch door/windows 100mm thk PU insulation with 0.6mm thk. Coated steel finish. W=1200mm, H=2100mm, as per specification of material and workmanship</td>
<td>Nos.</td>
<td>19</td>
<td>48150</td>
<td>914850</td>
</tr>
<tr>
<td>5</td>
<td>Providing Suction pipeline insulation with 50/75mm pipe of EPS in throught suction line in machine room,Low pressure receiver and chamber complete Top should be cladded with Alumiunis sheet complete.</td>
<td>Lumpsum</td>
<td>695500</td>
<td></td>
<td>695500</td>
</tr>
<tr>
<td>6</td>
<td>Strip Curtain 150 mm wide for 2X1 M door opening,3 mm thick</td>
<td>Nos.</td>
<td>19</td>
<td>1500</td>
<td>28500</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>11369291</strong></td>
</tr>
</tbody>
</table>
**Name of Work :** Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BARABATI, under Jajpur RMC, Odisha

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>PART 6</td>
<td>Supply, installation &amp; commissioning of silent type 160 KVA, 415V, 50Hz, 1500 RPM, 0.8 Lagging p.f., D.G. Set with all accessories excluding AMF Panel with acoustic enclosure. Conforming to BS 5514, 649, IS 10000, capable of taking 10% overload for one hour after 12 hours of continuous operation including base frame, foundation platform, fuel tank, starting system, batteries etc. conforming to CPWD General specification for DG Sets and including Earthing. Complete in all respect.</td>
<td>No</td>
<td>1</td>
<td>875000</td>
<td>875000</td>
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<tr>
<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
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<td>--------</td>
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</tr>
<tr>
<td><strong>PART 7</strong></td>
<td><strong>ELECTRICAL WORK</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 1      | SITC of Electric control Panel having all electrical controls with MCCBs incoming main and earth fault relay, one CT operated ammeter 0-800 amps and one volt meter 0-800 volts etc. complete unit to run above plant. Specification mention as below.  
1. INCOMER- Main MCCB of any standard make, Control and Switchgear etc of Capacity, 630A 01 No., Change over Switch, 01 No. METERING-indicating lamp R/Y/B 230V 03 No., control fuse with HRC link 2A 07, APFC relay 12 stage make 01 No., Multifunctional Meter 0-800A 01 No., CT800/5Amp/class 1 800/5A 04 no.  
2. OUTGOING-  
a) 75HP ATS starters Qty 03 Nos. (300A SFU with HRC link 300A 03NO., Control MCB 6Amp 9No., 160A 3P Contact 06 Nos. 80A 3 pole contact 3No. Thermal over load relay 66-110A 03No., on delay timer 06No., ATS Transformer 03No., Ammeter digital type with ASS 0-300A 03No.; CT300/5Amp class 1 09No., Indicating lamp R/Y/B/OFF/TRIP 230V 15Nos., Start/Stop Push button 06No.  
b) 5HP DOL starter for pump with standby- 20A MCB TP 10KA, 18A 3P Contact 09 No., Thermal over load relay 6-10A 03 No., 5HP VFD 02 No. indicating lamp ON/OFF/TRIP 04 No., Start stop push button 230V 04 No., Auto manual selector switch 02 No.,  
c) 5HP DOL Starter for Water Pump and LIFT motor- 20A MCB TP 10KA, 20A 02 No., Control MCB 6Amp SP, 6A, 02 No., 18A 3P Contact 02 No., Thermal over load relay 6-10A 02 No. indicating lamp ON/OFF/TRIP, 06 Nos., Auto Manual Selector switch 02 Nos., Start/Stop Push Button 230V 04 Nos.  
d) 5HP DOL starter for Fans 03 Nos.- 20A MCB TP 10KA, 20A 02 No., Control MCB 6Amp SP, 6A, 02 No., 18A 3P Contact 02 No., Thermal over load relay 6-10A 02 No. indicating lamp ON/OFF/TRIP, 06 Nos., Auto Manual Selector switch 02 Nos., Start/Stop Push Button 230V 02 Nos.  
e) 80 KVAR APFC Section- 20 Amp TP MCB 10KA C-curve, 20A 01 Nos, Capacitor duty contactor 12.5KVAR, 12KVAR, 01 Nos., 5KVAR heavy duty capacitor, 5KVAR, 01 NOs., Auto | Nos  | 1    | 1550000 | 1550000 |
| 2      | Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shielded XLPE power cable of 1.1 KV grade 3.5 CORE 185 Sqmm AL.CONDUCTOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required. | Mtrs | 100  | 1978  | 197800  |
| 3      | Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shielded XLPE power cable of 1.1 KV grade 3.5 CORE 50 Sqmm AL.CONDUCTOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required. | Mtrs | 50   | 721   | 36050   |
| 4      | Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shielded XLPE power cable of 1.1 KV grade 3.5 CORE 35 Sqmm AL.CONDUCTOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required. | Mtrs | 50   | 589   | 29450   |
| 5      | Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shielded XLPE power cable of 1.1 KV grade 3.5 CORE 10 Sqmm Cu CONDUCTOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required. | Mtrs | 200  | 387   | 77400   |
### ABSTRACT FOR ELECTRICAL WORK

<table>
<thead>
<tr>
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<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Wiring of light points/fan points (6A/5A) with junction boxes, MS covers etc. All materials i.e. switches / sockets / MS boxes / hardwares and wires etc. shall be of approved make and shall be supplied/installed under scope of work for concealed flush type arrangement. The earthwire PVC insulated 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade is to be supplied/installed as per drawing and specifications. Complete work has to be executed strictly as per drawing Point wiring covers all work scope from switch board to points.</td>
<td>Nos</td>
<td>405</td>
<td>1134</td>
<td>459270</td>
</tr>
<tr>
<td>7</td>
<td>Wiring of two way control point with with 2 x 1.5 SQMM copper wire 660V / 1.1 KV copper cable 660V / 1.1 KV grade PVC insulated including supply of material.</td>
<td>Nos</td>
<td>3</td>
<td>1112</td>
<td>3336</td>
</tr>
<tr>
<td>8</td>
<td>Wiring of bell/buzzer points with 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade insulated wire (including supply of all material) including CPL buzzer board.</td>
<td>Nos</td>
<td>18</td>
<td>2298</td>
<td>41364</td>
</tr>
<tr>
<td>9</td>
<td>Materials</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>Providing and fixing of BULKHEAD LED fittings of 40 watt each</td>
<td>Nos</td>
<td>325</td>
<td>2000</td>
<td>650000</td>
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<tr>
<td>ii)</td>
<td>Providing and fixing of LED Tube Light fittings of 40 watt each</td>
<td>Nos</td>
<td>40</td>
<td>1150</td>
<td>46000</td>
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<tr>
<td>iii)</td>
<td>Providing and fixing of 1400RPM Ceiling Fan</td>
<td>Nos</td>
<td>40</td>
<td>2350</td>
<td>94000</td>
</tr>
<tr>
<td>iv)</td>
<td>Providing and fixing 1x400W HPSV street light fittings with accessories like control switch, clamps, bend rod etc.</td>
<td>Nos</td>
<td>8</td>
<td>7400</td>
<td>59200</td>
</tr>
<tr>
<td>10</td>
<td>Preparing an earthing pit (Plate electrode) by using 600 x 600 x 3.15mm thk. GI plates at location shown in the drawing including supply laying and installation of all necessary material as earth electrodes, strips, wires, funnel, screen, watering pipes, brick chamber, CI frame with cover and to complete.</td>
<td>Nos</td>
<td>9</td>
<td>11500</td>
<td>103500</td>
</tr>
<tr>
<td>11</td>
<td>Supply, Installation, Testing &amp; Commissioning of following type Distribution board surface / flush mounted with Single Door MCB DBs. The DB shall have appropriate no. of top &amp; bottom knock outs for outgoing circuits &amp; shall be complete with necessary bus bars, interconnection terminals &amp; earth studs. All terminations in DB shall be complete with ferruling, dressing &amp; all circuits shall be properly labeled with PVC strip (sticker type) having identification as per the final approval of Consultant.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>2Way MCB DB</td>
<td>Nos</td>
<td>18</td>
<td>673</td>
<td>12114</td>
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<tr>
<td>ii)</td>
<td>8 Way Vertical TPN DB</td>
<td>Nos</td>
<td>3</td>
<td>9652</td>
<td>28956</td>
</tr>
<tr>
<td>12</td>
<td>Supply and fixing following type MCBs in existing MCB DBs including its incoming and outgoing connection with suitable size of PVC insulated, copper conductor flexible wire etc. as reqd.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>32A 4 Pole MCB</td>
<td>Nos</td>
<td>18</td>
<td>953</td>
<td>17154</td>
</tr>
<tr>
<td>13</td>
<td>LIGHTNING ARRESTOR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supply, Installation, testing and commissioning of High pulsar voltage OPR 30 Early streamer emission (ESE) Advance Lightning Protection system with 4 meter high Pulsar 30 having 65 meter protection radius IN LEVEL 2 complies with NFC-17-102 standards. The Air terminal should be capable to collect the ambient electric field and should emit the upward streamer with the defined Gain in time. The installation should be strictly followed as per manufacturer's instructions. The system should include the following items complete in all respects.</td>
<td>Set</td>
<td>1</td>
<td>160000</td>
<td>160000</td>
</tr>
<tr>
<td></td>
<td>GI mast for mounting the terminal &amp; adaptor to mount the OPR 30 with suitable base plate, should have provision for Guy wire clamping system, termination arrangement for the Down- Conductor.</td>
<td>Set</td>
<td>1</td>
<td>18000</td>
<td>18000</td>
</tr>
<tr>
<td></td>
<td>Down conductor of 70 sq.mm single core insulated flexible Copper cable with necessary accessories, etc OR Copper strip of size 25 X 3mm down conductor of suitable length as per building height with suitable mounting accessories and mounted on Insulators.</td>
<td>Mtrs</td>
<td>60</td>
<td>850</td>
<td>51000</td>
</tr>
<tr>
<td></td>
<td>Lightning Flash counter working electro mechanically without any power supply. Equipment should count lightning strokes of 0.4KA to 150 KA.(8/20 micro second waveform) tested as per IEC 60-1:1989</td>
<td>Nos</td>
<td>1</td>
<td>16000</td>
<td>16000</td>
</tr>
</tbody>
</table>
Name of Work :-Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BARABATI, under Jajpur RMC, Odisha

ABSTRACT FOR ELECTRICAL WORK

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Supply, installation, testing &amp; commissioning of maintenance free chemical earth pit set consisting of 1.2M long 16 mm dia 250 Micron Cu-coated MS rod (2 nos) connected together with clamps along with 10 Kg of ground enhancing chemical GRIC compound (without use of charcoal, salt or another combine). It should be capable of reducing soil resistivity by at least 50%. The earth pit shall be covered with Polyplastic heavy duty cover.</td>
<td>Nos</td>
<td>3</td>
<td>9500</td>
<td>28500</td>
</tr>
<tr>
<td>14</td>
<td>Point wiring for 5/6 amp socket outlet with 2 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia MS conduit with piano type switch, phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required.</td>
<td>Nos</td>
<td>15</td>
<td>1341</td>
<td>20115</td>
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<tr>
<td>15</td>
<td>Point wiring for 15/16 amp socket outlet with 2 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia MS conduit with piano type switch, phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required.</td>
<td>Nos</td>
<td>10</td>
<td>1598</td>
<td>15980</td>
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<td></td>
<td><strong>Total</strong></td>
<td></td>
<td></td>
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<td><strong>3715189</strong></td>
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## ABSTRACT FOR FIRE FIGHTING WORK

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<tr>
<th>Sr No</th>
<th>Item Description</th>
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<th>Rate</th>
<th>Amount</th>
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<tbody>
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<td><strong>PART 8</strong></td>
<td><strong>FIRE FIGHTING WORK</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>1</td>
<td>SITC of following dia MS Pipes (B Class) with necessary bends, hydrant stand, isolation valves, flanges, landing valve, RRL Hose, Branch pipe, Hose box, underground road crossing, colouring etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>150 mm</td>
<td>Rmt</td>
<td>35</td>
<td>3187.8</td>
<td>111573</td>
</tr>
<tr>
<td>ii)</td>
<td>100 mm</td>
<td>Rmt</td>
<td>180</td>
<td>2500</td>
<td>450000</td>
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<tr>
<td>2</td>
<td>SITC of flexible Fire Hoses (first aid horeel) with with a wall-mounted bracket, hose guide, jet nozzle and 30 metres hose.</td>
<td>Set</td>
<td>12</td>
<td>9000</td>
<td>108000</td>
</tr>
<tr>
<td>3</td>
<td>Supply installation testing and commissioning of following pumps for fire fighting system</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>1620 LPM (50 Mtrs Head, 40 HP) fire hydrant pump (with all attachments like NRV, Cut off valve, air caution vessel, Pressure gauge, Pressure switch all complete etc)</td>
<td>nos</td>
<td>1</td>
<td>200000</td>
<td>200000</td>
</tr>
<tr>
<td>ii)</td>
<td>180 LPM Jockey pump, 50 Mtrs Head (3HP) Vertical type with (with all attachments like NRV, Cut off valve, Pressure gauge, Pressure switch all complete</td>
<td>nos</td>
<td>1</td>
<td>65000</td>
<td>65000</td>
</tr>
<tr>
<td>iii)</td>
<td>1620 LPM Diesel Engine driven hydrant pump, 40 HP, 50 Mtrs Head (with all attachments like NRV, Cut off valve, Pressure gauge, Pressure switch, fuel Tank, Base Plate, battery, all complete etc)</td>
<td>nos</td>
<td>1</td>
<td>350000</td>
<td>350000</td>
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<tr>
<td>4</td>
<td>Fire Detection system</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>a</td>
<td>Supply installation of multi criteria detectors (smoke+ heat)</td>
<td>Nos</td>
<td>100</td>
<td>3245</td>
<td>324500</td>
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<tr>
<td>b</td>
<td>Supply installation of following addressable fire alarm panels</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>i)</td>
<td>Repeater panels</td>
<td>Nos</td>
<td>3</td>
<td>85387.5</td>
<td>256162.5</td>
</tr>
<tr>
<td>ii)</td>
<td>Main fire alarm panel with MCP, Hooter, Isolater module.</td>
<td>Nos</td>
<td>1</td>
<td>250470</td>
<td>250470</td>
</tr>
<tr>
<td>c</td>
<td>2 x 1.5 sq mm cu flexible cable in MS conduit for detector wiring</td>
<td>Rmt</td>
<td>700</td>
<td>160</td>
<td>112000</td>
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<tr>
<td>5</td>
<td>Co2 Fire extinguishers</td>
<td>Nos</td>
<td>8</td>
<td>7500</td>
<td>60000</td>
</tr>
<tr>
<td>6</td>
<td>DCP Fire extinguishers</td>
<td>Nos</td>
<td>20</td>
<td>3500</td>
<td>70000</td>
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<tr>
<td>7</td>
<td>Pump Control Panel for quoted main (1620 LPM), Diesel (1620 LPM) &amp; Jockey (180 LPM) fire pump auto operation with earthing &amp; pump wiring</td>
<td>Nos</td>
<td>1</td>
<td>300000</td>
<td>300000</td>
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<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>2657706</strong></td>
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</table>

Name of Work: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BARABATI, under Jajpur RMC, Odisha
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BARABATI, under Jajpur RMC, Odisha

<table>
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<th>Amount</th>
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</thead>
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<tr>
<td>PART 9</td>
<td>LIFT</td>
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<td></td>
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</tr>
<tr>
<td>1</td>
<td>Endless Chian &amp; Sprocket type open platform, motorised manually operated Bi directional bag lift</td>
<td>No</td>
<td>1</td>
<td>952300</td>
<td>952300</td>
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# ABSTRACT FOR PLANT & EQUIPMENT WORK

<table>
<thead>
<tr>
<th>S. No.</th>
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<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
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</thead>
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<td><strong>PART 5  PLANT &amp; EQUIPMENT</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Heavy duty high speed industrial type three cylinder vertical reciprocating ammonia refrigeration compressors Kirloskar KC-2/Frick/Superfreeze/Mycom or equivalent make with drive set, stop valve for suction and discharge with flanges and counter flanges, HP/LP OP cutouts, gauges, base frame, bolts, tool kit, gasket set and ferrule complete set with erection and commissioning, testing. Heavy duty high speed industrial type three cylinder vertical reciprocating ammonia refrigeration compressors Kirloskar KC-2/Frick/Superfreeze/Mycom or equivalent make with drive set, stop valve for suction and discharge with flanges and counter flanges, HP/LP OP cutouts, gauges, base frame, bolts, tool kit, gasket set and ferrule complete set with erection and commissioning, testing.</td>
<td>Nos.</td>
<td>3</td>
<td>499333.69</td>
<td>1498001.07</td>
</tr>
<tr>
<td></td>
<td>Providing Electric motor of Kirloskar / Crompton / GEC of 50 HP and 1440 RPM, Induction for operation on 440/400 volts, 50 cycles, 3 phase AC supply for driving the Compressors.</td>
<td>Nos.</td>
<td>3</td>
<td>178333.69</td>
<td>535001.07</td>
</tr>
<tr>
<td>3</td>
<td>Providing MEI / Kilbern / L &amp; T motor starter for above mentioned 50HP motor respectfully with ammeter of AE make and 2 overload relays and cable box including starter oil etc. complete. Providing Centrifugal mono block pumps(12M head, 12 LPS) for circulating water with TFC squirrel cage induction motor of 5.0 HP suitable for operation on 400/440 volts, 50 cycles, three phase AC supply and necessary inlet and outlet pipes and foot valves (Kirloskar model no. KDSS15 / Crompton model No. MBP 52 / Texmo model No. TMH-6) one fitted stand by.</td>
<td>Nos.</td>
<td>2</td>
<td>26750</td>
<td>53500</td>
</tr>
<tr>
<td>4</td>
<td>Providing Liquid ammonia receiver of 600mmx6.0 mt long fabricated with 14mm thk plates with inlet and outlet valves, gauge glass valves with gauge glass including MS stand complete.</td>
<td>Nos.</td>
<td>1</td>
<td>187250</td>
<td>187250</td>
</tr>
<tr>
<td>5</td>
<td>Providing Oil separator fabricated with 10mm thk. MS plate with size 1350x600mm complete with companion flange.</td>
<td>Nos.</td>
<td>1</td>
<td>26750</td>
<td>26750</td>
</tr>
<tr>
<td>6</td>
<td>Providing Atmospheric condenser 10 pipes high 16 Condensers made in TATA/JINDAL/PRAKASH SURYA MS 50mm thk Round Pipe with fabrication and erection with angle grame 65x65x6 with water ling in GI 50mm B Class Pipe of TATA/JINDAL/PRAKASH SURYA make wth header of 150mm dia GI Pipe, all Complete item suitable for heat load of 550KW including sand blasting and ZINC spray galvanising 120GSM.</td>
<td>Nos.</td>
<td>16</td>
<td>59920</td>
<td>958720</td>
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<tr>
<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
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<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>7</td>
<td>Providing Air Cooling Units of alfa laval/ICL/starcooler and condensers/Frick or equivalent make, 03 Nos in each Chamber of refrigeration capacity 36KW each suitable for 0 deg C, Refrigerant ammonia evaporating(pump feed), air volume 48000 CMH, fans 3X710mm axial fan, 1440 RPM, motor 0.75KW(1HP) each, 415V/3ph/50Hz, Stainless steel tubes with plain aluminium fins, 4 fpi, case work GI white powder coated complete with erection and commissioning at top.</td>
<td>Sets</td>
<td>12</td>
<td>285333.69</td>
<td>3424004.28</td>
</tr>
<tr>
<td>8</td>
<td>Provision of First charge of ammonia and oil 68 No. freeze oil for initial temperature as required and maintained for one year.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>374500</td>
</tr>
<tr>
<td>9</td>
<td>Black and GI pipes of different sizes for the completion of water and gas lines and for inter connection of entire plant with suction discharge and liquid lines.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>535000</td>
</tr>
<tr>
<td>10</td>
<td>Sundry material such as gaskets, thread seals, packing sheets, nut bolts, water valves, flanges, V-belts and other required equipments complete as required for various plant and machinery for 5000 mt capacity.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>214000</td>
</tr>
<tr>
<td>11</td>
<td>Providing Energy Recovery wheel in each chamber of 1547Mt each, 02 nos, suitable for 04 air changes in a day. Danfoss/Manik/Any ISI make as per NHB norms and Standards.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>428000</td>
</tr>
<tr>
<td>12</td>
<td>Equipment for Co2 gas removal suitable for 02 chambers of 1547MT each to hold the co2 level 2000PPM as per NHB Norms and Standards.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>1391000</td>
</tr>
<tr>
<td>13</td>
<td>Providing Freon plant for Four chambers of 52 MT each with eveoprators and condensing units complete with pipe line, pipeline insulation suitable for heat load of 28.15KW at peak load, complete with installation and commissioning with electrification.</td>
<td>Each</td>
<td>1</td>
<td>3638000</td>
<td>3638000</td>
</tr>
<tr>
<td>14</td>
<td>Load cell based Weight Monitoring system all complete with remot disply</td>
<td>Nos</td>
<td>6</td>
<td>50000</td>
<td>300000</td>
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<tr>
<td></td>
<td><strong>TOTAL</strong></td>
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<td></td>
<td><strong>13563726</strong></td>
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### SUMMARY - SAKHIGOPAL - 5000 MT

Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At SAKHIGOPAL, RMC, Odisha

<table>
<thead>
<tr>
<th>PART</th>
<th>PARTICULARS</th>
<th>AMOUNT</th>
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<td>PART-1</td>
<td>Civil Work</td>
<td>Rs. 47221199</td>
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<td>PART-2</td>
<td>Civil Work (Steel Structural Work)</td>
<td>Rs. 30698122</td>
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<td>PART-3</td>
<td>Plumbing &amp; Sanitary Works (P.H.)</td>
<td>Rs. 1616923.633</td>
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<td>PART-4</td>
<td>Insulation Work (E.I.)</td>
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<td>PART-5</td>
<td>DG SET (E.I.)</td>
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<td>PART-6</td>
<td>Electrification (E.I.)</td>
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<td>PART-7</td>
<td>Fire Fighting Work (E.I.)</td>
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<td>PART-8</td>
<td>LIFT (E.I.)</td>
<td>Rs. 952300</td>
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<td>PART-9</td>
<td>Plant Machinery</td>
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<td><strong>TOTAL</strong></td>
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<tr>
<td>Sr.No.</td>
<td>Particulars</td>
<td>Unit</td>
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<td>------</td>
</tr>
<tr>
<td>1</td>
<td>Earth work in ordinary soil within 50m, initial lead and 1.5m initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer- in-charge.</td>
<td>cum</td>
</tr>
<tr>
<td>2</td>
<td>Earth work in Hard soil within 50m, initial lead and 1.5m initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer- in-charge.</td>
<td>cum</td>
</tr>
<tr>
<td>3</td>
<td>Extra Lift of 1.5m or part there of over the initial lift of 1.5 m in all kinds of embankments and road work and ordinary earth work in general.</td>
<td>cum</td>
</tr>
<tr>
<td>4</td>
<td>Back filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5m.</td>
<td>cum</td>
</tr>
<tr>
<td>5</td>
<td>Supplying &amp; Filling foundation trenches , plinth &amp; ditches with clean course river sand well watered and rammed in layers not exceeding 23 c.m. in depth with all lead and lift including cost, conveyance, loading, unloading, stacking, royalties and all taxes of sand, cost &amp; conveyance of water, cost of all Labour, labour cess, T&amp;P required for the work etc. complete in all respect as directed by the Engineer- in-charge.</td>
<td>cum</td>
</tr>
<tr>
<td>6</td>
<td>Providing and laying Plain cement concrete of proportion (1:4:8) using 4cm size metal etc. in foundation and floors using cement, 40mm. Size crusher broken H.G.Metal and screened and washed sharp river sand for mortar of approved quality and from approved quarry including hoisting, lowering and laying concrete to the required level, ramming, watering and curing etc. complete to required levels, laid in layers not exceeding 15cm thick in each layer including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P required for the work including shoring, shuttering and dewatering (if required) including hire and running charges of water pump required for the work etc. complete in all respect as directed by the Engineer- in-charge.</td>
<td>cum</td>
</tr>
<tr>
<td>Sr.No.</td>
<td>Particulars</td>
<td>Unit</td>
</tr>
<tr>
<td>-------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>7</td>
<td>Boaring, providing and installing cast in situ single under reamed pile of specified diameter and length below pile cap in M25 cement concrete as per method, to carry a safe working load not less than specified excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. including cost of all labour, material, taxes, royalties transportation, loading and unloading, sunries, T&amp;P also including hire &amp; running charges of concrete mixer and vibrator for the work etc completed as per direction of Engineer in charge (Length of pile for payment shall be measured upto to the bottom of pile cap). The rates shall be inclusive of a test pile to be conducted by the contractor for the strength of pile.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pile Length 6.00metre</td>
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<tr>
<td>a</td>
<td>For Each additional of 0.50mt beyond intial depth of 6.0mt add extra to the Rate</td>
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</tr>
<tr>
<td></td>
<td>Extra for each 0.50m depth</td>
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<tr>
<td>8</td>
<td>Providing and laying in position ready mixed M-25 grade concrete having compressive strength at 28 days test not less than 250 kg/ sq.cm for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, and hoisting, lowering, laying and compacting concrete, watering and curing and finishing the exposed surfaces smooth with cost, conveyance, royalties, taxes of all materials with all labour, Labour cess and T&amp;P required for the work improve workability without impairing strength and durability as per direction of the Engineer - in - charge.</td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Up to Plinth Level</td>
<td>Cu mt</td>
</tr>
<tr>
<td>b</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Cu mt</td>
</tr>
<tr>
<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Cu mt</td>
</tr>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Cu mt</td>
</tr>
<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Cu mt</td>
</tr>
<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Cu mt</td>
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Name of Work : Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At SAKHIGOPAL, RMC, Odisha

### ABSTRACT FOR CIVIL WORK

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<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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<tbody>
<tr>
<td>9</td>
<td>Rigid &amp; smooth centering &amp; shuttering for R.C.C. works including false works with all necessary bracing and tiles and supports with leveling centering covered with plastic sheet with provisions for necessary holes and pockets for electrical conduits, pipes, P.H. pipes, for hooks or boxes, switch and board insert plates, clamps and extension bars etc., including dismantling the same after the required interval from the date of casting including cost of all materials, labour, Labour cess, conveyance, loading and unloading, taxes, royalties, scaffolding, watering, curing, sundries, tools and plants, etc., complete as per the direction of the Engineer-in-charge.</td>
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<td>RCC Foundation and Plinth</td>
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<td>RCC Beam, Column, Grider &amp; bresamer etc.</td>
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<td>Forth Floor Level (14.0mtr above)</td>
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<td>333.12</td>
<td>1107.5</td>
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<td>c</td>
<td>RCC Roof slab, Landing, Balcony &amp; chajja etc.</td>
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<td>RCC Stairs excluding Landing</td>
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</table>
**Name of Work:** Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At SAKHIGOPAL, RMC, Odisha

### ABSTRACT FOR CIVIL WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Cutting, straightening coiled or bent up HYSD/TMT Reinforcement Bars welding or jointing if necessary, bending, binding, tying the grills as required for R.C.C. works, providing Fan Hooks where necessary and hoisting, lowering and placing the same in proper position according to the approved designs and drawings in all floors including cost, conveyance, loading, unloading and taxes or HYSD/TMT Reinforcement Bars and Binding wires of 18 to 20 gauge required for the work cost of all labour, T&amp;P and scaffolding complete in all respect as directed by the Engineer-in-charge (Payment will be made according to the actual/proper weight of HYSD/TMT Reinforcement Bars and Binding wires consumed in the particular work only)</td>
<td>Kg</td>
<td>22746</td>
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<td>Steel for pile</td>
<td>Kg</td>
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<td>Up to Plinth Level</td>
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<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Kg</td>
<td>51455.38</td>
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<td>First Floor Level (3.5mtr to 7.0mtr)</td>
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<td>Forth Floor Level (14.0mtr above)</td>
<td>Kg</td>
<td>94.07</td>
<td>5041</td>
<td>474206.87</td>
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<tr>
<td>11</td>
<td>Fly Ash Brick Masonry in cement mortar of mix (1:6) using Fly Ash bricks of size 25c.m x 12 c.m x 8 c.m in Foundation, Plinth &amp; super structure having crushing strength not less than 75 kg per square c.m. with cement and screened &amp; washed sharp sand for mortar after immersing the bricks for 6 (Six) hours in water before use in works with all necessary projections, splays cutting, circular moulding, corbelling, chamfering, watering and curing etc. including cost, conveyance, stacking, loading, unloading, royalties, all taxes, cost of all labour, Labour cess, scaffolding, sundries and T&amp;P required for the works etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td>Kg</td>
<td>93.5625</td>
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<td>Up to Plinth Level</td>
<td>Cum.</td>
<td>321.0613</td>
<td>4227.6</td>
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<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Cum.</td>
<td>157.325</td>
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<td>First Floor Level (3.5mtr to 7.0mtr)</td>
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<td>Forth Floor Level (14.0mtr above)</td>
<td>Cum.</td>
<td>94.07</td>
<td>5041</td>
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</table>
ABSTRACT FOR CIVIL WORK

<table>
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<tr>
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<th>Amount</th>
</tr>
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<tbody>
<tr>
<td>12</td>
<td>Providing 12mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement &amp; screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary) including watering and curing, rounding of corners etc. complete with cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P, sundries and scaffolding required for the work etc. as directed by the Engineer-in-charge.</td>
<td></td>
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<tr>
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<td>First Floor Level (3.5mtr to 7.0mtr)</td>
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<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>sqm</td>
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<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
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<th>Unit</th>
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<tbody>
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<td>Providing 16mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement &amp; screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary) including watering and curing, rounding of corners etc. complete with cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P, sundries and scaffolding required for the work etc. as directed by the Engineer-in-charge.</td>
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<td>Painting 2 (Two) or more coats with Weather Coat Paint of premium brand Such as Asian/ Berger/ ICI paints or equivalent of approved quality &amp; colour, using required quantities of paint as specified by the manufacturer to give an even shade over a coat of wall priming (water based) on the finished external plastered surface at all height, watering the surface before applying the Weather Coat Paint and curing for the required period including cost, conveyance, loading, unloading, stacking and all taxes, cost of all Labour, Labourcess, Sundries, Scaffolding, Staging and T&amp;P etc. required for the work complete in all respect as directed by the Engineer-in-charge.</td>
<td></td>
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Sign and stamp of EPIL 6
Sign and stamp of bidder
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At SAKHIGOPAL, RMC, Odisha

<table>
<thead>
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<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Upto Plinth Level</td>
<td>Sqm</td>
<td>483.912</td>
<td>101.2795</td>
<td>49010.38234</td>
</tr>
<tr>
<td>b</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm</td>
<td>825.06</td>
<td>104.2383</td>
<td>86002.8254</td>
</tr>
<tr>
<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm</td>
<td>701.64</td>
<td>107.4</td>
<td>75356.136</td>
</tr>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm</td>
<td>655.86</td>
<td>110.7</td>
<td>72603.702</td>
</tr>
<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm</td>
<td>671.16</td>
<td>114.2</td>
<td>76646.472</td>
</tr>
<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm</td>
<td>589.14</td>
<td>117.5</td>
<td>69223.95</td>
</tr>
</tbody>
</table>

15 Priming one coat over with any approved primer including cost of material & labour For Plastere Surface with water bond Cement primer

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Upto Plinth</td>
<td>Sqm</td>
<td>0</td>
<td>43.1</td>
<td>0</td>
</tr>
<tr>
<td>b</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm</td>
<td>0</td>
<td>44.5</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm</td>
<td>0</td>
<td>46.0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm</td>
<td>0</td>
<td>47.6</td>
<td>0</td>
</tr>
<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm</td>
<td>0</td>
<td>49.3</td>
<td>0</td>
</tr>
<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm</td>
<td>0</td>
<td>49.3</td>
<td>0</td>
</tr>
</tbody>
</table>

16 Wall painting two coats with plastic emulsion paint of approved quality colour at all heights to the interior surface of the wall to make an even finished surface including sand paptering, applying putty wherever necessary including cost, conveyance, loading, unloading, stacking, all taxes, cost of all Labour, Labour cess, scaffoldings, staging, sundries, T&P etc. required for the work complete as directed by the Engineer-in-charge.

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm</td>
<td>1522.532</td>
<td>178.6</td>
<td>271924.2152</td>
</tr>
<tr>
<td>b</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm</td>
<td>1730.842</td>
<td>181.8</td>
<td>314667.0756</td>
</tr>
<tr>
<td>c</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm</td>
<td>659.82</td>
<td>185.1</td>
<td>122132.682</td>
</tr>
<tr>
<td>d</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm</td>
<td>659.82</td>
<td>188.5</td>
<td>124376.07</td>
</tr>
<tr>
<td>e</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm</td>
<td>609.78</td>
<td>192.1</td>
<td>117138.738</td>
</tr>
</tbody>
</table>

18 Finishing wall surface of walls with Acrylic wall putty (water based) of approved make and finished smooth and even surface to receive painting including cost, conveyance, taxes of all materials, cost of all Labour, Labour cess, scaffoldings, staging, sundries, T&P etc. required for the work complete as directed by the Engineer-in-charge.

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm</td>
<td>0</td>
<td>74.28</td>
<td>0</td>
</tr>
<tr>
<td>b</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm</td>
<td>0</td>
<td>75.092</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm</td>
<td>0</td>
<td>75.932</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm</td>
<td>0</td>
<td>76.792</td>
<td>0</td>
</tr>
<tr>
<td>e</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm</td>
<td>0</td>
<td>77.672</td>
<td>0</td>
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19 Brick on edge flooring using fly ash brick flat over one brick flat set in cement mortal (1:8)

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Ground Floor</td>
<td>Sqm</td>
<td>979.8</td>
<td>892.6692</td>
<td>874637.2778</td>
</tr>
</tbody>
</table>
### Name of Work:
Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At SAKHIGOPAL, RMC, Odisha

#### ABSTRACT FOR CIVIL WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
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<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>Cement concrete flooring grade 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate) rounding off edges etc. but excluding the cost of nosing of steps etc. complete : 75 mm thick with 20 mm thick nominal size aggregate.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Ground Floor</td>
<td>Sqm.</td>
<td>0</td>
<td>240.72</td>
<td>0</td>
</tr>
<tr>
<td>21</td>
<td>Providing and fixing steel glazed doors windows and ventilator shutters of standard rolled steel section joints mitred and welded with steel lugs 13 x 3 mm, 10 cm. long embedded in cement concrete block 15 x 10 x 10 cm. of 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws with fixing clips or with bolts and nuts as required including providing and fixing of plain glass panes 4 mm thick with copper glazing clips and special metal sash putty of approved make or metal beading with screws complete including priming coat of approved steel primer, excluding the cost of metal beading and other fitting except necessary hinges of pivots steel handles peg stay etc. as required : Windows side hung (openable)</td>
<td>Sqm.</td>
<td>1.28</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge 0.50mm (+0.05%) total coated thickness with zinc coating 120grams per sqm as per IS:227, in 240mpa steel grade, 5-7 microns.</td>
<td>Sqm</td>
<td>1354.358</td>
<td>597.2311</td>
<td>808864.7652</td>
</tr>
</tbody>
</table>

**TOTAL CIVIL**

47221199
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At SAKHIGOPAL, RMC, Odisha

### ABSTRACT FOR STEEL STRUCTURAL WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
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<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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<tr>
<td>PART 2</td>
<td>STRUCTURAL WORK</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEEL CHALLIES WORK</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>up tubular hollow hot finished welded type steel tubes for trusses or frame works, etc. using round, square or rectangular hollow tubes including cutting, hoisting and fixing in position and applying a prime coat of approved steel primer including welding and bolting with special shaped washers including cost of all labours, joining (i) Hoising of Trusses and Placing in Position</td>
<td>Kg.</td>
<td>178336.5</td>
<td>77.4</td>
<td>13803243.55</td>
</tr>
<tr>
<td>2</td>
<td>made out of channels, angles, flats, plates, chequered plates, I Section, Beam, Hollow Section any type of frame, space frame, gates, atrium in top, truss, purlins, columns, beams etc. complete as per drawing including priming with one coat of red oxide primer in all floors as per the (i) Hoising of Trusses and Placing in Position</td>
<td>Kg.</td>
<td>218280.1</td>
<td>77.4</td>
<td>16894878.66</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>30698122</td>
</tr>
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<td>Sr. No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>---------</td>
<td>-------------</td>
<td>------</td>
<td>-----</td>
<td>-------</td>
<td>---------</td>
</tr>
<tr>
<td>1</td>
<td>Providing all materials, labour, T&amp;P for fitting and fixing white glazed vitreous china floor mounted water closet (European pattern) 'P' or 'S' type of approved make, As per IS-2556 with ISI mark, including supply of suitable PVC wall plug and Brass screws etc. all complete including cost of PVC seat cover (solid) with hinges &amp; rubber buffers etc all complete including cost, taxes and conveyance as per specification all complete as per direction of Engineer-in-charge. Make (No.C0297(S)Trap+C0278(P)Trap(Elite)Hindware</td>
<td>SET</td>
<td>1</td>
<td>3455.5</td>
<td>3455.5</td>
</tr>
<tr>
<td>2</td>
<td>Providing all materials, labour, and T&amp;P for fitting and fixing of 10 liter capacity PVC low level cistern complete with all internal fittings of approved make as per IS-7231 with ISI mark and Providing of necessary PVC wall plug, screws and 15mm dia PVC connection pipe with union at both end, including testing etc. all complete as per specification &amp; direction of Engineer-in-charge. Make: HINDWARE/CERA/PARRYWARE</td>
<td>No</td>
<td>1</td>
<td>1460.9</td>
<td>1460.9</td>
</tr>
<tr>
<td>3</td>
<td>Supply all materials and labour for fitting and fixing of 550x400mm white glazed vitreous china wash hand basin of approved make with supply &amp; fixing of 32mm CP waste, 15mm dia PVC water connection pipe, basin bolts &amp; Nuts of approved quality including cutting the walls &amp; floor and making good the damages with cement concrete (1:2:4) etc. with all taxes, duties, transportation etc. all complete as per direction of EIC. (Make (No.C0460 Basin(550x400m)Popular(Hindware)</td>
<td>SET</td>
<td>2</td>
<td>3770.2</td>
<td>7540.4</td>
</tr>
<tr>
<td>4</td>
<td>Supplying all materials and labour, T&amp;P for fitting and fixing of 590mm x 390mmx 375mm white glazed vitreous china Half stall front standing urinal basin as per IS-2556 with ISI mark along with supply &amp; fixing of necessary component parts like pair of C.I./M.S. bracket including all taxes, duties, transportation etc. with all complete fittings as per specification &amp; direction of the Engineer-in-charge. (Make No.C0575+C8095(White)Hindware.</td>
<td>SET</td>
<td>2</td>
<td>4704.1</td>
<td>9408.2</td>
</tr>
<tr>
<td>5</td>
<td>Providing all materials, labour, T&amp;P for fitting and fixing of 20mm thick white marble partition for urinal of following sizes including cutting, edge moulding, both side polishing including fixing on the wall after groove cutting &amp; making good the damages. The cost inclusive of all taxes, transportation etc. all complete as per specification &amp; direction of Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Marble partition Size-2x0.90x0.75=1.35 Sqm</td>
<td>Sqm</td>
<td>1.35</td>
<td>2570.7</td>
<td>3470.445</td>
</tr>
<tr>
<td>6</td>
<td>Providing all materials, labour, T&amp;P for fixing of 600x450mm bevelled edge mirror of 5mm thick mounted on 4mm thick A C back sheet &amp; CP cup screw with PVC wall plugs including cost, conveyance, taxes of all materials complete as per specification and direction of E.I.C.</td>
<td>NO</td>
<td>2</td>
<td>654.4</td>
<td>1308.8</td>
</tr>
<tr>
<td>7</td>
<td>Supplying all materials, labour, T&amp;P and fixing standard sized CP towel rail complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge</td>
<td>NO</td>
<td>1</td>
<td>955.4</td>
<td>955.4</td>
</tr>
</tbody>
</table>
**Name of Work**: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T.  
**At**: SAKHIGOPAL, RMC, Odisha

### ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
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<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Supplying all materials, labour, T&amp;P and fixing standard sized glass-shelf with CP brass brackets and guard rails complete fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge</td>
<td>NO</td>
<td>1</td>
<td>569.9</td>
<td>569.9</td>
</tr>
<tr>
<td>9</td>
<td>Providing and fixing 15mm dia CP bib cock long body (Jaquar make)</td>
<td>NO</td>
<td>1</td>
<td>1179.4</td>
<td>1179.4</td>
</tr>
<tr>
<td>10</td>
<td>Providing and fixing 15mm dia CP angular stop cock (Jaquar make)</td>
<td>NO</td>
<td>5</td>
<td>840.3</td>
<td>4201.5</td>
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<tr>
<td>11</td>
<td>Providing and fixing Health Faucet with 1m long PVC tube &amp; wall hook (Jaquar make)</td>
<td>NO</td>
<td>1</td>
<td>1742.3</td>
<td>1742.3</td>
</tr>
<tr>
<td>12</td>
<td>Providing and fixing 15mm dia CP two way bib cock (Jaquar make)</td>
<td>NO</td>
<td>1</td>
<td>1179.4</td>
<td>1179.4</td>
</tr>
<tr>
<td>13</td>
<td>Providing and fixing 15mm dia pillar cock (Jaquar make)</td>
<td>NO</td>
<td>2</td>
<td>871.2</td>
<td>1742.4</td>
</tr>
<tr>
<td>14</td>
<td>Providing and fixing Robe Hook (Jaquar make)</td>
<td>NO</td>
<td>1</td>
<td>348.5</td>
<td>348.5</td>
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<tr>
<td>15</td>
<td>Providing and fixing soap case (Jaquar make)</td>
<td>NO</td>
<td>2</td>
<td>1016.3</td>
<td>2032.6</td>
</tr>
<tr>
<td>16</td>
<td>Providing and fixing 32mm CP Bottle Trap (Jaquar make)</td>
<td>NO</td>
<td>4</td>
<td>1451.9</td>
<td>5807.6</td>
</tr>
<tr>
<td>17</td>
<td>Supplying all materials, labour &amp; fitting and fixing 125mm dia stainless steel gratting on top of floor traps with white cement all complete in all floors, as per technical specification and direction of Engineer-in-charge.</td>
<td>NO</td>
<td>4</td>
<td>83.8</td>
<td>335.2</td>
</tr>
<tr>
<td>18</td>
<td>Providing all materials, labour, T&amp;P for laying of following nominal dia UPVC pipes as per IS-4985 with ISI mark including fixing of required size UPVC fittings like, bend, Tee, elbow, offsets, etc. and the same fixed on wall or floor with holder bat clamps screw etc. including testing the joints with required water pressure. The cost inclusive of all taxes, duties, transportation scaffolding etc. as per specification and direction of Engineer-in-charge. Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Providing and fixing on wall face unplasticised Rigid PVC soil, waste water pipes conforming to IS:13592 Type-B, including jointing with seal-ring conforming to IS:5382, Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>40mm dia</td>
<td>RM</td>
<td>25</td>
<td>362.2</td>
<td>9055</td>
</tr>
<tr>
<td>b.</td>
<td>50mm dia</td>
<td>RM</td>
<td>20</td>
<td>420.7</td>
<td>8414</td>
</tr>
<tr>
<td>20</td>
<td>Providing and fixing on wall face unplasticised Rigid PVC for rain water pipes conforming to IS:13592 Type-A, including jointing with seal-ring conforming to IS:5382, Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>110mm dia</td>
<td>RM</td>
<td>50</td>
<td>330.9</td>
<td>16545</td>
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<tr>
<td>b.</td>
<td>160mm dia</td>
<td>RM</td>
<td>100</td>
<td>717.3</td>
<td>71730</td>
</tr>
<tr>
<td>21</td>
<td>Supplying all materials, labour, T&amp;P, fitting and fixing of following dia UPVC SWR fittings of approved make confirming to IS-14735 with all taxes, duties, transportation &amp; requisite testing as per specification &amp; direction of Engineer-in-charge. Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>110mm x110mm P trap</td>
<td>NO</td>
<td>3</td>
<td>273.8</td>
<td>821.4</td>
</tr>
<tr>
<td>b.</td>
<td>110mm WC Connector/ Bend with lip ring</td>
<td>NO</td>
<td>1</td>
<td>228</td>
<td>228</td>
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<tr>
<td>c.</td>
<td>110mm dia Plain Bend 87.5 deg</td>
<td>NO</td>
<td>2</td>
<td>100.2</td>
<td>200.4</td>
</tr>
<tr>
<td>d.</td>
<td>160mm dia Plain Bend 87.5 deg</td>
<td>NO</td>
<td>2</td>
<td>312</td>
<td>624</td>
</tr>
<tr>
<td>e.</td>
<td>110mm dia Plain Bend 45 deg</td>
<td>NO</td>
<td>4</td>
<td>100.2</td>
<td>400.8</td>
</tr>
<tr>
<td>f.</td>
<td>160mm dia Plain Bend 45 deg</td>
<td>NO</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sign and stamp of EPIL

11

Sign and stamp of bidder
# Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T.
At SAKHIGOPAL, RMC, Odisha

## ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>Providing all materials, labour, T&amp;P for laying in trenches of following nominal dia UPVC pipes (Sch-80) as per IS-ASTMD-1785 with ISI mark including fixing of required size fittings like bend, Tee, elbow, offsets etc. &amp; testing the joints with required water pressure. The cost inclusive of all taxes, duties, transportation scaffolding etc. as per specification and direction of Engineer-in-charge. Make : Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td>metre</td>
<td>5</td>
<td>362.2</td>
<td>1811</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a 40mm Dia</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>b 50mm Dia</td>
<td></td>
<td>150</td>
<td>452.75</td>
<td>67912.5</td>
</tr>
<tr>
<td></td>
<td>Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes SDR-13.5 conforming to IS: 15778, having thermal stbility for hot &amp; cold water supply, including all CPVC plain &amp; brass threaded fittings including fixing the pipes with clamps at 1.00 m spacing. The includes jointing of pipes &amp; fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td>metre</td>
<td>20</td>
<td>186</td>
<td>3720</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a 25mm Dia</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>b 20mm Dia</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supplying all materials, labour, T&amp;P fitting and fixing of different size brass upvc ASTM-1785, sch-80 ball valve Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td>No</td>
<td>1</td>
<td>336.7</td>
<td>336.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a 25mm dia ball valve</td>
<td>No</td>
<td>6</td>
<td>1260</td>
<td>7560</td>
</tr>
<tr>
<td></td>
<td>b 50 mm dia ball Valve</td>
<td>No</td>
<td>6</td>
<td>909</td>
<td>5454</td>
</tr>
<tr>
<td></td>
<td>Supplying and fixing in position approved make bronze vertical non return valve(screwed) of approved make to IS: 778,</td>
<td>No</td>
<td>6</td>
<td>909</td>
<td>5454</td>
</tr>
<tr>
<td></td>
<td>Make : Zoloto/leader/shakti</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fixing Rotational moulded polyethylene cylindrical vertical water storage tanks conforming to IS:12701--1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc, including hoisting up to a height of 5 metres above ground level and placing the tank to the required position and construction of required staggering etc all complete as per specification and direction of the Engineer in charge</td>
<td>No</td>
<td>4</td>
<td>28973.2</td>
<td>115892.8</td>
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<td></td>
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<tr>
<td></td>
<td>a 2000 litre capacity Double Layer Cylindrical Vertical water storage tanks</td>
<td>No</td>
<td>8</td>
<td>133.4</td>
<td>1067.2</td>
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<tr>
<td></td>
<td>27 Cutting holes for taking 100mm dia PVC pipes through 250mm thick wall</td>
<td>No</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>28 Supplying all materials, joining materials, labour and T &amp; P and laying UPVC Foam core pipe as per IS:16098 sn-4 for underground rain water pipe and sewer Make : ASTRAL/ASHIRVAD</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a 110mm Nominal Dia pipe</td>
<td>metre</td>
<td>35</td>
<td>369.7</td>
<td>12939.5</td>
</tr>
<tr>
<td></td>
<td>b 160mm Nominal Dia pipe</td>
<td>metre</td>
<td>40</td>
<td>739.2</td>
<td>29568</td>
</tr>
<tr>
<td></td>
<td>c 200 mm Nominal Dia pipe</td>
<td>metre</td>
<td>13</td>
<td>956.4</td>
<td>12433.2</td>
</tr>
<tr>
<td></td>
<td>Providing and laying in trench cement concrete (1:3:6) with 40mm size hard granite metal in the following type of bedding for upvc pipes of the following internal diameter including curing complete as per specification</td>
<td>metre</td>
<td>35</td>
<td>560.6</td>
<td>19621</td>
</tr>
<tr>
<td></td>
<td>a 110mm Nominal Dia pipe</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>b 160mm Nominal Dia pipe</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>c 200 mm Nominal Dia pipe</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Sr.No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
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<tr>
<td>30</td>
<td>Supplying all materials, labour, T&amp;P and constructing gully trap chamber of the following inside size with 8cm thick R.C.C precast cover slab in cement concrete (1:2:4) mix using 12mm size h.g chips, foundation concrete (1:4:8) using 40mm size hard granite metal on bed and around trap, K.B brickwork in c.m (1:6) in F&amp;P and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mmx100mm size HCl gully trap, 150mmx150mm size C.I grating etc all complete as per approved drawing, specification and direction of the Engineer in charge-Gully trap chamber of size 250mmx250mm with R.C.C cover slab</td>
<td>No</td>
<td>1</td>
<td>1253.7</td>
<td>1253.7</td>
</tr>
<tr>
<td>31</td>
<td>Supplying all materials, labour, T&amp;P and constructing man hole chamber of the following size with cement concrete (1:3:6) using 40mm size hard granite metal on bed, 1st class K.B brickwork in cement mortar (1:6), moulding and shaping the channel inside and benching with cement concrete (1:2:4) using 12mm size h.g chips, 12mm thick cement plastering (1:3) with punning to inside, cement flush pointing (1:3) to outside, R.C.C cover slab in (1:2:4) using 12mm size h.g chips with RCC man hole cover, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge</td>
<td>No</td>
<td>10</td>
<td>137731</td>
<td>137731</td>
</tr>
<tr>
<td>32</td>
<td>Supplying all materials, labour, T&amp;P and constructing soakway pit of the following size with precast RCC rings joined loose, gravel backing in the rear of well steining, precast RCC cover slab in cement concrete (1:2:4) using 12mm size h.g chips fitted with iron lifting handles including cutting hole in the rings for inlet pipe, earthwork in open well excavation in all kinds of soil and refilling of cavity around the pit &amp; painting the iron works, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge -RCC rings soakway pit 1.22m dia x 2.10m deep</td>
<td>No</td>
<td>2</td>
<td>12873.4</td>
<td>25746.8</td>
</tr>
<tr>
<td>33</td>
<td>Supplying, installing, testing and commissioning of Non clog self priming centrifugal pump - electric motor. The pump shall have cast iron delivery casting, cast iron impeller SS Shaft. Pump shall be provided with mechanical seal (gland packing). The pump shall be suitable for auto/ manual operation all complete, including cost, convenance, taxes, T &amp; P etc complete as per direction of Engineer-in-charge.</td>
<td>No</td>
<td>2</td>
<td>10000</td>
<td>20000</td>
</tr>
<tr>
<td></td>
<td>WATER TRANSFER PUMP FROM DOMESTIC WATER TANK UGR TO OVER HEAD TANK</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Flow rate= 185 lit/min each pump</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td>Head= 15 mtr</td>
<td></td>
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<tr>
<td></td>
<td>Single- phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Motor HP=1</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
**ABSTRACT FOR PLUMBING & SANITARY WORK**

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>34</td>
<td>Providing, fitting &amp; fixing pvc rung 200 mm X 300mm Step Iron (inside u.g.r.) etc. all complete as per direction of Engineer-in-charge.</td>
<td></td>
<td>20</td>
<td>179.7</td>
<td>3594</td>
</tr>
<tr>
<td>35</td>
<td>supplying fixing GI half round rain water gutter under the sloped roofs including providing necessary nuts and bolts, protection bar etc., complete as per the direction of the Engineer-in-charges.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>200 mm dia half round gutter</td>
<td>rm</td>
<td>115</td>
<td>1100</td>
<td>126500</td>
</tr>
<tr>
<td>b</td>
<td>150 mm dia half round gutter</td>
<td>rm</td>
<td>115</td>
<td>900</td>
<td>103500</td>
</tr>
<tr>
<td>36</td>
<td>Labour for drilling a perfectly bore hole for specified dia for specified depth below G.L through consolidated and unconsolidated rocks with fast drilling sophisticated DTH/combination rig to suit the site condition as per the direction of the Engineer-in-charge including use of own Rigs with its accessories, T&amp;P consumables etc., for lowering of 200mm dia GI/PVC pipe for housing fitted with socket and with or without well screen as per necessity for soft, medium, hard &amp; boulder formation (GI/PVC/MS casing pipe if required to prevent collapse of over burden is to be provided by the contractor including lowering and withdrawing after completion of Tube well) 200mm dia to 400mm dia in overburden portion including packing of gravel supplied by the contractor for 400mm dia bore only.</td>
<td></td>
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</tr>
<tr>
<td>a) 200 mm dia</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1) 0 Mtr to 80 Mtr</td>
<td></td>
<td>Each</td>
<td>Mtr</td>
<td>80</td>
<td>657</td>
</tr>
<tr>
<td>37</td>
<td>Lowering the following size of GI/PVC/MS housing pipe with or without slotted pipes as per the necessity from ground level up to 45mtr depth fitted and fixed up in perfectly vertical position including cutting &amp; threading of pipes &amp; slotted pipes &amp; supplying &amp; fixing all jointing materials, tools &amp; plant etc. all complete &amp; keeping the top of casing pipe threaded including plugging tube-wells to prevent entry of foreign materials and keeping the casing pipe 1.00mtr above GL.</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>a) 200 mm dia</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 Mtr to 80 Mtr</td>
<td></td>
<td>Each</td>
<td>Mtr</td>
<td>40</td>
<td>1659.45</td>
</tr>
<tr>
<td>38</td>
<td>Cleaning and developing the tube well with their own compressor continuously worked till clear and adequate discharge is obtained from the tube well including supply and use of all necessary equipment and labour as per direction of Engineer-in-charge.</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

| 39     | Providing, fitting and fixing and laying of HDPE pipe with supply of all materials all complete as per PH specification & direction of Engineer-in-charge (MAKE:ORIPLAST) | Each No | 1 | 4919 | 4919 |
| a      | a) 50mm dia HDPE pipe (working pressure 0.8MPA)                                                        | Each Mtr | 70 | 210  | 14700  |
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At SAKHIGOPAL, RMC, Odisha

ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>Supplying fitting, fixing of 3.00 HP submersible pump TEXMO Make (Item code no. TDF255 type : TRF 908 HS +SF007R) including cost of all materials, transportation and taxes of pump etc. complete as per PH specification &amp; direction of Engineer-in-charge.</td>
<td>Each Set</td>
<td>1</td>
<td>19000</td>
<td>19000</td>
</tr>
<tr>
<td>41</td>
<td>Supplying all materials, labour, T&amp;P for fitting and fixing of required control panel including DOL starter with indicator 32 Amp TPN main switch including connection, installation etc. all complete as per specification &amp; direction of Engineer-in-charge. (Model no : BEI-SSD2045*32 relay range 13-18 )make TC</td>
<td>Each Set</td>
<td>1</td>
<td>5050</td>
<td>5050</td>
</tr>
<tr>
<td>42</td>
<td>Supplying, fitting and fixing of 3 core flat industrial cable for submission conforming to IS 694 Flexible 1100V. To IS 694. including all cost of material, labour, T&amp;P etc all complete. (Make: Finlox.)</td>
<td>Each Mtr</td>
<td>90</td>
<td>106</td>
<td>9540</td>
</tr>
<tr>
<td>43</td>
<td>Supplying, fixing of S.S tapper 2nos of 0.45mtr long M.S supporting clamps with M.S nuts &amp; bolt and 200mm tube well cover &amp; cap suitable for the above pump sets.</td>
<td>Each Set</td>
<td>1</td>
<td>2000</td>
<td>2000</td>
</tr>
<tr>
<td></td>
<td>Rain water Harvesting. Structure -2 nos</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>Sinking of tube well through D.T.H.Rig.</td>
<td>Mtr.</td>
<td>50</td>
<td>657</td>
<td>32850</td>
</tr>
<tr>
<td>45</td>
<td>Lowering of PVC casing pipe inside bore.</td>
<td>Mtr.</td>
<td>50</td>
<td>136</td>
<td>6800</td>
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<tr>
<td>46</td>
<td>Cost of 200mm dia (Sch.80) Pipe</td>
<td>Mtr.</td>
<td>50</td>
<td>1523.45</td>
<td>76172.5</td>
</tr>
<tr>
<td>47</td>
<td>Cutting slot in casing pipe for recharge of rain water</td>
<td>Mtr.</td>
<td>50</td>
<td>353.5</td>
<td>17675</td>
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<tr>
<td>48</td>
<td>Labour for packing gravel outside the tube well</td>
<td>Cum</td>
<td>4.7</td>
<td>110.1</td>
<td>517.47</td>
</tr>
<tr>
<td>49</td>
<td>Cost of washed gravel</td>
<td>Cum</td>
<td>4.7</td>
<td>1612.4</td>
<td>7578.28</td>
</tr>
<tr>
<td>50</td>
<td>Earth work in all kinds of soil within 50 mtr initial lead and 1.5mtr initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3 mtr in depth and as per direction of the Engineer in charge.</td>
<td>Cum</td>
<td>133.38</td>
<td>129.7</td>
<td>17299.386</td>
</tr>
<tr>
<td>51</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:4:8) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>L.wall-2x2x7.80x0.40x0.10=1.25</td>
<td>1.25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>S.Wall-2x2x2.35x0.40x0.10=0.38</td>
<td>S.Wall-2x2x2.35x0.40x0.10=0.38</td>
<td>0.38</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Base-2x1x2.35x1.15x0.10=0.54</td>
<td>Base-2x1x2.35x1.15x0.10=0.54</td>
<td>0.54</td>
<td></td>
<td></td>
</tr>
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<td></td>
<td></td>
<td>Cum</td>
<td>2.16</td>
<td>3886.1</td>
<td>8393.976</td>
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<tr>
<td>52</td>
<td>Supplying all materials, labour, T&amp;P and providing brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:6) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>L.Wall-2x2x7.65x0.25x2.0m=15.30</td>
<td>15.3</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>S.Wall-2x3x2.50x0.25x2.0m=7.5</td>
<td>S.Wall-2x3x2.50x0.25x2.0m=7.5</td>
<td>7.5</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Cum</td>
<td>22.8</td>
<td>3940</td>
<td>89832</td>
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**Name of Work :** Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T.  
**At SAKHIGOPAL, RMC, Odisha**

### ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
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<th>Amount</th>
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</thead>
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<tr>
<td>53</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
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<tr>
<td>Inside-2x2(7.15+2.50)x2.0m=77.20</td>
<td>Sqm</td>
<td>77.2</td>
<td>20</td>
<td>97.2</td>
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</tr>
<tr>
<td>2x2x2.50x2.0m=20.00</td>
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<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Outside-2x2(7.65+3.0)x2.0m=85.20</td>
<td>Sqm</td>
<td>85.2</td>
<td>20</td>
<td>182.4</td>
<td></td>
</tr>
<tr>
<td>Inside-2x2(7.15+2.50)x2.0m=77.20</td>
<td>Sqm</td>
<td>77.2</td>
<td>20</td>
<td>97.2</td>
<td></td>
</tr>
<tr>
<td>2x2x2.50x2.0m=20.00</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>54</td>
<td>Supplying all materials, labour, T&amp;P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inside-2x2(7.15+2.50)x2.0m=77.20</td>
<td>Sqm</td>
<td>77.2</td>
<td>20</td>
<td>97.2</td>
<td></td>
</tr>
<tr>
<td>2x2x2.50x2.0m=20.00</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>55</td>
<td>Supplying all materials, labour, T&amp;P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Roof slab-2x1x0.90x2.50=4.50</td>
<td>4.5</td>
<td>20</td>
<td>1.76</td>
<td>6.26</td>
<td></td>
</tr>
<tr>
<td>2x(1.40+3.00)x0.10=1.76</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>56</td>
<td>Supplying all materials, labour, T&amp;P and providing reinforced cement concrete work of M-25 grade with 20mm and down grade black hard granite crusher broken stone chips including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2x1x1.40x3.00x0.10=0.42</td>
<td>Cum</td>
<td>0.84</td>
<td>5502.7</td>
<td>4622.268</td>
<td></td>
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<tr>
<td>57</td>
<td>Supplying all materials, labour, T&amp;P and providing M.S reinforcement for R.C.C work including cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>58</td>
<td>Providing and filling filter media</td>
<td>Qntl.</td>
<td>6</td>
<td>6100</td>
<td>36600</td>
</tr>
<tr>
<td>59</td>
<td>Providing fitting and fixing M.S.grill,Jalli cover over the harvesty pindi</td>
<td>Qntl.</td>
<td>0.68</td>
<td>6023</td>
<td>4095.64</td>
</tr>
<tr>
<td>60</td>
<td>Earth work in all kinds of soil within 50 mtr initial lead and 1.5mtr initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3 mtr in depth and as per direction of the Engineer in charge</td>
<td>Cum</td>
<td>4.54</td>
<td>129.7</td>
<td>588.838</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>---------</td>
<td>-------------</td>
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<td>--------</td>
</tr>
<tr>
<td>61</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12mm size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>2.54</td>
<td>5584.4</td>
<td>14184.376</td>
</tr>
<tr>
<td>62</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:3:6) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>3.56</td>
<td>4287.6</td>
<td>15263.856</td>
</tr>
<tr>
<td>63</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) with punning on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>sqm</td>
<td>59.5</td>
<td>123.9</td>
<td>7372.05</td>
</tr>
<tr>
<td>64</td>
<td>Supplying all materials, labour, T&amp;P and providing 1st class K.B. Brick work in C.M (1:4) in foundation and plinth including watering, curing, conveyance of all materials to site.</td>
<td>Cum</td>
<td>8.56</td>
<td>4552.5</td>
<td>38969.4</td>
</tr>
<tr>
<td>65</td>
<td>Earth work in excavation of foundation in all kinds of soil within 50m initial lead and 1.5m initial lift including rough dressing &amp; breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-in-Charge.</td>
<td>Cum</td>
<td>10.31</td>
<td>129.7</td>
<td>1337.207</td>
</tr>
<tr>
<td>66</td>
<td>Extra lifts of 1.50 mtr or part thereof over the initial lift of 1.5 mtr in all kinds of embankments and road works and ordinary earthwork in general.</td>
<td>Cum</td>
<td>4.33</td>
<td>139.2</td>
<td>602.736</td>
</tr>
<tr>
<td>67</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12m size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>0.55</td>
<td>4287.6</td>
<td>2358.18</td>
</tr>
<tr>
<td>68</td>
<td>Supplying all materials, labour, T&amp;P and providing brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:4) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>1.31</td>
<td>5584.4</td>
<td>7315.564</td>
</tr>
<tr>
<td>Sr.No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>-------</td>
<td>----------------------------------------------------------------------------</td>
<td>------</td>
<td>-----</td>
<td>--------</td>
<td>---------</td>
</tr>
<tr>
<td>69</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>cum</td>
<td>4.82</td>
<td>4552.5</td>
<td>21943.05</td>
</tr>
<tr>
<td>70</td>
<td>Supplying all materials, labour, T&amp;P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>sqm</td>
<td>32.94</td>
<td>115.7</td>
<td>3811.158</td>
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<tr>
<td>71</td>
<td>Supplying all materials, labour, T&amp;P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>sqm</td>
<td>13.22</td>
<td>23.1</td>
<td>305.382</td>
</tr>
<tr>
<td>72</td>
<td>Supplying all materials, labour, T&amp;P and providing M.S reinforcement for R.C.C work including cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>sqm</td>
<td>3.43</td>
<td>353.7</td>
<td>1213.191</td>
</tr>
<tr>
<td>73</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12mm size hard broken granite chips for R.C.C works including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Qntl</td>
<td>0.38</td>
<td>5226</td>
<td>1985.88</td>
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<tr>
<td>74</td>
<td>Supplying all materials, labour, T&amp;P and providing, fitting and fixing 100mm x 100mm x 100mm SW Tee in wall including filling the recess with cement concrete (1:3:6) with 12mm size h.g chips all complete including watering, curing, conveyance of all materials to worksite, payment of royalty all complete as per specification and direction of the Engineer in charge</td>
<td>Each</td>
<td>2</td>
<td>321.9</td>
<td>643.8</td>
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</table>
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T.
At SAKHIGOPAL, RMC, Odisha

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>75</td>
<td>Supplying all materials, labour, T&amp;P and making MS step iron in 20mm diameter MS steel bars and fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge.</td>
<td>Each</td>
<td>5</td>
<td>181.3</td>
<td>906.5</td>
</tr>
<tr>
<td>76</td>
<td>Filling in foundation and plinth with excavated materials, moorum including watering and ramming as directed by the Engineer in charge</td>
<td>cum</td>
<td>3.45</td>
<td>72</td>
<td>248.4</td>
</tr>
<tr>
<td></td>
<td>2(3.29m+1.89m)0.10mx0.70m=0.73</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(3.29m+1.63m)x0.23mx1.20m=2.72</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>1616923.63</td>
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</table>

ABSTRACT FOR PLUMBING & SANITARY WORK
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Providing Poly Urethane composite sandwich Ceiling panels 100mm thk. for Ceiling with 0.50mm BMT pre painted Galvalume PPGL sheet on both side , with tongue and groove joints, PUF(Poly Urethene foam) shall be of density 40Kg/Cu.mt. +2%, The panels shall be CFC Free certified, complete with erection and commissioning as walk in cooler ceiling with supporting -T and flashings and fixtures, silicon, PUF chemical sealant complete item</td>
<td>Sq. Mtrs.</td>
<td>1168.54</td>
<td>2247</td>
<td>2625709.38</td>
</tr>
<tr>
<td>2</td>
<td>Providing EPS thermocole insulation for floor in two layers of 50+75mm each that is 125 mm complete.as per specification of material and workmanship, first of all apply bitumin primer over the cleaned surface, then fix polyethylent sheet of 500 micron, over which fix one layer of thermocole using bitumin 85x25, seal the joints, then apply bitumin, again fix second layer , again seal the joints with bitumin, complete item.</td>
<td>Sq. Mtrs.</td>
<td>1168.54</td>
<td>1498</td>
<td>1750472.92</td>
</tr>
<tr>
<td>3</td>
<td>Providing Poly Urethane composite sandwich panel 100 mm thk. for Outer Wall with 0.50mm BMT pre painted Galvalume PPGL sheet on chamber side face and 0.25mm thk PPGI(Pre painted Glvanised, as per specification of material and workmanship)iron sheet on wallside face, with tongue and groove joint, PUF(Poly Urethene foam) shall be of density 40Kg/Cu.mt. +2%, The panels shall be CFC Free certified., including erection and commissioning as walk in cooler walls with flashings, fixtures,silicon sealant, PUF chemical complete item.</td>
<td>Sq. Mtrs.</td>
<td>1980.51</td>
<td>2140</td>
<td>4238291.4</td>
</tr>
<tr>
<td>4</td>
<td>Providing Poly Urethane composite sandwich panel for Partition wall, 100 mm thk. with 0.50mm BMT both sides pre painted Galvalume PPGL sheet on chamber side face and 0.25mm thk PPGI(Pre painted Glvanised, as per specification of material and workmanship)iron sheet on wallside face, with tongue and groove joint, PUF(Poly Urethene foam) shall be of density 40Kg/Cu.mt. +2%, The panels shall be CFC Free certified., including erection and commissioning as walk in cooler partition wall with fixtures and flashings using silicon sealant and PUF chemical complete item.</td>
<td>Sq. Mtrs.</td>
<td>381.48</td>
<td>2140</td>
<td>816367.2</td>
</tr>
<tr>
<td>5</td>
<td>Providing and fixing Single leaf manual hinge hatch door/windows 100mm thk PU insulation with 0.6mm thk. Coated steel finish. W=1200mm, H=2100mm, as per specification of material and workmanship</td>
<td>Nos.</td>
<td>19</td>
<td>48150</td>
<td>914850</td>
</tr>
<tr>
<td></td>
<td>Doors</td>
<td>Nos.</td>
<td>8</td>
<td>37450</td>
<td>299600</td>
</tr>
<tr>
<td></td>
<td>Windows</td>
<td>Nos.</td>
<td>19</td>
<td>1500</td>
<td>28500</td>
</tr>
<tr>
<td>6</td>
<td>Providing Suction pipeline insulation with 50/75mm pipe of EPS in throught suction line in machine room,Low pressure receiver and chamber complete Top should be cladled with Aluminius sheet complete.</td>
<td>Lumpsum</td>
<td>695500</td>
<td>695500</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Strip Curtain 150 mm wide for 2X1 M door opening,3 mm thick</td>
<td>Nos.</td>
<td>19</td>
<td>1500</td>
<td>28500</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
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<td></td>
<td><strong>11369291</strong></td>
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<tr>
<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>--------</td>
<td>----------------------</td>
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<td>------</td>
<td>------</td>
<td>--------</td>
</tr>
<tr>
<td>1</td>
<td>SITC of Electric control Panel having all electrical controls with MCCBs incoming main and earth fault relay, HRC fuses, one CT operated ammeter 0-800 amps and one volt meter 0-800 volts etc. complete unit to run above plant. Specification mention as below</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>INCOMER- Main MCCB of any standard make, Control and Switchgear etc of Capacity, 630A 01 No., Change over Switch, 01 No. METERING-indicating lamp R/Y/B 230V 03 No., control fuse with HRC link 02A, APFC relay 12 stage make 01 No., Multifunctional Meter 0-800A 01 No., CT800/5Amp/ class 1 800/5A 04 No.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>OUTGOING- a) 75HP ATS starters Qty 03 Nos. (300A SFU with HRC link 300A 03 No.)</td>
<td>Mtrs</td>
<td>100</td>
<td>2015</td>
<td>201500</td>
</tr>
<tr>
<td></td>
<td>b) 5HP DOL starter for pump with standby- 20A MCB TP 10KA, 18A 3P Contractor 09 No., Thermal over load relay 6-10A 03 No., 5HP VFD 02 No. indicating lamp ON/OFF/TRIP 04 No., Start stop push button 230V 04 No., Auto manual selector switch 02 No., c) 5HP DOL Starter for Water Pump and Lift motor-20A MCB TP 10KA, 20A 02 No., Control MCB 6Amp SP, 6A, 02 No., 18A 3P Contactor 02 No., Thermal over load relay 6-10A 02 No. indicating lamp ON/OFF/TRIP, 06 Nos., Auto Manual Selector switch 02 Nos., Start/Stop Push Button 230V 04 Nos.</td>
<td>Mtrs</td>
<td>50</td>
<td>758</td>
<td>37900</td>
</tr>
<tr>
<td>3</td>
<td>E) 80 KVAR APFC Section- 20 Amp TP MCB 10KA C-curve, 20A 01 No., Capacitor duty contactor 12.5KVAR, 12KVAR, 01 Nos., SKVAR heavy duty capacitor, 5KVAR, 01 Nos., Auto Manual Selector switch 02 Nos., Start/Stop Push Button 230V 02 Nos.</td>
<td>Mtrs</td>
<td>50</td>
<td>625</td>
<td>31250</td>
</tr>
<tr>
<td>4</td>
<td>Supply of Cable, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 KV grade 3.5 CORE 185 Sqmm Al.CONDUCTOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm,50mm and 80mm as required and Brick where necessary) ,refilling the trench etc. as required.</td>
<td>Mtrs</td>
<td>200</td>
<td>424</td>
<td>84800</td>
</tr>
<tr>
<td>5</td>
<td>SUPPLY OF CABLE</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>6</td>
<td>GENERAL LIGHT/POWER WIRING</td>
<td></td>
<td></td>
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</table>
**Name of Work**: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At SAKHIGOPAL, RMC, Odisha

<table>
<thead>
<tr>
<th>S. No.</th>
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<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Wiring of light points/fan points (6A/5A) with junction boxes, MS covers etc. All materials i.e. switches / sockets / MS boxes / hardwares and wires etc. shall be of approved make and shall be supplied/installed under scope of work for concealed flush type arrangement. The earthwire PVC insulated 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade is to be supplied/installed as per drawing and specifications. Complete work has to be executed strictly as per drawing Point wiring covers all work scope from switch board to points.</td>
<td>Nos</td>
<td>405</td>
<td>1134</td>
<td>459270</td>
</tr>
<tr>
<td>7</td>
<td>Wiring of two way control point with with 2 x 1.5 SQMM copper wire 660V / 1.1 KV copper cable 660V / 1.1 KV grade insulated wire (including supply of all material) including CPL buzzer board.</td>
<td>Nos</td>
<td>3</td>
<td>1112</td>
<td>3336</td>
</tr>
<tr>
<td>8</td>
<td>Wiring of bell/buzzer points with 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade insulated wire (including supply of all material) including CPL buzzer board.</td>
<td>Nos</td>
<td>18</td>
<td>2298</td>
<td>41364</td>
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<tr>
<td>9</td>
<td>Materials</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>Providing and fixing of BULKHEAD LED fittings of 40 watt each</td>
<td>Nos</td>
<td>325</td>
<td>2000</td>
<td>650000</td>
</tr>
<tr>
<td>ii)</td>
<td>Providing and fixing of LED Tube Light fittings of 40 watt each</td>
<td>Nos</td>
<td>40</td>
<td>1150</td>
<td>46000</td>
</tr>
<tr>
<td>iii)</td>
<td>Providing and fixing of 1400RPM Ceiling Fan</td>
<td>Nos</td>
<td>40</td>
<td>2350</td>
<td>94000</td>
</tr>
<tr>
<td>iv)</td>
<td>Providing and fixing 1x400W HPSV street light fittings with accessories like control switch, clamps, bend rod etc.</td>
<td>Nos</td>
<td>8</td>
<td>7400</td>
<td>59200</td>
</tr>
<tr>
<td>10</td>
<td>Preparing an earthing pit (Plate electrode) by using 600 x 600 x 3.15mm thk. GI plates at location shown in the drawing including supply laying and installation of all necessary material as earth electrodes, strips, wires, funnel, screen, watering pipes, brick chamber, CI frame with cover and to complete.</td>
<td>Nos</td>
<td>9</td>
<td>11500</td>
<td>103500</td>
</tr>
<tr>
<td>11</td>
<td>Supply, Installation, Testing &amp; Commissioning of following type Distribution board surface / flush mounted with Single Door MCB DBs. The DB shall have appropriate no. of top &amp; bottom knock outs for outgoing circuits &amp; shall be complete with necessary bus bars, interconnection terminals &amp; earth studs. All terminations in DB shall be complete with ferruling, dressing &amp; all circuits shall be properly labeled with PVC strip (sticker type) having identification as per the final approval of Consultant.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>2Way MCB DB</td>
<td>Nos</td>
<td>18</td>
<td>673</td>
<td>12114</td>
</tr>
<tr>
<td>ii)</td>
<td>8 Way Vertical TPN DB</td>
<td>Nos</td>
<td>3</td>
<td>9652</td>
<td>28956</td>
</tr>
<tr>
<td>12</td>
<td>Supply and fixing following type MCBs in existing MCB DBs including its incoming and outgoing connection with suitable size of PVC insulated, copper conductor flexible wire etc. as reqd.</td>
<td>Nos</td>
<td>18</td>
<td>953</td>
<td>17154</td>
</tr>
<tr>
<td>i)</td>
<td>32A 4 Pole MCB</td>
<td>Nos</td>
<td>60</td>
<td>850</td>
<td>51000</td>
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**Lightning Arrestor**

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<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>Supply, installation, testing and commissioning of High pulsar voltage OPR 30 Early streamer emission (ESE) Advance Lightning Protection system with 4 meter high Pulsar 30 having 65 meter protection radius IN LEVEL 2 complies with NFC-17-102 standards. The Air terminal should be capable to collect the ambient electric field and should emit the upward streamer with the defined Gain in time. The installation should be strictly followed as per manufacturer’s instructions. The system should include the following items complete in all respects.</td>
<td>Set</td>
</tr>
<tr>
<td></td>
<td>GI mast for mounting the terminal &amp; adaptor to mount the OPR 30 with suitable base plate, should have provision for Guy wire clamping system, termination arrangement for the Down- Conductor.</td>
<td>Set</td>
</tr>
<tr>
<td></td>
<td>Down conductor of 70 sq.mm single core insulated flexible Copper cable with necessary accessories, etc OR Copper strip of size 25 X 3mm down conductor of suitable length as per building height with suitable mounting accessories and mounted on Insulators.</td>
<td>Mtrs</td>
</tr>
<tr>
<td></td>
<td>Lightning Flash counter working electro mechanically without any power supply. Equipment should count lightning strokes of 0.4KA to 150 KA (8/20 micro second waveform) tested as per IEC 60-1:1989</td>
<td>Nos</td>
</tr>
</tbody>
</table>

Sign and stamp of EPIL 22  
Sign and stamp of bidder
<table>
<thead>
<tr>
<th>S. No.</th>
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<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>Supply, installation, testing &amp; commissioning of maintenance free chemical earth pit set consisting of 1.2M long 16 mm dia 250 Micron Cu-coated MS rod(2 nos) connected together with clamps along with 10 Kg of ground enhancing chemical GRIC compound (without use of charcoal, salt or another combine). It should be capable of reducing soil resistivity by at least 50%. The earth pit shall be covered with Polyplastic heavy duty cover.</td>
<td>Nos</td>
<td>3</td>
<td>9500</td>
<td>28500</td>
</tr>
<tr>
<td>15</td>
<td>Point wiring for 5 / 6 amp socket outlet with 2 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia MS conduit with piano type switch ,phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required.</td>
<td>Nos</td>
<td>15</td>
<td>1341</td>
<td>20115</td>
</tr>
<tr>
<td></td>
<td>Point wiring for 15 / 16 amp socket outlet with 2 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia MS conduit with piano type switch ,phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required.</td>
<td>Nos</td>
<td>10</td>
<td>1598</td>
<td>15980</td>
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<td><strong>Total</strong></td>
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<td>3729939</td>
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<td>SR. NO.</td>
<td>Item Description</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>--------</td>
<td>----------------------------------------------------------------------------------</td>
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<td>------</td>
<td>-------</td>
<td>---------</td>
</tr>
<tr>
<td>1</td>
<td>SITC of following dia MS Pipes (B Class) with necessary bends, hydrant stand,</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>isolation valves, flanges, landing valve, RRL Hose, Branch pipe, Hose box,</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>underground road crossing, colouring etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>150 mm</td>
<td>Rmt</td>
<td>35</td>
<td>3187.8</td>
<td>111573</td>
</tr>
<tr>
<td>ii)</td>
<td>100 mm</td>
<td>Rmt</td>
<td>180</td>
<td>2500</td>
<td>450000</td>
</tr>
<tr>
<td>2</td>
<td>SITC of flexible Fire Hoses (first aid hose) with with a wall mounted bracket,</td>
<td>Set</td>
<td>12</td>
<td>9000</td>
<td>108000</td>
</tr>
<tr>
<td></td>
<td>hose guide, jet nozzle and 30 metres hose.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Supply installation testing and commissioning of following pumps for fire</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>fighting system</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>1620 LPM (50 Mtrs Head, 40 HP) fire hydrant pump (with all attachments like NRV,</td>
<td>nos</td>
<td>1</td>
<td>200000</td>
<td>200000</td>
</tr>
<tr>
<td></td>
<td>Cut off valve, air caution vessel, Pressure gauge, Pressure switch all complete</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ii)</td>
<td>180 LPM jockey pump, 50 Mtrs head (3HP) Vertical type with (with all attachments</td>
<td>nos</td>
<td>1</td>
<td>65000</td>
<td>65000</td>
</tr>
<tr>
<td></td>
<td>like NRV, Cut off valve, Pressure gauge, Pressure switch all complete</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iii)</td>
<td>1620 LPM Diesel Engine driven hydrant pump, 40 HP , 50 Mtrs Head (with all</td>
<td>nos</td>
<td>1</td>
<td>350000</td>
<td>350000</td>
</tr>
<tr>
<td></td>
<td>attachments like NRV, Cut off valve, Pressure gauge, Pressure switch, fuel Tank,</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Base Plate, battery, all complete etc</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Fire Detection system</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a)</td>
<td>Supply installation of multi criteria detectors (smoke + heat)</td>
<td>Nos</td>
<td>100</td>
<td>3245</td>
<td>324500</td>
</tr>
<tr>
<td>b)</td>
<td>Supply installation of following addressable fire alarm panels</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>Repeater panels</td>
<td>Nos</td>
<td>3</td>
<td>85387.5</td>
<td>256162.5</td>
</tr>
<tr>
<td>ii)</td>
<td>Main fire alarm panel with MCP, Hooter, Isolater module.</td>
<td>Nos</td>
<td>1</td>
<td>250470</td>
<td>250470</td>
</tr>
<tr>
<td>c)</td>
<td>2 x 1.5 sq mm cu flexible cable in MS conduit for detector wiring</td>
<td>Rmt</td>
<td>700</td>
<td>160</td>
<td>112000</td>
</tr>
<tr>
<td>5</td>
<td>Co2 Fire extinguishers</td>
<td>Nos</td>
<td>8</td>
<td>7500</td>
<td>60000</td>
</tr>
<tr>
<td>6</td>
<td>DCP fire extinguishers</td>
<td>Nos</td>
<td>20</td>
<td>3500</td>
<td>70000</td>
</tr>
<tr>
<td>7</td>
<td>pump Control Panel for quoted main (1620 LPM), diesel (1620 LPM) &amp; jokey (180</td>
<td>Nos</td>
<td>1</td>
<td>300000</td>
<td>300000</td>
</tr>
<tr>
<td></td>
<td>LPM) fire pump auto operation with earthing &amp; pump wiring</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>Nos</td>
<td></td>
<td></td>
<td>2657706</td>
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</table>

**ABSTRACT FOR FIRE FIGHTING WORK**
**Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At SAKHIGOPAL, RMC, Odisha**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>PART 9</td>
<td>LIFT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Endless Chian &amp; Sprocket type open platform, motorised manually operated Bi directional bag lift</td>
<td>No</td>
<td>1</td>
<td>952300</td>
<td>952300</td>
</tr>
</tbody>
</table>

**ABSTRACT FOR LIFT WORK**

- Sign and stamp of EPIL
- Sign and stamp of bidder
### Name of Work :-Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At SAKHIGOPAL, RMC, Odisha

#### ABSTRACT FOR PLANT & MACHINERY WORK

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PART 5</strong> PLANT &amp; EQUIPMENT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Heavy duty high speed industrial type three cylinder vertical reciprocating ammonia refrigeration compressors Kirloskar KC-2/Frick/Superfreeze/Mycom or equivalent make with drive set, stop valve for suction and discharge with flanges and counter flanges, HP/LP OP cutouts, gauges, base frame, bolts, tool kit, gasket set and ferrule complete set with erection and commissioning, testing. Heavy duty high speed industrial type three cylinder vertical reciprocating ammonia refrigeration compressors Kirloskar KC-2/Frick/Superfreeze/Mycom or equivalent make with drive set, stop valve for suction and discharge with flanges and counter flanges, HP/LP OP cutouts, gauges, base frame, bolts, tool kit, gasket set and ferrule complete set with erection and commissioning, testing.</td>
<td>Nos.</td>
<td>3</td>
<td>499333.69</td>
<td>1498001.07</td>
</tr>
<tr>
<td>3</td>
<td>Providing Electric motor of Kirloskar / Crompton / GEC of 50 HP and 1440 RPM, Induction for operation on 440/400 volts, 50 cycles, 3 phase AC supply for driving the Compressors.</td>
<td>Nos.</td>
<td>3</td>
<td>178333.69</td>
<td>535001.07</td>
</tr>
<tr>
<td>4</td>
<td>Providing MEI / Kilbern / L &amp; T motor starter for above mentioned 50HP motor respectfully with ammeter of AE make and 2 overload relays and cable box including starter oil etc. complete. Providing Centrifugal mono block pumps(12M head, 12 LPS) for circulating water with TFC squirrel cage induction motor of 5.0 HP suitable for operation on 400/440 volts, 50 cycles, three phase AC supply and necessary inlet and outlet pipes and foot valves (Kirloskar model no. KDS515 / Crompton model No. MBP 52 / Texmo model No. TMH-6) one fitted stand by. Providing Centrifugal mono block pumps(12M head, 12 LPS) for circulating water with TFC squirrel cage induction motor of 5.0 HP suitable for operation on 400/440 volts, 50 cycles, three phase AC supply and necessary inlet and outlet pipes and foot valves (Kirloskar model no. KDS515 / Crompton model No. MBP 52 / Texmo model No. TMH-6) one fitted stand by.</td>
<td>Nos.</td>
<td>2</td>
<td>26750</td>
<td>53500</td>
</tr>
<tr>
<td>5</td>
<td>Providing Liquid ammonia receiver of 600mmx6.0 mt long fabricated with 14mm thk plates with inlet and outlet valves, gauge glass valves with gauge glass including MS stand complete.</td>
<td>Nos.</td>
<td>1</td>
<td>187250</td>
<td>187250</td>
</tr>
<tr>
<td>6</td>
<td>Providing Oil separator fabricated with 10mm thk. MS plate with size 1350x600mm complete with companion flange.</td>
<td>Nos.</td>
<td>1</td>
<td>26750</td>
<td>26750</td>
</tr>
<tr>
<td>7</td>
<td>Providing Atmospheric condenser 10 pipes high 16 Condensers made in TATA/JINDAL/PRAKASH SURYA MS 50mm thk Round Pipe with fabrication and erection with angle grame 65x65x6 with water ling in GI 50mm B Class Pipe of TATA/JINDAL/PRAKASH SURYA make with header of 150mm dia GI Pipe, all Complete item suitable for heat load of 550KW including sand blasting and ZINC spray galvanising 120GSM.</td>
<td>Nos.</td>
<td>16</td>
<td>59920</td>
<td>958720</td>
</tr>
<tr>
<td>8</td>
<td>Providing Air Cooling Units of alfa laval/ICL/starcooler and condensers/Frick or equivalent make, 03 Nos in each Chamber of refrigeration capacity 36KW each suitable for 0 deg C, Refrigerant ammonia evaporating(pump feed), air volume 48000 CMH, fans 3X710mm axial fan, 1440 RPM, motor 0.75KW(1HP) each, 415V/3ph/50Hz, Stainless steel tubes with plain aluminium fins, 4 fpi, case work GI white powder coated complete with erection and commissioning at top.</td>
<td>Sets</td>
<td>12</td>
<td>285333.69</td>
<td>3424004.28</td>
</tr>
<tr>
<td>9</td>
<td>Provision of First charge of ammonia and oil 68 No. freeze oil for initial temperature as required and maintained for one year.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>374500</td>
</tr>
<tr>
<td>10</td>
<td>Black and GI pipes of different sizes for the completion of water and gas lines and for inter connection of entire plant with suction discharge and liquid lines.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>535000</td>
</tr>
<tr>
<td>11</td>
<td>Sundry material such as gaskets, thread seals, packing sheets, nut bolts, water valves, flanges, V-belts and other required equipments complete as required for various plant and machinery for 5000 mt capacity.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>214000</td>
</tr>
<tr>
<td>12</td>
<td>Providing Energy Recovery wheel in each chamber of 1547Mt each, 02 nos, suitable for 04 air changes in a day. Danfoss/Manik/Any ISI make as per NHB norms and Standards.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>428000</td>
</tr>
<tr>
<td>13</td>
<td>Equipment for Co2 gas removal suitable for 02 chambers of 1547MT each to hold the co2 level 2000PPM as per NHB Norms and Standards.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>1391000</td>
</tr>
<tr>
<td>14</td>
<td>Providing Freon plant for Four chambers of 52 MT eachwith evooperators and condensing units complete with pipe line, pipeline insulation suitable for heat load of 28.15KW at peak load, complete with installation and commissioning with electrification.</td>
<td>Each</td>
<td>1</td>
<td>3638000</td>
<td>3638000</td>
</tr>
<tr>
<td>15</td>
<td>Load cell based Weight Monitoring system all complete with remot dispaly</td>
<td>Nos</td>
<td>6</td>
<td>50000</td>
<td>300000</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>13563726</strong></td>
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<tr>
<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
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<tr>
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<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
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<tr>
<td></td>
<td>Supply, installation &amp; commissioning of silent type 160 KVA, 415V, 50Hz, 1500 RPM, 0.8 Lagging p.f., D.G. Set with all accessories excluding AMF Panel with acoustic enclosure. Conforming to BS 5514, 649, IS 10000, capable of taking 10% overload for one hour after 12 hours of continuous operation including base frame, foundation platform, fuel tank, starting system, batteries etc. conforming to CPWD General specification for DG Sets and including Earthing. Complete in all respect.</td>
<td>No</td>
<td>1</td>
<td>875000</td>
<td>875000</td>
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<tr>
<td>PART</td>
<td>PARTICULARS</td>
<td>AMOUNT</td>
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<td></td>
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<tr>
<td>PART-1</td>
<td>Civil Work</td>
<td>Rs. 47183923</td>
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<td>PART-2</td>
<td>Civil Work (Steel Structural Work)</td>
<td>Rs. 30817107</td>
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<tr>
<td>PART-3</td>
<td>Plumbing &amp; Sanitary Works (P.H.)</td>
<td>Rs. 1616924</td>
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<td>PART-4</td>
<td>Insulation Work (E.I.)</td>
<td>Rs. 11369291</td>
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<td>PART-5</td>
<td>DG SET (E.I.)</td>
<td>Rs. 875000</td>
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<td>PART-6</td>
<td>Electrification (E.I.)</td>
<td>Rs. 3731189</td>
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<tr>
<td>PART-7</td>
<td>Fire Fighting Work (E.I.)</td>
<td>Rs. 2657706</td>
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<tr>
<td>PART-8</td>
<td>LIFT (E.I.)</td>
<td>Rs. 952300</td>
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<td>PART-9</td>
<td>Plant Machinery</td>
<td>Rs. 13563726</td>
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<td>TOTAL</td>
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<td>Rs. 112767166</td>
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<tr>
<td>Sr. No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
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<tr>
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<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>-------</td>
<td>---------</td>
<td>-----------</td>
<td>--------------</td>
</tr>
<tr>
<td>1</td>
<td>Earth work in ordinary soil within 50m, initial lead and 1.5m initial lift including rought dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-in-charge.</td>
<td>cum</td>
<td>2844.326</td>
<td>74.336</td>
<td>211435.8361</td>
</tr>
<tr>
<td>2</td>
<td>Earth work in Hard soil within 50m, initial lead and 1.5m initial lift including rought dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-in-charge.</td>
<td>cum</td>
<td>0</td>
<td>119.9</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>Extra Lift of 1.5m or part there of over the initial lift of 1.5 m in all kinds of embankments and road work and ordinary earth work in general.</td>
<td>cum</td>
<td>1874.786</td>
<td>28.5729</td>
<td>53568.05861</td>
</tr>
<tr>
<td>4</td>
<td>Back filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5m.</td>
<td>cum</td>
<td>1381.351</td>
<td>66.6</td>
<td>91997.97993</td>
</tr>
<tr>
<td>5</td>
<td>Supplying &amp; Filling foundation trenches, plinth &amp; ditches with clean course river sand well watered and rammed in layers not exceeding 23 c.m. in depth with all lead and lift including cost, conveyance, loading, unloading, stacking, royalties and all taxes of sand, cost &amp; conveyance of water, cost of all Labour, labour cess, T&amp;P required for the work etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td>cum</td>
<td>1093.819</td>
<td>659.8</td>
<td>721701.4793</td>
</tr>
<tr>
<td>6</td>
<td>Providing and laying Plain cement concrete of proportion (1:4:8) using 4cm size metal etc. in foundation and floors using cement, 40mm. Size crusher broken H.G.Metal and screened and washed sharp river sand for mortar of approved quality and from approved quarry incluiding hoisting, lowering and laying concrete to the required level, ramming, watering and curing etc. complete to required levels, laid in layers not exceeding 15cm thick in each layer including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P required for the work including shoring, shuttering and dewatering (if required) including hire and running charges of water pump required for the work etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td>cum</td>
<td>186.0886</td>
<td>4077.1</td>
<td>758701.6272</td>
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</tbody>
</table>
**Name of Work**: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BHADRAK, under Jajpur RMC, Odisha

### ABSTRACT FOR CIVIL WORK

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Boaring, providing and installing cast in situ single under reamed pile of specified diameter and length below pile cap in M25 cement concrete as per method, to carry a safe working load not less than specified excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. including cost of all labour, material, taxes, royalties transportation, loading and unloading, sunries, T&amp;P also including hire &amp; running charges of concrete mixer and vibrator for the work etc completed as per direction of Engineer in charge (Length of pile for payment shall be measured upto to the bottom of pile cap). The rates shall be inclusive of a test pile to be conducted by the contractor for the strenth of pile.</td>
<td>each</td>
<td>408</td>
<td>11638.49342</td>
<td>4748505.315</td>
</tr>
<tr>
<td>a</td>
<td>Pile Length 6.00metre</td>
<td>each</td>
<td>408</td>
<td>11638.49342</td>
<td>4748505.315</td>
</tr>
<tr>
<td>b</td>
<td>For Each additional of 0.50mt beyond intial depth of 6.0mt add extra to the Rate</td>
<td>each</td>
<td>2448</td>
<td>279.0777653</td>
<td>683182.3695</td>
</tr>
<tr>
<td>8</td>
<td>Providing and laying in position ready mixed M-25 grade concrete having compressive strength at 28 days test not less than 250 kg/ sq.cm for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, and hoisting, lowering, laying and compacting concrete, watering and curing and finishing the exposed surfaces smooth with cost, conveyance, royalties, taxes of all materials with all labour,Labour cess and T&amp;P required for the work improve workability without impairing strength and durability as per direction of the Engineer - in - charge.</td>
<td>Cu mt</td>
<td>1276.887</td>
<td>5598.4</td>
<td>7148522.221</td>
</tr>
<tr>
<td>a</td>
<td>Up to Plinth Level</td>
<td>Cu mt</td>
<td>1276.887</td>
<td>5598.4</td>
<td>7148522.221</td>
</tr>
<tr>
<td>b</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Cu mt</td>
<td>53.648</td>
<td>5651.7</td>
<td>303202.4016</td>
</tr>
<tr>
<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Cu mt</td>
<td>465.4733</td>
<td>5712.9</td>
<td>2659202.13</td>
</tr>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Cu mt</td>
<td>109.172</td>
<td>5783.3</td>
<td>631374.4276</td>
</tr>
<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Cu mt</td>
<td>109.172</td>
<td>5864.3</td>
<td>640217.3596</td>
</tr>
<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Cu mt</td>
<td>86.886</td>
<td>5957.4</td>
<td>517614.6564</td>
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</table>
**ABSTRACT FOR CIVIL WORK**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Rigid &amp; smooth centering &amp; shuttering for R.C.C. works including false works, all necessary bracing and tiles and supports with leveling centering covered with plastic sheet with provisions for necessary holes and pockets for electrical conduits, pipes, P.H. pipes, for hooks or boxes, switch and board insert plates, clamps and extension bars etc., including dismantling the same after the required interval from the date of casting including cost of all materials, labour, labour cess, conveyance, loading and unloading, taxes, royalties, scaffolding, watering, curing, sundries, tools and plants, etc., complete as per the direction of the Engineer-in-charge.</td>
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**Name of Work** :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BHADRAK, under Jajpur RMC, Odisha

**ABSTRACT FOR CIVIL WORK**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Cutting, straightening coiled or bent up HYSD/TMT Reinforcement Bars welding or jointing if necessary, bending, binding, tying the grills as required for R.C.C. works, providing Fan Hooks where necessary and hoising, lowering and placing the same in proper position according to the approved designs and drawings in all floors including cost, conveyance, loading, unloading and taxes or HYSD/TMT Reinforcement Bars and Binding wires of 18 to 20 gauge required for the work cost of all labour, T&amp;P and scaffolding complete in all respect as directed by the Engineer-in-charge (Payment will be made according to the actual/proper weight of HYSD/TMT Reinforcement Bars and Binding wires consumed in the particular work only)</td>
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<td>KG</td>
<td>22746</td>
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<td>Kg</td>
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<td>11</td>
<td>Fly Ash Brick Masonry in cement mortar of mix (1:6) using Fly Ash bricks of size 25c.m x 12 c.m x 8 c.m in Foundation, Plinth &amp; super structure having crushing strength not less than 75 kg per square c.m. with cement and screened &amp; washed sharp sand for mortar after immersing the bricks for 6 (Six) hours in water before use in works with all necessary projections, splays cutting, circular moulding, corbeling, chamfering, watering and curing etc. including cost, conveyance, stacking, loading, unloading, royalties, all taxes, cost of all labour, Labour cess, scaffolding, sundries and T&amp;P required for the works etc. complete in all respect as directed by the Engineer-in-charge</td>
<td>Fly Ash Brick Masonry</td>
<td>Cum.</td>
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<td>Cum.</td>
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<td>Forth Floor Level (14.0mtr above)</td>
<td>Cum.</td>
<td>94.07</td>
<td>4929</td>
<td>463671.03</td>
</tr>
<tr>
<td>12</td>
<td>Providing 12mm. Thick cement plaster in cement mortar or mix (1:6) in all floors at all height with cement &amp; screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary) including watering and curing, rounding of corners etc. complete with cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P, sundries and scaffolding required for the</td>
<td>Providing 12mm. Thick cement plaster</td>
<td>Cum.</td>
<td>94.07</td>
<td>4929</td>
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</thead>
<tbody>
<tr>
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#### 13
Providing 16mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement & screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary)includiing watering and curing,rounding of corners etc. complete with cost,conveyance,loading, unloading,royalties and taxes of all materials,cost of all labour,T&P,sundries and scaffolding required for the work etc. as directed by the Engineer-in-charge.

<table>
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<tr>
<th>Sr. No.</th>
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#### 14
Painting 2 (Two) or more coats with Weather Coat Paint of premium brand Such as Asian/ Berger/ ICI paints or equivalent of approved quality & colour, using required quantities of paint as specified by the manufacturer to give an even shade over a coat of wall priming (water based) on the finished external plastered surface at all height , watering the surface before applying the Weather Coat Paint and curing for the required period including cost, conveyance, loading, unloading, stacking and all taxes , cost of all Labour, Labourcess, Sundries, Scaffolding, Staging and T&P etc. required for the work complete in all respect as directed by the Engineer-in-charge.

<table>
<thead>
<tr>
<th>Sr. No.</th>
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<th>Qty</th>
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### ABSTRACT FOR CIVIL WORK

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<td>Wall painting two coats with plastic emulsion paint of approved quality colour at all heights to the interior surface of the wall to make an even finished surface including sand papering, applying putty wherever necessary including cost, conveyance, loading, unloading, stacking, all taxes, cost of all Labour, Labour cess, scaffoldings, staging, sundries, T&amp;P etc. required for the work complete as directed by the Engineer-in-charge.</td>
<td></td>
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<td>Finishing wall surface of walls with Acrylic wall putty (water based) of approved make and finished smooth and even surface to receive painting including cost, conveyance, taxes of all materials, cost of all Labour, Labour cess, scaffoldings, staging, sundries, T&amp;P etc. required for the work complete as directed by the Engineer-in-charge.</td>
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<td>0</td>
</tr>
<tr>
<td>b</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>75.092</td>
<td>0</td>
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<tr>
<td>c</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>75.932</td>
<td>0</td>
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<tr>
<td>Sr. No.</td>
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<td>Unit</td>
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<td>Rate</td>
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<tr>
<td>d</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>76.792</td>
<td>0</td>
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<tr>
<td>e</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>0</td>
<td>77.672</td>
<td>0</td>
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<tr>
<td>19</td>
<td>Brick on edge flooring using fly ash brick flat over one brick flat set in cement mortal (1:8)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Ground Floor</td>
<td>Sqm.</td>
<td>979.8</td>
<td>867.1505231</td>
<td>849634.0825</td>
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<tr>
<td>20</td>
<td>Cement concrete flooring grade 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate) rounding off edges etc. but excluding the cost of nosing of steps etc. complete : 75 mm thick with 20 mm thick nominal size aggregate.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Ground Floor</td>
<td>Sqm.</td>
<td>0</td>
<td>240.09</td>
<td>0</td>
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<tr>
<td>21</td>
<td>Providing and fixing steel glazed doors windows and ventilator shutters of standard rolled steel section joints mitred and welded with steel lugs 13 x 3 mm, 10 cm. long embedded in cement concrete block 15 x 10 x 10 cm. of 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws with fixing clips or with bolts and nuts as required including providing and fixing of plain glass panes 4 mm thick with copper glazing clips and special metal sash putty of approved make or metal beading with screws complete including priming coat of approved steel primer, excluding the cost of metal beading and other fitting except necessary hinges of pivots steel handles peg stay etc. as required : Windows side hung (openable)</td>
<td></td>
<td>1.28</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge 0.50mm (+0.05%) total coated thickness with zinc coating 120grams per sqm as per IS:227, in 240mpa steel grade, 5-7 microns.</td>
<td>Sqm.</td>
<td>1354.358</td>
<td>597.2311347</td>
<td>808864.7652</td>
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**TOTAL CIVIL**  
47183923
## Abstract for Structural Work

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<tr>
<th>Sr.No.</th>
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<th>Rate</th>
<th>Amount</th>
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<td></td>
<td><strong>Steel Challies Work</strong></td>
<td></td>
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<tr>
<td>1</td>
<td>Supplying, fabricating and erection of steel work in built up tubular hollow hot finished welded type steel tubes for trusses or frame works, etc using round, square or rectangular hollow tubes including cutting, hoisting and fixing in position and applying a prime coat of approved steel primer including welding and bolting with special shaped washers including cost of all labours, joining materials, etc required for work complete as directed by Engineer-In-Charge.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>(i) Hoising of Trusses and Placing in Position</td>
<td>Kg.</td>
<td>178336.5</td>
<td>77.7</td>
<td>13856744.5</td>
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<tr>
<td>2</td>
<td>Supplying, fabricating &amp; fixing of Structural steel items made out of channels, angles, flats, plates, chequerd plates</td>
<td>Kg.</td>
<td>218280.1</td>
<td>77.7</td>
<td>16960362.68</td>
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<tr>
<td></td>
<td>Beam, Hollow Section any type of frame, space frame, gates, atrium in top, truss, purlins, columns, beams etc. complete as per drawing including priming with one coat of red oxide primer in all floors as per the direction of the Engineer-in-charge.</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>(i) Hoising of Trusses and Placing in Position</td>
<td>Kg.</td>
<td>218280.1</td>
<td>77.7</td>
<td>16960362.68</td>
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<td></td>
<td><strong>Total</strong></td>
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### ABSTRACT FOR PLUMBING & SANITARY WORK

**Name of Work:** Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BHADRAK, under Jajpur RMC, Odisha

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<tr>
<td><strong>PART 3</strong> PLUMBING &amp; SANITARY</td>
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<tr>
<td>1</td>
<td>Providing all materials, labour, T&amp;P for fitting and fixing white glazed vitreous china floor mounted water closet (European pattern) 'P' or 'S' type of approved make, as per IS-2556 with ISI mark, including supply of suitable PVC wall plug and Brass screws etc. all complete including cost of PVC seat cover (solid) with hinges &amp; rubber buffers etc all complete including cost, taxes and conveyance as per specification all complete as per direction of Engineer-in-charge. Make (No.C0297(S)Trap+C0278(P)Trap(Elite)Hindware</td>
<td>SET</td>
<td>1</td>
<td>3455.5</td>
<td>3455.5</td>
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<tr>
<td>2</td>
<td>Providing all materials, labour, and T&amp;P for fitting and fixing of 10 liter capacity PVC low level cistern complete with all internal fittings of approved make as per IS-7231 with ISI mark and Providing of necessary PVC wall plug, screws and 15mm dia PVC connection pipe with union at both end, including testing etc. all complete as per specification &amp; direction of Engineer-in-charge. Make : HINDWARE/CERA/PARRYWARE</td>
<td>No</td>
<td>1</td>
<td>1460.9</td>
<td>1460.9</td>
</tr>
<tr>
<td>3</td>
<td>Supply all materials and labour for fitting and fixing of 550x400mm white glazed vitreous china wash basin of approved make with supply &amp; fixing of 32mm CP waste, 15mm dia PVC water connection pipe, basin bolts &amp; Nuts of approved quality including cutting the walls &amp; floor and making good the damages with cement concrete (1:2:4) etc. with all taxes, duties, transportation etc. all complete as per direction of EIC. (Make (No.C0460 Basin(550x400mm)Popular(Hindware)</td>
<td>SET</td>
<td>2</td>
<td>3770.2</td>
<td>7540.4</td>
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<tr>
<td>4</td>
<td>Supplying all materials and labour, T&amp;P for fitting and fixing of 590mm x 390mmx 375mm white glazed vitreous china Half stall front standing urinal basin as per IS-2556 with ISI mark along with supply &amp; fixing of necessary component parts like pair of C.I./M.S. bracket including all taxes, duties, transportation etc. with all complete fittings as per specification &amp; direction of the Engineer-in-charge. (Make No.C0575+C8095(White)Hindware.</td>
<td>SET</td>
<td>2</td>
<td>4704.1</td>
<td>9408.2</td>
</tr>
<tr>
<td>5</td>
<td>Providing all materials, labour, T&amp;P for fitting and fixing of 20mm thick white marble partition for urinal of following sizes including cutting, edge moulding, both side polishing including fixing on the wall after groove cutting &amp; making good the damages. The cost inclusive of all taxes, transportation etc. all complete as per specification &amp; direction of Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Marble partition Size-2x0.90x0.75=1.35</td>
<td>Sqmt</td>
<td>1.35</td>
<td>2570.7</td>
<td>3470.445</td>
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<tr>
<td>7</td>
<td>Providing all materials, labour, T&amp;P for fixing of 600x450mm bevelled edge mirror of 5mm thick mounted on 4mm thick A C back sheet &amp; CP cup screw with PVC wall plugs including cost, conveyance, taxes of all materials complete as per specification and direction of E.I.C.</td>
<td>NO</td>
<td>2</td>
<td>654.4</td>
<td>1308.8</td>
</tr>
<tr>
<td>8</td>
<td>Supplying all materials, labour, T&amp;P and fixing standard sized CP towel rail complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge</td>
<td>NO</td>
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<td>955.4</td>
<td>955.4</td>
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<tr>
<td>9</td>
<td>Supplying all materials, labour, T&amp;P and fixing standard sized glass-shelf with CP brass brackets and guard rails complete fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>10</td>
<td>Providing and fixing 15mm dia CP bib cock long body(Jaquar make)</td>
<td>NO</td>
<td>1</td>
<td>1179.4</td>
<td>1179.4</td>
</tr>
<tr>
<td>11</td>
<td>Providing and fixing 15mm dia CP angular stop cock(Jaquar make)</td>
<td>NO</td>
<td>5</td>
<td>840.3</td>
<td>4201.5</td>
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<tr>
<td>12</td>
<td>Providing and fixing Health Faucet with 1m long PVC tube &amp; wall hook(Jaquar make)</td>
<td>NO</td>
<td>1</td>
<td>1742.3</td>
<td>1742.3</td>
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<tr>
<td>13</td>
<td>Providing and fixing 15mm dia CP two way bib cock(Jaquar make)</td>
<td>NO</td>
<td>1</td>
<td>1179.4</td>
<td>1179.4</td>
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<td>14</td>
<td>Providing and fixing 15mm dia pillar cock(Jaquar make)</td>
<td>NO</td>
<td>2</td>
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<td>1742.4</td>
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<td></td>
<td>Providing and fixing Robe Hook(Jaquar make)</td>
<td>NO</td>
<td>1</td>
<td>348.5</td>
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### ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
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<th>Rate</th>
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<tr>
<td>15</td>
<td>Providing and fixing soap case (Jaquar make)</td>
<td>NO</td>
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<td>1016.3</td>
<td>2032.6</td>
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<tr>
<td>16</td>
<td>Providing and fixing 32mm CP Bottle Trap (Jaquar make)</td>
<td>NO</td>
<td>4</td>
<td>1451.9</td>
<td>5807.6</td>
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<tr>
<td>17</td>
<td>Supplying all materials, labour &amp; fitting and fixing 125mm dia stainless steel gratting on top of floor traps with white cement all complete in all floors, as per technical specification and direction of Engineer-in-charge.</td>
<td>NO</td>
<td>4</td>
<td>83.8</td>
<td>335.2</td>
</tr>
<tr>
<td>18</td>
<td>Providing all materials, labour, T&amp;P for laying of following nominal dia UPVC pipes as per IS-4985 with ISI mark including fixing of required size UPVC fittings like, bend, Tee, elbow, offsets, etc. and the same fixed on wall or floor with holder bat clamps screw etc. including testing the joints with required water pressure. The cost inclusive of all taxes, duties, transportation scaffolding etc. as per specification and direction of Engineer-in-charge. Make: Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td>NO</td>
<td>4</td>
<td>2032.6</td>
<td>5807.6</td>
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<td>a. 40mm dia</td>
<td>RM</td>
<td>25</td>
<td>362.2</td>
<td>9055</td>
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<td>b. 50mm dia</td>
<td>RM</td>
<td>20</td>
<td>420.7</td>
<td>8414</td>
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<td>19</td>
<td>Providing and fixing on wall face unplasticised Rigid PVC soil, waste water pipes conforming to IS:13592 Type-B, including jointing with seal-ring conforming to IS:5382. Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td>RM</td>
<td>50</td>
<td>330.9</td>
<td>16545</td>
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<td>a. 110mm dia</td>
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<td>100</td>
<td>330.9</td>
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<td>20</td>
<td>Providing and fixing on wall face unplasticised Rigid PVC for rain water pipes conforming to IS:13592 Type-A, including jointing with seal-ring conforming to IS:5382. Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td>RM</td>
<td>100</td>
<td>330.9</td>
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<td>a. 110mm dia</td>
<td>RM</td>
<td>100</td>
<td>717.3</td>
<td>71730</td>
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<td>b. 160mm dia</td>
<td>RM</td>
<td>100</td>
<td>717.3</td>
<td>71730</td>
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<td>21</td>
<td>Supplying all materials, labour, T&amp;P, fitting and fixing of following dia UPVC SWR fittings of approved make confirming to IS-14735 with all taxes, duties, transportation &amp; requisite testing as per specification &amp; direction of Engineer-in-charge. Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td>NO</td>
<td>3</td>
<td>273.8</td>
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<td>a. 110mm x 110mm P trap</td>
<td>NO</td>
<td>2</td>
<td>100.2</td>
<td>200.4</td>
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<td>b. 110mm WC Connector/ Bend with lip ring</td>
<td>NO</td>
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<td>228</td>
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<tr>
<td></td>
<td>c. 110mm dia Plain Bend 87.5 deg</td>
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<td>d. 160mm dia Plain Bend 87.5 deg</td>
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<td>e. 110mm dia Plain Bend 45 deg</td>
<td>NO</td>
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<td>f. 160mm dia Plain Bend 45 deg</td>
<td>NO</td>
<td>4</td>
<td>100.2</td>
<td>400.8</td>
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<tr>
<td>22</td>
<td>Providing all materials, labour, T&amp;P for laying in trenches of following nominal dia UPVC pipes (Sch-80) as per IS-ASTMD-1785 with ISI mark including fixing of required size fittings like bend, Tee, elbow, offsets etc. &amp; testing the joints with required water pressure. The cost inclusive of all taxes, duties, transportation scaffolding etc. as per specification and direction of Engineer-in-charge. Make: Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td>NO</td>
<td>5</td>
<td>362.2</td>
<td>1811</td>
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<tr>
<td></td>
<td>a. 40mm Dia</td>
<td>metre</td>
<td>20</td>
<td>186</td>
<td>3720</td>
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<tr>
<td></td>
<td>b. 50mm Dia</td>
<td>metre</td>
<td>20</td>
<td>145.2</td>
<td>2904</td>
</tr>
<tr>
<td>23</td>
<td>Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes SDR-13.5 conforming to IS: 15778, having thermal stability for hot &amp; cold water supply, including all CPVC plain &amp; brass threaded fittings including fixing the pipes with clamps at 1.00 m spacing. The includes jointing of pipes &amp; fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td>metre</td>
<td>150</td>
<td>452.75</td>
<td>67912.5</td>
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<td>a. 25mm Dia</td>
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<td>20</td>
<td>186</td>
<td>3720</td>
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<td>b. 20mm Dia</td>
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<tr>
<td>24</td>
<td>Supplying all materials, labour, T&amp;P fitting and fixing of different size brass upvc ASTMD-1785, sch-80 ball valve Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td>a 25mm dia ball valve</td>
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<td>336.7</td>
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<td>b 50 mm dia ball Valve</td>
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<td>6</td>
<td>1260</td>
<td>7560</td>
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<tr>
<td>25</td>
<td>Supplying and fixing in position approved make bronze vertical non return valve(screwed) of approved make to IS: 778,</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a 50 mm dia</td>
<td>No</td>
<td>6</td>
<td>909</td>
<td>5454</td>
</tr>
<tr>
<td></td>
<td>Make: Zoloto/Leader/Shakti</td>
<td></td>
<td></td>
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<tr>
<td>26</td>
<td>Fixing Rotational moulded polyethylene cylindrical vertical water storage tanks conforming to IS: 12701–1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc, including hoisting up to a height of 5 metres above ground level and placing the tank to the required position and construction of required staging etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>a 2000 litre capacity Double Layer Cylindrical Vertical water storage tanks</td>
<td>No</td>
<td>4</td>
<td>28973.2</td>
<td>115892.8</td>
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<td></td>
<td>b Cutting holes for taking 100mm dia PVC pipes through 250mm thick wall</td>
<td>No</td>
<td>8</td>
<td>133.4</td>
<td>1067.2</td>
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<tr>
<td>28</td>
<td>Supplying all materials, labour and T&amp;P and laying UPVC Foam core pipe as per IS:16098 sn-4 for underground rain water pipe and sewer Make: ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>a 110mm Nominal Dia pipe</td>
<td>metre</td>
<td>35</td>
<td>369.7</td>
<td>12939.5</td>
</tr>
<tr>
<td></td>
<td>b 160mm Nominal Dia pipe</td>
<td>metre</td>
<td>40</td>
<td>739.2</td>
<td>29568</td>
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<tr>
<td></td>
<td>c 200 mm Nominal Dia pipe</td>
<td>metre</td>
<td>13</td>
<td>956.4</td>
<td>12433.2</td>
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<tr>
<td>29</td>
<td>Providing and laying in trench cement concrete (1:3:6) with 40mm size hard granite metal in the following type of bedding for upvc pipes of the following internal diameter including curing complete as per specification</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a 110mm Nominal Dia pipe</td>
<td>metre</td>
<td>35</td>
<td>560.6</td>
<td>19621</td>
</tr>
<tr>
<td></td>
<td>b 160mm Nominal Dia pipe</td>
<td>metre</td>
<td>40</td>
<td>794.7</td>
<td>31788</td>
</tr>
<tr>
<td></td>
<td>c 200 mm Nominal Dia pipe</td>
<td>metre</td>
<td>13</td>
<td>990.5</td>
<td>12876.5</td>
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<tr>
<td>30</td>
<td>Supplying all materials, labour, T&amp;P and constructing gully trap chamber of the following inside size with 8cm thick R.C.C precast cover slab in cement concrete (1:2:4) mix using 12mm size h.g chips, foundation concrete (1:4:8) using 40mm size hard granite metal on bed and around trap, K.B brickwork in c.m (1:6) in F&amp;P and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mmx100mm size HCl gully trap, 150mmx150mm size C.I grating etc all complete as per approved drawing, specification and direction of the Engineer in charge-Gully trap chamber of size 250mmx250mm with R.C.C cover slab</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>No</td>
<td></td>
<td>1</td>
<td>1253.7</td>
<td>1253.7</td>
</tr>
<tr>
<td>31</td>
<td>Supplying all materials, labour, T&amp;P and constructing man hole chamber of the following size with cement concrete (1:3:6) using 40mm size hard granite metal on bed, 1st class K.B brickwork in cement mortar (1:6), moulding and shaping the channel inside and benching with cement concrete (1:2:4) using 12mm size h.g chips, 12mm thickness cement plaster (1:3) with punning to inside, cement flush pointing (1:3) to outside, R.C.C cover slab in (1:2:4) using 12mm size h.g chips with RCC man hole cover, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Man hole chamber Inside size 910mmx910mmx910mm</td>
<td>No</td>
<td>10</td>
<td>13773.1</td>
<td>137731</td>
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<td>Sr.No.</td>
<td>Particulars</td>
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<td>Rate</td>
<td>Amount</td>
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<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>---------</td>
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</tr>
<tr>
<td>32</td>
<td>Supplying all materials, labour, T&amp;P and constructing soakway pit of the following size with precast RCC rings joined loose, gravel backing in the rear of well steining, precast RCC cover slab in cement concrete (1:2:4) using 12mm size hg chips fitted with iron lifting handles including cutting hole in the rings for inlet pipe, earthwork in open well excavation in all kinds of soil and refilling of cavity around the pit &amp; painting the iron works, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge - RCC rings soakway pit 1.22m dia x 2.10m deep</td>
<td>No 2</td>
<td>12873.4</td>
<td>25746.8</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Supplying, installing, testing and commissioning of Non clog self priming centrifugal pump ..electric motor. The pump shall have cast iron delivery casting, cast iron impeller SS Shaft. Pump shall be provided with mechanical seal (gland packing). The pump shall be suitable for auto/ manual operation.all complete, including cost, convenance, taxes, T &amp; P etc complete as per direction of Engineer-in-charge.</td>
<td>No 2</td>
<td>10000</td>
<td>20000</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Providing, fitting &amp; fixing pvc rung 200 mm X 300mm Step Iron (inside u.g.r.)etc. all complete as per direction of Engineer-in-charge.</td>
<td>No 20</td>
<td>179.7</td>
<td>3594</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>supplying fixing GI half round rain water gutter under the sloped roofs including providing necessary nuts and bolts, protection bar etc,. complete as per the direction of the Engineer-in-charges.</td>
<td>rm 1</td>
<td>115</td>
<td>1100</td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>200 mm dia half round gutter</td>
<td>rm 1</td>
<td>115</td>
<td>126500</td>
<td></td>
</tr>
<tr>
<td>b</td>
<td>150 mm dia half round gutter</td>
<td>rm 1</td>
<td>900</td>
<td>103500</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>Labour for drilling a perfectly bore hole for specified dia for specified depth below G.I through consolidated and unconsolidated rocks with fast drilling sophisticated DTH/combination rig to suit the site condition as per the direction of the Engineer-in-charge including use of own Rigs with it accessories, T&amp;P consumables etc., for lowering of 200mm dia GI/PVC pipe for housing fitted with socket and with or without well screen as per necessity for soft, medium, hard &amp; boulder formation (GI/PVC/MS casing pipe if required to prevent collapse of over burden is to be provided by the contractor including lowering and withdrawing after completion of Tube well) 200mm dia to 400mm dia in overburden portion including packing of gravel supplied by the contractor for 400mm dia bore only.</td>
<td>Each Mtr</td>
<td>80</td>
<td>657</td>
<td></td>
</tr>
<tr>
<td>a) 200 mm dia</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1) 0 Mtr to 80 Mtr</td>
<td></td>
<td></td>
<td>52560</td>
<td></td>
<td></td>
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<tr>
<td>37</td>
<td>Lowering the following size of G.I. /PVC/MS housing pipe with or without slotted pipes as per the necessity from ground level up to 45mtr depth fitted and fixed up in perfectly vertical position including cutting &amp; threading of pipes &amp; slotted pipes &amp; supplying &amp; fixing all jointing materials, tools &amp; plant etc. all complete &amp; keeping the top of casing pipe threaded including plugging tube-wells to prevent entry of foreign materials and keeping the casing pipe 1.00mtr above GL.</td>
<td>Each Mtr</td>
<td>80</td>
<td>657</td>
<td></td>
</tr>
</tbody>
</table>

**ABSTRACT FOR PLUMBING & SANITARY WORK**

**Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BHADRAK, under Jajpur RMC, Odisha**
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BHADRAK, under Jajpur RMC, Odisha

### ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>38</td>
<td>Cleaning and developing the tube well with their own compressor continuously worked till clear and adequate discharge is obtained from the tube well including supply and use of all necessary equipment and labour as per direction of Engineer-in-charge.</td>
<td>Each Mtr</td>
<td>40</td>
<td>1659.45</td>
<td>66378</td>
</tr>
<tr>
<td>39</td>
<td>Providing, fitting and fixing and laying of HDPE pipe with supply of all materials all complete as per PH specification &amp; direction of Engineer-in-charge. (MAKE: ORIPLAST)</td>
<td>Each No</td>
<td>1</td>
<td>4919</td>
<td>4919</td>
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<tr>
<td>40</td>
<td>a) 200 mm dia HDPE pipe (working pressure 0.8MPA)</td>
<td>Each Mtr</td>
<td>70</td>
<td>210</td>
<td>14700</td>
</tr>
<tr>
<td>41</td>
<td>Supplying, fitting, fixing of required control panel including DOL starter with indicator 32 Amp TPN main switch including connection, installation etc. all complete as per specification &amp; direction of Engineer-in-charge. (Model no. : BEI-SSD2045*321)</td>
<td>Each Set</td>
<td>1</td>
<td>19000</td>
<td>19000</td>
</tr>
<tr>
<td>42</td>
<td>Supplying, fitting and fixing 3 core flat industrial cable for submission conforming to IS 694 Flexible 1100V. To IS 694. including all cost of material, labour, T&amp;P etc all complete. (Make: Finlox.)</td>
<td>Each Mtr</td>
<td>90</td>
<td>106</td>
<td>9540</td>
</tr>
<tr>
<td>43</td>
<td>a) 50mm dia HDPE pipe</td>
<td>Each Mtr</td>
<td>50</td>
<td>657</td>
<td>32850</td>
</tr>
<tr>
<td>44</td>
<td>Sinking of tube well through D.T.H. Rig.</td>
<td>Mtr.</td>
<td>50</td>
<td>657</td>
<td>32850</td>
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<tr>
<td>45</td>
<td>Lowering of PVC casing pipe inside bore.</td>
<td>Mtr.</td>
<td>50</td>
<td>136</td>
<td>6800</td>
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<tr>
<td>46</td>
<td>Cost of 200mm dia (Sch.80) Pipe</td>
<td>Mtr.</td>
<td>50</td>
<td>1523.45</td>
<td>76172.5</td>
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<tr>
<td>47</td>
<td>Cutting slot in casing pipe for recharge of rain water</td>
<td>Mtr.</td>
<td>50</td>
<td>353.5</td>
<td>17675</td>
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<tr>
<td>48</td>
<td>Labour for packing gravel outside the tube well</td>
<td>Cum</td>
<td>4.7</td>
<td>110.1</td>
<td>517.47</td>
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<tr>
<td>49</td>
<td>Supplying all materials, labour, T&amp;P and providing brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:6) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>4.7</td>
<td>1612.4</td>
<td>7578.28</td>
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<td>50</td>
<td>Earth work in all kinds of soil within 50 mtr initial lead and 1.5mtr initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3 mtr in depth and as per direction of the Engineer in charge.</td>
<td>Cum</td>
<td>133.38</td>
<td>129.7</td>
<td>17299.386</td>
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<tr>
<td>51</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:4:8) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>2.16</td>
<td>3886.1</td>
<td>8393.976</td>
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<td>52</td>
<td>Supplying all materials, labour, T&amp;P and providing brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:6) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>22.8</td>
<td>3940</td>
<td>89832</td>
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<td>Sr. No.</td>
<td>Particulars</td>
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<td>Rate</td>
<td>Amount</td>
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</tr>
<tr>
<td>53</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Sqm</td>
<td>182.4</td>
<td>110.5</td>
<td>20155.2</td>
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<tr>
<td></td>
<td>Inside-2x2(7.15+2.50)x2.0m=77.20</td>
<td></td>
<td>77.2</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>2x2x2.50x2.0m=20.00</td>
<td></td>
<td>20.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Outside-2x2(7.65+3.0)x2.0m=85.20</td>
<td></td>
<td>85.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>Supplying all materials, labour, T&amp;P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Sqm</td>
<td>97.2</td>
<td>23.1</td>
<td>2245.32</td>
</tr>
<tr>
<td></td>
<td>Inside-2x2(7.15+2.50)x2.0m=77.20</td>
<td></td>
<td>77.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2x2x2.50x2.0m=20.00</td>
<td></td>
<td>20.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>Supplying all materials, labour, T&amp;P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Sqm</td>
<td>6.26</td>
<td>353.7</td>
<td>2214.162</td>
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<tr>
<td></td>
<td>Roof slab-2x1x0.90x2.50=4.50</td>
<td></td>
<td>4.5</td>
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<td></td>
<td>2x2(1.40+3.00)x0.10=1.76</td>
<td></td>
<td>1.76</td>
<td></td>
<td></td>
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<tr>
<td>56</td>
<td>Supplying all materials, labour, T&amp;P and providing reinforced cement concrete work of M-25 grade with 20mm and down grade black hard granite crusher broken stone chips including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>0.84</td>
<td>5502.7</td>
<td>4622.268</td>
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<td></td>
<td>2x1x1.40x3.00x0.10=0.42</td>
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<td>0.42</td>
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<tr>
<td>57</td>
<td>Supplying all materials, labour, T&amp;P and providing M.S reinforcement for R.C.C work including cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Qntl.</td>
<td>0.68</td>
<td>6023</td>
<td>4095.64</td>
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<tr>
<td>58</td>
<td>Providing and filling filter media</td>
<td>Cum</td>
<td>25.5</td>
<td>1414.5</td>
<td>36069.75</td>
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<td>a</td>
<td>40mm size bolder-2x1x6.0x2.50x0.85=25.50</td>
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<td></td>
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<tr>
<td>b</td>
<td>20mm size washed gravel-2x1x6.0x2.50x0.40=12.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c</td>
<td>Course sand-2x1x6.0x2.50x0.30=9.00</td>
<td></td>
<td></td>
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<tr>
<td>59</td>
<td>Providing fitting and fixing M.S.grill,Jalli cover over the harvesty pindi</td>
<td>Qntl.</td>
<td>6</td>
<td>6100</td>
<td>36600</td>
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<td>60</td>
<td>Earth work in all kinds of soil within 50 mtr initial lead and 1.5mtr initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3 mtr in depth and as per direction of the Engineer in charge.</td>
<td>Cum</td>
<td>4.54</td>
<td>129.7</td>
<td>588.838</td>
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<tr>
<td>61</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4 ) with 12mm size hard broken granite chipsincluding watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>2.54</td>
<td>5584.4</td>
<td>14184.376</td>
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<tr>
<td>a.</td>
<td>In ground floor</td>
<td></td>
<td></td>
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</table>

Name of Work : - Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BHADRAK, under Jajpur RMC, Odisha

ABSTRACT FOR PLUMBING & SANITARY WORK

Sign and Stamp of EPIL

Sign and Stamp of bidder
<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>62</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:3:6) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>3.56</td>
<td>4287.6</td>
<td>15263.856</td>
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<td>63</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) with punning on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>sqm</td>
<td>59.5</td>
<td>123.9</td>
<td>7372.05</td>
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<tr>
<td></td>
<td>a. Ground floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64</td>
<td>Supplying all materials, labour, T&amp;P and providing 1st class K.B.Brick work in C.M (1:4) in foundation and plinth including watering, curring, conveyance of all materials to site.</td>
<td>Cum</td>
<td>8.56</td>
<td>4552.5</td>
<td>38969.4</td>
</tr>
<tr>
<td></td>
<td>a. In ground floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>Earth work in excavation of foundation in all kinds of soil within 50m initial lead and 1.5m initial lift including rough dressing &amp; breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-in-Charge.</td>
<td>Cum</td>
<td>10.31</td>
<td>129.7</td>
<td>1337.207</td>
</tr>
<tr>
<td></td>
<td>a. 3.29mx2.09mx1.50m=10.31</td>
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<td></td>
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<tr>
<td></td>
<td>b. Extra lifts of 1.50 mtr or part thereof over the initial lift of 1.5 mtr in all kinds of embankments and road works and ordinary earthwork in general.</td>
<td>Cum</td>
<td>4.33</td>
<td>139.2</td>
<td>602.736</td>
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<tr>
<td></td>
<td>3.29mx2.09mx0.63m=4.33</td>
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**Name of Work** :: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BHADRAK, under Jajpur RMC, Odisha

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<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>66</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:3:6) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>cum</td>
<td>0.55</td>
<td>4287.6</td>
<td>2358.18</td>
</tr>
<tr>
<td>67</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12m size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>cum</td>
<td>1.31</td>
<td>5584.4</td>
<td>7315.564</td>
</tr>
<tr>
<td>68</td>
<td>Supplying all materials, labour, T&amp;P and providing brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:4) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>cum</td>
<td>4.82</td>
<td>4552.5</td>
<td>21943.05</td>
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<tr>
<td>69</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>sqm</td>
<td>32.94</td>
<td>115.7</td>
<td>3811.158</td>
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<tr>
<td>70</td>
<td>Supplying all materials, labour, T&amp;P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>sqm</td>
<td>13.22</td>
<td>23.1</td>
<td>305.382</td>
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<tr>
<td>71</td>
<td>Supplying all materials, labour, T&amp;P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>sqm</td>
<td>3.43</td>
<td>353.7</td>
<td>1213.191</td>
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<td>72</td>
<td>Supplying all materials, labour, T&amp;P and providing M.S reinforcement for R.C.C work including cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Qntl</td>
<td>0.38</td>
<td>5226</td>
<td>1985.88</td>
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Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BHADRAK, under Jajpur RMC, Odisha

**ABSTRACT FOR PLUMBING & SANITARY WORK**

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>73</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12mm size hard broken granite chips for R.C.C works including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge.</td>
<td>cum</td>
<td>0.47</td>
<td>5584.4</td>
<td>2624.668</td>
</tr>
<tr>
<td>a.</td>
<td>In ground floor-2.86mx1.66mx0.10m=0.47</td>
<td>cum</td>
<td>0.47</td>
<td>5584.4</td>
<td>2624.668</td>
</tr>
<tr>
<td>74</td>
<td>Supplying all materials, labour, T&amp;P and providing, fitting and fixing 100mm x 100mm x 100mm SW Tee in wall including filling the recess with cement concrete (1:3:6) with 12mm size h.g chips all complete including watering, curing, conveyance of all materials to worksite, payment of royalty all complete as per specification and direction of the Engineer in charge.</td>
<td>Each</td>
<td>2</td>
<td>321.9</td>
<td>643.8</td>
</tr>
<tr>
<td>75</td>
<td>Supplying all materials, labour, T&amp;P and making MS step iron in 20mm diameter MS steel bars and fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge.</td>
<td>Each</td>
<td>5</td>
<td>181.3</td>
<td>906.5</td>
</tr>
<tr>
<td>76</td>
<td>Filling in foundation and plinth with excavated materials, moorum including watering and ramming as directed by the Engineer in charge.</td>
<td>cum</td>
<td>3.45</td>
<td>72</td>
<td>248.4</td>
</tr>
<tr>
<td></td>
<td>2(3.29m+1.89m)x0.10mx0.70m=0.73</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(3.29m+1.63m)x0.23mx1.20m=2.72</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>1616924</strong></td>
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<tr>
<td>Sr.No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>-------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
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<td>------</td>
<td>--------</td>
<td>--------------</td>
</tr>
<tr>
<td>1</td>
<td>Providing Poly Urethene composite sandwich Ceiling panels 100mm thk. for Ceiling with 0.50mm BMT pre painted Galvalume PPGL sheet on both side, with tongue and groove joints. PUF(Poly Urethene foam) shall be of density 40Kg/Cu.mt. +-2%, The panels shall be CFC Free certified., complete with erection and commissioning as walk in cooler ceiling with supporting -T and flashings and fixtures, silicon, PUF chemical sealant complete item.</td>
<td>Sq. Mtrs.</td>
<td>1168.54</td>
<td>2247</td>
<td>2625709.38</td>
</tr>
<tr>
<td>2</td>
<td>Providing EPS thermocole insulation for floor in two layers of 50+75mm each that is 125 mm complete as per specification of material and workmanship, first of all apply bitumin primer over the cleaned surface, then fix polyethylene sheet of 50 micron, over which fix one layer of thermocole using bitumin 85x25, seal the joints, then apply bitumin, again fix second layer, again seal the joints with bitumin, complete item.</td>
<td>Sq. Mtrs.</td>
<td>1168.54</td>
<td>1498</td>
<td>1750472.92</td>
</tr>
<tr>
<td>3</td>
<td>Providing Poly Urethene composite sandwich panel 100 mm thk. for Outer Wall with 0.50mm BMT pre painted Galvalume PPGL sheet on chamber side face and 0.25mm thk PPGI( Pre painted Glvanised, as per specification of material and workmanship)iron sheet on wallside face, with tongue and groove joint, PUF(Poly Urethene foam) shall be of density 40Kg/Cu.mt. +-2%, The panels shall be CFC Free certified., including erection and commissioning as walk in cooler walls with flashings, fixtures, silicon sealant, PUF chemical complete item.</td>
<td>Sq. Mtrs.</td>
<td>1980.51</td>
<td>2140</td>
<td>4238291.4</td>
</tr>
<tr>
<td>4</td>
<td>Providing Poly Urethene composite sandwich panel for Partition wall, 100 mm thk. with 0.50mm BMT both sides pre painted Galvalume PPGL sheet on chamber side face and 0.25mm thk PPGI( Pre painted Glvanised, as per specification of material and workmanship)iron sheet on wallside face, with tongue and groove joint, PUF(Poly Urethene foam) shall be of density 40Kg/Cu.mt. +-2%, The panels shall be CFC Free certified., including erection and commissioning as walk in cooler partition wall with fixtures and flashings using silicon sealant and PUF chemical complete item.</td>
<td>Sq. Mtrs.</td>
<td>381.48</td>
<td>2140</td>
<td>816367.2</td>
</tr>
<tr>
<td>5</td>
<td>Providing and fixing Single leaf manual hinge hatch door/windows 100mm thk PU insulation with 0.6mm thk. Coated steel finish. W=1200mm, H=2100mm, as per specification of material and workmanship.</td>
<td>a Doors</td>
<td>Nos.</td>
<td>19</td>
<td>48150</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b Windows</td>
<td>Nos.</td>
<td>8</td>
<td>37450</td>
</tr>
<tr>
<td>6</td>
<td>Providing Suction pipeline insulation with 50/75mm pipe of EPS in throught suction line in machine room, Low pressure receiver and chamber complete Top should be cladded with Aluminium sheet complete.</td>
<td>Lumpsum</td>
<td>695500</td>
<td>695500</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Strip Curtain 150 mm wide for 2X1 M door opening, 3 mm thick.</td>
<td>Nos</td>
<td>19</td>
<td>1500</td>
<td>28500</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TOTAL 11369291</td>
</tr>
</tbody>
</table>

**ABSTRACT FOR INSULATION WORK**

Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BHADRAK, under Jajpur RMC, Odisha

Sign and Stamp of EPIL

19

Sign and Stamp of bidder
<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Supply, installation &amp; commissioning of silent type 160 KVA, 415V, 50Hz, 1500 RPM, 0.8 Lagging p.f., D.G. Set with all accessories excluding AMF Panel with acoustic enclosure. Conforming to BS 5514, 649, IS 10000, capable of taking 10% overload for one hour after 12 hours of continuous operation including base frame, foundation platform, fuel tank, starting system, batteries etc. conforming to CPWD General specification for DG Sets and including Earthing. Complete in all respect.</td>
<td>No</td>
<td>1</td>
<td>87500</td>
<td>875000</td>
</tr>
<tr>
<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>-------</td>
<td>--------------------------------------------------------------------------------------</td>
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<td>---------</td>
</tr>
<tr>
<td>1</td>
<td>SITC of Electric control Panel having all electrical controls with MCCBs incoming main and earth fault relay, HRC fuses, one CT operated ammeter 0-800 amps and one volt meter 0-800 volts etc. complete unit to run above plant. Specification mention as below</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. INCOMER- Main MCCB of any standard make, Control and Switchgear etc of Capacity, 630A 01 No., Change over Switch, 01 No. METERING-indicating lamp R/Y/B 230V 03 No., control fuse with HRC link 2A 07, APFC relay 12 stage make 01 No., Multifunctional Meter 0-800A 01 No., CT800/5Amp class 1 800/5A 04 no.</td>
<td></td>
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<tr>
<td></td>
<td>2. OUTGOING- a) 75HP ATS starters Qty 03 Nos. (300A SFU with HRC link 300A 03No., Control MCB 6Amp 9No., 160A 3P Contactor 06 Nos. 80A 3 pole contactor 3No. Thermal over load relay 66-110A 03No., on delay timer 06No., ATS Transformer 03No., Ammeter digital type with ASS 0-300A 04No., CT300/5Amp class 1 09No, Indicating lamp R/Y/B/ON/OFF/TRIP 230V 15No., Start/Stop Push button 06No. b) SHP DOL starter for pump with standby- 20A MCB TP 10KA, 18A 3P Contactor 09 No., Thermal over load relay 6-10A 05 No., SHP VFD 02 No. indicating lamp ON/OFF/TRIP 04 No., Start stop push button 230V 04 No., Auto manual selector switch 02 No., c) SHP DOL Starter for Water Pump and LIFT motor-20A MCB TP 10KA, 20A 02 No., Control MCB 6Amp SP, 6A, 02 No., 18A 3P Contactor 02 No., Thermal over load relay 6-10A 02 No. indicating lamp ON/OFF/TRIP, 06 Nos., Auto Manual Selector switch 02 No., Start/Stop Push Button 230V 04 Nos. d) SHP DOL starter for Fans 03 Nos.- 20A MCB TP 10KA, 20A 02 No., Control MCB 6Amp SP, 6A, 02 No., 18A 3P Contactor 02 No., Thermal over load relay 6-10A 02 No. indicating lamp ON/OFF/TRIP, 06 Nos., Auto Manual Selector switch 02 No., Start/Stop Push Button 230V 02 Nos. e) 80 KVAR APFC Section- 20 Amp TP MCB 10KA C-curve, 20A 01 Nos, Capacitor duty contactor 12.5 KVAR, 12.5 KVAR 02 Nos., Capacitor duty contactor 10 KVAR, 10 KVAR, 02 Nos., Auto Manual switch 02 Nos., Push button ON/OFF 02 Nos., Indicator ON 01 Nos., Stage-2-3(10 KVAR/2 Nos.)</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>3. 32 Amp, TP MCB 10 KA C-Curve 32A, 32A 02 Nos., Capacitor duty contactor 12.5 KVAR, 12.5 KVAR, 02 Nos., 5KVAR heavy duty capacitor, 5KVAR, 01 Nos., Auto Manual switch, 01 Nos., Push button ON/OFF 02 Nos., Indicator ON 01 Nos., Stage-2-3(10 KVAR/2 Nos.)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 KV grade 3.5 CORE 185 Sqmm ALCONDUCATOR CABLE direct in ground including excavation, san cushioning, protective covering (GI i.e. 40mm,50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.</td>
<td>Mtrs</td>
<td>100</td>
<td>2018</td>
<td>201800</td>
</tr>
<tr>
<td>3</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC sheathed XLPE power cable of of 1.1 KV grade 3.5 CORE 50 Sqmm ALCONDUCATOR CABLE direct in ground including excavation, san cushioning, protective covering (GI i.e. 40mm,50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.</td>
<td>Mtrs</td>
<td>50</td>
<td>761</td>
<td>38050</td>
</tr>
<tr>
<td>4</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 KV grade 3.5 CORE 35 Sqmm ALCONDUCATOR CABLE direct in ground including excavation, san cushioning, protective covering (GI i.e. 40mm,50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.</td>
<td>Mtrs</td>
<td>50</td>
<td>629</td>
<td>31450</td>
</tr>
<tr>
<td>5</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 KV grade 3.5 CORE 10 Sqmm CuCONDUCATOR CABLE direct in ground including excavation, san cushioning, protective covering (GI i.e. 40mm,50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.</td>
<td>Mtrs</td>
<td>200</td>
<td>427</td>
<td>85400</td>
</tr>
<tr>
<td>6</td>
<td>Wiring of light points/fan points (6A/5A) with junction boxes, MS covers etc. All materials i.e. switches / sockets / MS boxes / hardwares and wires etc. shall be of approved make and shall be supplied/installed under scope of work for concealed flush type arrangement. The earthwire PVC insulated 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade is to be supplied/installed as per drawing and specifications. Complete work has to be executed strictly as per drawing Point wiring covers all work scope from switch board to points.</td>
<td>Nos</td>
<td>405</td>
<td>1134</td>
<td>459270</td>
</tr>
<tr>
<td>7</td>
<td>Wiring of two way control point with with 2 x 1.5 SQMM copper wire 660V / 1.1 KV copper cable 660V / 1.1 KV grade PVC insulated including supply of material.</td>
<td>Nos</td>
<td>3</td>
<td>1112</td>
<td>3336</td>
</tr>
</tbody>
</table>
## ABSTRACT FOR ELECTRICAL WORK

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Wiring of bell/buzzer points with 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade insulated wire (including supply of all material) including CPL buzzer board.</td>
<td>Nos</td>
<td>18</td>
<td>2298</td>
<td>41364</td>
</tr>
<tr>
<td>9</td>
<td><strong>Materials</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>Providing and fixing of BULKHEAD LED fittings of 40 watt each</td>
<td>Nos</td>
<td>325</td>
<td>2000</td>
<td>650000</td>
</tr>
<tr>
<td>ii)</td>
<td>Providing and fixing of LED Tube Light fittings of 40 watt each</td>
<td>Nos</td>
<td>40</td>
<td>1150</td>
<td>46000</td>
</tr>
<tr>
<td>iii)</td>
<td>Providing and fixing of 1400RPM Ceiling Fan</td>
<td>Nos</td>
<td>40</td>
<td>2350</td>
<td>94000</td>
</tr>
<tr>
<td>iv)</td>
<td>Providing and fixing 1x400W HPSV street light fittings with accessories like control switch, clamps, bend rod etc.</td>
<td>Nos</td>
<td>8</td>
<td>7400</td>
<td>59200</td>
</tr>
<tr>
<td>10</td>
<td>Preparing an earthing pit (Plate electrode) by using 600 x 600 x 3.15mm thk. GI plates at location shown in the drawing including supply laying and installation of all necessary material as earth electrodes, strips, wires, funnel, screen, watering pipes, brick chamber, CI frame with cover and to complete.</td>
<td>Nos</td>
<td>9</td>
<td>1150</td>
<td>103500</td>
</tr>
<tr>
<td>11</td>
<td>Supply, Installation, Testing &amp; Commissioning of following type Distribution board surface / flush mounted with Single Door MCB DBs. The DB shall have appropriate no. of top &amp; bottom knock outs for outgoing circuits &amp; shall be complete with necessary bus bars, interconnection terminals &amp; earth studs. All terminations in DB shall be complete with ferruling, dressing &amp; all circuits shall be properly labeled with PVC strip (sticker type) having identification as per the final approval of Consultant.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>2Way MCB DB</td>
<td>Nos</td>
<td>18</td>
<td>673</td>
<td>12114</td>
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<td>ii)</td>
<td>8 Way Vertical TPN DB</td>
<td>Nos</td>
<td>3</td>
<td>9652</td>
<td>28956</td>
</tr>
<tr>
<td>12</td>
<td>Supply and fixing following type MCBs in existing MCB DBs including its incoming and out going connection with suitable size of PVC insulated, copper conductor flexible wire etc. as reqd.</td>
<td>Nos</td>
<td>18</td>
<td>953</td>
<td>17154</td>
</tr>
<tr>
<td>i)</td>
<td>32A 4 Pole MCB</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td><strong>LIGHTNING ARRESTER</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supply, installation, testing and commissioning of High pulsar voltage OPR 30 Early streamer emission (ESE) Advance Lightning Protection system with 4 meter high Pulsar 30 having 65 meter protection radius IN LEVEL 2 complies with NFC-17-102 standards. The Air terminal should be capable to collect the ambient electric field and should emit the upward streamer with the defined Gain in time. The installation should be strictly followed as per manufacturer’s instructions. The system should include the following items complete in all respects.</td>
<td>Set</td>
<td>1</td>
<td>16000</td>
<td>16000</td>
</tr>
<tr>
<td></td>
<td>Gi mast for mounting the terminal &amp; adaptor to mount the OPR 30 with suitable base plate, should have provision for Guy wire clamping system, termination arrangement for the Down-Conductor.</td>
<td>Set</td>
<td>1</td>
<td>18000</td>
<td>18000</td>
</tr>
<tr>
<td></td>
<td>Down conductor of 70 sq.mm single core insulated flexible Copper cable with necessary accessories, etc OR Copper strip of size 25 X 3mm down conductor of suitable length as per building height with suitable mounting accessories and mounted on Insulators.</td>
<td>Mtrs</td>
<td>60</td>
<td>850</td>
<td>51000</td>
</tr>
<tr>
<td></td>
<td>Lightning Flash counter working electro mechanically without any power supply. Equipment should count lightning strokes of 0.4KA to 150 KA.(8/20 micro second waveform) tested as per IEC 60-3:1989</td>
<td>Nos</td>
<td>1</td>
<td>16000</td>
<td>16000</td>
</tr>
<tr>
<td></td>
<td>Supply, installation, testing &amp; commissioning of maintenance free chemical earth pit set consisting of 1.2M long 16 mm dia 250 Micron Cu-coated MS rod(2 nos) connected together with clamps along with 10 Kg of ground enhancing chemical GRIC compound (without use of charcoal, salt or another combine). It should be capable of reducing soil resistivity by at least 50%. The earth pit shall be covered with Polyplastic heavy duty cover.</td>
<td>Nos</td>
<td>3</td>
<td>9500</td>
<td>28500</td>
</tr>
<tr>
<td>14</td>
<td>Point wiring for 5 / 6 amp socket outlet with 2 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia MS conduit with piano type switch, phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required.</td>
<td>Nos</td>
<td>15</td>
<td>1341</td>
<td>20115</td>
</tr>
<tr>
<td>15</td>
<td>Point wiring for 15 / 16 amp socket outlet with 2 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia MS conduit with piano type switch, phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required.</td>
<td>Nos</td>
<td>10</td>
<td>1598</td>
<td>15980</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td>3731189</td>
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<tr>
<td>Sr No</td>
<td>Item Description</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
</tr>
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<td>------</td>
<td>----------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>1</td>
<td>SITC of following dia MS Pipes (B Class)with necessary bends, hydrant stand, isolation valves, flanges, landing valve, RRL Hose, Branch pipe, Hose box, underground road crossing, colouring etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) 150 mm Rmt</td>
<td></td>
<td>35</td>
<td>3187.8</td>
<td>11573</td>
</tr>
<tr>
<td></td>
<td>ii) 100 mm Rmt</td>
<td></td>
<td>180</td>
<td>2500</td>
<td>450000</td>
</tr>
<tr>
<td>2</td>
<td>SITC of flexible Fire Hoses(firstaid horeel) with a wall-mounted bracket, hose guide, jet nozzle and 30 metres hose.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) 1620 LPM (50 Mtrs Head, 40 HP) fire hydrant pump (with all attachments like NRV, Cut off valve, air caution vessel, Pressure gauge, Pressure switch all complete etc)</td>
<td></td>
<td>1</td>
<td>200000</td>
<td>200000</td>
</tr>
<tr>
<td></td>
<td>ii) 180 LPM jockey pump, 50 Mtrs head (3HP) Vertical type with (with all attachments like NRV, Cut off valve, Pressure gauge, Pressure switch all complete etc)</td>
<td></td>
<td>1</td>
<td>65000</td>
<td>65000</td>
</tr>
<tr>
<td></td>
<td>iii) 1620 LPM Diesel Engine driven hydrant pump, 40 HP, 50 Mtrs Head (with all attachments like NRV, Cut off valve, Pressure gauge, Pressure switch, fuel Tank, Base Plate, battery, all complete etc)</td>
<td></td>
<td>1</td>
<td>350000</td>
<td>350000</td>
</tr>
<tr>
<td>3</td>
<td>Supply installation testing and commissioning of following pumps for fire fighting system</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) 1620 LPM (50 Mtrs Head, 40 HP) fire hydrant pump (with all attachments like NRV, Cut off valve, air caution vessel, Pressure gauge, Pressure switch all complete etc)</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ii) 180 LPM jockey pump, 50 Mtrs head (3HP) Vertical type with (with all attachments like NRV, Cut off valve, Pressure gauge, Pressure switch all complete etc)</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>iii) 1620 LPM Diesel Engine driven hydrant pump, 40 HP, 50 Mtrs Head (with all attachments like NRV, Cut off valve, Pressure gauge, Pressure switch, fuel Tank, Base Plate, battery, all complete etc)</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Fire Detection system</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a Supply installation of multi criteria detectors (smoke+ heat)</td>
<td>Nos</td>
<td>100</td>
<td></td>
<td>324500</td>
</tr>
<tr>
<td></td>
<td>b Supply installation of following addressable fire alarm panels</td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>i) Repeater panels</td>
<td>Nos</td>
<td>3</td>
<td>85387.5</td>
<td>256162.5</td>
</tr>
<tr>
<td></td>
<td>ii) Main fire alarm panel with MCP, Hooter, Isolater module.</td>
<td>Nos</td>
<td>1</td>
<td>250470</td>
<td>250470</td>
</tr>
<tr>
<td></td>
<td>c 2 X 1.5 sq mm cu flexible cable in MS conduit for detector wiring</td>
<td>Rmt</td>
<td>700</td>
<td>160</td>
<td>112000</td>
</tr>
<tr>
<td>5</td>
<td>Co2 Fire extinguishers</td>
<td>Nos</td>
<td>8</td>
<td>7500</td>
<td>60000</td>
</tr>
<tr>
<td>6</td>
<td>DCP fire extinguishers</td>
<td>Nos</td>
<td>20</td>
<td>3500</td>
<td>70000</td>
</tr>
<tr>
<td>7</td>
<td>pump Control Panel for quoted main(1620 LPM), diesel(1620 LPM) &amp; jockey (180 LPM) fire pump auto operation with earthing &amp; pump wiring</td>
<td>Nos</td>
<td>1</td>
<td>300000</td>
<td>300000</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>2657706</strong></td>
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### ABSTRACT FOR LIFT

<table>
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<tr>
<th>S. No.</th>
<th>Description of Item</th>
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<th>Qty.</th>
<th>Rate</th>
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</tr>
</thead>
<tbody>
<tr>
<td>PART 9</td>
<td>LIFT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Endless Chian &amp; Sprocket type open platform, motorised manually operated Bi directional bag lift</td>
<td>No</td>
<td>1</td>
<td>952300</td>
<td>952300</td>
</tr>
</tbody>
</table>

Name of Work: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BHADRAK, under Jajpur RMC, Odisha

Sign and Stamp of EPIL

Sign and Stamp of bidder
### ABSTRACT FOR PLANT & MACHINERY WORK

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>PART 5</strong> PLANT &amp; EQUIPMENT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Heavy duty high speed industrial type three cylinder vertical reciprocating ammonia refrigeration compressors Kirloskar KC-2/Frick/Superfreeze/Mycom or equivalent make with drive set, stop valve for suction and discharge with flanges and counter flanges, HP/LP OP cutouts, gauges, base frame, bolts, tool kit, gasket set and ferrule complete set with erection and commissioning, testing. Heavy duty high speed industrial type three cylinder vertical reciprocating ammonia refrigeration compressors Kirloskar KC-2/Frick/Superfreeze/Mycom or equivalent make with drive set, stop valve for suction and discharge with flanges and counter flanges, HP/LP OP cutouts, gauges, base frame, bolts, tool kit, gasket set and ferrule complete set with erection and commissioning, testing.</td>
<td>Nos.</td>
<td>3</td>
<td>499333.69</td>
<td>1498001.07</td>
</tr>
<tr>
<td>3</td>
<td>Providing Electric motor of Kirloskar / Crompton / GEC of 50 HP and 1440 RPM, Induction for operation on 440/400 volts, 50 cycles, phase AC supply for driving the Compressors.</td>
<td>Nos.</td>
<td>3</td>
<td>178333.69</td>
<td>535001.07</td>
</tr>
<tr>
<td>4</td>
<td>Providing MEI / Kilbern / L &amp; T motor starter for above mentioned 50HP motor respectfully with ammeter of AE make and 2 overload relays and cable box including starter oil etc. complete. Providing Centrifugal mono block pumps(12M head, 12 LPS) for circulating water with TFC squirrel cage induction motor of 5.0 HP suitable for operation on 400/440 volts, 50 cycles, three phase AC supply and necessary inlet and outlet pipes and foot valves (Kirloskar model no. KDS515 / Crompton model No. MBP 52 / Texmo model No. TMH-6) one fitted stand by.</td>
<td>Nos.</td>
<td>2</td>
<td>26750</td>
<td>53500</td>
</tr>
<tr>
<td>5</td>
<td>Providing Liquid ammonia receiver of 600mmx6.0 mt long fabricated with 14mm thk plates with inlet and outlet valves, gauge glass valves with gauge glass including MS stand complete.</td>
<td>Nos.</td>
<td>1</td>
<td>187250</td>
<td>187250</td>
</tr>
<tr>
<td>6</td>
<td>Providing Oil separator fabricated with 10mm thk. MS plate with size 1350x600mm complete with companion flange.</td>
<td>Nos.</td>
<td>1</td>
<td>26750</td>
<td>26750</td>
</tr>
<tr>
<td>7</td>
<td>Providing Atmospheric condenser 10 pipes high 16 Condensers made in TATA/JINDAL/PRAKASH SURYA MS 50mm thk Round Pipe with fabrication and erection with angle grame 65x65x6 with water ling in GI 50mm B Class Pipe of TATA/JINDAL/PRAKASH SURYA make with header of 150mm dia GI Pipe, all Complete item suitable for heat load of 550KW including sand blasting and ZINC spray galvanising 120GSM.</td>
<td>Nos.</td>
<td>16</td>
<td>59920</td>
<td>958720</td>
</tr>
<tr>
<td>8</td>
<td>Providing Air Cooling Units of alfa laval/ICL/starcooler and condensers/Frick or equivalent make, 03 Nos in each Chamber of refrigeration capacity 36KW each suitable for 0 deg C, Refrigerant ammonia evaporating(pump feed), air volume 48000 CMH, fans 3X710mm axial fan, 1440 RPM, motor 0.75KW(1HP) each, 415V/3ph/50Hz, Stainless steel tubes with plain aluminium fins, 4 fpi, case work GI white powder coated complete with erection and commissioning at top.</td>
<td>Sets</td>
<td>12</td>
<td>285333.69</td>
<td>3424004.28</td>
</tr>
<tr>
<td>9</td>
<td>Provision of First charge of ammonia and oil 68 No. freeze oil for initial temperature as required and maintained for one year.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>374500</td>
</tr>
<tr>
<td>10</td>
<td>Black and GI pipes of different sizes for the completion of water and gas lines and for inter connection of entire plant with suction discharge and liquid lines.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>535000</td>
</tr>
<tr>
<td>11</td>
<td>Sundry material such as gaskets, thread seals, packing sheets, nut bolts, water valves, flanges, V-belts and other required equipments complete as required for various plant and machinery for 5000 mt capacity.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>214000</td>
</tr>
<tr>
<td>12</td>
<td>Providing Energy Recovery wheel in each chamber of 1547Mt each, 02 nos, suitable for 04 air changes in a day. Danfoss/Manik/Any ISI make as per NHB norms and Standards.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>428000</td>
</tr>
<tr>
<td>13</td>
<td>Equipment for Co2 gas removal suitable for 02 chambers of 1547MT each to hold the co2 level 2000PPM as per NHB Norms and Standards.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>1391000</td>
</tr>
<tr>
<td>14</td>
<td>Providing Freon plant for Four chambers of 52 MT eachwith exeporators and condensing units complete with pipe line, pipeline insulation suitable for heat load of 28.15KW at peak load, complete with installation and commissioning with electrification.</td>
<td>Each</td>
<td>1</td>
<td>363800</td>
<td>363800</td>
</tr>
<tr>
<td>15</td>
<td>Load cell based Weight Monitoring system all complete with remot disply</td>
<td>Nos.</td>
<td>6</td>
<td>50000</td>
<td>300000</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>13563726</strong></td>
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</table>

Name of Work: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BHADRAK, under Jajpur RMC, Odisha

**ABSTRACT FOR PLANT & MACHINERY WORK**

**Sign and Stamp of EPIL**

**Sign and Stamp of bidder**
### SUMMARY - BALIAPAL -5000 MT

**Name of Work**: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BALIAPAL, RMC, Odisha

<table>
<thead>
<tr>
<th>PART</th>
<th>PARTICULARS</th>
<th>AMOUNT</th>
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<tbody>
<tr>
<td>PART-1</td>
<td>Civil Work</td>
<td>Rs. 46105557</td>
</tr>
<tr>
<td>PART-2</td>
<td>Civil Work (Steel Structural Work)</td>
<td>Rs. 31213724</td>
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<tr>
<td>PART-3</td>
<td>Plumbing &amp; Sanitary Works (P.H.)</td>
<td>Rs. 1616923.633</td>
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<tr>
<td>PART-4</td>
<td>Insulation Work (E.I.)</td>
<td>Rs. 11369291</td>
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<tr>
<td>PART-5</td>
<td>DG SET (E.I.)</td>
<td>Rs. 875000</td>
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<tr>
<td>PART-6</td>
<td>Electrification (E.I.)</td>
<td>Rs. 3715189</td>
</tr>
<tr>
<td>PART-7</td>
<td>Fire Fighting Work (E.I.)</td>
<td>Rs. 2657706</td>
</tr>
<tr>
<td>PART-8</td>
<td>LIFT (E.I.)</td>
<td>Rs. 952300</td>
</tr>
<tr>
<td>PART-9</td>
<td>Plant Machinery</td>
<td>Rs. 13563726</td>
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**TOTAL** | Rs. **112069416.6**
<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Earth work in ordinary soil within 50m, initial lead and 1.5m initial lift including rought dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer- in-charge.</td>
<td>cum</td>
<td>2844.326</td>
<td>74.336</td>
<td>211435.8361</td>
</tr>
<tr>
<td>2</td>
<td>Earth work in Hard soil within 50m, initial lead and 1.5m initial lift including rought dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer- in-charge.</td>
<td>cum</td>
<td>0</td>
<td>119.9</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>Extra Lift of 1.5m or part there of over the initial lift of 1.5 m in all kinds of embankments and road work and ordinary earth work in general.</td>
<td>cum</td>
<td>1874.786</td>
<td>28.5729</td>
<td>53568.05861</td>
</tr>
<tr>
<td>4</td>
<td>Back filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5m.</td>
<td>cum</td>
<td>1381.351</td>
<td>66.6</td>
<td>91997.97993</td>
</tr>
<tr>
<td>5</td>
<td>Supplying &amp; Filling foundation trenches, plinth &amp; ditches with clean course river sand well watered and rammed in layers not exceeding 23 c.m. in depth with all lead and lift including cost, conveyance, loading, unloading, stacking, royalties and all taxes of sand, cost &amp; conveyance of water, cost of all Labour, labour cess, T&amp;P required for the work etc. complete in all respect as directed by the Engineer- in-charge.</td>
<td>cum</td>
<td>1093.819</td>
<td>267.5</td>
<td>292596.4621</td>
</tr>
</tbody>
</table>
### Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BALIAPAL, RMC, Odisha

#### ABSTRACT FOR CIVIL WORK

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Providing and laying Plain cement concrete of proportion (1:4:8) using 4cm size metal etc. in foundation and floors using cement, 40mm. Size crusher broken H.G. Metal and screened and washed sharp river sand for mortar of approved quality and from approved quarry inclucluding hoisting, lowering and laying concrete to the required level, ramming, watering and curing etc. complete to required levels, laid in layers not exceeding 15cm thick in each layer including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P required for the work including shoring, shuttering and dewatering (if required) including hire and running charges of water pump required for the work etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td>cum</td>
<td>186.086</td>
<td>3896.1</td>
<td>725019.5997</td>
</tr>
<tr>
<td>7</td>
<td>Boaring, providing and installing cast in situ single under reamed pile of specified diameter and length below pile cap in M25 cement concrete as per method, to carry a safe working load not less than specified excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. including cost of all labour, material, taxes, royalties transportation, loading and unloading, sunries, T&amp;P also including hire &amp; running charges of concrete mixer and vibrator for the work etc completed as per direction of Engineer in charge (Length of pile for payment shall be measured upto to the bottom of pile cap). The rates shall be inclusive of a test pile to be conducted by the contractor for the strength of pile.</td>
<td>each</td>
<td>408</td>
<td>11331.55</td>
<td>4623274.293</td>
</tr>
<tr>
<td>a</td>
<td>For Each additional of 0.50mt beyond intial depth of 6.0mt add extra to the Rate</td>
<td>each</td>
<td>2448</td>
<td>273.9621</td>
<td>670659.2673</td>
</tr>
</tbody>
</table>

Sign and stamp of EPIL 3

Sign and stamp of bidder
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BALIAPAL, RMC, Odisha

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Providing and laying in position ready mixed M-25 grade concrete having compressive strength at 28 days test not less than 250 kg/ sq.cm for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, and hoisting, lowering, laying and compacting concrete, watering and curing and finishing the exposed surfaces smooth with cost, conveyance, royalties, taxes of all materials with all labour, Labour cess and T&amp;P required for the work improve workability without impairing strength and durability as per direction of the Engineer - in - charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>****************************************************************------------------------------------------------------------------</td>
<td>-------</td>
<td>--------</td>
<td>-------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>a</td>
<td>Up to Plinth Level</td>
<td>Cu mt</td>
<td>1276.887</td>
<td>5406.1</td>
<td>6902976.919</td>
</tr>
<tr>
<td>b</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Cu mt</td>
<td>53.648</td>
<td>5458.9</td>
<td>292859.0672</td>
</tr>
<tr>
<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Cu mt</td>
<td>485.343</td>
<td>5519.7</td>
<td>2678960.176</td>
</tr>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Cu mt</td>
<td>109.172</td>
<td>5589.5</td>
<td>610216.894</td>
</tr>
<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Cu mt</td>
<td>109.172</td>
<td>5669.9</td>
<td>618994.3228</td>
</tr>
<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Cu mt</td>
<td>86.886</td>
<td>5762.3</td>
<td>500663.1978</td>
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</table>
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000
M.T. At BALIAPAL, RMC, Odisha

<table>
<thead>
<tr>
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<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rigid &amp; smooth centering &amp; shuttering for R.C.C. works including false works with all necessary bracing and tiles and supports with leveling centering covered with plastic sheet with provisions for necessary holes and pockets for electrical conduits, pipes, P.H. pipes, for hooks or boxes, switch and board insert plates, clamps and extension bars etc., including dismantling the same after the required interval from the date of casting including cost of all materials, labour, Labour cess, conveyance, loading and unloading, taxes, royalties, scaffolding, watering, curing, sundries, tools and plants, etc., complete as per the direction of the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>a) RCC Foundation and Plinth</td>
<td>Sqm.</td>
<td>3244.333</td>
<td>95.6</td>
<td>310158.187</td>
</tr>
<tr>
<td></td>
<td>b) RCC Beam, Column, Grider &amp; bresamer etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>738.5356</td>
<td>535.7</td>
<td>395633.5209</td>
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<tr>
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<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>2553.907</td>
<td>642.8</td>
<td>1641651.42</td>
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<tr>
<td></td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>485.8</td>
<td>771.3</td>
<td>374697.54</td>
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<tr>
<td></td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>485.8</td>
<td>925.6</td>
<td>449656.48</td>
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<tr>
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<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>333.12</td>
<td>1110.7</td>
<td>369996.384</td>
</tr>
<tr>
<td></td>
<td>c) RCC Roof slab, Landing, Balcony &amp; chajja etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>9</td>
<td>353.7</td>
<td>3183.3</td>
</tr>
<tr>
<td></td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>1176.41</td>
<td>424.4</td>
<td>499268.404</td>
</tr>
<tr>
<td></td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>509.3</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>611.1</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>0</td>
<td>733.4</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>d) RCC Lintel</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>231.5</td>
<td>0</td>
</tr>
<tr>
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<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>597.81</td>
<td>277.8</td>
<td>166071.618</td>
</tr>
<tr>
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<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>597.81</td>
<td>333.4</td>
<td>199309.854</td>
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<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>597.81</td>
<td>400.1</td>
<td>239183.781</td>
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<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>622.44</td>
<td>480.1</td>
<td>298833.444</td>
</tr>
<tr>
<td></td>
<td>e) RCC Wall and Fin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>456.8</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>548</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>657.8</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>f) RCC Stairs excluding Landing</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>20</td>
<td>428.7</td>
<td>8574</td>
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<tr>
<td>Sr. No.</td>
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<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------------------------------------</td>
<td>------</td>
<td>-----</td>
<td>-------</td>
<td>----------</td>
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<tr>
<td></td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm</td>
<td>20</td>
<td>514.5</td>
<td>10290</td>
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<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm</td>
<td>20</td>
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<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm</td>
<td>20</td>
<td>740.8</td>
<td>14816</td>
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<tr>
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<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm</td>
<td>20</td>
<td>889</td>
<td>17780</td>
</tr>
<tr>
<td></td>
<td>Cutting, straightening, coiled or bent up HYSD/TMT Reinforcement Bars welding or jointing if necessary, bending, binding, tying the grills as required for R.C.C. works, providing Fan Hooks where necessary and hoising, lowering and placing the same in proper position according to the approved designs and drawings in all floors including cost, conveyance, loading, unloading and taxes or HYSD/TMT Reinforcement Bars and Binding wires of 18 to 20 gauge required for the work cost of all labour, T&amp;P and scaffolding complete in all respect as directed by the Engineer-in-charge (Payment will be made according to the actual/proper weight of HYSD/TMT Reinforcement Bars and Binding wires consumed in the particular work only)</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Steel for pile</td>
<td>KG</td>
<td></td>
<td>60.23</td>
<td>1369991.58</td>
</tr>
<tr>
<td></td>
<td>a Up to Plinth Level</td>
<td>KG</td>
<td>22746</td>
<td>60.23</td>
<td>1369991.58</td>
</tr>
<tr>
<td></td>
<td>b Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>KG</td>
<td>6437.76</td>
<td>60.376</td>
<td>388686.1978</td>
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<tr>
<td></td>
<td>c First Floor Level (3.5mtr to 7.0mtr)</td>
<td>KG</td>
<td>51449.32</td>
<td>60.527</td>
<td>3114072.992</td>
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<tr>
<td></td>
<td>d Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>KG</td>
<td>13100.64</td>
<td>60.686</td>
<td>795025.439</td>
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<tr>
<td></td>
<td>e Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>KG</td>
<td>13100.64</td>
<td>60.853</td>
<td>797213.2459</td>
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<td>f Forth Floor Level (14.0mtr above)</td>
<td>KG</td>
<td>10426.32</td>
<td>61.027</td>
<td>636287.0306</td>
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</table>
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BALiapal, RMC, Odisha

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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<tbody>
<tr>
<td>11</td>
<td>Fly Ash Brick Masonry in cement mortar of mix (1:6) using Fly Ash bricks of size 25 cm x 12 cm x 8 cm in Foundation, Plinth &amp; super structure having crushing strength not less than 75 kg per square cm. with cement and screened &amp; washed sharp sand for mortar after immersing the bricks for 6 (Six) hours in water before use in works with all necessary projections, splays cutting, circular moulding, corbelling, chamfering, watering and curing etc. including cost, conveyance, stacking, loading, unloading, royalties, all taxes, cost of all labour, Labour cess, scaffolding, sundries and T&amp;P required for the works etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
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<tr>
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<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Up to Plinth Level</td>
<td>Cum.</td>
<td>93.5625</td>
<td>3984.9</td>
<td>372837.2063</td>
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<tr>
<td>b</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Cum.</td>
<td>321.0613</td>
<td>4018.2</td>
<td>1290088.315</td>
</tr>
<tr>
<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Cum.</td>
<td>157.325</td>
<td>4181.1</td>
<td>657791.5575</td>
</tr>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Cum.</td>
<td>149.45</td>
<td>4368.4</td>
<td>652857.38</td>
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<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Cum.</td>
<td>157.325</td>
<td>4583.9</td>
<td>721162.0675</td>
</tr>
<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Cum.</td>
<td>94.07</td>
<td>4831.6</td>
<td>454508.612</td>
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<tr>
<td>12</td>
<td>Providing 12mm. Thick cement plaster in cement mortar or mix (1:6) in all floors at all height with cement &amp; screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary) including watering and curing, rounding of corners etc. complete with cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P, sundries and scaffolding required for the work etc. as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Plinth Level</td>
<td>sqm</td>
<td>483.912</td>
<td>92</td>
<td>44519.904</td>
</tr>
<tr>
<td>b</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>sqm</td>
<td>825.06</td>
<td>95.1</td>
<td>78463.206</td>
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<tr>
<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>sqm</td>
<td>701.64</td>
<td>98.4</td>
<td>69041.376</td>
</tr>
<tr>
<td>Sr.No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>-------</td>
<td>-------------------------------------------------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>---------</td>
</tr>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>sqm</td>
<td>655.86</td>
<td>101.8</td>
<td>66766.548</td>
</tr>
<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>sqm</td>
<td>671.16</td>
<td>105.4</td>
<td>70740.264</td>
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<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>sqm</td>
<td>589.14</td>
<td>109.2</td>
<td>64334.088</td>
</tr>
<tr>
<td>13</td>
<td>Providing 16mm. Thick cement plaster in cement mortar or mix (1:6) in all floors at all height with cement &amp; screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonary walls after racking out the joints (alongwith providing grooves wherever necessary) including watering and curing, rounding of corners etc. complete with cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P, sundries and scaffolding required for the work etc. as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Plinth Level</td>
<td>Sqm</td>
<td>0</td>
<td>136</td>
<td>0</td>
</tr>
<tr>
<td>b</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>sqm</td>
<td>1522.532</td>
<td>139.1</td>
<td>211784.2012</td>
</tr>
<tr>
<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm</td>
<td>1730.842</td>
<td>142.2</td>
<td>246125.732</td>
</tr>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm</td>
<td>659.82</td>
<td>145.4</td>
<td>95937.828</td>
</tr>
<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm</td>
<td>659.82</td>
<td>148.6</td>
<td>98049.252</td>
</tr>
<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm</td>
<td>609.78</td>
<td>152</td>
<td>92686.56</td>
</tr>
</tbody>
</table>

Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At BALIAPAL, RMC, Odisha
<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Painting 2 (Two) or more coats with Weather Coat Paint of premium brand Such as Asian/Berger/ICI paints or equivalent of approved quality &amp; colour, using required quantities of paint as specified by the manufacturer to give an even shade over a coat of wall priming (water based) on the finished external plastered surface at all height, watering the surface before applying the Weather Coat Paint and curing for the required period including cost, conveyance, loading, unloading, stacking and all taxes, cost of all Labour, Labourcess, Sundries, Scaffolding, Staging and T&amp;P etc. required for the work complete in all respect as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| a | Upto Plinth Level | Sqm | 483.912 | 101.2795 | 49010.38234 |
| b | Ground Floor Level (Plinth to 3.5Mtr) | Sqm. | 825.06 | 104.2383 | 86002.8254 |
| c | First Floor Level (3.5mtr to 7.0mtr) | Sqm. | 701.64 | 107.4 | 75356.136 |
| d | Second Floor Level (7.0mtr to 10.5mtr) | Sqm. | 655.86 | 110.7 | 72603.702 |
| e | Third Floor Level (10.5mtr to 14.0mtr) | Sqm. | 671.16 | 114.2 | 76646.472 |
| f | Forth Floor Level (14.0mtr above) | Sqm. | 589.14 | 117.5 | 69223.95 |

| 15      | Priming one coat over with any approved primer including cost of material & labour For Plastere Surface with water bond Cement primer |
|         |     |

<p>| a | Upto Plinth | Sqm | 0 | 43.1 | 0 |
| b | Ground Floor Level (Plinth to 3.5Mtr) | Sqm. | 0 | 44.5 | 0 |
| c | First Floor Level (3.5mtr to 7.0mtr) | Sqm. | 0 | 46 | 0 |
| d | Second Floor Level (7.0mtr to 10.5mtr) | Sqm. | 0 | 47.6 | 0 |
| e | Third Floor Level (10.5mtr to 14.0mtr) | Sqm. | 0 | 49.3 | 0 |
| f | Forth Floor Level (14.0mtr above) | Sqm. | 0 | 49.3 | 0 |</p>
<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>Priming one coat over with any approved primer including cost of material &amp; labour For Iron work</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Forth Floor</td>
<td>Sqm.</td>
<td>0</td>
<td>40</td>
<td>0</td>
</tr>
<tr>
<td>17</td>
<td>Wall painting two coats with plastic emulsion paint of approved quality colour at all heights to the interior surface of the wall to make an even finished surface including sand papering, applying putty wherever necessary including cost, conveyance, loading, unloading, stacking, all taxes, cost of all Labour, Labour cess, scaffoldings, staging, sundries, T&amp;P etc. required for the work complete as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>1522.532</td>
<td>180</td>
<td>274055.76</td>
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<tr>
<td>b</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>1730.842</td>
<td>183.1</td>
<td>316917.1702</td>
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<td>c</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>659.82</td>
<td>186.5</td>
<td>123056.43</td>
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<tr>
<td>d</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>659.82</td>
<td>189.9</td>
<td>125299.818</td>
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<tr>
<td>e</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>609.78</td>
<td>193.5</td>
<td>117992.43</td>
</tr>
<tr>
<td>18</td>
<td>Finishing wall surface of walls with Acrylic wall putty (water based) of approved make and finished smooth and even surface to receive painting including cost, conveyance, taxes of all materials, cost of all Labour, Labour cess, scaffoldings, staging, sundries, T&amp;P etc. required for the work complete as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>74.28</td>
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<tr>
<td>b</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>75.092</td>
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<td>c</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>75.932</td>
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<tr>
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<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>76.792</td>
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<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>0</td>
<td>77.672</td>
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### ABSTRACT FOR CIVIL WORK

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<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>Brick on edge flooring using fly ash brick flat over one brick flat set in cement mortal (1:8)</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>a</strong> Ground Floor</td>
<td>Sqm.</td>
<td>979.8</td>
<td>846.4475</td>
<td>829349.2831</td>
</tr>
<tr>
<td>20</td>
<td>Cement concrete flooring grade 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate) rounding off edges etc. but excluding the cost of nosing of steps etc. complete : 75 mm thick with 20 mm thick nominal size aggregate.</td>
<td></td>
<td></td>
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</tr>
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<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td><strong>a</strong> Ground Floor</td>
<td>Sqm.</td>
<td>235.26</td>
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<tr>
<td>21</td>
<td>Providing and fixing steel glazed doors windows and ventilator shutters of standard rolled steel section joints mitred and welded with steel lugs 13 x 3 mm, 10 cm. long embedded in cement concrete block 15 x 10 x 10 cm. of 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws with fixing clips or with bolts and nuts as required including providing and fixing of plain glass panes 4 mm thick with copper glazing clips and special metal sash putty of approved make or metal beading with screws complete including priming coat of approved steel primer, excluding the cost of metal beading and other fitting except necessary hinges of pivots steel handles peg stay etc. as required : Windows side hung (openable)</td>
<td></td>
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</tr>
<tr>
<td></td>
<td><strong>sqm</strong></td>
<td></td>
<td>1.28</td>
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<tr>
<td>22</td>
<td>Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge 0.50mm (+0.05%) total coated thickness with zinc coating 120grams per sqm as per IS:227, in 240mpa steel grade, 5-7 microns.</td>
<td>Sqm</td>
<td>1354.358</td>
<td>597.2311</td>
<td>808864.7652</td>
</tr>
</tbody>
</table>

**TOTAL CIVIL**

| Sqm | 1354.358 | 597.2311 | 808864.7652 |

Sign and stamp of EPIL

Sign and stamp of bidder
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BALIAPAL, RMC, Odisha

**ABSTRACT FOR STEEL STRUCTURAL WORK**

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
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<td><strong>STRUCTURAL WORK</strong></td>
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<tr>
<td><strong>STEEL CHALLIES WORK</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Supplying, fabricating and erection of steel work in built up tubular hollow hot finished welded type steel tubes for trusses or frame works, etc using round, square or rectangular hollow tubes including cutting, hoisting and fixing in position and applying a prime coat of approved steel primer including welding and bolting with special shaped washers including cost of all labours, joining materials, etc required for work complete as directed by Engineer-In-Charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(i) Hoising of Trusses and Placing in Position</td>
<td>Kg.</td>
<td>178336.5</td>
<td>78.7</td>
<td>14035081</td>
</tr>
<tr>
<td>2</td>
<td>Supplying, fabricating &amp; fixing of Structural steel items made out of channels, angles, flats, plates, chequerd plates I Section, Beam, Hollow Section any type of frame, space frame, gates, atrium in top, truss, purlins, columns, beams etc. complete as per drawing including priming with one coat of red oxide primer in all floors as per the direction of the Engineer-in-Charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(i) Hoising of Trusses and Placing in Position</td>
<td>Kg.</td>
<td>218280.1</td>
<td>78.7</td>
<td>17178643</td>
</tr>
</tbody>
</table>

**Total**                                                                                      31213724
## Name of Work
Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BALIAPAL, RMC, Odisha

### ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Providing all materials, labour, T&amp;P for fitting and fixing white glazed vitreous china floor mounted water closet (European pattern) 'P' or 'S' type of approved make, As per IS-2556 with ISI mark, including supply of suitable PVC wall plug and Brass screws etc. all complete including cost of PVC seat cover (solid) with hinges &amp; rubber buffers etc all complete including cost, taxes and conveyance as per specification all complete as per direction of Engineer-in-charge. Make (No.C0297(S)Trap+C0278(P)Trap(Elite)Hindware</td>
<td>SET</td>
<td>1</td>
<td>3455.5</td>
<td>3455.5</td>
</tr>
<tr>
<td>2</td>
<td>Providing all materials, labour, and T&amp;P for fitting and fixing of 10 liter capacity PVC low level cistern complete with all internal fittings of approved make as per IS-7231 with ISI mark and Providing of necessary PVC wall plug, screws and 15mm dia PVC connection pipe with union at both end, including testing etc. all complete as per specification &amp; direction of Engineer-in-charge. Make : HINDWARE/CERA/PARRYWARE</td>
<td>No</td>
<td>1</td>
<td>1460.9</td>
<td>1460.9</td>
</tr>
<tr>
<td>3</td>
<td>Supply all materials and labour for fitting and fixing of 550x400mm white glazed vitreous china wash hand basin of approved make with supply &amp; fixing of 32mm CP waste, 15mm dia PVC water connection pipe, basin bolts &amp; Nuts of approved quality including cutting the walls &amp; floor and making good the damages with cement concrete (1:2:4) etc. with all taxes, duties, transportation etc. all complete as per direction of EIC. (Make No.C0460 Basin(550x400m)Papular(Hindware)</td>
<td>SET</td>
<td>2</td>
<td>3770.2</td>
<td>7540.4</td>
</tr>
<tr>
<td>4</td>
<td>Supplying all materials and labour, T&amp;P for fitting and fixing of 590mm x 390mm x 375mm white glazed vitreous china Half stall front standing urinal basin as per IS-2556 with ISI mark along with supply &amp; fixing of necessary component parts like pair of C.I./M.S. bracket including all taxes, duties, transportation etc. with all complete fittings as per specification &amp; direction of the Engineer-in-charge. (Make No.C0575+C8095(White)Hindware.</td>
<td>SET</td>
<td>2</td>
<td>4704.1</td>
<td>9408.2</td>
</tr>
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</table>
# Name of Work

**Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BALIAPAL, RMC, Odisha**

## ABSTRACT FOR PLUMBING & SANITARY WORK

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<tr>
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</tr>
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<tbody>
<tr>
<td>5</td>
<td>Providing all materials, labour, T&amp;P for fitting and fixing of 20mm thick white marble partition for urinal of following sizes including cutting, edge moulding, both side polishing including fixing on the wall after groove cutting &amp; making good the damages. The cost inclusive of all taxes, transportation etc. all complete as per specification &amp; direction of Engineer-in-charge.</td>
<td>Sqmt</td>
<td>1.35</td>
<td>2570.7</td>
<td>3470.445</td>
</tr>
<tr>
<td>6</td>
<td>Providing all materials, labour, T&amp;P for fixing of 600x450mm bevelled edge mirror of 5mm thick mounted on 4mm thick A C back sheet &amp; CP cup screw with PVC wall plugs including cost, conveyance, taxes of all materials complete as per specification and direction of E.I.C.</td>
<td>NO</td>
<td>2</td>
<td>654.4</td>
<td>1308.8</td>
</tr>
<tr>
<td>7</td>
<td>Supplying all materials, labour, T&amp;P and fixing standard sized CP towel rail complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge</td>
<td>NO</td>
<td>1</td>
<td>955.4</td>
<td>955.4</td>
</tr>
<tr>
<td>8</td>
<td>Supplying all materials, labour, T&amp;P and fixing standard sized glass-shelf with CP brass brackets and guard rails complete fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge</td>
<td>NO</td>
<td>1</td>
<td>569.9</td>
<td>569.9</td>
</tr>
<tr>
<td>9</td>
<td>Providing and fixing 15mm dia CP bib cock long body(Jaquar make)</td>
<td>NO</td>
<td>1</td>
<td>1179.4</td>
<td>1179.4</td>
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<tr>
<td>10</td>
<td>Providing and fixing 15mm dia CP angular stop cock(Jaquar make)</td>
<td>NO</td>
<td>5</td>
<td>840.3</td>
<td>4201.5</td>
</tr>
<tr>
<td>11</td>
<td>Providing and fixing Health Faucet with 1m long PVC tube &amp; wall hook(Jaquar make)</td>
<td>NO</td>
<td>1</td>
<td>1742.3</td>
<td>1742.3</td>
</tr>
<tr>
<td>12</td>
<td>Providing and fixing 15mm dia CP two way bib cock(Jaquar make)</td>
<td>NO</td>
<td>1</td>
<td>1179.4</td>
<td>1179.4</td>
</tr>
<tr>
<td>13</td>
<td>Providing and fixing 15mm dia pillar cock(Jaquar make)</td>
<td>NO</td>
<td>2</td>
<td>871.2</td>
<td>1742.4</td>
</tr>
<tr>
<td>14</td>
<td>Providing and fixing Robe Hook(Jaquar make)</td>
<td>NO</td>
<td>1</td>
<td>348.5</td>
<td>348.5</td>
</tr>
<tr>
<td>15</td>
<td>Providing and fixing soap case(Jaquar make)</td>
<td>NO</td>
<td>2</td>
<td>1016.3</td>
<td>2032.6</td>
</tr>
<tr>
<td>16</td>
<td>Providing and fixing 32mm CP Bottle Trap(Jaquar make)</td>
<td>NO</td>
<td>4</td>
<td>1451.9</td>
<td>5807.6</td>
</tr>
<tr>
<td>17</td>
<td>Supplying all materials, labour &amp; fitting and fixing 125mm dia stainless steel grating on top of floor traps with white cement all complete in all floors, as per technical specification and direction of Engineer-in-charge.</td>
<td>NO</td>
<td>4</td>
<td>83.8</td>
<td>335.2</td>
</tr>
</tbody>
</table>
Name of Work : -Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BALIAPAL, RMC, Odisha

ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
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</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>Providing all materials, labour, T&amp;P for laying of following nominal dia UPVC pipes as per IS-4985 with ISI mark including fixing of required size UPVC fittings like, bend, tee, elbow, offsets, etc. and the same fixed on wall or floor with holder bat clamps screw etc. including testing the joints with required water pressure. The cost inclusive of all taxes, duties, transportation scaffolding etc. as per specification and direction of Engineer-in-charge. Make : Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>40mm dia</td>
<td>RM</td>
<td>25</td>
<td>362.2</td>
<td>9055</td>
</tr>
<tr>
<td>b.</td>
<td>50mm dia</td>
<td>RM</td>
<td>20</td>
<td>420.7</td>
<td>8414</td>
</tr>
<tr>
<td>19</td>
<td>Providing and fixing on wall face unplasticised Rigid PVC soil, waste water pipes conforming to IS:13592 Type-B, including jointing with seal-ring conforming to IS:5382, Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>110mm dia</td>
<td>RM</td>
<td>50</td>
<td>330.9</td>
<td>16545</td>
</tr>
<tr>
<td>20</td>
<td>Providing and fixing on wall face unplasticised Rigid PVC for rain water pipes conforming to IS:13592 Type-A, including jointing with seal-ring conforming to IS:5382, Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>110mm dia</td>
<td>RM</td>
<td>100</td>
<td>330.9</td>
<td>33090</td>
</tr>
<tr>
<td>b.</td>
<td>160mm dia</td>
<td>RM</td>
<td>100</td>
<td>717.3</td>
<td>71730</td>
</tr>
<tr>
<td>21</td>
<td>Supplying all materials, labour, T&amp;P, fitting and fixing of following dia UPVC SWR fittings of approved make confirming to IS-14735 with all taxes, duties, transportation &amp; requisite testing as per specification &amp; direction of Engineer-in-charge. Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>a.</td>
<td>110mm x110mm P trap</td>
<td>NO</td>
<td>3</td>
<td>273.8</td>
<td>821.4</td>
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<tr>
<td>b.</td>
<td>110mm WC Connector/ Bend with lip ring</td>
<td>NO</td>
<td>1</td>
<td>228</td>
<td>228</td>
</tr>
<tr>
<td>c.</td>
<td>110mm dia Plain Bend 87.5 deg</td>
<td>NO</td>
<td>2</td>
<td>100.2</td>
<td>200.4</td>
</tr>
<tr>
<td>d.</td>
<td>160mm dia Plain Bend 87.5 deg</td>
<td>NO</td>
<td>2</td>
<td>312</td>
<td>624</td>
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<tr>
<td>e.</td>
<td>110mm dia Plain Bend 45 deg</td>
<td>NO</td>
<td>4</td>
<td>100.2</td>
<td>400.8</td>
</tr>
<tr>
<td>f.</td>
<td>160mm dia Plain Bend 45 deg</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Name of Work**: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BALIAPAL, RMC, Odisha

**ABSTRACT FOR PLUMBING & SANITARY WORK**

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<tbody>
<tr>
<td>22</td>
<td><strong>Providing all materials, labour, T&amp;P for laying in trenches of following nominal dia UPVC pipes (Sch-80) as per IS-ASTMD-1785 with ISI mark including fixing of required size fittings like bend, Tee, elbow, offsets etc. &amp; testing the joints with required water pressure. The cost inclusive of all taxes, duties, transportation, scaffolding etc. as per specification and direction of Engineer-in-charge. Make: SUPREME/ASTRAL/ASHIRVAD</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>a</strong> 40mm Dia</td>
<td>metre</td>
<td>5</td>
<td>362.2</td>
<td>1811</td>
</tr>
<tr>
<td></td>
<td><strong>b</strong> 50mm Dia</td>
<td>metre</td>
<td>150</td>
<td>452.75</td>
<td>67912.5</td>
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<tr>
<td>23</td>
<td><strong>Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes SDR-13.5 conforming to IS: 15778, having thermal stability for hot &amp; cold water supply, including all CPVC plain &amp; brass threaded fittings including fixing the pipes with clamps at 1.00 m spacing. The includes jointing of pipes &amp; fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Make: SUPREME/ASTRAL/ASHIRVAD</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>a</strong> 25mm Dia</td>
<td>metre</td>
<td>20</td>
<td>186</td>
<td>3720</td>
</tr>
<tr>
<td></td>
<td><strong>b</strong> 20mm Dia</td>
<td>metre</td>
<td>20</td>
<td>145.2</td>
<td>2904</td>
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<tr>
<td>24</td>
<td><strong>Supplying all materials, labour, T&amp;P fitting and fixing of different size brass upvc ASTM-1785, sch-80 ball valve Make: SUPREME/ASTRAL/ASHIRVAD</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>a</strong> 25mm dia ball valve</td>
<td>No</td>
<td>1</td>
<td>336.7</td>
<td>336.7</td>
</tr>
<tr>
<td></td>
<td><strong>b</strong> 50 mm dia ball Valve</td>
<td>No</td>
<td>6</td>
<td>1260</td>
<td>7560</td>
</tr>
<tr>
<td>25</td>
<td><strong>Supplying and fixing in position approved make bronze vertical non return valve(screwed) of approved make to IS: 778,</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>a</strong> 50 mm dia</td>
<td>No</td>
<td>6</td>
<td>909</td>
<td>5454</td>
</tr>
<tr>
<td></td>
<td><strong>Make: Zoloto/leader/shakti</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>26</td>
<td><strong>Fixing Rotational moulded polyethylene cylindrical vertical water storage tanks conforming to IS:12701--1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc, including hoisting up to a height of 5 metres above ground level and placing the tank to the required position and construction of required staging etc all complete as per specification and direction of the Engineer in charge</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td><strong>a</strong> 2000 litre capacity Double Layer Cylindrical Vertical water storage tanks</td>
<td>No</td>
<td>4</td>
<td>28973.2</td>
<td>115892.8</td>
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<td>------------</td>
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<tr>
<td>27</td>
<td>Cutting holes for taking 100mm dia PVC pipes through 250mm thick wall</td>
<td>No</td>
<td>8</td>
<td>133.4</td>
<td>1067.2</td>
</tr>
<tr>
<td>28</td>
<td>Supplying all materials, joining materials, labour and T&amp;P and laying UPVC Foam core pipe as per IS:16098 sn-4 for underground rain water pipe and sewer Make : ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>110mm Nominal Dia pipe</td>
<td>metre</td>
<td>35</td>
<td>369.7</td>
<td>12939.5</td>
</tr>
<tr>
<td>b</td>
<td>160mm Nominal Dia pipe</td>
<td>metre</td>
<td>40</td>
<td>739.2</td>
<td>29568</td>
</tr>
<tr>
<td>c</td>
<td>200 mm Nominal Dia pipe</td>
<td>metre</td>
<td>13</td>
<td>956.4</td>
<td>12433.2</td>
</tr>
<tr>
<td>29</td>
<td>Providing and laying in trench cement concrete (1:3:6) with 40mm size hard granite metal in the following type of bedding for upvc pipes of the following internal diameter including curing complete as per specification</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>110mm Nominal Dia pipe</td>
<td>metre</td>
<td>35</td>
<td>560.6</td>
<td>19621</td>
</tr>
<tr>
<td>b</td>
<td>160mm Nominal Dia pipe</td>
<td>metre</td>
<td>40</td>
<td>794.7</td>
<td>31788</td>
</tr>
<tr>
<td>c</td>
<td>200 mm Nominal Dia pipe</td>
<td>metre</td>
<td>13</td>
<td>990.5</td>
<td>12876.5</td>
</tr>
<tr>
<td>30</td>
<td>Supplying all materials, labour, T&amp;P and constructing gully trap chamber of the following inside size with 8cm thick R.C.C precast cover slab in cement concrete (1:2:4) mix using 12mm size h.g chips, foundation concrete (1:4:8) using 40mm size hard granite metal on bed and around trap, K.B brickwork in c.m (1:6) in F&amp;P and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mmx100mm size HCl gully trap, 150mmx150mm size C.I grating etc all complete as per approved drawing, specification and direction of the Engineer in charge-Gully trap chamber of size 250mmx250mm with R.C.C cover slab</td>
<td>No</td>
<td>1</td>
<td>1253.7</td>
<td>1253.7</td>
</tr>
<tr>
<td>Sr.No.</td>
<td>Particulars</td>
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<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
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<td>----------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------</td>
<td>-----</td>
<td>-------</td>
<td>---------</td>
</tr>
<tr>
<td>31</td>
<td>Supplying all materials, labour, T&amp;P and constructing man hole chamber of the following size with cement concrete (1:3:6) using 40mm size hard granite metal on bed, 1st class K.B brickwork in cement mortar (1:6), moulding and shaping the channel inside and benching with cement concrete (1:2:4) using 12mm size h.g chips, 12mm thick cement plaster (1:3) with punning to inside, cement flush pointing (1:3) to outside, R.C.C cover slab in (1:2:4) using 12mm size h.g chips with RCC man hole cover, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge.</td>
<td></td>
<td></td>
<td>13773.1</td>
<td>137731</td>
</tr>
<tr>
<td></td>
<td>Man hole chamber Inside size 910mmx910mmx910mm</td>
<td></td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Supplying all materials, labour, T&amp;P and constructing soakway pit of the following size with precast RCC rings joined loose, gravel backing in the rear of well steining, precast RCC cover slab in cement concrete (1:2:4) using 12mm size h.g chips fitted with iron lifting handles including cutting hole in the rings for inlet pipe, earthwork in open well excavation in all kinds of soil and refilling of cavity around the pit &amp; painting the iron works, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge - RCC rings soakway pit 1.22m dia x 2.10m deep</td>
<td></td>
<td>2</td>
<td>12873.4</td>
<td>25746.8</td>
</tr>
<tr>
<td></td>
<td>Construction of rain water harvesting pit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Supplying, installing, testing and commissioning of Non clog self priming centrifugal pump, electric motor. The pump shall have cast iron delivery casting, cast iron impeller SS Shaft. Pump shall be provided with mechanical seal (gland packing). The pump shall be suitable for auto/ manual operation. All complete, including cost, convenance, taxes, T &amp; P etc complete as per direction of Engineer-in-charge.</td>
<td></td>
<td>2</td>
<td>10000</td>
<td>20000</td>
</tr>
<tr>
<td></td>
<td>WATER TRANSFER PUMP FROM DOMESTIC WATER TANK UGR TO OVER HEAD TANK</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flow rate= 185 lit/min each pump</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Sr.No.</td>
<td>Particulars</td>
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<td>------</td>
<td>------</td>
<td>--------</td>
</tr>
<tr>
<td></td>
<td>Head= 15 mtr</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Single- phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Motor HP=1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1SET ( 1 WORKING + 1 STAND BY)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Providing, fitting &amp; fixing pvc rung 200 mm X 300mm</td>
<td>No</td>
<td>20</td>
<td>179.7</td>
<td>3594</td>
</tr>
<tr>
<td></td>
<td>Step Iron (inside u.g.r.)etc. all complete as per direction of Engineer-in-charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>supplying fixing GI half round rain water gutter under</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>the sloped roofs including providing necessary nuts and</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>bolts, protection bar etc., complete as per the direction of the Engineer-in-charges</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) 200 mm dia half round gutter</td>
<td>rm</td>
<td>115</td>
<td>1100</td>
<td>126500</td>
</tr>
<tr>
<td></td>
<td>b) 150 mm dia half round gutter</td>
<td>rm</td>
<td>115</td>
<td>900</td>
<td>103500</td>
</tr>
<tr>
<td></td>
<td>BORE WELL(Production well)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>Labour for drilling a perfectly bore hole for specified dia</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>for specified depth below G.L through consolidated and</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>unconsolidated rocks with fast drilling sophisticated</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>DTH/combination rig to suit the site condition as per the</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>direction of the Engineer-in-charge including use of own Rigs with it</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>accessories, T&amp;P consumables etc., for lowering of 200mm dia GI/PVC pipe</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>for housing fitted with socket and with or without well screen as per</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>necessity for soft , medium, hard &amp; boulder formation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(GI/PVC/MS casing pipe if required to prevent collapse of over burden is to</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>be provided by the contractor including lowering and withdrawing after</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>completion of Tube well) 200mm dia to 400mm dia in overburden</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>portion including packing of gravel supplied by the</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>contractor for 400mm dia bore only.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>a) 200 mm dia</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1) 0 Mtr to 80 Mtr</td>
<td>Each Mtr</td>
<td>80</td>
<td>657</td>
<td>52560</td>
</tr>
<tr>
<td>37</td>
<td>Lowering the following size of G.i./PVC/MS housing pipe</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>with or without slotted pipes as per the necessity from</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ground level up to 45mtr depth fitted and fixed up in</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>perfectly vertical position including cutting &amp; threading</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>of pipes &amp; slotted pipes &amp; supplying &amp; fixing all jointing materials, tools</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&amp; plant etc. all complete &amp; keeping the top of casing pipe threaded</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>including plugging tube-wells to prevent entry of foreign materials</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>and keeping the casing pipe 1.00mtr above GL.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) 200 mm dia</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0 Mtr to 80 Mtr</td>
<td>Each Mtr</td>
<td>40</td>
<td>1659.45</td>
<td>66378</td>
</tr>
</tbody>
</table>

Sign and stamp of EPIL

Sign and stamp of bidder
<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>38</td>
<td>Cleaning and developing the tube well with their own compressor continuously worked till clear and adequate discharge is obtained from the tube well including supply and use of all necessary equipment and labour as per direction of Engineer-in-charge.</td>
<td>Each No</td>
<td>1</td>
<td>4919</td>
<td>4919</td>
</tr>
<tr>
<td>39</td>
<td>Providing, fitting and fixing and laying of HDPE pipe with supply of all materials all complete as per PH specification &amp; direction of Engineer-in-charge. (MAKE: ORIPLAST)</td>
<td>Each Mtr</td>
<td>70</td>
<td>210</td>
<td>14700</td>
</tr>
<tr>
<td>a</td>
<td>a) 50mm dia HDPE pipe (working pressure 0.8MPA)</td>
<td>Each Mtr</td>
<td>70</td>
<td>210</td>
<td>14700</td>
</tr>
<tr>
<td>40</td>
<td>Supplying fitting, fixing of 3.00 HP submersible pump TEXMO Make(Item code no.TDF255 type: TRF 908 HS +SF007R) including cost of all materials, transportation and taxes of pump etc. complete as per PH specification &amp; direction of Engineer-in-charge.</td>
<td>Each Set</td>
<td>1</td>
<td>19000</td>
<td>19000</td>
</tr>
<tr>
<td>41</td>
<td>Supplying all materials, labour, T&amp;P for fitting and fixing of required control panel including DOL starter with indicator 32 Amp TPN main switch including connection, installation etc. all complete as per specification &amp; direction of Engineer-in-charge. (Model no: BEI-SSD2045*321 relay range 13-18) make TC</td>
<td>Each Set</td>
<td>1</td>
<td>5050</td>
<td>5050</td>
</tr>
<tr>
<td>42</td>
<td>Supplying, fitting and fixing of 3 core flat industrial cable for submission conforming to IS 694 Flexible 1100V. To IS 694. including all cost of material, labour, T&amp;P etc all complete. (Make: Finlox.)</td>
<td>Each Mtr</td>
<td>90</td>
<td>106</td>
<td>9540</td>
</tr>
<tr>
<td>43</td>
<td>Supplying, fitting, fixing of S.S tapper 2nos of 0.45mtr long M.S supporting clamps with M.S nuts &amp; bolt and 200mm tube well cover &amp; cap suitable for the above pump sets.</td>
<td>Each Set</td>
<td>1</td>
<td>2000</td>
<td>2000</td>
</tr>
<tr>
<td>44</td>
<td>Rain water Harvesting. Structure - 2 nos</td>
<td>Cum</td>
<td>4.7</td>
<td>110.1</td>
<td>517.47</td>
</tr>
<tr>
<td>45</td>
<td>Cost of washed gravel.</td>
<td>Cum</td>
<td>4.7</td>
<td>1612.4</td>
<td>7578.28</td>
</tr>
</tbody>
</table>

Name of Work: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BALIAPAL, RMC, Odisha

ABSTRACT FOR PLUMBING & SANITARY WORK
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BALIAPAL, RMC, Odisha

**ABSTRACT FOR PLUMBING & SANITARY WORK**

<table>
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<tr>
<th>Sr.No.</th>
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</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>Earth work in all kinds of soil within 50 mtr initial lead and 1.5mtr initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3 mtr in depth and as per direction of the Engineer in charge.</td>
<td>Cum</td>
<td>133.38</td>
<td>129.7</td>
<td>17299.386</td>
</tr>
<tr>
<td>51</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:4:8) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge.</td>
<td>Cum</td>
<td>2.16</td>
<td>3886.1</td>
<td>8393.976</td>
</tr>
<tr>
<td>52</td>
<td>Supplying all materials, labour, T&amp;P and providing brickwork with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:6) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>22.8</td>
<td>3940</td>
<td>89832</td>
</tr>
<tr>
<td>53</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Sqm</td>
<td>182.4</td>
<td>110.5</td>
<td>20155.2</td>
</tr>
<tr>
<td>54</td>
<td>Supplying all materials, labour, T&amp;P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Sqm</td>
<td>77.2</td>
<td>110.5</td>
<td>20155.2</td>
</tr>
</tbody>
</table>

Sign and stamp of EPIL

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<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>2x2x2.50x2.0m=20.00</td>
<td></td>
<td></td>
<td>20</td>
<td></td>
<td>2245.32</td>
</tr>
<tr>
<td>55</td>
<td>Supplying all materials, labour, T&amp;P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Sqm</td>
<td>97.2</td>
<td>23.1</td>
<td>2214.162</td>
</tr>
<tr>
<td></td>
<td>Roof slab-2x1x0.90x2.50=4.50</td>
<td></td>
<td>4.5</td>
<td></td>
<td>2214.162</td>
</tr>
<tr>
<td></td>
<td>2x2[1.40+3.00]x0.10=1.76</td>
<td></td>
<td>1.76</td>
<td></td>
<td>2214.162</td>
</tr>
<tr>
<td>56</td>
<td>Supplying all materials, labour, T&amp;P and providing reinforced cement concrete work of M-25 grade with 20mm and down grade black hard granite crusher broken stone chips including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>0.84</td>
<td>5502.7</td>
<td>4622.268</td>
</tr>
<tr>
<td></td>
<td>2x1x1.40x3.00x0.10=0.42</td>
<td></td>
<td>0.42</td>
<td></td>
<td>4622.268</td>
</tr>
<tr>
<td>57</td>
<td>Supplying all materials, labour, T&amp;P and providing M.S reinforcement for R.C.C work including cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Qntl.</td>
<td>0.68</td>
<td>6023</td>
<td>4095.64</td>
</tr>
<tr>
<td>58</td>
<td>Providing and filling filter media</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>40mm size bolder-2x1x6.0x2.50x0.85=25.50</td>
<td>Cum</td>
<td>25.5</td>
<td>1414.5</td>
<td>36069.75</td>
</tr>
<tr>
<td>b</td>
<td>20mm size washed gravel-2x1x6.0x2.50x0.40=12.00</td>
<td>Cum</td>
<td>12</td>
<td>1723.5</td>
<td>20682</td>
</tr>
<tr>
<td>c</td>
<td>Course sand-2x1x6.0x2.50x0.30=9.00</td>
<td>Cum</td>
<td>9</td>
<td>582.5</td>
<td>5242.5</td>
</tr>
<tr>
<td>59</td>
<td>Providing fitting and fixing M.S.grill,Jalli cover over the harvesty pindi</td>
<td>Qntl.</td>
<td>6</td>
<td>6100</td>
<td>36600</td>
</tr>
<tr>
<td>60</td>
<td>Earth work in all kinds of soil within 50 mtr initial lead and 1.5mtr initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3 mtr in depth and as per direction of the Engineer in charge.</td>
<td>Cum</td>
<td>4.54</td>
<td>129.7</td>
<td>588.838</td>
</tr>
</tbody>
</table>
## ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
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<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>61</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12mm size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>2.54</td>
<td>5584.4</td>
<td>14184.376</td>
</tr>
<tr>
<td></td>
<td>a. In ground floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>62</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:3:6) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>3.56</td>
<td>4287.6</td>
<td>15263.856</td>
</tr>
<tr>
<td>63</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) with punning on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>3.56</td>
<td>4287.6</td>
<td>15263.856</td>
</tr>
<tr>
<td></td>
<td>a. Ground floor</td>
<td>sqm</td>
<td>59.5</td>
<td>123.9</td>
<td>7372.05</td>
</tr>
<tr>
<td>64</td>
<td>Supplying all materials, labour, T&amp;P and providing 1st class K.B.Brick work in C.M (1:4) in foundation and plinth including watering, curing, conveyance of all materials to site.</td>
<td>Cum</td>
<td>8.56</td>
<td>4552.5</td>
<td>38969.4</td>
</tr>
<tr>
<td></td>
<td>a. In ground floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>Earth work in excavation of foundation in all kinds of soil within 50m initial lead and 1.5m initial lift including rough dressing &amp; breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-in-Charge.</td>
<td>cum</td>
<td>10.31</td>
<td>129.7</td>
<td>1337.207</td>
</tr>
<tr>
<td></td>
<td>a. 3.29mx2.09mx1.50m=10.31</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Extra lifts of 1.50 mtr or part thereof over the initial lift of 1.5 mtr in all kinds of embankments and road works and ordinary earthwork in general.</td>
<td>cum</td>
<td>4.33</td>
<td>139.2</td>
<td>602.736</td>
</tr>
<tr>
<td></td>
<td>b. 3.29mx2.09mx0.63m=4.33</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>66</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:3:6) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>4.33</td>
<td>139.2</td>
<td>602.736</td>
</tr>
</tbody>
</table>
Name of Work: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BAliapal, RMC, Odisha

<table>
<thead>
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<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>67</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12m size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>cum</td>
<td>0.55</td>
<td>4287.6</td>
<td>2358.18</td>
</tr>
<tr>
<td>68</td>
<td>Supplying all materials, labour, T&amp;P and providing brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:4) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>cum</td>
<td>1.31</td>
<td>5584.4</td>
<td>7315.564</td>
</tr>
<tr>
<td>69</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>cum</td>
<td>4.82</td>
<td>4552.5</td>
<td>21943.05</td>
</tr>
<tr>
<td>70</td>
<td>Supplying all materials, labour, T&amp;P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>sqm</td>
<td>32.94</td>
<td>115.7</td>
<td>3811.158</td>
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<tr>
<td>71</td>
<td>In ground floor</td>
<td></td>
<td></td>
<td>13.22</td>
<td>23.1</td>
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Sign and stamp of EPIL 

24

Sign and stamp of bidder
<table>
<thead>
<tr>
<th>Sr. No.</th>
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<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>71</td>
<td>Supplying all materials, labour, T&amp;P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. R.C.C floor and roof slabs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In ground floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.30mx1.10m=2.53</td>
<td>sqm</td>
<td></td>
<td>353.7</td>
<td>1213.191</td>
</tr>
<tr>
<td></td>
<td>2(2.86m+1.66m)0.10m=0.90</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>Supplying all materials, labour, T&amp;P and providing M.S reinforcement for R.C.C work including cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. In ground floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Qntl 0.38</td>
<td></td>
<td></td>
<td>5226</td>
<td>1985.88</td>
</tr>
<tr>
<td>73</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12mm size hard broken granite chips for R.C.C works including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. In ground floor 2.86mx1.66mx0.10m=0.47</td>
<td>cum</td>
<td></td>
<td>5584.4</td>
<td>2624.668</td>
</tr>
<tr>
<td>74</td>
<td>Supplying all materials, labour, T&amp;P and providing fitting and fixing 100mm x 100mm x 100mm SW Tee in wall including filling the recess with cement concrete (1:3:6) with 12mm size h.g chips all complete including watering, curing, conveyance of all materials to worksite, payment of royalty all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Each 2 321.9 643.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>75</td>
<td>Supplying all materials, labour, T&amp;P and making MS step iron in 20mm diameter MS steel bars and fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Each 5 181.3 906.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BALIAPAL, RMC, Odisha

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>76</td>
<td>Filling in foundation and plinth with excavated materials, moorum including</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>watering and ramming as directed by the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>$2(3.29m+1.89m)0.10mx0.70m=0.73$</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>$2(3.29m+1.63m)x0.23mx1.20m=2.72$</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>cum</td>
<td>3.45</td>
<td>72</td>
<td></td>
<td>248.4</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>1616923.633</td>
</tr>
</tbody>
</table>

ABSTRACT FOR PLUMBING & SANITARY WORK

Sign and stamp of EPIL

Sign and stamp of bidder
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Providing Poly Urethane composite sandwich Ceiling panels 100mm thk. for Ceiling with 0.50mm BMT pre painted Galvalume PPGL sheet on both side , with tongue and groove joints, PUF(Poly Urethane foam) shall be of density 40Kg/Cu.mt. +2%, The panels shall be CFC Free certified., complete with erection and commissioning as walk in cooler ceiling with supporting -T and flashings and fixtures, silicon, PUF chemical sealant complete item</td>
<td>Sq. Mtrs.</td>
<td>1168.54</td>
<td>2247</td>
<td>2625709.38</td>
</tr>
<tr>
<td>2</td>
<td>Providing EPS thermocole insulation for floor in two layers of 50+75mm each that is 125 mm complete.as per specification of material and workmanship, first of all apply bitumin primer over the cleaned surface, then fix polyethylent sheet of 500 micron, over which fix one layer of thermocole using bitumin 85x25, seal the joints, then apply bitumin, again fix second layer , again seal the joints with bitumin, complete item.</td>
<td>Sq. Mtrs.</td>
<td>1168.54</td>
<td>1498</td>
<td>1750472.92</td>
</tr>
<tr>
<td>3</td>
<td>Providing Poly Urethane composite sandwich panel 100 mm thk. for Outer Wall with 0.50mm BMT pre painted Galvalume PPGL sheet on chamber side face and 0.25mm thk PPGI( Pre painted Glvanised, as per specification of material and workmanship)iron sheet on wallside face, with tongue and groove joint, PUF(Poly Urethane foam) shall be of density 40Kg/Cu.mt. +2%, The panels shall be CFC Free certified., including erection and commissioning as walk in cooler walls with flashings, fixtures,silicon sealant, PUF chemical complete item.</td>
<td>Sq. Mtrs.</td>
<td>1980.51</td>
<td>2140</td>
<td>4238291.4</td>
</tr>
<tr>
<td></td>
<td>Providing Poly Urethene composite sandwich panel for Partition wall, 100 mm thk. with 0.50mm BMT both sides pre painted Galvalume PPGL sheet on chamber side face and 0.25mm thk PPGI (Pre painted Glvanised, as per specification of material and workmanship) iron sheet on wallside face, with tongue and groove joint, PUF (Poly Urethene foam) shall be of density 40Kg/Cu.mt. + -2%, The panels shall be CFC Free certified, including erection and commissioning as walk in cooler partition wall with fixtures and flashings using silicon sealant and PUF chemical complete item.</td>
<td>Sq. Mtrs.</td>
<td>381.48</td>
<td>2140</td>
<td>816367.2</td>
</tr>
<tr>
<td>---</td>
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<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>5</td>
<td>Providing and fixing Single leaf manual hinge hatch door/windows 100mm thk PU insulation with 0.6mm thk. Coated steel finish. W=1200mm, H=2100mm, as per specification of material and workmanship</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Doors</td>
<td>Nos.</td>
<td>19</td>
<td>48150</td>
<td>914850</td>
</tr>
<tr>
<td>b</td>
<td>Windows</td>
<td>Nos.</td>
<td>8</td>
<td>37450</td>
<td>299600</td>
</tr>
<tr>
<td>6</td>
<td>Providing Suction pipeline insulation with 50/75mm pipe of EPS in throught suction line in machine room, Low pressure receiver and chamber complete Top should be cladled with Aluminius sheet complete.</td>
<td>Lumpsum</td>
<td>695500</td>
<td>695500</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Strip Curtain 150 mm wide for 2X1 M door opening, 3 mm thick</td>
<td>Nos</td>
<td>19</td>
<td>1500</td>
<td>28500</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td>11369291</td>
</tr>
<tr>
<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------------------------------------------------------------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>--------</td>
</tr>
<tr>
<td></td>
<td><strong>PART 6</strong> DG SET</td>
<td></td>
<td></td>
<td>1</td>
<td>875000</td>
</tr>
<tr>
<td>1</td>
<td>Supply, installation &amp; commissioning of silent type 160 KVA, 415V, 50Hz, 1500 RPM, 0.8 Lagging p.f., D.G. Set with all accessories excluding AMF Panel with acoustic enclosure. Conforming to BS 5514, 649, IS 10000, capable of taking 10% overload for one hour after 12 hours of continuous operation including base frame, foundation platform, fuel tank, starting system, batteries etc. conforming to CPWD General specification for DG Sets and including Earthing. Complete in all respect.</td>
<td>No</td>
<td>875000</td>
<td>875000</td>
<td></td>
</tr>
</tbody>
</table>
### ABSTRACT FOR ELECTRICAL WORK

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>PART 7 ELECTRICAL WORK</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SITC of Electric control Panel having all electrical controls with MCCBs incoming main and earth fault relay, HRC fuses, one CT operated ammeter 0-800 amps and one volt meter 0-800 volts etc. complete unit to run above plant. Specification mention as below 1. INCOMER- Main MCCB of any standard make, Control and Switchgear etc of Capacity, 630A 01 No., Change over Switch, 01 No. METERING- indicating lamp R/Y/B 230V 03 No., control fuse with HRC link 2A 07, APFC relay 12 stage make 01 No., Multifunctional Meter 0-800A 01 No., CT 800/5A/ class 1 800/5A 04 no. 2. OUTGOING- a) 75HP ATS starters Qty 03 Nos. (300A SFU with HRC link 300A 03 NO., Control MCB 6Amp 09 No., 160A 3P Contactor 06 Nos. 80A 3 pole contactor 3 No. Thermal over load relay 66-110A 03 No., on delay timer 06 No., ATS Transformer 03 No., Ameter digital type with ASS 0-300A 03 No., CT 300/5A/ class 1 09 No., Indicating lamp R/Y/B/OFF/TRIP 230V 15 No., Start/Stop Push button 06 No. b) 5HP DOL starter for pump with standby- 20A MCB TP 10KA, 18A 3P Contactor 09 No., Thermal over load relay 6-10A 03 No., 5HP VFD 02 No. indicating lamp ON/OFF/TRIP 04 No., Start stop push button 230V 04 No., Auto manual selector switch 02 No., c) 5HP DOL Starter for Water Pump and LIFT motor- 20A MCB TP 10KA, 20A 02 No., Control MCB 6Amp 06 No., 18A 3P Contactor 02 No., Thermal over load relay 6-10A 02 No. indicating lamp ON/OFF/TRIP, 06 Nos., Auto Manual Selector switch 02 Nos., Start/Stop Push Button 230V 04 Nos. d) 5HP DOL starter for Fans 03 Nos.- 20A MCB TP 10KA, 20A 02 Nos.</td>
<td></td>
<td>1</td>
<td>1550000</td>
<td>1550000</td>
</tr>
<tr>
<td></td>
<td><strong>SUPPLY OF CABLE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shielded XLPE power cable of 1.1 KV grade 3.5 CORE 185 Sqmm Al. CONDUCTOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.</td>
<td>Mtrs</td>
<td>100</td>
<td>1978</td>
<td>197800</td>
</tr>
</tbody>
</table>

**Name of Work**: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At BAILAPAL, RMC, Odisha

**Sign and stamp of EPIL**

**Sign and stamp of bidder**
# ABSTRACT FOR ELECTRICAL WORK

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
</table>
| 3      | Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 KV grade 3.5 CORE 50 Sqmm Al.CONDUCTOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.  

Mtrs | 50  | 721  | 36050 |
| 4      | Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 KV grade 3.5 CORE 35 Sqmm Al.CONDUCTOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.  

Mtrs | 50  | 589  | 29450 |
| 5      | Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 KV grade 3.5 CORE 10 Sqmm Cu.CONDUCTOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.  

Mtrs | 200 | 387  | 77400 |
| 6      | Wiring of light points/fan points (6A/5A) with junction boxes, MS covers etc. All materials i.e. switches / sockets / MS boxes / hardwares and wires etc. shall be of approved make and shall be supplied/installed under scope of work for concealed flush type arrangement. The earthwire PVC insulated 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade is to be supplied/installed as per drawing and specifications. Complete work has to be executed strictly as per drawing. Point wiring covers all work scope from switch board to points.  

Nos | 405 | 1134 | 459270 |
| 7      | Wiring of two way control point with with 2 x 1.5 SQMM copper wire 660V / 1.1 KV copper cable 660V / 1.1 KV grade PVC insulated including supply of material.  

Nos | 3   | 1112 | 3336  |
| 8      | Wiring of bell/buzzer points with 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade insulated wire (including supply of all material) including CPL buzzer board.  

Nos | 18  | 2298 | 41364 |
| 9      | Materials  

i) Providing and fixing of BULKHEAD LED fittings of 40 watt each  

Nos | 325 | 2000 | 650000 |
| ii) Providing and fixing of LED Tube Light fittings of 40 watt each  

Nos | 40  | 1150 | 46000  |
| iii) Providing and fixing of 1400RPM Ceiling Fan  

Nos | 40  | 2350 | 940000 |
| iv) Providing and fixing 1x400W HPSV street light fittings with accessories like control switch, clamps, bend rod etc.  

Nos | 8   | 7400 | 592000 |
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Preparing an earthing pit (Plate electrode) by using 600 x 600 x 3.15mm thk. Gi plates at location shown in the drawing including supply laying and installation of all necessary material as earth electrodes, strips, wires, funnel, screen, watering pipes, brick chamber, CI frame with cover and to complete.</td>
<td>Nos</td>
<td>9</td>
<td>11500</td>
<td>103500</td>
</tr>
<tr>
<td>11</td>
<td>Supply, Installation, Testing &amp; Commissioning of following type Distribution board surface / flush mounted with Single Door MCB DBs. The DB shall have appropriate no. of top &amp; bottom knock outs for outgoing circuits &amp; shall be complete with necessary bus bars, interconnection terminals &amp; earth studs. All terminations in DB shall be complete with ferruling, dressing &amp; all circuits shall be properly labeled with PVC strip (sticker type) having identification as per the final approval of Consultant.</td>
<td>Nos</td>
<td>9</td>
<td>11500</td>
<td>103500</td>
</tr>
<tr>
<td></td>
<td>i) 2Way MCB DB</td>
<td>Nos</td>
<td>18</td>
<td>673</td>
<td>12114</td>
</tr>
<tr>
<td></td>
<td>ii) 8 Way Vertical TPN DB</td>
<td>Nos</td>
<td>3</td>
<td>9652</td>
<td>28956</td>
</tr>
<tr>
<td>12</td>
<td>Supply and fixing following type MCBs in existing MCB DBs including its incoming and out going connection with suitable size of PVC insulated, copper conductor flexible wire etc. as reqd.</td>
<td>Nos</td>
<td>18</td>
<td>953</td>
<td>17154</td>
</tr>
<tr>
<td>i)</td>
<td>32A 4 Pole MCB</td>
<td>Nos</td>
<td>18</td>
<td>953</td>
<td>17154</td>
</tr>
<tr>
<td>13</td>
<td>LIGHTNING ARRESTOR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supply, Installation, Testing and commissioning of High pulsar voltage OPR 30 Early streamer emission (ESE) Advance Lightning Protection system with 4 meter high Pulsar 30 having 65 meter protection radius IN LEVEL 2 complies with NFC-17-102 standards. The Air terminal should be capable to collect the ambient electric field and should emit the upward streamer with the defined Gain in time. The installation should be strictly followed as per manufacturer’s instructions. The system should include the following items complete in all respects.</td>
<td>Set</td>
<td>1</td>
<td>16000</td>
<td>16000</td>
</tr>
<tr>
<td></td>
<td>GI mast for mounting the terminal &amp; adaptor to mount the OPR 30 with suitable base plate, should have provision for Guy wire clamping system, termination arrangement for the Down-Conductor.</td>
<td>Set</td>
<td>1</td>
<td>18000</td>
<td>18000</td>
</tr>
<tr>
<td></td>
<td>Down conductor of 70 sq.mm single core insulated flexible Copper cable with necessary accessories, etc OR Copper strip of size 25 X 3mm down conductor of suitable length as per building height with suitable mounting accessories and mounted on Insulators.</td>
<td>Mtrs</td>
<td>60</td>
<td>850</td>
<td>51000</td>
</tr>
<tr>
<td></td>
<td>Lightning Flash counter working electro mechanically without any power supply. Equipment should count lightning strokes of 0.4KA to 150 KA.(8/20 micro second waveform) tested as per IEC 60-1:1989</td>
<td>Set</td>
<td>1</td>
<td>16000</td>
<td>16000</td>
</tr>
<tr>
<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>-------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
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<td>---------</td>
</tr>
<tr>
<td></td>
<td>Supply, installation, testing &amp; commissioning of maintenance free chemical earth pit set consisting of 1.2M long 16 mm dia 250 Micron Cu-coated MS rod (2 nos) connected together with clamps along with 10 Kg of ground enhancing chemical GRIC compound (without use of charcoal, salt or another combine). It should be capable of reducing soil resistivity by at least 50%. The earth pit shall be covered with Polyplastic heavy duty cover.</td>
<td></td>
<td>3</td>
<td>9500</td>
<td>28500</td>
</tr>
<tr>
<td>14</td>
<td>Point wiring for 5 / 6 amp socket outlet with 2 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia MS conduit with piano type switch, phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required.</td>
<td></td>
<td>15</td>
<td>1341</td>
<td>20115</td>
</tr>
<tr>
<td>15</td>
<td>Point wiring for 15 / 16 amp socket outlet with 2 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia MS conduit with piano type switch, phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required.</td>
<td></td>
<td>10</td>
<td>1598</td>
<td>15980</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>3715189</strong></td>
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<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
</tr>
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<td>------</td>
<td>--------</td>
<td>----------</td>
</tr>
<tr>
<td>1</td>
<td>SITC of following dia MS Pipes (B Class) with necessary bends, hydrant stand, Isolation valves, flanges, landing valve, RRL Hose, Branch pipe, Hose box, underground road crossing, colouring etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) 150 mm</td>
<td>Rmt</td>
<td>35</td>
<td>3187.8</td>
<td>111573</td>
</tr>
<tr>
<td></td>
<td>ii) 100 mm</td>
<td>Rmt</td>
<td>180</td>
<td>2500</td>
<td>450000</td>
</tr>
<tr>
<td>2</td>
<td>SITC of flexible Fire Hoses(first aid horeel) with a wall-mounted bracket, hose guide, jet nozzle and 30 metres hose.</td>
<td>Set</td>
<td>12</td>
<td>9000</td>
<td>108000</td>
</tr>
<tr>
<td>3</td>
<td>Supply installation testing and commissioning of following pumps for fire fighting system</td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>i) 1620 LPM (50 Mtrs Head, 40 HP) fire hydrant pump (with all attachments like NRV, Cut off valve, air caution vessel, Pressure gauge, Pressure switch all complete etc)</td>
<td>nos</td>
<td>1</td>
<td>200000</td>
<td>200000</td>
</tr>
<tr>
<td></td>
<td>ii) 180 LPM jockey pump, 50 Mtrs head (3HP) Vertical type with (with all attachments like NRV, Cut off valve, Pressure gauge, Pressure switch all complete</td>
<td>nos</td>
<td>1</td>
<td>65000</td>
<td>65000</td>
</tr>
<tr>
<td></td>
<td>iii) 1620 LPM Diesel Engine driven hydrant pump, 40 HP, 50 Mtrs Head (with all attachments like NRV, Cut off valve, Pressure gauge, Pressure switch, fuel Tank, Base Plate, battery, all complete etc</td>
<td>nos</td>
<td>1</td>
<td>350000</td>
<td>350000</td>
</tr>
<tr>
<td>4</td>
<td>Fire Detection system</td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>a) Supply installation of multi criteria detectors (smoke + heat)</td>
<td>Nos</td>
<td>100</td>
<td>3245</td>
<td>324500</td>
</tr>
<tr>
<td></td>
<td>b) Supply installation of following addressable fire alarm panels</td>
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<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>i) Repeater panels</td>
<td>Nos</td>
<td>3</td>
<td>85387.5</td>
<td>256162.5</td>
</tr>
<tr>
<td></td>
<td>ii) Main fire alarm panel with MCP, Hooter, Isolater module.</td>
<td>Nos</td>
<td>1</td>
<td>250470</td>
<td>250470</td>
</tr>
<tr>
<td></td>
<td>c) 2 Cx 1.5 sq mm cu flexible cable in MS conduit for detector wiring</td>
<td>Rmt</td>
<td>700</td>
<td>160</td>
<td>112000</td>
</tr>
<tr>
<td>5</td>
<td>Co2 Fire extinguishers</td>
<td>Nos</td>
<td>8</td>
<td>7500</td>
<td>60000</td>
</tr>
<tr>
<td>6</td>
<td>DCP fire extinguishers</td>
<td>Nos</td>
<td>20</td>
<td>3500</td>
<td>70000</td>
</tr>
<tr>
<td>7</td>
<td>pump Control Panel for quoted main(1620 LPM), diesel (1620 LPM) &amp; jokey (180 LPM) fire pump auto operation with earthing &amp; pump wiring</td>
<td>Nos</td>
<td>1</td>
<td>300000</td>
<td>300000</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>2657706</strong></td>
</tr>
<tr>
<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------------------------------------------------------------</td>
<td>------</td>
<td>------</td>
<td>-------</td>
<td>---------</td>
</tr>
<tr>
<td>PART 9</td>
<td><strong>LIFT</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Endless Chain &amp; Sprocket type open platform, motorised manually operated Bi directional bag lift</td>
<td>No</td>
<td>1</td>
<td>952300</td>
<td>952300</td>
</tr>
</tbody>
</table>

**Name of Work:** Construction of Multi Chamber Multi Commodity Cold Storage

**Nominal Capacity:** 5000 M.T. At BALIAPAL, RMC, Odisha

**ABSTRACT FOR LIFT WORK**
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Heavy duty high speed industrial type three cylinder vertical reciprocating ammonia refrigeration compressors Kirloskar KC-2/Frick/Superfreeze/Mycom or equivalent make with drive set, stop valve for suction and discharge with flanges and counter flanges, HP/LP OP cutouts, gauges, base frame, bolts, tool kit, gasket set and ferrule complete set with erection and commissioning, testing. Heavy duty high speed industrial type three cylinder vertical reciprocating ammonia refrigeration compressors Kirloskar KC-2/Frick/Superfreeze/Mycom or equivalent make with drive set, stop valve for suction and discharge with flanges and counter flanges, HP/LP OP cutouts, gauges, base frame, bolts, tool kit, gasket set and ferrule complete set with erection and commissioning, testing.</td>
<td></td>
<td>3</td>
<td>49933.69</td>
<td>1498001.07</td>
</tr>
<tr>
<td>3</td>
<td>Providing Electric motor of Kirloskar / Crompton / GEC of 50 HP and 1440 RPM, Induction for operation on 440/400 volts, 50 cycles, 3 phase AC supply for driving the Compressors.</td>
<td></td>
<td>3</td>
<td>17833.69</td>
<td>535001.07</td>
</tr>
<tr>
<td>4</td>
<td>Providing MEI / Kilbern / L &amp; T motor starter for above mentioned 50HP motor respectfully with ammeter of AE make and 2 overload relays and cable box including starter oil etc. complete. Providing Centrifugal mono block pumps(12M head, 12 LPS) for circulating water with TFC squirrel cage induction motor of 5.0 HP suitable for operation on 400/440 volts, 50 cycles, three phase AC supply and necessary inlet and outlet pipes and foot valves (Kirloskar model no. KDS515 / Crompton model No. MBP S2 / Texmo model No. TMH-6) one fitted stand by.</td>
<td></td>
<td>2</td>
<td>26750</td>
<td>53500</td>
</tr>
<tr>
<td>5</td>
<td>Providing Liquid ammonia receiver of 600mmx6.0 mt long fabricated with 14mm thk plates with inlet and outlet valves, gauge glass valves with gauge glass including MS stand complete.</td>
<td></td>
<td>1</td>
<td>187250</td>
<td>187250</td>
</tr>
<tr>
<td>6</td>
<td>Providing Oil separator fabricated with 10mm thk. MS plate with size 1350x600mm complete with companion flange.</td>
<td></td>
<td>1</td>
<td>26750</td>
<td>26750</td>
</tr>
<tr>
<td>7</td>
<td>Providing Atmospheric condenser 10 pipes high 16 Condensers made in TATA/JINDAL/PRAKASH SURYA MS 50mm thk Round Pipe with fabrication and erection with angle grame 65x65x6 with water ling in GI 50mm B Class Pipe of TATA/JINDAL/PRAKASH SURYA make with header of 150mm dia GI Pipe, all Complete item suitable for heat load of 550KW including sand blasting and ZINC spray galvanising 120GSM.</td>
<td></td>
<td>16</td>
<td>59920</td>
<td>958720</td>
</tr>
</tbody>
</table>
Name of Work :-Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T.
At BALIAPAL, RMC, Odisha

ABSTRACT FOR PLANT & MACHINERY WORK

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Providing Air Cooling Units of alfa laval/ICL/starcooler and condensers/Frick or equivalent make, 03 Nos in each Chamber of refrigeration capacity 36KW each suitable for 0 deg C, Refrigerant ammonia evaporating(pump feed), air volume 48000 CMH, fans 3X710mm axial fan, 1440 RPM, motor 0.75KW(1HP) each, 415V/3ph/50Hz, Stainless steel tubes with plain aluminium fins, 4 fpi, case work GI white powder coated complete with erection and commissioning at top.</td>
<td></td>
<td>12</td>
<td>28533.69</td>
<td>3424004.28</td>
</tr>
<tr>
<td>9</td>
<td>Provision of First charge of ammonia and oil 68 No. freeze oil for initial temperature as required and maintained for one year.</td>
<td></td>
<td></td>
<td></td>
<td>374500</td>
</tr>
<tr>
<td>10</td>
<td>Black and GI pipes of different sizes for the completion of water and gas lines and for inter connection of entire plant with suction discharge and liquid lines.</td>
<td></td>
<td></td>
<td></td>
<td>535000</td>
</tr>
<tr>
<td>11</td>
<td>Sundry material such as gaskets, thread seals, packing sheets, nut bolts, water valves, flanges, V-belts and other required equipments complete as required for various plant and machinery for 5000 mt capacity.</td>
<td></td>
<td></td>
<td></td>
<td>214000</td>
</tr>
<tr>
<td>12</td>
<td>Providing Energy Recovery wheel in each chamber of 1547Mt each, 02 nos, suitable for 04 air changes in a day. Danfoss/Manik/Any ISI make as per NHB norms and Standards.</td>
<td></td>
<td></td>
<td></td>
<td>428000</td>
</tr>
<tr>
<td>13</td>
<td>Equipment for Co2 gas removal suitable for 02 chambers of 1547MT each to hold the co2 level 2000PPM as per NHB Norms and Standards.</td>
<td></td>
<td></td>
<td></td>
<td>1391000</td>
</tr>
<tr>
<td>14</td>
<td>Providing Freon plant for Four chambers of 52 MT each with evaporators and condensing units complete with pipe line, pipeline insulation suitable for heat load of 28.15KW at peak load, complete with installation and commissioning with electrification.</td>
<td></td>
<td></td>
<td></td>
<td>3638000</td>
</tr>
<tr>
<td>15</td>
<td>Load cell based Weight Monitoring system all complete with remotr disply</td>
<td></td>
<td>6</td>
<td>50000</td>
<td>300000</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>13563726</strong></td>
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</tbody>
</table>
## SUMMARY - SAMBALPUR -5000 MT

**Name of Work** :-Construction of Multi Chamber Multi Commodity Cold Storage  
Nominal Capacity -5000 M.T. At SAMBALPUR, RMC, Odisha

<table>
<thead>
<tr>
<th>PART</th>
<th>PARTICULARS</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PART-1</td>
<td>Civil Work</td>
<td>Rs. 39226579</td>
</tr>
<tr>
<td>PART-2</td>
<td>Civil Work (Steel Structural Work)</td>
<td>Rs. 31332671</td>
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<tr>
<td>PART-3</td>
<td>Plumbing &amp; Sanitary Works (P.H.)</td>
<td>Rs. 1616924</td>
</tr>
<tr>
<td>PART-4</td>
<td>Insulation Work (E.I.)</td>
<td>Rs. 11369291</td>
</tr>
<tr>
<td>PART-5</td>
<td>DG SET (E.I.)</td>
<td>Rs. 875000</td>
</tr>
<tr>
<td>PART-6</td>
<td>Electrification (E.I.)</td>
<td>Rs. 3724789</td>
</tr>
<tr>
<td>PART-7</td>
<td>Fire Fighting Work (E.I.)</td>
<td>Rs. 2657706</td>
</tr>
<tr>
<td>PART-8</td>
<td>LIFT (E.I.)</td>
<td>Rs. 952300</td>
</tr>
<tr>
<td>PART-9</td>
<td>Plant Machinery</td>
<td>Rs. 13563726</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>Rs. 105318986</strong></td>
</tr>
<tr>
<td>Sr.No.</td>
<td>Particulars</td>
<td>Unit</td>
</tr>
<tr>
<td>-------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>1</td>
<td>Earth work in ordinary soil within 50m, initial lead and 1.5m initial lift including rought dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer- in-charge.</td>
<td>cum</td>
</tr>
<tr>
<td>2</td>
<td>Earth work in Hard soil within 50m, initial lead and 1.5m initial lift including rought dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer- in-charge.</td>
<td>cum</td>
</tr>
<tr>
<td>3</td>
<td>Extra Lift of 1.5m or part there of over the initial lift of 1.5m in all kinds of embankments and road work and ordinary earth work in general.</td>
<td>cum</td>
</tr>
<tr>
<td>4</td>
<td>Back filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m and lift upto 1.5m.</td>
<td>cum</td>
</tr>
<tr>
<td>5</td>
<td>Supplying &amp; Filling foundation trenches , plinth &amp; ditches with clean course river sand well watered and rammed in layers not exceeding 23 c.m. in depth with all lead and lift including cost, conveyance, loading, unloading, stacking,royalties and all taxes of sand,cost &amp; conveyance of water, cost of all Labour,labour cess,T&amp;P required for the work etc. complete in all respect as directed by the Engineer- in-charge.</td>
<td>cum</td>
</tr>
</tbody>
</table>
**Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At SAMBALPUR, RMC, Odisha**

### ABSTRACT FOR CIVIL WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Providing and laying Plain cement concrete of proportion (1:4:8) using 4cm size metal etc. in foundation and floors using cement, 40mm. Size crusher broken H.G. Metal and screened and washed sharp river sand for mortar of approved quality and from approved quarry including hoisting, lowering and laying concrete to the required level, ramming, watering and curing etc. complete to required levels, laid in layers not exceeding 15cm thick in each layer including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P required for the work including shoring, shuttering and dewatering (if required) including hire and running charges of water pump required for the work etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td>cum</td>
<td>291.513</td>
<td>3933.4</td>
<td>1146637.234</td>
</tr>
<tr>
<td>7</td>
<td>Providing and laying in position ready mixed M-25 grade concrete having compressive strength at 28 days test not less than 250 kg/sq.cm for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/retard setting of concrete, and hoisting, lowering, laying and compacting concrete, watering and curing and finishing the exposed surfaces smooth with cost, conveyance, royalties, taxes of all materials with all labour, Labour cess and T&amp;P required for the work improve workability without impairing strength and durability as per direction of the Engineer-in-charge.</td>
<td>Cu mt</td>
<td>1079.834</td>
<td>5502.1</td>
<td>5941353.856</td>
</tr>
</tbody>
</table>

Sign and stamp of EPIL

Sign and stamp of bidder
**Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At SAMBALPUR, RMC, Odisha**

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>b</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Cu mt</td>
<td>56.798</td>
<td>5555.3</td>
<td>315529.9294</td>
</tr>
<tr>
<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Cu mt</td>
<td>468.623</td>
<td>5616.5</td>
<td>263202.2484</td>
</tr>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Cu mt</td>
<td>112.322</td>
<td>5686.9</td>
<td>638763.9818</td>
</tr>
<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Cu mt</td>
<td>112.322</td>
<td>5767.9</td>
<td>647862.0638</td>
</tr>
<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Cu mt</td>
<td>89.046</td>
<td>5861</td>
<td>521898.606</td>
</tr>
<tr>
<td>8</td>
<td>Rigid &amp; smooth centering &amp; shuttering for R.C.C. works including false works with all necessary bracing and tiles and supports with leveling centering covered with plastic sheet with provisions for necessary holes and pockets for electrical conduits, pipes, P.H. pipes, for hooks or boxes, switch and board insert plates, clamps and extension bars etc., including dismantling the same after the required interval from the date of casting including cost of all materials, labour, Labour cess, conveyance, loading and unloading, taxes, royalties, scaffolding, watering, curing, sundries, tools and plants, etc., complete as per the direction of the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>RCC Foundation and Plinth</td>
<td>Sqm.</td>
<td>2459.98</td>
<td>100.6</td>
<td>247473.9679</td>
</tr>
<tr>
<td>b</td>
<td>RCC Beam, Column, Grider &amp; bresamer etc.</td>
<td>Sqm.</td>
<td>770.0356</td>
<td>523.9</td>
<td>403421.6508</td>
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<tr>
<td></td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>2585.407</td>
<td>628.5</td>
<td>1624928.3</td>
</tr>
<tr>
<td></td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>517.3</td>
<td>754.2</td>
<td>390147.66</td>
</tr>
<tr>
<td></td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>517.3</td>
<td>905</td>
<td>468156.5</td>
</tr>
<tr>
<td></td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>354.72</td>
<td>1086</td>
<td>385225.92</td>
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<tr>
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<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>9</td>
<td>364.6</td>
<td>3281.4</td>
</tr>
<tr>
<td>c</td>
<td>RCC Roof slab, Landing, Balcony &amp; chajja etc.</td>
<td>Sqm.</td>
<td>1176.41</td>
<td>437.5</td>
<td>514679.375</td>
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<tr>
<td></td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>525</td>
<td>0</td>
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<tr>
<td></td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>630</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>756</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>242.3</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>597.81</td>
<td>290.8</td>
<td>173843.148</td>
</tr>
</tbody>
</table>

**Sign and stamp of EPIL**

4

**Sign and stamp of bidder**
<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>597.81</td>
<td>348.9</td>
<td>208575.909</td>
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<tr>
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<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>597.81</td>
<td>418.7</td>
<td>250303.047</td>
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<tr>
<td></td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>622.44</td>
<td>502.5</td>
<td>312776.1</td>
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<tr>
<td></td>
<td>e RCC Wall and Fin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>468.1</td>
<td>0</td>
</tr>
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<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>562</td>
<td>0</td>
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<tr>
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<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>674.1</td>
<td>0</td>
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<tr>
<td></td>
<td>f RCC Stairs excluding Landing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>20</td>
<td>438.8</td>
<td>8776</td>
</tr>
<tr>
<td></td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>20</td>
<td>526.5</td>
<td>10530</td>
</tr>
<tr>
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<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>20</td>
<td>631.8</td>
<td>12636</td>
</tr>
<tr>
<td></td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>20</td>
<td>758.2</td>
<td>15164</td>
</tr>
<tr>
<td></td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>20</td>
<td>909.8</td>
<td>18196</td>
</tr>
</tbody>
</table>

9. Cutting, straightening coiled or bent up HYSD/TMT Reinforcement Bars welding or jointing if necessary, bending, binding, tying the grills as required for R.C.C. works, providing Fan Hooks where necessary and hoisting, lowering and placing the same in proper position according to the approved designs and drawings in all floors including cost, conveyance, loading, unloading and taxes or HYSD/TMT Reinforcement Bars and Binding wires of 18 to 20 gauge required for the work cost of all labour, T&P and scaffolding complete in all respect as directed by the Engineer-in-charge (Payment will be made according to the actual/proper weight of HYSD/TMT Reinforcement Bars and Binding wires consumed in the particular work only)

<table>
<thead>
<tr>
<th></th>
<th>Up to Plinth Level</th>
<th>KG</th>
<th>104893.7</th>
<th>60.34</th>
<th>6329283.437</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>KG</td>
<td>6815.76</td>
<td>60.485</td>
<td>412251.2436</td>
</tr>
<tr>
<td>b</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>KG</td>
<td>51833.38</td>
<td>60.637</td>
<td>3143020.511</td>
</tr>
<tr>
<td>c</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>KG</td>
<td>13478.64</td>
<td>60.797</td>
<td>819460.8761</td>
</tr>
<tr>
<td>d</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>KG</td>
<td>13478.64</td>
<td>60.965</td>
<td>821725.2876</td>
</tr>
<tr>
<td>e</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>KG</td>
<td>10685.52</td>
<td>61.141</td>
<td>653323.3783</td>
</tr>
</tbody>
</table>
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At SAMBALPUR, RMC, Odisha

### ABSTRACT FOR CIVIL WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Fly Ash Brick Masonry in cement mortar of mix (1:6) using Fly Ash bricks of size 25 c.m x 12 c.m x 8 c.m in Foundation, Plinth &amp; super structure having crushing strength not less than 75 kg per square c.m. with cement and screened &amp; washed sharp sand for mortar after immersing the bricks for 6 (Six) hours in water before use in works with all necessary projections, splays cutting, circular moulding, corbelling, chamfering, watering and curing etc. including cost, conveyance, stacking, loading, unloading, royalties, all taxes, cost of all labour, Labour cess, scaffolding, sundries and T&amp;P required for the works etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>a</td>
<td>Up to Plinth Level</td>
<td>Cum.</td>
<td>93.5625</td>
<td>3929.7</td>
<td>367672.5563</td>
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<tr>
<td>b</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Cum.</td>
<td>321.0613</td>
<td>3963</td>
<td>1272365.734</td>
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<tr>
<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Cum.</td>
<td>157.325</td>
<td>4125.9</td>
<td>649107.2175</td>
</tr>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Cum.</td>
<td>149.45</td>
<td>4313.2</td>
<td>644607.74</td>
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<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Cum.</td>
<td>157.325</td>
<td>4528.7</td>
<td>712477.7275</td>
</tr>
<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Cum.</td>
<td>94.07</td>
<td>4776.4</td>
<td>449315.948</td>
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<tr>
<td></td>
<td>Providing 12mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement &amp; screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary) including watering and curing, rounding of corners etc. complete with cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P, sundries and scaffolding required for the work etc. as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>a</td>
<td>Plinth Level</td>
<td>sqm</td>
<td>483.912</td>
<td>95.6</td>
<td>46261.9872</td>
</tr>
<tr>
<td>b</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>sqm</td>
<td>856.56</td>
<td>98.7</td>
<td>84542.472</td>
</tr>
</tbody>
</table>

Sign and stamp of EPIL 6

Sign and stamp of bidder
Name of Work: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At SAMBALPUR, RMC, Odisha

### ABSTRACT FOR CIVIL WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
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<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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<tbody>
<tr>
<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>sqm</td>
<td>701.64</td>
<td>101.9</td>
<td>71497.116</td>
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<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>sqm</td>
<td>687.36</td>
<td>105.4</td>
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<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>sqm</td>
<td>671.16</td>
<td>109</td>
<td>73156.44</td>
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<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>sqm</td>
<td>620.64</td>
<td>112.8</td>
<td>70008.192</td>
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</table>

Providing 16mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement & screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary)including watering and curing, rounding of corners etc. complete with cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&P, sundries and scaffolding required for the work etc. as directed by the Engineer-in-charge.

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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<tbody>
<tr>
<td>a</td>
<td>Plinth Level</td>
<td>Sqm</td>
<td>0</td>
<td>140.3</td>
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<tr>
<td>b</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>sqm</td>
<td>1491.032</td>
<td>143.4</td>
<td>213813.9888</td>
</tr>
<tr>
<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm</td>
<td>1730.842</td>
<td>146.5</td>
<td>253568.353</td>
</tr>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm</td>
<td>628.32</td>
<td>149.6</td>
<td>93996.672</td>
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<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm</td>
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<td>152.9</td>
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<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm</td>
<td>578.28</td>
<td>156.3</td>
<td>90385.164</td>
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</table>
**Name of Work**: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At SAMBALPUR, RMC, Odisha

### ABSTRACT FOR CIVIL WORK

<table>
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<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
</table>

#### Painting 2 (Two) or more coats with Weather Coat Paint of premium brand Such as Asian/ Berger/ ICI paints or equivalent of approved quality & colour, using required quantities of paint as specified by the manufacturer to give an even shade over a coat of wall priming (water based) on the finished external plastered surface at all height, watering the surface before applying the Weather Coat Paint and curing for the required period including cost, conveyance, loading, unloading, stacking and all taxes, cost of all Labour, Labourcess, Sundries, Scaffolding, Staging and T&P etc. required for the work complete in all respect as directed by the Engineer-in-charge.

<p>| | | | | |</p>
<table>
<thead>
<tr>
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<tr>
<td>a</td>
<td>Upto Plinth Level</td>
<td>Sqm</td>
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<td>b</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
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<tr>
<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>701.64</td>
<td>107.4</td>
</tr>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>687.36</td>
<td>110.7</td>
</tr>
<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>671.16</td>
<td>114.2</td>
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<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>620.64</td>
<td>117.5</td>
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</tbody>
</table>

#### Priming one coat over with any approved primer including cost of material & labour For Plastere Surface with water bond Cement primer

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<table>
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<tbody>
<tr>
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<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
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<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
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<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
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<tr>
<td>Sr.No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
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<td>-----------------------------------------------------------------------------</td>
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<td>-----</td>
<td>------</td>
</tr>
<tr>
<td>15</td>
<td>Priming one coat over with any approved primer including cost of material &amp; labour For Iron work</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a Forth Floor</td>
<td>Sqm.</td>
<td>0</td>
<td>40</td>
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<tr>
<td>16</td>
<td>Wall painting two coats with plastic emulsion paint of approved quality colour at all heights to the interior surface of the wall to make an even finished surface including sand papering, applying putty wherever necessary including cost, conveyance, loading, unloading, stacking, all taxes, cost of all Labour, Labour cess, scaffoldings, staging, sundries, T&amp;P etc. required for the work complete as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>1491.032</td>
<td>180</td>
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<td>b First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>1730.842</td>
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<tr>
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<td>c Second Floor Level (7.0mtr to 10.5mtr)</td>
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<td>186.5</td>
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<td>189.9</td>
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<td>e Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>578.28</td>
<td>193.5</td>
</tr>
<tr>
<td>17</td>
<td>Finishing wall surface of walls with Acrylic wall putty (water based) of approved make and finished smooth and even surface to receive painting including cost, conveyance, taxes of all materials, cost of all Labour, Labour cess, scaffoldings, staging, sundries, T&amp;P etc. required for the work complete as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>74.28</td>
</tr>
<tr>
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<td>b First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>75.092</td>
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<td>c Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>75.932</td>
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<td>d Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>76.792</td>
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<td>e Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>0</td>
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</tr>
<tr>
<td>Sr. No.</td>
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<td>Rate</td>
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<tr>
<td>---------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------</td>
<td>-----</td>
<td>-----------</td>
</tr>
<tr>
<td>18</td>
<td>Brick on edge flooring using fly ash brick flat over one brick flat set in cement mortal (1:8)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>a</td>
<td>Ground Floor</td>
<td>Sqm</td>
<td>979.8</td>
<td>832.8566</td>
</tr>
<tr>
<td>19</td>
<td>Cement concrete flooring grade 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate) rounding off edges etc. but excluding the cost of nosing of steps etc. complete : 75 mm thick with 20 mm thick nominal size aggregate.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Ground Floor</td>
<td>Sqm</td>
<td>0</td>
<td>237.16</td>
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<tr>
<td>20</td>
<td>Providing and fixing steel glazed doors windows and ventilator shutters of standard rolled steel section joints mitred and welded with steel lugs 13 x 3 mm, 10 cm. long embedded in cement concrete block 15 x 10 x 10 cm. of 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws with fixing clips or with bolts and nuts as required including providing and fixing of plain glass panes 4 mm thick with copper glazing clips and special metal sash putty of approved make or metal beading with screws complete including priming coat of approved steel primer, excluding the cost of metal beading and other fitting except necessary hinges of pivots steel handles peg stay etc. as required : Windows side hung (openable)</td>
<td>Sqm</td>
<td>1.28</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge 0.50mm (+0.05%) total coated thickness with zinc coating 120grams per sqm as per IS:227, in 240mpa steel grade, 5-7 microns.</td>
<td>Sqm</td>
<td>1354.358</td>
<td>597.2311</td>
</tr>
<tr>
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<td><strong>TOTAL</strong></td>
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<td>Qty</td>
<td>Rate</td>
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<td>------</td>
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<td>------</td>
</tr>
<tr>
<td>1</td>
<td>Supplying, fabricating and erection of steel work in built up tubular hollow hot finished welded type steel tubes for trusses or frame works, etc using round, square or rectangular hollow tubes including cutting, hoisting and fixing in position and applying a prime coat of approved steel</td>
<td>Kg.</td>
<td>178336</td>
<td>79</td>
</tr>
<tr>
<td></td>
<td>(i) Hoising of Trusses and Placing in Position</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Supplying, fabricating &amp; fixing of Structural steel items made out of channels, angles, flats, plates, chequered plates I Section, Beam, Hollow Section any type of frame, space frame, gates, atrium in top, truss, purlins, columns, beams</td>
<td>Kg.</td>
<td>218280.1</td>
<td>79</td>
</tr>
<tr>
<td></td>
<td>(i) Hoising of Trusses and Placing in Position</td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
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Name of Work :-Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At SAMBALPUR, RMC, Odisha

**ABSTRACT FOR STRUCTURAL WORK**
## ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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<tr>
<td><strong>PART 3</strong> PLUMBING &amp; SANITARY</td>
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<td></td>
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<tr>
<td>1</td>
<td>Providing all materials, labour, T&amp;P for fitting and fixing white glazed vitreous china floor mounted water closet (European pattern) 'P' or 'S' type of approved make, As per IS-2556 with ISI mark, including supply of suitable PVC wall plug and Brass screws etc. all complete including cost of PVC seat cover (solid) with hinges &amp; rubber buffers etc all complete including cost, taxes and conveyance as per specification all complete as per direction of Engineer-in-charge. Make (No.C0297(S)Trap+C0278(P)Trap(Elite)Hindware</td>
<td>SET</td>
<td>1</td>
<td>3455.5</td>
<td>3455.5</td>
</tr>
<tr>
<td>2</td>
<td>Providing all materials, labour, and T&amp;P for fitting and fixing of 10 liter capacity PVC low level cistern complete with all internal fittings of approved make as per IS-7231 with ISI mark and Providing of necessary PVC wall plug, screws and 15mm dia PVC connection pipe with union at both end ,including testing etc. all complete as per specification &amp; direction of Engineer-in-charge. Make : HINDWARE/CERA/PARRYWARE</td>
<td>No</td>
<td>1</td>
<td>1460.9</td>
<td>1460.9</td>
</tr>
<tr>
<td>3</td>
<td>Supply all materials and labour for fitting and fixing of 550x400mm white glazed vitreous china wash hand basin of approved make with supply &amp; fixing of 32mm CP waste,15mm dia PVC water connection pipe, basin bolts &amp; Nuts of approved quality including cutting the walls &amp; floor and making good the damages with cement concrete (1:2:4) etc. with all taxes, duties, transportation etc. all complete as per direction of EIC. (Make (No.C0460 Basin(550x400m)Papular(Hindware)</td>
<td>SET</td>
<td>2</td>
<td>3770.2</td>
<td>7540.4</td>
</tr>
<tr>
<td>4</td>
<td>Supplying all materials and labour, T&amp;P for fitting and fixing of 590mm x 390mm x 375mm white glazed vitreous china Half stall front standing urinal basin as per IS-2556 with ISI mark along with supply &amp; fixing of necessary component parts like pair of C.I./M.S. bracket including all taxes,duties, transportation etc.with all complete fittings as per specification &amp; direction of the Engineer-in-charge. (Make No.C0575+C8095(White)Hindware.</td>
<td>SET</td>
<td>2</td>
<td>4704.1</td>
<td>9408.2</td>
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<td>Unit</td>
<td>Qty</td>
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</tr>
<tr>
<td>5</td>
<td>Providing all materials, labour, T&amp;P for fitting and fixing of 20mm thick white marble partition for urinal of following sizes including cutting, edge moulding, both side polishing including fixing on the wall after groove cutting &amp; making good the damages. The cost inclusive of all taxes, transportation etc. all complete as per specification &amp; direction of Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Marble partition Size-2x0.90x0.75=1.35</td>
<td>Sqmt</td>
<td>1.35</td>
<td>2570.7</td>
<td>3470.445</td>
</tr>
<tr>
<td>6</td>
<td>Providing all materials, labour, T&amp;P for fixing of 600x450mm bevelled edge mirror of 5mm thick mounted on 4mm thick A C back sheet &amp; CP cup screw with PVC wall plugs including cost, conveyance, taxes of all materials complete as per specification and direction of E.I.C.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>NO 2</td>
<td></td>
<td>2</td>
<td>654.4</td>
<td>1308.8</td>
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<tr>
<td>7</td>
<td>Supplying all materials, labour, T&amp;P and fixing standard sized CP towel rail complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge</td>
<td></td>
<td>1</td>
<td>955.4</td>
<td>955.4</td>
</tr>
<tr>
<td>8</td>
<td>Supplying all materials, labour, T&amp;P and fixing standard sized glass-shelf with CP brass brackets and guard rails complete fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge</td>
<td></td>
<td>1</td>
<td>569.9</td>
<td>569.9</td>
</tr>
<tr>
<td>9</td>
<td>Providing and fixing 15mm dia CP bib cock long body(Jaquar make)</td>
<td></td>
<td>1</td>
<td>1179.4</td>
<td>1179.4</td>
</tr>
<tr>
<td>10</td>
<td>Providing and fixing 15mm dia CP angular stop cock(Jaquar make)</td>
<td></td>
<td>5</td>
<td>840.3</td>
<td>4201.5</td>
</tr>
<tr>
<td>11</td>
<td>Providing and fixing Health Faucet with 1m long PVC tube &amp; wall hook(Jaquar make)</td>
<td></td>
<td>1</td>
<td>1742.3</td>
<td>1742.3</td>
</tr>
<tr>
<td>12</td>
<td>Providing and fixing 15mm dia CP two way bib cock(Jaquar make)</td>
<td></td>
<td>1</td>
<td>1179.4</td>
<td>1179.4</td>
</tr>
<tr>
<td>13</td>
<td>Providing and fixing 15mm dia pillar cock(Jaquar make)</td>
<td></td>
<td>2</td>
<td>871.2</td>
<td>1742.4</td>
</tr>
<tr>
<td>14</td>
<td>Providing and fixing Robe Hook(Jaquar make)</td>
<td></td>
<td>1</td>
<td>348.5</td>
<td>348.5</td>
</tr>
<tr>
<td>15</td>
<td>Providing and fixing soap case(Jaquar make)</td>
<td></td>
<td>2</td>
<td>1016.3</td>
<td>2032.6</td>
</tr>
<tr>
<td>16</td>
<td>Providing and fixing 32mm CP Bottle Trap(Jaquar make)</td>
<td></td>
<td>4</td>
<td>1451.9</td>
<td>5807.6</td>
</tr>
<tr>
<td>17</td>
<td>Supplying all materials, labour &amp; fitting and fixing 125mm dia stainless steel gratting on top of floor traps with white cement all complete in all floors, as per technical specification and direction of Engineer-in-charge.</td>
<td></td>
<td>4</td>
<td>83.8</td>
<td>335.2</td>
</tr>
</tbody>
</table>
**Name of Work** :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At SAMBALPUR, RMC, Odisha

**ABSTRACT FOR PLUMBING & SANITARY WORK**

<table>
<thead>
<tr>
<th>Sr.No.</th>
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</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>Providing all materials, labour, T&amp;P for laying of following nominal dia UPVC pipes as per IS- 4985 with ISI mark including fixing of required size UPVC fittings like, bend, Tee, elbow, offsets, etc. and the same fixed on wall or floor with holder bat clamps screw etc. including testing the joints with required water pressure. The cost inclusive of all taxes, duties, transportation scaffolding etc. as per specification and direction of Engineer-in-charge. Make : Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. 40mm dia</td>
<td>RM</td>
<td>25</td>
<td>362.2</td>
<td>9055</td>
</tr>
<tr>
<td></td>
<td>b. 50mm dia</td>
<td>RM</td>
<td>20</td>
<td>420.7</td>
<td>8414</td>
</tr>
<tr>
<td>19</td>
<td>Providing and fixing on wall face unplasticised Rigid PVC soil, waste water pipes conforming to IS:13592 Type-B, including jointing with seal-ring conforming to IS:5382, Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. 110mm dia</td>
<td>RM</td>
<td>50</td>
<td>330.9</td>
<td>16545</td>
</tr>
<tr>
<td>20</td>
<td>Providing and fixing on wall face unplasticised Rigid PVC for rain water pipes conforming to IS:13592 Type-A, including jointing with seal-ring conforming to IS:5382, Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. 110mm dia</td>
<td>RM</td>
<td>100</td>
<td>330.9</td>
<td>33090</td>
</tr>
<tr>
<td></td>
<td>b. 160mm dia</td>
<td>RM</td>
<td>100</td>
<td>717.3</td>
<td>71730</td>
</tr>
<tr>
<td>21</td>
<td>Supplying all materials, labour, T&amp;P, fitting and fixing of following dia UPVC SWR fittings of approved make confirming to IS-14735 with all taxes, duties, transportation &amp; requisite testing as per specification &amp; direction of Engineer-in-charge. Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. 110mm x 110mm P trap</td>
<td>NO</td>
<td>3</td>
<td>273.8</td>
<td>821.4</td>
</tr>
<tr>
<td></td>
<td>b. 110mm WC Connector/ Bend with lip ring</td>
<td>NO</td>
<td>1</td>
<td>228</td>
<td>228</td>
</tr>
<tr>
<td></td>
<td>c. 110mm dia Plain Bend 87.5 deg</td>
<td>NO</td>
<td>2</td>
<td>100.2</td>
<td>200.4</td>
</tr>
<tr>
<td></td>
<td>d. 160mm dia Plain Bend 87.5 deg</td>
<td>NO</td>
<td>2</td>
<td>312</td>
<td>624</td>
</tr>
<tr>
<td></td>
<td>e. 110mm dia Plain Bend 45 deg</td>
<td>NO</td>
<td>4</td>
<td>100.2</td>
<td>400.8</td>
</tr>
<tr>
<td></td>
<td>f. 160mm dia Plain Bend 45 deg</td>
<td></td>
<td></td>
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</tbody>
</table>
**Name of Work** :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At SAMBALPUR, RMC, Odisha

**ABSTRACT FOR PLUMBING & SANITARY WORK**

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</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>Providing all materials, labour, T&amp;P for laying in trenches of following nominal dia UPVC pipes (Sch-80) as per IS-ASTMD-1785 with ISI mark including fixing of required size fittings like bend, Tee, elbow, offsets etc. &amp; testing the joints with required water pressure. The cost inclusive of all taxes, duties, transportation scaffolding etc. as per specification and direction of Engineer-in-charge. Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>362.2</td>
<td>1811</td>
</tr>
<tr>
<td>a</td>
<td>40mm Dia</td>
<td>metre</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b</td>
<td>50mm Dia</td>
<td>metre</td>
<td>150</td>
<td>452.75</td>
<td>67912.5</td>
</tr>
<tr>
<td>23</td>
<td>Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes SDR-13.5 conforming to IS: 15778, having thermal stability for hot &amp; cold water supply, including all CPVC plain &amp; brass threaded fittings including fixing the pipes with clamps at 1.00 m spacing. The includes jointing of pipes &amp; fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>25mm Dia</td>
<td>metre</td>
<td>20</td>
<td>186</td>
<td>3720</td>
</tr>
<tr>
<td>b</td>
<td>20mm Dia</td>
<td>metre</td>
<td>20</td>
<td>145.2</td>
<td>2904</td>
</tr>
<tr>
<td>24</td>
<td>Supplying all materials, labour, T&amp;P fitting and fixing of different size brass upvc ASTMD-1785, sch-80 ball valve Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>25mm dia ball valve</td>
<td>No</td>
<td>1</td>
<td>336.7</td>
<td>336.7</td>
</tr>
<tr>
<td>b</td>
<td>50 mm dia ball Valve</td>
<td>No</td>
<td>6</td>
<td>1260</td>
<td>7560</td>
</tr>
<tr>
<td>25</td>
<td>Supplying and fixing in position approved make bronze vertical non return valve(screwed) of approved make to IS: 778, Make: Zoloto/Leader/Shakti</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>50 mm dia</td>
<td>No</td>
<td>6</td>
<td>909</td>
<td>5454</td>
</tr>
<tr>
<td>26</td>
<td>Fixing Rotational moulded polyethylene cylindrical vertical water storage tanks conforming to IS:12701-1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc, including hoisting up to a height of 5 metres above ground level and placing the tank to the required position and construction of required staging etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td>362.2</td>
<td>1811</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>452.75</td>
<td>67912.5</td>
</tr>
</tbody>
</table>

Sign and stamp of EPIL

15

Sign and stamp of bidder
**Name of Work:** Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At SAMBALPUR, RMC, Odisha

### ABSTRACT FOR PLUMBING & SANITARY WORK

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</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>2000 litre capacity Double Layer Cylindrical Vertical water storage tanks</td>
<td>No</td>
<td>4</td>
<td>28973.2</td>
<td>115892.8</td>
</tr>
<tr>
<td>27</td>
<td>Cutting holes for taking 100mm dia PVC pipes through 250mm thick wall</td>
<td>No</td>
<td>8</td>
<td>133.4</td>
<td>1067.2</td>
</tr>
<tr>
<td>28</td>
<td>Supplying all materials, joining materials, labour and T&amp;P and laying UPVC Foam core pipe as per IS:16098 sn-4 for underground rain water pipe and sewer Make: ASTRAL/ASHIRVAD</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>110mm Nominal Dia pipe</td>
<td>metre</td>
<td>35</td>
<td>369.7</td>
<td>12939.5</td>
</tr>
<tr>
<td>b</td>
<td>160mm Nominal Dia pipe</td>
<td>metre</td>
<td>40</td>
<td>739.2</td>
<td>29568</td>
</tr>
<tr>
<td>c</td>
<td>200mm Nominal Dia pipe</td>
<td>metre</td>
<td>13</td>
<td>956.4</td>
<td>12433.2</td>
</tr>
<tr>
<td>29</td>
<td>Providing and laying in trench cement concrete (1:3:6) with 40mm size hard granite metal in the following type of bedding for upvc pipes of the following internal diameter including curing complete as per specification</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>110mm Nominal Dia pipe</td>
<td>metre</td>
<td>35</td>
<td>560.6</td>
<td>19621</td>
</tr>
<tr>
<td>b</td>
<td>160mm Nominal Dia pipe</td>
<td>metre</td>
<td>40</td>
<td>794.7</td>
<td>31788</td>
</tr>
<tr>
<td>c</td>
<td>200mm Nominal Dia pipe</td>
<td>metre</td>
<td>13</td>
<td>990.5</td>
<td>12878</td>
</tr>
<tr>
<td>30</td>
<td>Supplying all materials, labour, T&amp;P and constructing gully trap chamber of the following inside size with 8cm thick R.C.C precast cover slab in cement concrete (1:2:4) mix using 12mm size h.g chips, foundation concrete (1:4:8) using 40mm size hard granite metal on bed and around trap, K.B brickwork in c.m (1:6) in F&amp;P and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mmx100mm size HCl gully trap, 150mmx150mm size C.I grating etc all complete as per approved drawing, specification and direction of the Engineer in charge-Gully trap chamber of size 250mmx250mm with R.C.C cover slab</td>
<td>No</td>
<td></td>
<td>1253.7</td>
<td>1253.7</td>
</tr>
<tr>
<td>Sr.No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
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<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------</td>
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<td>--------</td>
</tr>
<tr>
<td>31</td>
<td>Supplying all materials, labour, T&amp;P and constructing man hole chamber of the following size with cement concrete (1:3:6) using 40mm size hard granite metal on bed, 1st class K.B brickwork in cement mortar (1:6), moulding and shaping the channel inside and benching with cement concrete (1:2:4) using 12mm size h.g chips, 12mm thick cement plaster (1:3) with punning to inside, cement flush pointing (1:3) to outside, R.C.C cover slab in (1:2:4) using 12mm size h.g chips with RCC man hole cover, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge.</td>
<td>910mm</td>
<td>10</td>
<td>13773.1</td>
<td>137731</td>
</tr>
<tr>
<td>32</td>
<td>Supplying all materials, labour, T&amp;P and constructing soakway pit of the following size with precast RCC rings joined loose, gravel backing in the rear of well steining, precast RCC cover slab in cement concrete (1:2:4) using 12mm size h.g chips fitted with iron lifting handles including cutting hole in the rings for inlet pipe, earthwork in open well excavation in all kinds of soil and refilling of cavity around the pit &amp; painting the iron works, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge - RCC rings soakway pit 1.22m dia x 2.10m deep</td>
<td>No</td>
<td>2</td>
<td>12873.4</td>
<td>25746.8</td>
</tr>
<tr>
<td>33</td>
<td>Supplying, installing, testing and commissioning of Non clog self priming centrifugal pump .electric motor. The pump shall have cast iron delivery casting, cast iron impeller SS Shaft. Pump shall be provided with mechanical seal (gland packing). The pump shall be suitable for auto/ manual operation all complete, including cost, convenance, taxes, T &amp; P etc complete as per direction of Engineer-in-charge.</td>
<td>No</td>
<td>2</td>
<td>10000</td>
<td>20000</td>
</tr>
</tbody>
</table>

Name of Work: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At SAMBALPUR, RMC, Odisha
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Flow rate= 185 lit/min each pump</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Head= 15 mtr</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Single- phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Motor HP=1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1SET ( 1 WORKING + 1 STAND BY)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Providing, fitting &amp; fixing pvc rung 200 mm X 300mm Step Iron (inside u.g.r.)etc. all complete as per direction of Engineer-in-charge.</td>
<td>No</td>
<td>20</td>
<td>179.7</td>
<td>3594</td>
</tr>
<tr>
<td>35</td>
<td>supplying fixing GI half round rain water gutter under the sloped roofs including providing necessary nuts and bolts, protection bar etc., complete as per the direction of the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>200 mm dia half round gutter</td>
<td>rm</td>
<td>115</td>
<td>1100</td>
<td>126500</td>
</tr>
<tr>
<td>b</td>
<td>150 mm dia half round gutter</td>
<td>rm</td>
<td>115</td>
<td>900</td>
<td>103500</td>
</tr>
<tr>
<td></td>
<td>BORE WELL(Production well)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>36</td>
<td>Labour for drilling a perfectly bore hole for specified dia for specified depth below G.L through consolidated and unconsolidated rocks with fast drilling sophisticated DTH/combination rig to suit the site condition as per the direction of the Engineer-in-charge including use of own Rigs with it accessories, T&amp;P consumables etc., for lowering of 200mm dia GI/PVC pipe for housing fitted with socket and with or without well screen as per necessity for soft, medium, hard &amp; boulder formation (GI/PVC/MS casing pipe if required to prevent collapse of over burden is to be provided by the contractor including lowering and withdrawing after completion of Tube well) 200mm dia to 400mm dia in overburden portion including packing of gravel supplied by the contractor for 400mm dia bore only.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a) 200 mm dia</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1) 0 Mtr to 80 Mtr</td>
<td>Each Mtr</td>
<td>80</td>
<td>657</td>
<td>52560</td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>Lowering the following size of G.I. /PVC/MS housing pipe with or without slotted pipes as per the necessity from ground level up to 45mtr depth fitted and fixed up in perfectly vertical position including cutting &amp; threading of pipes &amp; slotted pipes &amp; supplying &amp; fixing all jointing materials, tools &amp; plant etc. all complete &amp; keeping the top of casing pipe threaded including plugging tube-wells to prevent entry of foreign materials and keeping the casing pipe 1.00mtr above GL.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sr.No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
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<tr>
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<td>----------------------------------------------------------------------------</td>
<td>------------</td>
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<td>----------</td>
</tr>
<tr>
<td>38</td>
<td>Cleaning and developing the tube well with their own compressor continuously worked till clear and adequate discharge is obtained from the tube well including supply and use of all necessary equipment and labour as per direction of Engineer-in-charge.</td>
<td>Each No</td>
<td>1</td>
<td>4919</td>
<td>4919</td>
</tr>
<tr>
<td>39</td>
<td>Providing, fitting and laying of HDPE pipe with supply of all materials all complete as per PH specification &amp; direction of Engineer-in-charge. (MAKE: ORIPLAST)</td>
<td>Each No</td>
<td>1</td>
<td>4919</td>
<td>4919</td>
</tr>
<tr>
<td>40</td>
<td>a) 50mm dia HDPE pipe (working pressure 0.8MPA)</td>
<td>Each Mtr</td>
<td>70</td>
<td>210</td>
<td>14700</td>
</tr>
<tr>
<td>41</td>
<td>Supplying all materials, labour, T&amp;P for fitting and fixing of required control panel including DOL starter with indicator 32 Amp TPN main switch including connection, installation etc. all complete as per specification &amp; direction of Engineer-in-charge. (Model no: BEI-SSD2045*321 relay range 13-18) make TC</td>
<td>Each Set</td>
<td>1</td>
<td>5050</td>
<td>5050</td>
</tr>
<tr>
<td>42</td>
<td>Supplying, fitting and fixing of 3.00 HP submersible pump TEXMO Make(Item code no.TDF255 type : TRF 908 HS +SF007R) including cost of all materials, transportation and taxes of pump etc. complete as per PH specification &amp; direction of Engineer-in-charge.</td>
<td>Each Mtr</td>
<td>90</td>
<td>106</td>
<td>9540</td>
</tr>
<tr>
<td>43</td>
<td>Supplying, fitting, fixing of S.S tapper 2nos of 0.45mtr long M.S supporting clamps with M.S nuts &amp; bolt and 200mm tube well cover &amp; cap suitable for the above pump sets.</td>
<td>Each Set</td>
<td>1</td>
<td>2000</td>
<td>2000</td>
</tr>
<tr>
<td>44</td>
<td>Rain water Harvesting. Structure - 2 nos</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>Sinking of tube well through D.T.H.Rig.</td>
<td>Mtr.</td>
<td>50</td>
<td>657</td>
<td>32850</td>
</tr>
<tr>
<td>46</td>
<td>Lowering of PVC casing pipe inside bore.</td>
<td>Mtr.</td>
<td>50</td>
<td>136</td>
<td>6800</td>
</tr>
<tr>
<td>47</td>
<td>Cost of 200mm dia (Sch.80) Pipe</td>
<td>Mtr.</td>
<td>50</td>
<td>1523.45</td>
<td>76172.5</td>
</tr>
<tr>
<td>48</td>
<td>Cutting slot in casing pipe for recharge of rain water</td>
<td>Mtr.</td>
<td>50</td>
<td>353.5</td>
<td>17675</td>
</tr>
<tr>
<td>49</td>
<td>Labour for packing gravel outside the tube well</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>50</td>
<td>2x25.0mx22/28{(0.40)²-(0.20)²)=4.70</td>
<td>Cum</td>
<td>4.7</td>
<td>110.1</td>
<td>517.47</td>
</tr>
<tr>
<td>51</td>
<td>Cost of washed gravel.</td>
<td>Cum</td>
<td>4.7</td>
<td>1612.4</td>
<td>7578.28</td>
</tr>
</tbody>
</table>

Name of Work: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At SAMBALPUR, RMC, Odisha
**Name of Work**: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At SAMBALPUR, RMC, Odisha

**ABSTRACT FOR PLUMBING & SANITARY WORK**

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
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<tbody>
<tr>
<td>50</td>
<td>Earth work in all kinds of soil within 50 mtr initial lead and 1.5mtr initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3 mtr in depth and as per direction of the Engineer in charge.</td>
<td>Cum</td>
<td>133.38</td>
<td>129.7</td>
<td>17299.386</td>
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<tr>
<td></td>
<td>2x1x8.55x3.90x2.0=133.38</td>
<td>Cum</td>
<td>133.38</td>
<td>129.7</td>
<td>17299.386</td>
</tr>
<tr>
<td>51</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:4:8) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>L.wall-2x2x7.80x0.40x0.10=1.25</td>
<td></td>
<td>1.25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>S.Wall-2x2x2.35x0.40x0.10=0.38</td>
<td></td>
<td>0.38</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Base-2x1x2.35x1.15x0.10=0.54</td>
<td></td>
<td>0.54</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Cum</td>
<td>2.16</td>
<td>3886.1</td>
<td>8393.976</td>
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<tr>
<td>52</td>
<td>Supplying all materials, labour, T&amp;P and providing brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:6) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
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<tr>
<td></td>
<td>L.Wall-2x2x7.65x0.25x2.0m=15.30</td>
<td></td>
<td>15.3</td>
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<tr>
<td></td>
<td>S.Wall-2x3x2.50x0.25x2.0m=7.50</td>
<td></td>
<td>7.5</td>
<td></td>
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<td></td>
<td></td>
<td>Cum</td>
<td>22.8</td>
<td>3940</td>
<td>89832</td>
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<tr>
<td>53</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Inside-2x2(7.15+2.50)x2.0m=77.20</td>
<td></td>
<td>77.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2x2x2.50x2.0m=20.00</td>
<td></td>
<td>20</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Cum</td>
<td>97.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Outside-2x2(7.65+3.0)x2.0m=85.2</td>
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<td>85.2</td>
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</tr>
<tr>
<td></td>
<td>Sqa</td>
<td>Sqm</td>
<td>182.4</td>
<td>110.5</td>
<td>20155.2</td>
</tr>
<tr>
<td>54</td>
<td>Supplying all materials, labour, T&amp;P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Sr.No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>--------</td>
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<td>------</td>
<td>------</td>
<td>------</td>
<td>----------</td>
</tr>
<tr>
<td>55</td>
<td>Inside-2x2(7.15+2.50)x2.0m=77.20</td>
<td>Sqm</td>
<td>77.2</td>
<td>23.1</td>
<td>2245.32</td>
</tr>
<tr>
<td>56</td>
<td>Supplying all materials, labour, T&amp;P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Sqm</td>
<td>97.2</td>
<td>23.1</td>
<td>2245.32</td>
</tr>
<tr>
<td>57</td>
<td>Roof slab-2x1x0.90x2.50=4.50</td>
<td>Cum</td>
<td>4.5</td>
<td>5502.7</td>
<td>4622.268</td>
</tr>
<tr>
<td>58</td>
<td>Supplying all materials, labour, T&amp;P and providing reinforced cement concrete work of M-25 grade with 20mm and down grade black hard granite crusher broken stone chips including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>0.84</td>
<td>5502.7</td>
<td>4622.268</td>
</tr>
<tr>
<td>59</td>
<td>Providing and filling filter media</td>
<td>Qntl.</td>
<td>0.68</td>
<td>6023</td>
<td>4095.64</td>
</tr>
<tr>
<td>60</td>
<td>Providing fitting and fixing M.S.grill,Jalli cover over the harvesty pindi</td>
<td>Qntl.</td>
<td>6</td>
<td>6100</td>
<td>36600</td>
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</table>

**ABSTRACT FOR PLUMBING & SANITARY WORK**

**Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At SAMBALPUR, RMC, Odisha**

**Name of Work**

**Sign and stamp of EPIL**

**Sign and stamp of bidder**
# ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr. No.</th>
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<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>61</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12mm size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>4.54</td>
<td>129.7</td>
<td>588.838</td>
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<tr>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>a.</td>
<td></td>
<td>Cum</td>
<td>2.54</td>
<td>5584.4</td>
<td>14184.376</td>
</tr>
<tr>
<td>62</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:3:6) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>3.56</td>
<td>4287.6</td>
<td>15263.856</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) with punning on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>3.56</td>
<td>4287.6</td>
<td>15263.856</td>
</tr>
<tr>
<td>a.</td>
<td>Ground floor</td>
<td>sqm</td>
<td>59.5</td>
<td>123.9</td>
<td>7372.05</td>
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<tr>
<td>64</td>
<td>Supplying all materials, labour, T&amp;P and providing 1st class K.B. Brick work in C.M (1:4) in foundation and plinth including watering, curing, conveyance of all materials to site.</td>
<td>Cum</td>
<td>8.56</td>
<td>4552.5</td>
<td>38969.4</td>
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<tr>
<td>a.</td>
<td>In ground floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>Construction of 20 users septic tank</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>a.</td>
<td>Earth work in excavation of foundation in all kinds of soil within 50m initial lead and 1.5m initial lift including rough dressing &amp; breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-in-Charge.</td>
<td>Cum</td>
<td>10.31</td>
<td>129.7</td>
<td>1337.207</td>
</tr>
<tr>
<td>b.</td>
<td>Extra lifts of 1.50 mtr or part thereof over the initial lift of 1.5 mtr in all kinds of embankments and road works and ordinary earthwork in general.</td>
<td>Cum</td>
<td>4.33</td>
<td>139.2</td>
<td>602.736</td>
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[Sign and stamp of EPIL]  
22  
[Sign and stamp of bidder]
<table>
<thead>
<tr>
<th>Sr.No</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>66</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:3:6) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td>4287.6</td>
<td>2358.18</td>
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<tr>
<td></td>
<td>a. In ground floor-3.29mx2.09mx0.08m=0.55</td>
<td>cum</td>
<td>0.55</td>
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</tr>
<tr>
<td>67</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12m size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td>5584.4</td>
<td>7315.564</td>
</tr>
<tr>
<td></td>
<td>a. In ground floor</td>
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<td></td>
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<tr>
<td></td>
<td>3.29mx2.09mx0.15m=1.03</td>
<td>cum</td>
<td>1.03</td>
<td>5584.4</td>
<td>7315.564</td>
</tr>
<tr>
<td></td>
<td>3.13mx1.13mx½(0.03m+0.13m)=0.28</td>
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<tr>
<td>68</td>
<td>Supplying all materials, labour, T&amp;P and providing brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:4) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
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<td>4552.5</td>
<td>21943.05</td>
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<tr>
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<td>a. In F&amp;P</td>
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<tr>
<td></td>
<td>2(3.09m+1.13m)0.38mx0.70m=2.25</td>
<td>cum</td>
<td>4.82</td>
<td>4552.5</td>
<td>21943.05</td>
</tr>
<tr>
<td></td>
<td>2(2.83m+1.13m)0.25mx1.30m=2.57</td>
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<tr>
<td>69</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td>115.7</td>
<td>3811.158</td>
</tr>
<tr>
<td></td>
<td>a. In ground floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inside</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1.95m+1.87m)1.13m=4.32</td>
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<tr>
<td></td>
<td>2x2.33mx½(1.95m+1.87m)=8.90</td>
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<tr>
<td></td>
<td>Outside</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(3.09m+1.89m)0.70m=6.97</td>
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<tr>
<td></td>
<td>2(2.83m+1.63)1.43m=12.76</td>
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<tr>
<td></td>
<td>sqm 32.94 115.7 3811.158</td>
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### ABSTRACT FOR PLUMBING & SANITARY WORK

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<thead>
<tr>
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<th>Rate</th>
<th>Amount</th>
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<tbody>
<tr>
<td>70</td>
<td>Supplying all materials, labour, T&amp;P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
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<tr>
<td>a.</td>
<td>In ground floor</td>
<td>sqm</td>
<td>13.22</td>
<td>23.1</td>
<td>305.382</td>
</tr>
<tr>
<td>71</td>
<td>Supplying all materials, labour, T&amp;P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
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<tr>
<td>a.</td>
<td>R.C.C floor and roof slabs</td>
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<tr>
<td></td>
<td>In ground floor</td>
<td>sqm</td>
<td>3.43</td>
<td>353.7</td>
<td>1213.191</td>
</tr>
<tr>
<td>72</td>
<td>Supplying all materials, labour, T&amp;P and providing M.S reinforcement for R.C.C work including cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
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<tr>
<td>a.</td>
<td>In ground floor</td>
<td>Qntl</td>
<td>0.38</td>
<td>5226</td>
<td>1985.88</td>
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<tr>
<td>73</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12mm size hard broken granite chips for R.C.C works including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>a.</td>
<td>In ground floor-2.86mx1.66mx0.10m=0.47</td>
<td>cum</td>
<td>0.47</td>
<td>5584.4</td>
<td>2624.668</td>
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<tr>
<td>74</td>
<td>Supplying all materials, labour, T&amp;P and providing fitting and fixing 100mm x 100mm x 100mm SW Tee in wall including filling the recess with cement concrete (1:3:6) with 12mm size h.g chips all complete including watering, curing, conveyance of all materials to worksite, payment of royalty all complete as per specification and direction of the Engineer in charge</td>
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<tr>
<td></td>
<td>Each</td>
<td></td>
<td>2</td>
<td>321.9</td>
<td>643.8</td>
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</table>

Sign and stamp of EPIL 24

Sign and stamp of bidder
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At SAMBALPUR, RMC, Odisha

**ABSTRACT FOR PLUMBING & SANITARY WORK**

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<tr>
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<tbody>
<tr>
<td>75</td>
<td>Supplying all materials, labour, T&amp;P and making MS step iron in 20mm diameter MS steel bars and fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge.</td>
<td>Each</td>
<td>5</td>
<td>181.3</td>
<td>906.5</td>
</tr>
<tr>
<td>76</td>
<td>Filling in foundation and plinth with excavated materials, moorum including watering and ramming as directed by the Engineer in charge</td>
<td>cum</td>
<td>3.45</td>
<td>72</td>
<td>248.4</td>
</tr>
<tr>
<td></td>
<td>2(3.29m+1.89m)0.10mx0.70m=0.73</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(3.29m+1.63m)x0.23mx1.20m=2.72</td>
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<tr>
<td></td>
<td>Total</td>
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<td>1616923.633</td>
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Sign and stamp of EPIL

Sign and stamp of bidder
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<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Providing Poly Urethene composite sandwich Ceiling panels 100mm thk. for Ceiling with 0.50mm BMT pre painted Galvalume PPGL sheet on both side, with tongue and groove joints, PUF (Poly Urethene foam) shall be of density 40Kg/Cu.mt. +2%, The panels shall be CFC Free certified, complete with erection and commissioning as walk in cooler ceiling with supporting T and flashings and fixtures, silicon, PUF chemical sealant complete item.</td>
<td>Sq. Mtrs.</td>
<td>1168.54</td>
<td>2247</td>
<td>2625709.38</td>
</tr>
<tr>
<td>2</td>
<td>Providing EPS thermocole insulation for floor in two layers of 50+75mm each that is 125 mm complete as per specification of material and workmanship, first of all apply bitumin primer over the cleaned surface, then fix polyethylene sheet of 500 micron, over which fix one layer of thermocole using bitumin 85x25, seal the joints, then apply bitumin, again fix second layer, again seal the joints with bitumin, complete item.</td>
<td>Sq. Mtrs.</td>
<td>1168.54</td>
<td>1498</td>
<td>1750472.92</td>
</tr>
<tr>
<td>3</td>
<td>Providing Poly Urethene composite sandwich panel 100 mm thk. for Outer Wall with 0.50mm BMT pre painted Galvalume PPGL sheet on chamber side face and 0.25mm thk PPGI (Pre painted Glvanised, as per specification of material and workmanship) iron sheet on wallside face, with tongue and groove joint, PUF (Poly Urethene foam) shall be of density 40Kg/Cu.mt. +2%, The panels shall be CFC Free certified, including erection and commissioning as walk in cooler walls with flashings, fixtures, silicon sealant, PUF chemical complete item.</td>
<td>Sq. Mtrs.</td>
<td>1980.51</td>
<td>2140</td>
<td>4238291.4</td>
</tr>
<tr>
<td>4</td>
<td>Providing Poly Urethene composite sandwich panel for Partition wall, 100 mm thk. with 0.50mm BMT both sides pre painted Galvalume PPGL sheet on chamber side face and 0.25mm thk PPGI (Pre painted Glvanised, as per specification of material and workmanship) iron sheet on wallside face, with tongue and groove joint, PUF (Poly Urethene foam) shall be of density 40Kg/Cu.mt. +2%, The panels shall be CFC Free certified, including erection and commissioning as walk in cooler partition wall with fixtures and flashings using silicon sealant and PUF chemical complete item.</td>
<td>Sq. Mtrs.</td>
<td>381.48</td>
<td>2140</td>
<td>816367.2</td>
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<tr>
<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
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</tr>
<tr>
<td>5</td>
<td>Providing and fixing Single leaf manual hinge hatch door/windows 100mm thk PU insulation with 0.6mm thk. Coated steel finish. W=1200mm, H=2100mm, as per specification of material and workmanship</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Doors</td>
<td>Nos.</td>
<td>19</td>
<td>48150</td>
<td>914850</td>
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<tr>
<td>b</td>
<td>Windows</td>
<td>Nos.</td>
<td>8</td>
<td>37450</td>
<td>299600</td>
</tr>
<tr>
<td>6</td>
<td>Providing Suction pipeline insulation with 50/75mm pipe of EPS in throught suction line in machine room, Low pressure receiver and chamber complete Top should be cladded with Aluminius sheet complete.</td>
<td>Lumpsum</td>
<td></td>
<td>695500</td>
<td>695500</td>
</tr>
<tr>
<td>7</td>
<td>Strip Curtain 150 mm wide for 2X1 M door opening, 3 mm thick</td>
<td>Nos</td>
<td>19</td>
<td>1500</td>
<td>28500</td>
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<tr>
<td>TOTAL</td>
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<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
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</tr>
<tr>
<td>1</td>
<td>Supply, installation &amp; commissioning of silent type 160 KVA, 415V, 50Hz, 1500 RPM, 0.8 Lagging p.f., D.G. Set with all accessories excluding AMF Panel with acoustic enclosure. Conforming to BS 5514, 649, IS 10000, capable of taking 10% overload for one hour after 12 hours of continuous operation including base frame, foundation platform, fuel tank, starting system, batteries etc. conforming to CPWD General specification for DG Sets and including Earthing. Complete in all respect.</td>
<td>No</td>
<td>1</td>
<td>87500</td>
<td>875000</td>
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</table>
### ABSTRACT FOR ELECTRICAL WORK

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
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<tbody>
<tr>
<td><strong>PART 7</strong> ELECTRICAL WORK</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
| 1      | SITC of Electric control Panel having all electrical controls with MCCBs incoming main and earth fault relay, HRC fuses, one CT operated ammeter 0-800 amps and one volt meter 0-800 volts etc. complete unit to run above plant. Specification mention as below  
1. INCOMER-  
Main MCCB of any standard make, Control and Switchgear etc of Capacity, 630A 01 No., Change over Switch, 01 No. METERING-indicating lamp R/Y/B 230V 03 No., control fuse with HRC link 2A 07, APFC relay 12 stage make 01 No., Multifunctional Meter 0-800A 01 No., CT800/5Amp/class 1 800/5A 04 no.  
2. OUTGOING-  
a) 75HP ATS starters Qty 03 Nos.(300A SFU with HRC link 300A 03NO., Control MCB 6Amp 9No.. 160A 3P Contactor 06 Nos. 80A 3 pole contactor 3No. Thermal over load relay 66-110A 03No., on delay timer 06No., ATS Transformer 03No., Ameter digital type with ASS 0-300A 03No., CT300/5Amp class 1 09No., Indicating lamp R/Y/B/OFF/TRIP 230V 15No., Start/Stop Push button 06No.  
b) 5HP DOL starter for pump with standby- 20A MCB TP 10KA, 18A 3P Contractor 09 No., Thermal over load relay 6-10A 03 No., 5HP VFD 02 No. indicating lamp ON/OFF/TRIP 04 No., Start stop push button | Nos  | 1    | 155000 | 1550000 |
<p>| 2      | Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shielded XLPE power cable of 1.1 KV grade3.5 CORE 185 5qmm Al.CONDUCATOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required. | Mtrs | 100  | 2002  | 200200 |</p>
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shelthed XLPE power cable of 1.1 KV grade 3.5 CORE 50 Sqmm Al.CONDUCATOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.</td>
<td>Mtrs 50</td>
<td></td>
<td>37250</td>
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<tr>
<td>4</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shelthed XLPE power cable of 1.1 KV grade 3.5 CORE 35 Sqmm Al.CONDUCATOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.</td>
<td>Mtrs 50</td>
<td></td>
<td>30650</td>
</tr>
<tr>
<td>5</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shelthed XLPE power cable of 1.1 KV grade 3.5 CORE 10 Sqmm Cu.CONDUCATOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.</td>
<td>Mtrs 200</td>
<td></td>
<td>82200</td>
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**GENERAL LIGHT/POWER WIRING**
### ABSTRACT FOR ELECTRICAL WORK

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Wiring of light points/fan points (6A/5A) with junction boxes, MS covers etc. All materials i.e. switches / sockets / MS boxes / hardwares and wires etc. shall be of approved make and shall be supplied/installed under scope of work for concealed flush type arrangement. The earthwire PVC insulated 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade is to be supplied/installed as per drawing and specifications. Complete work has to be executed strictly as per drawing Point wiring covers all work scope from switch board to points.</td>
<td>Nos 405</td>
<td>1134</td>
<td>459270</td>
</tr>
<tr>
<td>7</td>
<td>Wiring of two way control point with 2 x 1.5 SQMM copper wire 660V / 1.1 KV copper cable 660V / 1.1 KV grade PVC insulated including supply of material.</td>
<td>Nos 3</td>
<td>1112</td>
<td>3336</td>
</tr>
<tr>
<td>8</td>
<td>Wiring of bell/buzzer points with 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade insulated wire (including supply of all material) including CPL buzzer board.</td>
<td>Nos 18</td>
<td>2298</td>
<td>41364</td>
</tr>
<tr>
<td>9</td>
<td>Materials</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>Providing and fixing of BULKHEAD LED fittings of 40 watt each</td>
<td>Nos 325</td>
<td>2000</td>
<td>650000</td>
</tr>
<tr>
<td>ii)</td>
<td>Providing and fixing of LED Tube Light fittings of 40 watt each</td>
<td>Nos 40</td>
<td>1150</td>
<td>46000</td>
</tr>
<tr>
<td>iii)</td>
<td>Providing and fixing of 1400RPM Ceiling Fan</td>
<td>Nos 40</td>
<td>2350</td>
<td>94000</td>
</tr>
<tr>
<td>iv)</td>
<td>Providing and fixing 1x400W HPSV street light fittings with accessories like control switch, clamps, bend rod etc.</td>
<td>Nos 8</td>
<td>7400</td>
<td>59200</td>
</tr>
<tr>
<td>10</td>
<td>Preparing an earthing pit (Plate electrode) by using 600 x 600 x 3.15mm thk. GI plates at location shown in the drawing including supply laying and installation of all necessary material as earth electrodes, strips, wires, funnel, screen, watering pipes, brick chamber, CI frame with cover and to complete.</td>
<td>Nos 9</td>
<td>11500</td>
<td>103500</td>
</tr>
</tbody>
</table>
## ABSTRACT FOR ELECTRICAL WORK

### 11 Supply, Installation, Testing & Commissioning of following type Distribution board surface / flush mounted with Single Door MCB DBs. The DB shall have appropriate no. of top & bottom knock outs for outgoing circuits & shall be complete with necessary bus bars, interconnection terminals & earth studs. All terminations in DB shall be complete with ferruling, dressing & all circuits shall be properly labeled with PVC strip (sticker type) having identification as per the final approval of Consultant.

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>i)</td>
<td>2Way MCB DB</td>
<td>Nos</td>
<td>18</td>
</tr>
<tr>
<td>i)</td>
<td>8 Way Vertical TPN DB</td>
<td>Nos</td>
<td>3</td>
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</tbody>
</table>

### 12 Supply and fixing following type MCBs in existing MCB DBs including its incoming and out going connection with suitable size of PVC insulated, copper conductor flexible wire etc. as reqd.

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>i)</td>
<td>32A 4 Pole MCB</td>
<td>Nos</td>
<td>18</td>
</tr>
</tbody>
</table>

### 13 LIGHTNING ARRESTOR

Supply ,installation, testing and commissioning of High pulsar voltage OPR 30 Early streamer emission (ESE) Advance Lightning Protection system with 4 meter high Pulsar 30 having 65 meter protection radius IN LEVEL 2 complies with NFC-17-102 standards. The Air terminal should be capable to collect the ambient electric field and should emit the upward streamer with the defined Gain in time. The installation should be strictly followed as per manufacturer’s instructions. The system should include the following items complete in all respects.

<p>| | | | |</p>
<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GI mast for mounting the terminal &amp; adaptor to mount the OPR 30 with suitable base plate, should have provision for Guy wire clamping system, termination arrangement for the Down- Conductor.</td>
<td>Set</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Set</td>
<td>1</td>
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Sign and stamp of EPIL

Sign and stamp of bidder
**ABSTRACT FOR ELECTRICAL WORK**

<table>
<thead>
<tr>
<th>Description</th>
<th>Units</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Down conductor of 70 sq.mm single core insulated flexible Copper cable with necessary accessories, etc. OR Copper strip of size 25 X 3mm down conductor of suitable length as per building height with suitable mounting accessories and mounted on Insulators.</td>
<td>Mtrs</td>
<td>60</td>
<td>850</td>
<td>51000</td>
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<tr>
<td>Lightning Flash counter working electrically without any power supply. Equipment should count lightning strokes of 0.4KA to 150 KA.(8/20 micro second waveform) tested as per IEC 60-1:1989</td>
<td>Nos</td>
<td>1</td>
<td>16000</td>
<td>16000</td>
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<tr>
<td>Supply, installation, testing &amp; commissioning of maintenance free chemical earth pit set consisting of 1.2M long 16 mm dia 250 Micron Cu-coated MS rod(2 nos) connected together with clamps along with 10 Kg of ground enhancing chemical GRIC compound (without use of charcoal, salt or another combine). It should be capable of reducing soil resistivity by at least 50%. The earth pit shall be covered with Polyplastic heavy duty cover.</td>
<td>Nos</td>
<td>3</td>
<td>9500</td>
<td>28500</td>
</tr>
<tr>
<td>Point wiring for 5 / 6 amp socket outlet with 2 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia MS conduit with piano type switch, phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required.</td>
<td>Nos</td>
<td>15</td>
<td>1341</td>
<td>20115</td>
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<tr>
<td>Point wiring for 15 / 16 amp socket outlet with 2 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia MS conduit with piano type switch, phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required.</td>
<td>Nos</td>
<td>10</td>
<td>1598</td>
<td>15980</td>
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<td><strong>Total</strong></td>
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Sign and stamp of EPIL

33

Sign and stamp of bidder
## Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At SAMBALPUR, RMC, Odisha

### ABSTRACT FOR FIRE FIGHTING WORK

<table>
<thead>
<tr>
<th>Sr No</th>
<th>Item Description</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
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<td><strong>PART 8</strong></td>
<td><strong>FIRE FIGHTING WORK</strong></td>
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<tr>
<td>1</td>
<td>SITC of following dia MS Pipes (B Class) with necessary bends,hydrant stand,isolation valves, flanges,landing valve,RRL Hose,Branch pipe,Hose box,underground road crossing, colouring etc.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>i)</td>
<td>150 mm</td>
<td>Rmt</td>
<td>35</td>
<td>3187.8</td>
<td>111573</td>
</tr>
<tr>
<td>ii)</td>
<td>100 mm</td>
<td>Rmt</td>
<td>180</td>
<td>2500</td>
<td>450000</td>
</tr>
<tr>
<td>2</td>
<td>SITC of flexible Fire Hoses(firstaid horeel) with with a wall-mounted bracket, hose guide, jet nozzle and 30 metres hose.</td>
<td>Set</td>
<td>12</td>
<td>9000</td>
<td>108000</td>
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<tr>
<td>3</td>
<td>Supply installation testing and commissioning of following pumps for fire fighting system</td>
<td></td>
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<td></td>
<td>0</td>
</tr>
<tr>
<td>i)</td>
<td>1620 LPM (50 Mtrs Head, 40 HP )fire hydrant pump (with all attachments like NRV,Cut off valve,air caution vessel,Pressure gauge,Pressure switch all complete etc</td>
<td>nos</td>
<td>1</td>
<td>200000</td>
<td>200000</td>
</tr>
<tr>
<td>ii)</td>
<td>180 LPM jockey pump,50 Mtrs head (3HP) Vertical type with (with all attachments like NRV,Cut off valve,Pressure gauge,Pressure switch all complete</td>
<td>nos</td>
<td>1</td>
<td>65000</td>
<td>65000</td>
</tr>
<tr>
<td>iii)</td>
<td>1620 LPM Diesel Engine driven hydrant pump, 40 HP , 50 Mtrs Head (with all attachments like NRV,Cut off valve,Pressure gauge,Pressure switch,fuel Tank,Base Plate,battery, all complete etc</td>
<td>nos</td>
<td>1</td>
<td>350000</td>
<td>350000</td>
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<td>4</td>
<td>Fire Detection system</td>
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<td>a</td>
<td>Supply installation of multi criteria detectors (smoke+ heat)</td>
<td>Nos</td>
<td>100</td>
<td>3245</td>
<td>324500</td>
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<tr>
<td>b</td>
<td>Supply installation of following addressable fire alarm panels</td>
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<tr>
<td>i)</td>
<td>Repeater panels</td>
<td>Nos</td>
<td>3</td>
<td>85387.5</td>
<td>256162.5</td>
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<tr>
<td>ii)</td>
<td>Main fire alarm panel with MCP,Hooter,Isolater module.</td>
<td>Nos</td>
<td>1</td>
<td>250470</td>
<td>250470</td>
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<tr>
<td>c</td>
<td>2 x 1.5 sq mm cu flexible cable in MS conduit for detector wiring</td>
<td>Rmt</td>
<td>700</td>
<td>160</td>
<td>112000</td>
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<td>5</td>
<td>Co2 Fire extinguishers</td>
<td>Nos</td>
<td>8</td>
<td>7500</td>
<td>60000</td>
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<tr>
<td>6</td>
<td>DCP fire extinguishers</td>
<td>Nos</td>
<td>20</td>
<td>3500</td>
<td>70000</td>
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<tr>
<td>7</td>
<td>Pump Control Panel for quoted main(1620 LPM),diesel (1620 LPM) &amp; jokey (180 LPM)fire pump auto operation with earthing &amp; pump wiring</td>
<td>Nos</td>
<td>1</td>
<td>300000</td>
<td>300000</td>
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<td><strong>Total</strong></td>
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<td>Qty.</td>
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</tr>
<tr>
<td>1</td>
<td>Heavy duty high speed industrial type three cylinder vertical reciprocating ammonia refrigeration compressors Kirloskar KC-2/Frick/Superfreeze/Mycom or equivalent make with drive set, stop valve for suction and discharge with flanges and counter flanges, HP/LP OP cutouts, gauges, base frame, bolts, tool kit, gasket set and ferrule complete set with erection and commissioning, testing.  Heavy duty high speed industrial type three cylinder vertical reciprocating ammonia refrigeration compressors Kirloskar KC-2/Frick/Superfreeze/Mycom or equivalent make with drive set, stop valve for suction and discharge with flanges and counter flanges, HP/LP OP cutouts, gauges, base frame, bolts, tool kit, gasket set and ferrule complete set with erection and commissioning, testing.</td>
<td>Nos.</td>
<td>3</td>
<td>499333.7</td>
<td>1498001.07</td>
</tr>
<tr>
<td>3</td>
<td>Providing Electric motor of Kirloskar / Crompton / GEC of 50 HP and 1440 RPM, Induction for operation on 440/400 volts, 50 cycles, 3 phase AC supply for driving the Compressors.</td>
<td>Nos.</td>
<td>3</td>
<td>178333.7</td>
<td>535001.07</td>
</tr>
<tr>
<td>4</td>
<td>Providing MEI / Kilbern / L &amp; T motor starter for above mentioned 50HP motor respectfully with ammeter of AE make and 2 overload relays and cable box including starter oil etc. complete. Providing Centrifugal mono block pumps(12M head, 12 LPS) for circulating water with TFC squirrel cage induction motor of 5.0 HP suitable for operation on 400/440 volts, 50 cycles, three phase AC supply and necessary inlet and outlet pipes and foot valves (Kirloskar model no. KDS515 / Crompton model No. MBP 52 / Texmo model No. TMH-6) one fitted stand by.</td>
<td>Nos.</td>
<td>2</td>
<td>26750</td>
<td>53500</td>
</tr>
<tr>
<td>5</td>
<td>Providing Liquid ammonia receiver of 600mmx6.0 mt long fabricated with 14mm thk plates with inlet and outlet valves, gauge glass valves with gauge glass including MS stand complete.</td>
<td>Nos.</td>
<td>1</td>
<td>187250</td>
<td>187250</td>
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<tr>
<td>6</td>
<td>Providing Oil separator fabricated with 10mm thk. MS plate with size 1350x600mm complete with companion flange.</td>
<td>Nos.</td>
<td>1</td>
<td>26750</td>
<td>26750</td>
</tr>
<tr>
<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>--------</td>
<td>---------------------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>--------</td>
</tr>
<tr>
<td>7</td>
<td>Providing Atmospheric condenser 10 pipes high 16 Condensers made in TATA/JINDAL/PRAKASH SURYA MS 50mm thk Round Pipe with fabrication and erection with angle grame 65x65x6 with water ling in GI 50mm B Class Pipe of TATA/JINDAL/PRAKASH SURYA make wth header of 150mm dia GI Pipe, all Complete item suitable for heat load of 550KW including sand blasting and ZINC spray galvanising 120GSM.</td>
<td>Nos.</td>
<td>16</td>
<td>59920</td>
<td>958720</td>
</tr>
<tr>
<td>8</td>
<td>Providing Air Cooling Units of alfa laval/ICL/starcooler and condensers/Frick or equivalent make, 03 Nos in each Chamber of refrigeration capacity 36KW each suitable for 0 deg C, Refrigerant ammonia evaporating(pump feed), air volume 48000 CMH, fans 3X710mm axial fan, 1440 RPM, motor 0.75KW(1HP) each, 415V/3ph/50Hz, Stainless steel tubes with plain aluminium fins, 4 fpi, case work GI white powder coated complete with erection and commissioning at top.</td>
<td>Sets</td>
<td>12</td>
<td>285333.7</td>
<td>3424004.28</td>
</tr>
<tr>
<td>9</td>
<td>Provision of First charge of ammonia and oil 68 No. freeze oil for initial temperature as required and maintained for one year.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>374500</td>
</tr>
<tr>
<td>10</td>
<td>Black and GI pipes of different sizes for the completion of water and gas lines and for inter connection of entire plant with suction discharge and liquid lines.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>535000</td>
</tr>
<tr>
<td>11</td>
<td>Sundry material such as gaskets, thread seals, packing sheets, nut bolts, water valves, flanges, V-belts and other required equipments complete as required for various plant and machinery for 5000 mt capacity.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>214000</td>
</tr>
<tr>
<td>12</td>
<td>Providing Energy Recovery wheel in each chamber of 1547Mt each, 02 nos, suitable for 04 air changes in a day. Danfoss/Manik/Any ISI make as per NHB norms and Standards.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>428000</td>
</tr>
<tr>
<td>13</td>
<td>Equipment for Co2 gas removal suitable for 02 chambers of 1547MT each to hold the co2 level 2000PPM as per NHB Norms and Standards.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>1391000</td>
</tr>
<tr>
<td>14</td>
<td>Providing Freon plant for Four chambers of 52 MT eachwith evooptrators and condensing units complete with pipe line, pipeline insulation suitable for heat load of 28.15KW at peak load, complete with installation and commissioning with electrification.</td>
<td>Each</td>
<td>1</td>
<td>3638000</td>
<td>3638000</td>
</tr>
<tr>
<td>15</td>
<td>Load cell based Weight Monitoining system all complete with remot display</td>
<td>Nos</td>
<td>6</td>
<td>50000</td>
<td>300000</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>13563726</strong></td>
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</table>
### ABSTRACT FOR LIFT WORK

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>PART 9</td>
<td><strong>LIFT</strong> Endless Chain &amp; Sprocket type open platform, motorised manually operated</td>
<td></td>
<td></td>
<td>952300</td>
<td>952300</td>
</tr>
<tr>
<td></td>
<td>bidirectional bag lift</td>
<td></td>
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### PARTiculars

<table>
<thead>
<tr>
<th>PART</th>
<th>PARTICULARS</th>
<th>AMOUNT</th>
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<tr>
<td>PART-1</td>
<td>Civil Work</td>
<td>Rs. 3866499</td>
</tr>
<tr>
<td>PART-2</td>
<td>Civil Work (Steel Structural Work)</td>
<td>Rs. 30856769</td>
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<tr>
<td>PART-3</td>
<td>Plumbing &amp; Sanitary Works (P.H.)</td>
<td>Rs. 1616924</td>
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<tr>
<td>PART-4</td>
<td>Insulation Work (E.I.)</td>
<td>Rs. 1136921</td>
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<tr>
<td>PART-5</td>
<td>DG SET (E.I.)</td>
<td>Rs. 875000</td>
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<td>PART-6</td>
<td>Electrification (E.I.)</td>
<td>Rs. 3720539</td>
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<tr>
<td>PART-7</td>
<td>Fire Fighting Work (E.I.)</td>
<td>Rs. 2657706</td>
</tr>
<tr>
<td>PART-8</td>
<td>LIFT (E.I.)</td>
<td>Rs. 952300</td>
</tr>
<tr>
<td>PART-9</td>
<td>Plant Machinery</td>
<td>Rs. 13563726</td>
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<tr>
<td>TOTAL</td>
<td></td>
<td>Rs. 104578754</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Particulars</td>
<td>Unit</td>
</tr>
<tr>
<td>---------</td>
<td>-------------</td>
<td>------</td>
</tr>
<tr>
<td>1</td>
<td>Earth work in ordinary soil within 50m, initial lead and 1.5m initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-in-charge.</td>
<td>cum</td>
</tr>
<tr>
<td>2</td>
<td>Earth work in Hard soil within 50m, initial lead and 1.5m initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-in-charge.</td>
<td>cum</td>
</tr>
<tr>
<td>3</td>
<td>Extra Lift of 1.5m or part there of over the initial lift of 1.5m in all kinds of embankments and road work and ordinary earth work in general.</td>
<td>cum</td>
</tr>
<tr>
<td>4</td>
<td>Back filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5m.</td>
<td>cum</td>
</tr>
<tr>
<td>5</td>
<td>Supplying &amp; Filling foundation trenches, plinth &amp; ditches with clean course river sand well watered and rammed in layers not exceeding 23 c.m. in depth with all lead and lift including cost, conveyance, loading, unloading, stacking, royalties and all taxes of sand, cost &amp; conveyance of water, cost of all Labour, labour cess, T&amp;P required for the work etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td>cum</td>
</tr>
</tbody>
</table>
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At DUMRIPUT, RMC, Odisha

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Providing and laying Plain cement concrete of proportion (1:4:8) using 4cm size metal etc. in foundation and floors using cement, 40mm. Size crusher broken H.G. Metal and screened and washed sharp river sand for mortar of approved quality and from approved quarry incluign hoisting, lowering and laying concrete to the required level, ramming, watering and curing etc. complete to required levels, laid in layers not exceeding 15cm thick in each layer including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P required for the work including shoring, shuttering and dewatering (if required) including hire and running charges of water pump required for the work etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td>cum</td>
<td>289.21</td>
<td>4969.2</td>
<td>1437142.332</td>
</tr>
<tr>
<td>7</td>
<td>Providing and laying in position ready mixed M-25 grade concrete having compressive strength at 28 days test not less than 250 kg/ sq.cm for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, and hoisting, lowering, laying and compacting concrete, watering and curing and finishing the exposed surfaces smooth with cost, conveyance, royalties, taxes of all materials with all labour, Labour cess and T&amp;P required for the work improve workability without impairing strength and durability as per direction of the Engineer - in - charge.</td>
<td>cum</td>
<td>5305.5</td>
<td>304369.1224</td>
<td></td>
</tr>
</tbody>
</table>

|        | Up to Plinth Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cu mt  | 1079.834  | 5729058.52 |
|        | Ground Floor Level (Plinth to 3.5Mtr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cu mt  | 56.798    | 304369.1224 |
|        | First Floor Level (3.5mtr to 7.0mtr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cu mt  | 468.623   | 2539938.015  |
# ABSTRACT FOR CIVIL WORK

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Cu mt</td>
<td>112.322</td>
<td>5490.4</td>
<td>616692.7088</td>
</tr>
<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Cu mt</td>
<td>112.322</td>
<td>5571.4</td>
<td>625790.7908</td>
</tr>
<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Cu mt</td>
<td>89.046</td>
<td>5664.5</td>
<td>504401.067</td>
</tr>
</tbody>
</table>

**Note:**
- Rigid & smooth centering & shuttering for R.C.C. works including false works with all necessary bracing and tiles and supports with leveling centering covered with plastic sheet with provisions for necessary holes and pockets for electrical conduits, pipes, P.H. pipes, for hooks or boxes, switch and board insert plates, clamps and extension bars etc., including dismantling the same after the required interval from the date of casting including cost of all materials, labour, Labour cess, conveyance, loading and unloading, taxes, royalties, scaffolding, watering, curing, sundries, tools and plants, etc., complete as per the direction of the Engineer-in-charge.

<table>
<thead>
<tr>
<th>a</th>
<th>RCC Foundation and Plinth</th>
<th>Sqm.</th>
<th>2459.98</th>
<th>98.7</th>
<th>242800.0063</th>
</tr>
</thead>
<tbody>
<tr>
<td>b</td>
<td>RCC Beam, Column, Grider &amp; bresamer etc.</td>
<td>Sqm.</td>
<td>770.0356</td>
<td>544.3</td>
<td>419130.3771</td>
</tr>
<tr>
<td></td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>770.0356</td>
<td>544.3</td>
<td>419130.3771</td>
</tr>
<tr>
<td></td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>2585.407</td>
<td>653.1</td>
<td>1688529.312</td>
</tr>
<tr>
<td></td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>517.3</td>
<td>783.7</td>
<td>405408.01</td>
</tr>
<tr>
<td></td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>517.3</td>
<td>940.5</td>
<td>486520.65</td>
</tr>
<tr>
<td></td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>354.72</td>
<td>1128.6</td>
<td>400336.992</td>
</tr>
<tr>
<td>c</td>
<td>RCC Roof slab, Landing, Balcony &amp; chajja etc.</td>
<td>Sqm.</td>
<td>0</td>
<td>478.2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>478.2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>1176.41</td>
<td>435.2</td>
<td>511973.632</td>
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<tr>
<td></td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>522.2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>626.6</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>0</td>
<td>752</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>RCC Lintel</td>
<td>Sqm.</td>
<td>0</td>
<td>233</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>597.81</td>
<td>735.6</td>
<td>167147.676</td>
</tr>
<tr>
<td></td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>597.81</td>
<td>335.5</td>
<td>200565.255</td>
</tr>
<tr>
<td></td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>597.81</td>
<td>402.6</td>
<td>240678.306</td>
</tr>
<tr>
<td></td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>597.81</td>
<td>402.6</td>
<td>240678.306</td>
</tr>
<tr>
<td></td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>622.44</td>
<td>483.1</td>
<td>300700.764</td>
</tr>
<tr>
<td>e</td>
<td>RCC Wall and Fin</td>
<td>Sqm.</td>
<td>0</td>
<td>478.2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>478.2</td>
<td>0</td>
</tr>
</tbody>
</table>
Name of Work: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. at DUMRIPUT, RMC, Odisha

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>574</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>688.5</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>RCC Stairs excluding Landing</td>
<td>Sqm.</td>
<td>20</td>
<td>432</td>
<td>8640</td>
</tr>
<tr>
<td>4</td>
<td>Ground Floor Level (Plinth to 3.5mtr)</td>
<td>Sqm.</td>
<td>20</td>
<td>518.4</td>
<td>10368</td>
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<tr>
<td>5</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>20</td>
<td>622</td>
<td>12440</td>
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<tr>
<td>6</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>20</td>
<td>746.4</td>
<td>14928</td>
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<tr>
<td>7</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>20</td>
<td>895.7</td>
<td>17914</td>
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<tr>
<td>8</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>20</td>
<td>1507.8</td>
<td>23656</td>
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</tbody>
</table>

9 Cutting, straightening, coiled or bent up HYSD/TMT Reinforcement Bars welding or jointing if necessary, bending, binding, tying the grills as required for R.C.C. works, providing Fan Hooks where necessary and hoising, lowering and placing the same in proper position according to the approved designs and drawings in all floors including cost, conveyance, loading, unloading and taxes or HYSD/TMT Reinforcement Bars and Binding wires of 18 to 20 gauge required for the work cost of all labour, T&P and scaffolding complete in all respects as directed by the Engineer-in-charge (Payment will be made according to the actual/proper weight of HYSD/TMT Reinforcement Bars and Binding wires consumed in the particular work only)

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>KG</td>
<td>103800.2</td>
<td>61.633</td>
<td>6397515.261</td>
</tr>
<tr>
<td>b</td>
<td>KG</td>
<td>6815.76</td>
<td>61.778</td>
<td>421064.0213</td>
</tr>
<tr>
<td>c</td>
<td>KG</td>
<td>51833.38</td>
<td>61.93</td>
<td>3210041.069</td>
</tr>
<tr>
<td>d</td>
<td>KG</td>
<td>13478.64</td>
<td>62.09</td>
<td>836888.7576</td>
</tr>
<tr>
<td>e</td>
<td>KG</td>
<td>13478.64</td>
<td>62.258</td>
<td>839153.1691</td>
</tr>
<tr>
<td>f</td>
<td>KG</td>
<td>10685.52</td>
<td>62.434</td>
<td>667139.7557</td>
</tr>
</tbody>
</table>

Sign and Stamp of EPIL

Sign and Stamp of bidder
<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Fly Ash Brick Masonry in cement mortar of mix (1:6) using Fly Ash bricks of size 25c.m x 12 c.m x 8 c.m in Foundation, Plinth &amp; super structure having crushing strength not less than 75 kg per square c.m. with cement and screened &amp; washed sharp sand for mortar after immersing the bricks for 6 (Six) hours in water before use in works with all necessary projections, splay cutting, circular moulding, corbelling, chamfering, watering and curing etc. including cost, conveyance, stacking, loading, unloading, royalties, all taxes, cost of all labour, Labour cess, scaffolding, sundries and T&amp;P required for the works etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Up to Plinth Level</td>
<td>Cum.</td>
<td>93.5625</td>
<td>3932.1</td>
<td>367897.1063</td>
</tr>
<tr>
<td>b</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Cum.</td>
<td>321.0613</td>
<td>3965.4</td>
<td>1273136.281</td>
</tr>
<tr>
<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Cum.</td>
<td>157.325</td>
<td>4128.3</td>
<td>649484.7975</td>
</tr>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Cum.</td>
<td>149.45</td>
<td>4315.7</td>
<td>644981.365</td>
</tr>
<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Cum.</td>
<td>157.325</td>
<td>4531.1</td>
<td>712855.3075</td>
</tr>
<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Cum.</td>
<td>94.07</td>
<td>4778.9</td>
<td>449551.123</td>
</tr>
<tr>
<td>11</td>
<td>Providing 12mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement &amp; screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after raking out the joints (alongwith providing grooves wherever necessary) including watering and curing, rounding of corners etc. complete with cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P, sundries and scaffolding required for the work etc. as directed by the Engineer-in-charge.</td>
<td></td>
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<tr>
<td>a</td>
<td>Plinth Level</td>
<td>sqm</td>
<td>483.912</td>
<td>94.5</td>
<td>45729.684</td>
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<tr>
<td>b</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>sqm</td>
<td>856.56</td>
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<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>sqm</td>
<td>701.64</td>
<td>100.9</td>
<td>70795.476</td>
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<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>sqm</td>
<td>687.36</td>
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<td><strong>ABSTRACT FOR CIVIL WORK</strong></td>
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<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>sqm</td>
<td>671.16</td>
<td>107.9</td>
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<td>f</td>
<td>ForthFloor Level (14.0mtr above)</td>
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<td>12</td>
<td>Providing 16mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement &amp; screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary) including watering and curing, rounding of corners etc. complete with cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P, sundries and scaffolding required for the work etc. as directed by the Engineer-in-charge.</td>
<td></td>
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<tr>
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<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
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<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
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<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
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<td>Forth Floor Level (14.0mtr above)</td>
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<td>578.28</td>
<td>155</td>
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<td>13</td>
<td>Painting 2 (Two) or more coats with Weather Coat Paint of premium brand Such as Asian/ Berger/ ICI paints or equivalent of approved quality &amp; colour, using required quantities of paint as specified by the manufacturer to give an even shade over a coat of wall priming (water based) on the finished external plastered surface at all height, watering the surface before applying the Weather Coat Paint and curing for the required period including cost, conveyance, loading, unloading, stacking and all taxes, cost of all Labour, Labourcess, Sundries, Scaffolding, Staging and T&amp;P etc. required for the work complete in all respect as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
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<td>a</td>
<td>Upto Plinth Level</td>
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<td>483.912</td>
<td>101.2795</td>
<td>49010.38234</td>
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Sign and Stamp of EPIL

Sign and Stamp of bidder
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<th>Qty</th>
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<td>Priming one coat over with any approved primer including cost of material &amp; labour For Plastere Surface with water bond Cement primer</td>
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<td>49.3</td>
<td>0</td>
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<td>Forth Floor Level (14.0mtr above)</td>
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<td>15</td>
<td>Priming one coat over with any approved primer including cost of material &amp; labour For Iron work</td>
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<td></td>
<td></td>
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<tr>
<td>a</td>
<td>Forth Floor</td>
<td>Sqm</td>
<td>0</td>
<td>40</td>
<td>0</td>
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<td>16</td>
<td>Wall painting two coats with plastic emulsion paint of approved quality colour at all heights to the interior surface of the wall to make an even finished surface including sand papering, applying putty wherever necessary including cost, conveyance, loading, unloading, stacking, all taxes, cost of all Labour, Labour cess, scaffoldings, staging, sundries, T&amp;P etc. required for the work complete as directed by the Engineer-in-charge.</td>
<td></td>
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<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
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<td>Rate</td>
<td>Amount</td>
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<tr>
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<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
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<td>628.32</td>
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<td>Forth Floor Level (14.0mtr above)</td>
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<td>578.28</td>
<td>193.5</td>
<td>111897.18</td>
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<td>17</td>
<td>Finishing wall surface of walls with Acrylic wall putty (water based) of approved make and finished smooth and even surface to receive painting including cost, conveyance, taxes of all materials, cost of all Labour, Labour cess, scaffolding, staging, sundries, T&amp;P etc. required for the work complete as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td>Ground Floor Level (Plinth to 3.5mtr)</td>
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<td>0</td>
<td>74.28</td>
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<td>First Floor Level (3.5mtr to 7.0mtr)</td>
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<td>0</td>
<td>75.092</td>
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<tr>
<td>c</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>75.932</td>
<td>0</td>
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<tr>
<td>d</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>0</td>
<td>76.792</td>
<td>0</td>
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<td>e</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>0</td>
<td>77.672</td>
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<tr>
<td>18</td>
<td>Brick on edge flooring using fly ash brick flat over one brick flat set in cement mortal (1:8)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Ground Floor</td>
<td>Sqm.</td>
<td>979.8</td>
<td>833.7135</td>
<td>816872.5099</td>
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<tr>
<td>19</td>
<td>Cement concrete flooring grade 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate) rounding off edges etc. but excluding the cost of nosing of steps etc. complete : 75 mm thick with 20 mm thick nominal size aggregate.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Ground Floor</td>
<td>Sqm.</td>
<td>0</td>
<td>232.02</td>
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## ABSTRACT FOR CIVIL WORK

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<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
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<tbody>
<tr>
<td>20</td>
<td>Providing and fixing steel glazed doors windows and ventilator shutters of standard rolled steel section joints mitred and welded with steel lugs 13 x 3 mm, 10 cm. long embedded in cement concrete block 15 x 10 x 10 cm. of 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws with fixing clips or with bolts and nuts as required including providing and fixing of plain glass panes 4 mm thick with copper glazing clips and special metal sash putty of approved make or metal beading with screws complete including priming coat of approved steel primer, excluding the cost of metal beading and other fitting except necessary hinges of pivots steel handles peg stay etc. as required : Windows side hung (openable)</td>
<td>Sqm.</td>
<td>1.28</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge 0.50mm (+0.05%) total coated thickness with zinc coating 120grams per sqm as per IS:227, in 240mpa steel grade, 5-7 microns.</td>
<td>Sqm</td>
<td>1354.358</td>
<td>597.2311</td>
<td>808864.7652</td>
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**TOTAL**  38966499
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<tr>
<td>1</td>
<td>Supplying, fabricating and erection of steel work in built up tubular hollow hot finished welded type steel tubes for trusses or frame works, etc using round, square or rectangular hollow tubes including cutting, hoisting and fixing in position and applying a prime coat of approved steel primer including welding and bolting with special shaped washers including cost of all labours, joining materials, etc required for work complete as directed by Engineer-In-Charge.</td>
<td>Kg.</td>
<td>178336.5</td>
<td>77.8</td>
<td>13874578.14</td>
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<tr>
<td></td>
<td>(i) Hoising of Trusses and Placing in Position</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>2</td>
<td>Supplying, fabricating &amp; fixing of Structural steel items made out of channels, angles, flats, plates, chequered plates I Section, Beam, Hollow Section any type of frame, space frame, gates, atrium in top, truss, purlins, columns, beams etc. complete as per drawing including priming with one coat of red oxide primer in all floors as per the direction of the Engineer-in-charge.</td>
<td>Kg.</td>
<td>218280.1</td>
<td>77.8</td>
<td>16982190.69</td>
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<td>(i) Hoising of Trusses and Placing in Position</td>
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<td><strong>Total</strong></td>
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### ABSTRACT FOR STEEL & PLUMBING & SANITARY WORK

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<th>Unit</th>
<th>Qty</th>
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<tr>
<td><strong>PART 3 PLUMBING &amp; SANITARY</strong></td>
<td>Providing all materials, labour, T&amp;P for fitting and fixing white glazed vitreous china floor mounted water closet (European pattern) 'P' or 'S' type of approved make, As per IS-2556 with ISI mark, including supply of suitable PVC wall plug and Brass screws etc. all complete including cost of PVC seat cover (solid) with hinges &amp; rubber buffers etc all complete including cost, taxes and conveyance as per specification all complete as per direction of Engineer-in-charge. Make (No.C0297(S)Trap+C0278(P)Trap(Elite)Hindware</td>
<td>SET</td>
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<tr>
<td><strong>2</strong></td>
<td>Providing all materials, labour, and T&amp;P for fitting and fixing of 10 liter capacity PVC low level cistern complete with all internal fittings of approved make as per IS-7231 with ISI mark and Providing of necessary PVC wall plug, screws and 15mm dia PVC connection pipe with union at both end ,including testing etc. all complete as per specification &amp; direction of Engineer-in-charge. Make : HINDWARE/CERA/PARRYWARE</td>
<td>No</td>
<td>1</td>
<td>1460.9</td>
<td>1460.9</td>
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<tr>
<td><strong>3</strong></td>
<td>Supply all materials and labour for fitting and fixing of 550x400mm white glazed vitreous china wash hand basin of approved make with supply &amp; fixing of 32mm CP waste,15mm dia PVC water connection pipe, basin bolts &amp; Nuts of approved quality including cutting the walls &amp; floor and making good the damages with cement concrete (1:2:4) etc. with all taxes, duties, transportation etc. all complete as per direction of EIC. (Make (No.C0460 Basin(550x400m)Papular(Hindware)</td>
<td>SET</td>
<td>2</td>
<td>3770.2</td>
<td>7540.4</td>
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<tr>
<td><strong>4</strong></td>
<td>Supplying all materials and labour, T&amp;P for fitting and fixing of 590mm x 390mmx 375mm white glazed vitreous china Half stall front standing urinal basin as per IS-2556 with ISI mark along with supply &amp; fixing of necessary component parts like pair of C.I./M.S. bracket including all taxes,duties, transportation etc.with all complete fittings as per specification &amp; direction of the Engineer-in-charge. (Make No.C0575+C8095(White)Hindware.</td>
<td>SET</td>
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<td>4704.1</td>
<td>9408.2</td>
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**Name of Work**: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At DUMRIPUT, RMC, Odisha

**ABSTRACT FOR STEEL & PLUMBING & SANITARY WORK**

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<tr>
<td>5</td>
<td>Providing all materials, labour, T&amp;P for fitting and fixing of 20mm thick white marble partition for urinal of following sizes including cutting, edge moulding, both side polishing including fixing on the wall after groove cutting &amp; making good the damages. The cost inclusive of all taxes, transportation etc. all complete as per specification &amp; direction of Engineer-in-charge.</td>
<td>Sqmt</td>
<td>1.35</td>
<td>2570.7</td>
<td>3470.445</td>
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<td>6</td>
<td>Providing all materials, labour, T&amp;P for fitting of 600x450mm bevelled edge mirror of 5mm thick mounted on 4mm thick A C back sheet &amp; CP cup screw with PVC wall plugs including cost, conveyance, taxes of all materials complete as per specification and direction of E.I.C.</td>
<td>NO</td>
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<td>654.4</td>
<td>1308.8</td>
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<td>7</td>
<td>Supplying all materials, labour, T&amp;P and fixing standard sized CP towel rail complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge</td>
<td>NO</td>
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<td>8</td>
<td>Supplying all materials, labour, T&amp;P and fixing standard sized glass-shelf with CP brass brackets and guard rails complete fixed to woden plugs with CP screws as per specification and direction of the Engineer in charge</td>
<td>NO</td>
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<td>Providing and fixing 15mm dia CP bib cock long body(Jaquar make)</td>
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<td>Providing and fixing 15mm dia CP angular stop cock(Jaquar make)</td>
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<td>Providing and fixing Health Faucet with 1m long PVC tube &amp; wall hook(Jaquar make)</td>
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<td>Providing and fixing 15mm dia CP two way bib cock(Jaquar make)</td>
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<td>Providing and fixing 15mm dia pillar cock(Jaquar make)</td>
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<td>Providing and fixing Robe Hook(Jaquar make)</td>
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<td>Providing and fixing soap case(Jaquar make)</td>
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<td>Providing and fixing 32mm CP Bottle Trap(Jaquar make)</td>
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**Name of Work**: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At DUMRIPUT, RMC, Odisha

### ABSTRACT FOR STEEL & PLUMBING & SANITARY WORK

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<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>Supplying all materials, labour &amp; fitting and fixing 125mm dia stainless steel gratting on top of floor traps with white cement all complete in all floors, as per technical specification and direction of Engineer-in-charge.</td>
<td>NO</td>
<td>4</td>
<td>83.8</td>
<td>335.2</td>
</tr>
<tr>
<td>18</td>
<td>Providing all materials, labour, T&amp;P for laying of following nominal dia UPVC pipes as per IS- 4985 with ISI mark including fixing of required size UPVC fittings like, bend, Tee, elbow, offsets, etc. and the same fixed on wall or floor with holder bat clamps screw etc. including testing the joints with required water pressure. The cost inclusive of all taxes, duties, transportation scaffolding etc. as per specification and direction of Engineer-in-charge. Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td>NO</td>
<td>4</td>
<td>83.8</td>
<td>335.2</td>
</tr>
<tr>
<td></td>
<td>a. 40mm dia</td>
<td>RM</td>
<td>25</td>
<td>362.2</td>
<td>9055</td>
</tr>
<tr>
<td></td>
<td>b. 50mm dia</td>
<td>RM</td>
<td>20</td>
<td>420.7</td>
<td>8414</td>
</tr>
<tr>
<td>19</td>
<td>Providing and fixing on wall face unplasticised Rigid PVC soil, waste water pipes conforming to IS:13592 Type-B, including jointing with seal-ring conforming to IS:5382, Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td>RM</td>
<td>50</td>
<td>330.9</td>
<td>16545</td>
</tr>
<tr>
<td></td>
<td>a. 110mm dia</td>
<td>RM</td>
<td>100</td>
<td>330.9</td>
<td>33090</td>
</tr>
<tr>
<td></td>
<td>b. 160mm dia</td>
<td>RM</td>
<td>100</td>
<td>717.3</td>
<td>71730</td>
</tr>
<tr>
<td>20</td>
<td>Providing and fixing on wall face unplasticised Rigid PVC for rain water pipes conforming to IS:13592 Type-A, including jointing with seal-ring conforming to IS:5382, Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td>RM</td>
<td>50</td>
<td>330.9</td>
<td>16545</td>
</tr>
<tr>
<td></td>
<td>a. 110mm dia</td>
<td>RM</td>
<td>100</td>
<td>330.9</td>
<td>33090</td>
</tr>
<tr>
<td></td>
<td>b. 160mm dia</td>
<td>RM</td>
<td>100</td>
<td>717.3</td>
<td>71730</td>
</tr>
<tr>
<td>21</td>
<td>Supplying all materials, labour, T&amp;P, fitting and fixing of following dia UPVC SWR fittings of approved make confirming to IS-14735 with all taxes, duties, transportation &amp; requisite testing as per specification &amp; direction of Engineer-in-charge. Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td>NO</td>
<td>3</td>
<td>273.8</td>
<td>821.4</td>
</tr>
<tr>
<td></td>
<td>a. 110mm x110mm P trap</td>
<td>NO</td>
<td>3</td>
<td>273.8</td>
<td>821.4</td>
</tr>
<tr>
<td></td>
<td>b. 110mm WC Connector/ Bend with lip ring</td>
<td>NO</td>
<td>1</td>
<td>228</td>
<td>228</td>
</tr>
<tr>
<td></td>
<td>c. 110mm dia Plain Bend 87.5 deg</td>
<td>NO</td>
<td>2</td>
<td>100.2</td>
<td>200.4</td>
</tr>
<tr>
<td></td>
<td>d. 160mm dia Plain Bend 87.5 deg</td>
<td>NO</td>
<td>2</td>
<td>312</td>
<td>624</td>
</tr>
<tr>
<td></td>
<td>e. 110mm dia Plain Bend 45 deg</td>
<td>NO</td>
<td>4</td>
<td>100.2</td>
<td>400.8</td>
</tr>
<tr>
<td></td>
<td>f. 160mm dia Plain Bend 45 deg</td>
<td>NO</td>
<td>4</td>
<td>100.2</td>
<td>400.8</td>
</tr>
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### ABSTRACT FOR STEEL & PLUMBING & SANITARY WORK

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</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>Providing all materials, labour, T&amp;P for laying in trenches of following nominal dia UPVC pipes (Sch-80) as per IS-ASTMD-1785 with ISI mark including fixing of required size fittings like bend, Tee, elbow, offsets etc. &amp; testing the joints with required water pressure. The cost inclusive of all taxes, duties, transportation scaffolding etc. as per specification and direction of Engineer-in-charge. Make: Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>40mm Dia</td>
<td>metre</td>
<td>5</td>
<td>362.2</td>
<td>1811</td>
</tr>
<tr>
<td>b</td>
<td>50mm Dia</td>
<td>metre</td>
<td>150</td>
<td>452.75</td>
<td>67912.5</td>
</tr>
<tr>
<td>23</td>
<td>Providing and fixing Clorinated Polyvinyl Chloride (CPVC) pipes SDR-13.5 conforming to IS: 15778, having thermal stability for hot &amp; cold water supply, including all CPVC plain &amp; brass threaded fittings including fixing the pipes with clamps at 1.00 m spacing. The includes jointing of pipes &amp; fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>25mm Dia</td>
<td>metre</td>
<td>20</td>
<td>186</td>
<td>3720</td>
</tr>
<tr>
<td>b</td>
<td>20mm Dia</td>
<td>metre</td>
<td>20</td>
<td>145.2</td>
<td>2904</td>
</tr>
<tr>
<td>24</td>
<td>Supplying all materials, labour, T&amp;P fitting and fixing of different size brass upvc ASTM-1785,sch-80 ball valve Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>25mm dia ball valve</td>
<td>No</td>
<td>1</td>
<td>336.7</td>
<td>336.7</td>
</tr>
<tr>
<td>b</td>
<td>50 mm dia ball Valve</td>
<td>No</td>
<td>6</td>
<td>1260</td>
<td>7560</td>
</tr>
<tr>
<td>25</td>
<td>Supplying and fixing in position approved make bronze vertical non return valve(screwed) of approved make to IS: 778, Make- Zoloto/leader/shakti</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>50 mm dia</td>
<td>No</td>
<td>6</td>
<td>909</td>
<td>5454</td>
</tr>
<tr>
<td>26</td>
<td>Fixing Rotational moulded polyethylene cylindrical vertical water storage tanks conforming to IS:12701--1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc, including hoisting up to a height of 5 metres above ground level and placing the tank to the required position and construction of required staging etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sign and Stamp of EPIL

15

Sign and Stamp of bidder
### ABSTRACT FOR STEEL & PLUMBING & SANITARY WORK

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<thead>
<tr>
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<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>b</td>
<td>Cutting holes for taking 100mm dia PVC pipes through 250mm thick wall</td>
<td>No</td>
<td>4</td>
<td>28973.2</td>
<td>115892.8</td>
</tr>
<tr>
<td>28</td>
<td>Supplying all materials, labour and T&amp;P and laying UPVC Foam core pipe as per IS:16098 sn-4 for underground rain water pipe and sewer Make : ASTRAL/ASHIRVAD</td>
<td>No</td>
<td>8</td>
<td>133.4</td>
<td>1067.2</td>
</tr>
<tr>
<td>a</td>
<td>110mm Nominal Dia pipe</td>
<td>metre</td>
<td>35</td>
<td>369.7</td>
<td>12939.5</td>
</tr>
<tr>
<td>b</td>
<td>160mm Nominal Dia pipe</td>
<td>metre</td>
<td>40</td>
<td>739.2</td>
<td>29568</td>
</tr>
<tr>
<td>c</td>
<td>200 mm Nominal Dia pipe</td>
<td>metre</td>
<td>13</td>
<td>956.4</td>
<td>12433.2</td>
</tr>
<tr>
<td>29</td>
<td>Providing and laying in trench cement concrete (1:3:6) with 40mm size hard granite metal in the following type of bedding for upvc pipes of the following internal diameter including curing complete as per specification</td>
<td>metre</td>
<td>35</td>
<td>369.7</td>
<td>12939.5</td>
</tr>
<tr>
<td>b</td>
<td>160mm Nominal Dia pipe</td>
<td>metre</td>
<td>40</td>
<td>739.2</td>
<td>29568</td>
</tr>
<tr>
<td>c</td>
<td>200 mm Nominal Dia pipe</td>
<td>metre</td>
<td>13</td>
<td>956.4</td>
<td>12433.2</td>
</tr>
<tr>
<td>30</td>
<td>Supplying all materials, labour, T&amp;P and constructing gully trap chamber of the following inside size with 8cm thick R.C.C precast cover slab in cement concrete (1:2:4) mix using 12mm size h.g chips, foundation concrete (1:4:8) using 40mm size hard granite metal on bed and around trap, K.B brickwork in c.m (1:6) in F&amp;P and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mmx100mm size HCl gully trap, 150mmx150mm size C.I grating etc all complete as per approved drawing, specification and direction of the Engineer in charge: Gully trap chamber of size 250mmx250mm with R.C.C cover slab</td>
<td>No</td>
<td>1</td>
<td>1253.7</td>
<td>1253.7</td>
</tr>
</tbody>
</table>
**Name of Work** :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At DUMRIPUT, RMC, Odisha

### ABSTRACT FOR STEEL & PLUMBING & SANITARY WORK

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>Supplying all materials, labour, T&amp;P and constructing man hole chamber of the following size with cement concrete (1:3:6) using 40mm size h.g chips, 1st class K.B brickwork in cement mortar (1:6), moulding and shaping the channel inside and benching with cement concrete (1:2:4) using 12mm size h.g chips, 12mm thick cement plaster (1:3) with punning to inside, cement flush pointing (1:3) to outside, R.C.C cover slab in (1:2:4) using 12mm size h.g chips with RCC man hole cover, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Man hole chamber Inside size 910mmx910mmx910mm</td>
<td></td>
<td></td>
<td>13773.1</td>
<td>137731</td>
</tr>
<tr>
<td>32</td>
<td>Supplying all materials, labour, T&amp;P and constructing soakway pit of the following size with precast RCC rings joined loose, gravel backing in the rear of well steining, precast RCC cover slab in cement concrete (1:2:4) using 12mm size h.g chips fitted with iron lifting handles including cutting hole in the rings for inlet pipe, earthwork in open well excavation in all kinds of soil and refilling of cavity around the pit &amp; painting the iron works, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge - RCC rings soakway pit 1.22m dia x 2.10m deep</td>
<td></td>
<td></td>
<td>12873.4</td>
<td>25746.8</td>
</tr>
<tr>
<td></td>
<td>Construction of rain water harvesting pit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Supplying, installing, testing and commissioning of Non clog self priming centrifugal pump. electric motor. The pump shall have cast iron delivery casting, cast iron impeller SS Shaft. Pump shall be provided with mechanical seal (gland packing). The pump shall be suitable for auto/ manual operation all complete, including cost, convenance, taxes, T &amp; P etc complete as per direction of Engineer-in-charge.</td>
<td></td>
<td></td>
<td>10000</td>
<td>20000</td>
</tr>
</tbody>
</table>
**Name of Work** :-Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At DUMRIPUT, RMC, Odisha

**ABSTRACT FOR STEEL & PLUMBING & SANITARY WORK**

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<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>WATER TRANSFER PUMP FROM DOMESTIC WATER TANK UGR TO OVER HEAD TANK</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flow rate= 185 lit/min each pump</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Head= 15 mtr</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Single-phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Motor HP=1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1SET ( 1 WORKING + 1 STAND BY)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Providing, fitting &amp; fixing pvc rung 200 mm X 300mm Step Iron (inside u.g.r.)etc. all complete as per direction of Engineer-in-charge.</td>
<td>No</td>
<td>20</td>
<td>179.7</td>
<td>3594</td>
</tr>
<tr>
<td>35</td>
<td>supplying fixing GI half round rain water gutter under the sloped roofs including providing necessary nuts and bolts, protection bar etc., complete as per the direction of the Engineer-in-charges.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>200 mm dia half round gutter</td>
<td>rm</td>
<td>115</td>
<td>1100</td>
<td>126500</td>
</tr>
<tr>
<td>b</td>
<td>150 mm dia half round gutter</td>
<td>rm</td>
<td>115</td>
<td>900</td>
<td>103500</td>
</tr>
<tr>
<td></td>
<td>BORE WELL(Production well)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>Labour for drilling a perfectly bore hole for specified dia for specified depth below G.L through consolidated and unconsolidated rocks with fast drilling sophisticated DTH/combination rig to suit the site condition as per the direction of the Engineer-in-charge including use of own Rigs with it accessories, T&amp;P consumables etc., for lowering of 200mm dia GI/PVC pipe for housing fitted with socket and with or without well screen as per necessity for soft, medium, hard &amp; boulder formation (GI/PVC/MS casing pipe if required to prevent collapse of over burden is to be provided by the contractor including lowering and withdrawing after completion of Tube well) 200mm dia to 400mm dia in overburden portion including packing of gravel supplied by the contractor for 400mm dia bore only.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a)</td>
<td>200 mm dia</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1)</td>
<td>0 Mtr to 80 Mtr</td>
<td>Each Mtr</td>
<td>80</td>
<td>657</td>
<td>52560</td>
</tr>
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</table>
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<tr>
<td>37</td>
<td>Lowering the following size of G.I. /PVC/MS housing pipe with or without slotted pipes as per the necessity from ground level up to 45mtr depth fitted and fixed up in perfectly vertical position including cutting &amp; threading of pipes &amp; slotted pipes &amp; supplying &amp; fixing all jointing materials, tools &amp; plant etc. all complete &amp; keeping the top of casing pipe threaded including plugging tube-wells to prevent entry of foreign materials &amp; keeping the casing pipe 1.00mtr above GL.</td>
<td>Each Mtr</td>
<td>40</td>
<td>1659.45</td>
<td>66378</td>
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<tr>
<td>38</td>
<td>Cleaning and developing the tube well with their own compressor continuously worked till clear and adequate discharge is obtained from the tube well including supply and use of all necessary equipment and labour as per direction of Engineer-in-charge.</td>
<td>Each No</td>
<td>1</td>
<td>4919</td>
<td>4919</td>
</tr>
<tr>
<td>39</td>
<td>Providing, fitting and fixing and laying of HDPE pipe with supply of all materials all complete as per PH specification &amp; direction of Engineer-in-charge. (MAKE: ORIPLAST)</td>
<td>Each Mtr</td>
<td>70</td>
<td>210</td>
<td>14700</td>
</tr>
<tr>
<td>40</td>
<td>Supplying fitting, fixing of 3.00 HP submersible pump TEXMO Make(Item code no.TDF255 type : TRF 908 HS +SF007R) including cost of all materials, transportation and taxes of pump etc. complete as per PH specification &amp; direction of Engineer-in-charge.</td>
<td>Each Set</td>
<td>1</td>
<td>19000</td>
<td>19000</td>
</tr>
<tr>
<td>41</td>
<td>Supplying all materials, labour, T&amp;P for fitting and fixing of required control panel including DOL starter with indicator 32 Amp TPN main switch including connection, installation etc. all complete as per specification &amp; direction of Engineer-in-charge. (Model no :BEI-SSD2045*321 relay range 13-18 )make TC</td>
<td>Each Set</td>
<td>1</td>
<td>5050</td>
<td>5050</td>
</tr>
<tr>
<td>42</td>
<td>Supplying, fitting and fixing of 3core flat industrial cable for submission conforming to IS 694 Flexible 1100V. To IS 694. including all cost of material, labour, T&amp;P etc all complete. (Make: Finlox.)</td>
<td>Each Mtr</td>
<td>90</td>
<td>106</td>
<td>9540</td>
</tr>
<tr>
<td>43</td>
<td>Supplying, fitting, fixing of S.S tapper 2nos of 0.45mtr long M.S supporting clamps with M.S nuts &amp; bolt and 200mm tube well cover &amp; cap suitable for the above pump sets.</td>
<td>Each Set</td>
<td>1</td>
<td>2000</td>
<td>2000</td>
</tr>
</tbody>
</table>
**Name of Work**: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At DUMRIPUT, RMC, Odisha

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<th>Amount</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Rain water Harvesting</td>
<td>Structure - 2 nos</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>Sinking of tube well through D.T.H.Rig.</td>
<td>Mtr.</td>
<td>50</td>
<td>657</td>
<td>32850</td>
</tr>
<tr>
<td>45</td>
<td>Lowering of PVC casing pipe inside bore.</td>
<td>Mtr.</td>
<td>50</td>
<td>136</td>
<td>6800</td>
</tr>
<tr>
<td>46</td>
<td>Cost of 200mm dia (Sch.80) Pipe</td>
<td>Mtr.</td>
<td>50</td>
<td>1523.45</td>
<td>76172.5</td>
</tr>
<tr>
<td>47</td>
<td>Cutting slot in casing pipe for recharge of rain water</td>
<td>Mtr.</td>
<td>50</td>
<td>353.5</td>
<td>17675</td>
</tr>
<tr>
<td>48</td>
<td>Labour for packing gravel outside the tube well</td>
<td>Cum</td>
<td>4.7</td>
<td>110.1</td>
<td>517.47</td>
</tr>
<tr>
<td>49</td>
<td>Cost of washed gravel.</td>
<td>Cum</td>
<td>4.7</td>
<td>1612.4</td>
<td>7578.28</td>
</tr>
<tr>
<td>50</td>
<td>Earth work in all kinds of soil within 50 mtr initial lead and 1.5mtr initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3 mtr in depth and as per direction of the Engineer in charge.</td>
<td>Cum</td>
<td>133.38</td>
<td>129.7</td>
<td>17299.386</td>
</tr>
<tr>
<td>51</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:4:8) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>52</td>
<td>Supplying all materials, labour, T&amp;P and providing brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:6) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge.</td>
<td></td>
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Sign and Stamp of EPIL

20

Sign and Stamp of bidder
<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>53</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Inside-2x2(7.15+2.50)x2.0m=77.20</td>
<td></td>
<td>77.2</td>
<td></td>
<td>20155.2</td>
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<tr>
<td></td>
<td>2x2x2.50x2.0m=20.00</td>
<td></td>
<td>20</td>
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</tr>
<tr>
<td></td>
<td>Outside-2x2(7.65+3.0)x2.0m=85.20</td>
<td></td>
<td>85.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sqm</td>
<td>182.4</td>
<td>110.5</td>
<td>20155.2</td>
</tr>
<tr>
<td>54</td>
<td>Supplying all materials, labour, T&amp;P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inside-2x2(7.15+2.50)x2.0m=77.20</td>
<td></td>
<td>77.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2x2x2.50x2.0m=20.00</td>
<td></td>
<td>20</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Sqm</td>
<td>97.2</td>
<td>23.1</td>
<td>2245.32</td>
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<td>55</td>
<td>Supplying all materials, labour, T&amp;P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge.</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>Roof slab-2x1x0.90x2.50=4.50</td>
<td></td>
<td>4.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2x2(1.40+3.00)x0.10=1.76</td>
<td></td>
<td>1.76</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sqm</td>
<td>6.26</td>
<td>353.7</td>
<td>2214.162</td>
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<tr>
<td>56</td>
<td>Supplying all materials, labour, T&amp;P and providing reinforced cement concrete work of M-25 grade with 20mm and down grade black hard granite crusher broken stone chips including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge.</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>2x1x1.40x3.00x0.10=0.42</td>
<td>Cum</td>
<td>0.84</td>
<td>5502.7</td>
<td>4622.268</td>
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<td>Sr. No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
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<tr>
<td></td>
<td><strong>ABSTRACT FOR STEEL &amp; PLUMBING &amp; SANITARY WORK</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>57</td>
<td>Supplying all materials, labour, T&amp;P and providing M.S reinforcement for R.C.C work including cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Qntl.</td>
<td>0.68</td>
<td>6023</td>
<td>4095.64</td>
</tr>
<tr>
<td>58</td>
<td>Providing and filling filter media</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>40mm size bolder-2x1x6.0x2.50x0.85=25.50</td>
<td>Cum</td>
<td>25.5</td>
<td>1414.5</td>
<td>36069.75</td>
</tr>
<tr>
<td>b</td>
<td>20mm size washed gravel-2x1x6.0x2.50x0.40=12.00</td>
<td>Cum</td>
<td>12</td>
<td>1723.5</td>
<td>20682</td>
</tr>
<tr>
<td>c</td>
<td>Course sand-2x1x6.0x2.50x0.30=9.00</td>
<td>Cum</td>
<td>9</td>
<td>582.5</td>
<td>5242.5</td>
</tr>
<tr>
<td>59</td>
<td>Providing fitting and fixing M.S.grill, Jalli cover over the harvesty pindi</td>
<td>Qntl.</td>
<td>6</td>
<td>6100</td>
<td>36600</td>
</tr>
<tr>
<td>60</td>
<td>Earth work in all kinds of soil within 50 mtr initial lead and 1.5mtr initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3 mtr in depth and as per direction of the Engineer in charge.</td>
<td>Cum</td>
<td>4.54</td>
<td>129.7</td>
<td>588.838</td>
</tr>
<tr>
<td>61</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12mm size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>In ground floor</td>
<td>Cum</td>
<td>2.54</td>
<td>5584.4</td>
<td>14184.376</td>
</tr>
<tr>
<td>62</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:3:6) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cum</td>
<td>3.56</td>
<td>4287.6</td>
<td>15263.856</td>
</tr>
<tr>
<td>63</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) with punning on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
**Name of Work**: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At DUMRIPUT, RMC, Odisha

### ABSTRACT FOR STEEL & PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>64</td>
<td>a. Ground floor</td>
<td>sqm</td>
<td>59.5</td>
<td>123.9</td>
<td>7372.05</td>
</tr>
<tr>
<td></td>
<td>b. Supplying all materials, labour, T&amp;P and providing 1st class K.B. Brick work in C.M (1:4) in foundation and plinth including watering, curing, conveyance of all materials to site.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>a. In ground floor</td>
<td>Cum</td>
<td>8.56</td>
<td>4552.5</td>
<td>38969.4</td>
</tr>
<tr>
<td></td>
<td>b. Construction of 20 users septic tank</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>66</td>
<td>a. Earth work in excavation of foundation in all kinds of soil within 50 m initial lead and 1.5 m initial lift including rough dressing &amp; breaking clods to maximum 5 cm to 7 cm and laying in layers not exceeding 0.3 m in depth and as per direction of the Engineer in Charge.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>b. Extra lifts of 1.50 mtr or part thereof over the initial lift of 1.5 mtr in all kinds of embankments and road works and ordinary earthwork in general.</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>67</td>
<td>a. In ground floor</td>
<td>Cum</td>
<td>0.55</td>
<td>4287.6</td>
<td>2358.18</td>
</tr>
<tr>
<td></td>
<td>b. Supplying all materials, labour, T&amp;P and providing cement concrete (1:3:6) with 4 cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in Charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. In ground floor</td>
<td>Cum</td>
<td>1.13</td>
<td>5584.4</td>
<td>7315.564</td>
</tr>
<tr>
<td></td>
<td>b. Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12 m size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in Charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. In ground floor</td>
<td>Cum</td>
<td>0.15</td>
<td>0.28</td>
<td></td>
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</tbody>
</table>

**Sign and Stamp of EPIL**

23

**Sign and Stamp of bidder**
**Name of Work**: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At DUMRIPUT, RMC, Odisha

### ABSTRACT FOR STEEL & PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
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<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>68</td>
<td>Supplying all materials, labour, T&amp;P and providing brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:4) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>In F&amp;P</td>
<td>cum</td>
<td>4.82</td>
<td>4552.5</td>
<td>21943.05</td>
</tr>
<tr>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>69</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>In ground floor</td>
<td>sqm</td>
<td>32.94</td>
<td>115.7</td>
<td>3811.158</td>
</tr>
<tr>
<td>Inside</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1.95m+1.87m)1.13m=4.32</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2x2.33mx½(1.95m+1.87m)=8.90</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outside</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(3.09m+1.89m)0.70m=6.97</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(2.83m+1.63)1.43m=12.76</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>70</td>
<td>Supplying all materials, labour, T&amp;P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>In ground floor</td>
<td>sqm</td>
<td>13.22</td>
<td>23.1</td>
<td>305.382</td>
</tr>
<tr>
<td>71</td>
<td>Supplying all materials, labour, T&amp;P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>a.</td>
<td>R.C.C floor and roof slabs</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>In floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.30mx1.10m=2.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(2.86m+1.66m)0.10m=0.90</td>
<td></td>
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</tr>
</tbody>
</table>
**Name of Work** :-Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At DUMRIPUT, RMC, Odisha

**ABSTRACT FOR STEEL & PLUMBING & SANITARY WORK**

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>72</td>
<td>Supplying all materials, labour, T&amp;P and providing M.S reinforcement for R.C.C work including cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>sqm</td>
<td>3.43</td>
<td>353.7</td>
<td>1213.191</td>
</tr>
<tr>
<td></td>
<td>a. In ground floor</td>
<td>Qntl</td>
<td>0.38</td>
<td>5226</td>
<td>1985.88</td>
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<tr>
<td>73</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12mm size hard broken granite chips for R.C.C works including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>cum</td>
<td>0.47</td>
<td>5584.4</td>
<td>2624.668</td>
</tr>
<tr>
<td></td>
<td>a. In ground floor-2.86mx1.66mx0.10m=0.47</td>
<td>cum</td>
<td>0.47</td>
<td>5584.4</td>
<td>2624.668</td>
</tr>
<tr>
<td>74</td>
<td>Supplying all materials, labour, T&amp;P and providing fitting and fixing 100mm x 100mm x 100mm SW Tee in wall including filling the recess with cement concrete (1:3:6) with 12mm size h.g chips all complete including watering, curing, conveyance of all materials to worksite, payment of royalty all complete as per specification and direction of the Engineer in charge</td>
<td>Each</td>
<td>2</td>
<td>321.9</td>
<td>643.8</td>
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<tr>
<td>75</td>
<td>Supplying all materials, labour, T&amp;P and making MS step iron in 20mm diameter MS steel bars and fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge</td>
<td>Each</td>
<td>5</td>
<td>181.3</td>
<td>906.5</td>
</tr>
<tr>
<td>76</td>
<td>Filling in foundation and plinth with excavated materials, moorum including watering and ramming as directed by the Engineer in charge</td>
<td>cum</td>
<td>3.45</td>
<td>72</td>
<td>248.4</td>
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**Total** | | | | | **1616923.633**
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<th>S. No.</th>
<th>Description of Item</th>
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<th>Rate</th>
<th>Amount</th>
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<td>PART 4</td>
<td><strong>Insulation Work</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Providing Poly Urethene composite sandwich Ceiling panels 100mm thk. for Ceiling</td>
<td>Sq. Mtrs.</td>
<td>1168.54</td>
<td>2247</td>
<td>2625709.38</td>
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<tr>
<td></td>
<td>with 0.50mm BMT pre painted Galvalume PPGL sheet on both side, with tongue and</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>groove joints, PUF(Poly Urethene foam) shall be of density 40Kg/Cu.mt. +2%, The</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>panels shall be CFC Free certified., complete with erection and commissioning as</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>walk in cooler ceiling with supporting -T and flashings and fixtures, silicon, PUF</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>chemical sealant complete item</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Providing EPS thermocole insulation for floor in two layers of 50+75mm each that</td>
<td>Sq. Mtrs.</td>
<td>1168.54</td>
<td>1498</td>
<td>1750472.92</td>
</tr>
<tr>
<td></td>
<td>is 125 mm complete. as per specification of material and workmanship, first of all</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>apply bitumin primer over the cleaned surface, then fix polyethylenet sheet of</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>500 micron, over which fix one layer of thermocole using bitumin 85x25, seal the</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>joints, then apply bitumin, again fix second layer, again seal the joints with</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td>bitumin, complete item</td>
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<tr>
<td>3</td>
<td>Providing Poly Urethene composite sandwich panel 100 mm thk. for Outer Wall</td>
<td>Sq. Mtrs.</td>
<td>1980.51</td>
<td>2140</td>
<td>4238291.4</td>
</tr>
<tr>
<td></td>
<td>with 0.50mm BMT pre painted Galvalume PPGL sheet on chamber side face and 0.25mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>thk PPGI(Pre painted Glvanised, as per specification of material and workmanship)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>iron sheet on wallside face, with tongue and groove joint, PUF(Poly Urethene foam)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>shall be of density 40Kg/Cu.mt. +2%, The panels shall be CFC Free certified.,</td>
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<td></td>
<td>including erection and commissioning as walk in cooler walls with flashings,</td>
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<tr>
<td></td>
<td>fixtures, silicon sealant, PUF chemical complete item</td>
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<tr>
<td>4</td>
<td>Providing Poly Urethene composite sandwich panel for Partition wall, 100 mm thk.</td>
<td>Sq. Mtrs.</td>
<td>381.48</td>
<td>2140</td>
<td>816367.2</td>
</tr>
<tr>
<td></td>
<td>with 0.50mm BMT both sides pre painted Galvalume PPGL sheet on chamber side face</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>and 0.25mm thk PPGI(Pre painted Glvanised, as per specification of material</td>
<td></td>
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<tr>
<td></td>
<td>and workmanship)iron sheet on wallside face, with tongue and groove joint, PUF(</td>
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<tr>
<td></td>
<td>Poly Urethene foam) shall be of density 40Kg/Cu.mt. +2%, The panels shall be CFC</td>
<td></td>
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<tr>
<td></td>
<td>Free certified., including erection and commissioning as walk in cooler partition</td>
<td></td>
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<tr>
<td></td>
<td>wall with fixtures and flashings using silicon sealant and PUF chemical complete</td>
<td></td>
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<td></td>
<td>item</td>
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<tr>
<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
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<td>-------</td>
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</tr>
<tr>
<td>5</td>
<td>Providing and fixing Single leaf manual hinge hatch door/windows 100mm thk PU insulation with 0.6mm thk. Coated steel finish. W=1200mm, H=2100mm, as per specification of material and workmanship</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Doors</td>
<td>Nos.</td>
<td>19</td>
<td>48150</td>
<td>914850</td>
</tr>
<tr>
<td>b</td>
<td>Windows</td>
<td>Nos.</td>
<td>8</td>
<td>37450</td>
<td>299600</td>
</tr>
<tr>
<td>6</td>
<td>Providing Suction pipeline insulation with 50/75mm pipe of EPS in throught suction line in machine room,Low pressure receiver and chamber complete Top should be clad with Aluminius sheet complete.</td>
<td></td>
<td></td>
<td></td>
<td>695500</td>
</tr>
<tr>
<td>7</td>
<td>Strip Curtain 150 mm wide for 2X1 M door opening, 3 mm thick</td>
<td>Nos.</td>
<td>19</td>
<td>1500</td>
<td>28500</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>11369291</strong></td>
</tr>
</tbody>
</table>

Name of Work :-Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At DUMRIPUT, RMC, Odisha
<table>
<thead>
<tr>
<th>S. No.</th>
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<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Supply, installation &amp; commissioning of silent type 160 KVA, 415V, 50Hz, 1500 RPM, 0.8 Lagging p.f., D.G. Set with all accessories excluding AMF Panel with acoustic enclosure. Conforming to BS 5514, 649, IS 10000, capable of taking 10% overload for one hour after 12 hours of continuous operation including base frame, foundation platform, fuel tank, starting system, batteries etc. conforming to CPWD General specification for DG Sets and including Earthing. Complete in all respect.</td>
<td>No</td>
<td>1</td>
<td>875000</td>
<td>875000</td>
</tr>
<tr>
<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
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<td></td>
<td>**PART 7  **</td>
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<td></td>
<td><strong>ELECTRICAL WORK</strong></td>
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<tr>
<td></td>
<td>SITC of Electric control Panel having all electrical controls with</td>
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<tr>
<td></td>
<td>MCCBs incoming main and earth fault relay, HRC fuses, one CT</td>
<td></td>
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<td></td>
<td>operated ammeter 0-800 amps and one volt meter 0-800 volts etc.</td>
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<tr>
<td></td>
<td>complete unit to run above plant. Specification mention as below</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>1. <strong>INCOMER-</strong></td>
<td></td>
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<tr>
<td></td>
<td>Main MCCB of any standard make, Control and Switchgear etc of</td>
<td></td>
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<tr>
<td></td>
<td>Capacity, 630A 01 No., Change over Switch, 01 No. METERING-</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>indicating lamp R/Y/B 230V 03 No., control fuse with HRC link 2A</td>
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<tr>
<td></td>
<td>07, APFC relay 12 stage make 01 No., Multifunctional Meter 0-</td>
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<td></td>
<td>800A 01 No., CT800/5Amp/ class 1 800/5A 04 no.</td>
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<td></td>
<td>2. <strong>OUTGOING-</strong></td>
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<tr>
<td></td>
<td>a) 75HP ATS starters Qty 03 Nos. (300A SFU with HRC link 300A</td>
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<tr>
<td></td>
<td>03 No., Control MCB 6Amp 9No., 160A 3P Contactor 06 Nos. 80A</td>
<td></td>
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<tr>
<td></td>
<td>3 pole contactor 3No. Thermal over load relay 66-110A 03No., on delay timer 06No.,</td>
<td></td>
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<tr>
<td></td>
<td>ATS Transformer 03No., Ameter digital type with ASS 0-300A 03No., CT300/5Amp class 1</td>
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<tr>
<td></td>
<td>09No., Indicating lamp R/Y/B/OFF/TRIP 230V 15No., Start/Stop Push button 06No.</td>
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<tr>
<td></td>
<td>b) 5HP DOL starter for pump with standby- 20A MCB TP 10KA, 18A 3P Contactor</td>
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<tr>
<td></td>
<td>09 No., Thermal over load relay 6-10A 03 No., 5HP VFD 02 No. Indicating lamp ON/OFF/</td>
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<tr>
<td></td>
<td>TRIP 04 No., Start stop push button 230V 04 No., Auto manual selector switch 02 No.,</td>
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<tr>
<td></td>
<td>c) 5HP DOL Starter for Water Pump and LIFT motor-20A MCB TP 10KA, 20A 02 No. Control</td>
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<tr>
<td></td>
<td>MCB 6Amp SP, 6A, 02 No., 18A 3P Contactor 02 No., Thermal over load relay 6-10A 02 No.</td>
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<tr>
<td></td>
<td>indicating lamp ON/OFF/TRIP 06 Nos., Auto Manual Selector switch 02 Nos., Start/Stop</td>
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<td></td>
<td>Push Button 230V 04 Nos.</td>
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<td></td>
<td>d) 5HP DOL starter for Fans 03 Nos.- 20A MCB TP 10KA, 20A 02 No.</td>
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<td></td>
<td>Control MCB 6Amp SP, 6A, 02 No.</td>
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<td></td>
<td>18A 3P Contactor 02 No., Thermal over load relay 6-10A 02 No.</td>
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<tr>
<td></td>
<td>indicating lamp ON/OFF/TRIP 06 Nos., Auto Manual Selector switch 02 Nos., Start/Stop</td>
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<td></td>
<td>Push Button 230V 04 Nos.</td>
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<td></td>
<td><strong>SUPPLY OF CABLE</strong></td>
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<td></td>
<td>Supply, laying , jointing and making end termination with brass</td>
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<td></td>
<td>compression gland and aluminium lugs of one number PVC insulated and PVC sheathed</td>
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<tr>
<td></td>
<td>XLPE power cable of 1.1 KV grade3.5 CORE 18S Sqmm AL.CONDUCTOR CABLE direct in ground</td>
<td></td>
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<td></td>
<td>including excavation, san cushioning, protective covering (Gi pipe i.e. 40mm, 50mm</td>
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<td></td>
<td>and 80mm as required and Brick where necessary), refilling the trench etc. as required.</td>
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<td></td>
<td>Mtrs 100</td>
<td></td>
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<td><strong>3</strong></td>
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<td></td>
<td>Supply, laying , jointing and making end termination with brass</td>
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<tr>
<td></td>
<td>compression gland and aluminium lugs of one number PVC insulated and PVC sheathed</td>
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<tr>
<td></td>
<td>XLPE power cable of of 1.1 KV grade 3.5 CORE 50 Sqmm AL.CONDUCTOR CABLE direct in</td>
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<tr>
<td></td>
<td>ground including excavation, san cushioning, protective covering (Gi pipe i.e. 40mm,</td>
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<td></td>
<td>50mm and 80mm as required and Brick where necessary), refilling the trench etc. as</td>
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<td>required.</td>
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<tr>
<td></td>
<td>Mtrs 50</td>
<td></td>
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<tr>
<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
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<tr>
<td>4</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shielded XLPE power cable of 1.1 KV grade 3.5 CORE 35 Sqmm Al. CONDUCTOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary) , refilling the trench etc. as required.</td>
<td>Mtrs</td>
<td>50</td>
<td>602</td>
<td>30100</td>
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<tr>
<td>5</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shielded XLPE power cable of 1.1 KV grade 3.5 CORE 10 Sqmm Cu. CONDUCTOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary) , refilling the trench etc. as required.</td>
<td>Mtrs</td>
<td>200</td>
<td>400</td>
<td>80000</td>
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<tr>
<td>6</td>
<td>Wiring of light points/fan points (6A/5A) with junction boxes, MS covers etc. All materials i.e. switches / sockets / MS boxes / hardwares and wires etc. shall be of approved make and shall be supplied/installed under scope of work for concealed flush type arrangement. The earthwire PVC insulated 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade is to be supplied/installed as per drawing and specifications. Complete work has to be executed strictly as per drawing Point wiring covers all work scope from switch board to points.</td>
<td>Nos</td>
<td>405</td>
<td>1134</td>
<td>459270</td>
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<tr>
<td>7</td>
<td>Wiring of two way control point with 2 x 1.5 SQMM copper wire 660V / 1.1 KV copper cable 660V / 1.1 KV grade PVC insulated including supply of material.</td>
<td>Nos</td>
<td>3</td>
<td>1112</td>
<td>3336</td>
</tr>
<tr>
<td>8</td>
<td>Wiring of bell/buzzer points with 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade insulated wire (including supply of all material) including CPL buzzer board.</td>
<td>Nos</td>
<td>18</td>
<td>2298</td>
<td>41364</td>
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<tr>
<td>9</td>
<td>Materials</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>Providing and fixing of BULKHEAD LED fittings of 40 watt each</td>
<td>Nos</td>
<td>325</td>
<td>2000</td>
<td>650000</td>
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<tr>
<td>ii)</td>
<td>Providing and fixing of LED Tube Light fittings of 40 watt each</td>
<td>Nos</td>
<td>40</td>
<td>1150</td>
<td>46000</td>
</tr>
<tr>
<td>iii)</td>
<td>Providing and fixing of 1400RPM Ceiling Fan</td>
<td>Nos</td>
<td>40</td>
<td>2350</td>
<td>94000</td>
</tr>
<tr>
<td>iv)</td>
<td>Providing and fixing 1x400W HPSV street light fittings with accessories like control switch, clamps, bend rod etc.</td>
<td>Nos</td>
<td>8</td>
<td>7400</td>
<td>59200</td>
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</table>
Name of Work :-Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At DUMRIPUT, RMC, Odisha

### ABSTRACT FOR ELECTRICAL WORK

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Preparing an earthing pit (Plate electrode) by using 600 x 600 x 3.15mm thk. GI plates at location shown in the drawing including supply laying and installation of all necessary material as earth electrodes, strips, wires, funnel, screen, watering pipes, brick chamber, CI frame with cover and to complete.</td>
<td>Nos</td>
<td>9</td>
<td>11500</td>
<td>103500</td>
</tr>
<tr>
<td>11</td>
<td>Supply, Installation, Testing &amp; Commissioning of following type Distribution board surface / flush mounted with Single Door MCB DBs. The DB shall have appropriate no. of top &amp; bottom knock outs for outgoing circuits &amp; shall be complete with necessary bus bars, interconnection terminals &amp; earth studs. All terminations in DB shall be complete with ferruling, dressing &amp; all circuits shall be properly labeled with PVC strip (sticker type) having identification as per the final approval of Consultant.</td>
<td>Nos</td>
<td>9</td>
<td>11500</td>
<td>103500</td>
</tr>
<tr>
<td>11</td>
<td>i) 2Way MCB DB</td>
<td>Nos</td>
<td>18</td>
<td>673</td>
<td>12114</td>
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<tr>
<td>11</td>
<td>ii) 8 Way Vertical TPN DB</td>
<td>Nos</td>
<td>3</td>
<td>9652</td>
<td>28956</td>
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<tr>
<td>12</td>
<td>Supply and fixing following type MCBs in existing MCB DBs including its incoming and outgoing connection with suitable size of PVC insulated, copper conductor flexible wire etc. as reqd.</td>
<td>Nos</td>
<td>18</td>
<td>673</td>
<td>12114</td>
</tr>
<tr>
<td>13</td>
<td>LIGHTNING ARRESTOR</td>
<td></td>
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<tr>
<td>13</td>
<td>Supply, Installation, testing and commissioning of High pulsar voltage OPR 30 Early streamer emission (ESE) Advance Lightning Protection system with 4 meter high Pulsar 30 having 65 meter protection radius IN LEVEL 2 complies with NFC-17-102 standards. The Air terminal should be capable to collect the ambient electric field and should emit the upward streamer with the defined Gain in time. The installation should be strictly followed as per manufacturer’s instructions. The system should include the following items complete in all respects.</td>
<td>Set</td>
<td>1</td>
<td>16000</td>
<td>16000</td>
</tr>
<tr>
<td>13</td>
<td>i) GI mast for mounting the terminal &amp; adaptor to mount the OPR 30 with suitable base plate, should have provision for Guy wire clamping system, termination arrangement for the Down-Conductor.</td>
<td>Set</td>
<td>1</td>
<td>16000</td>
<td>16000</td>
</tr>
<tr>
<td>13</td>
<td>ii) Down conductor of 70 sq.mm single core insulated flexible Copper cable with necessary accessories, etc OR Copper strip of size 25 X 3mm down conductor of suitable length as per building height with suitable mounting accessories and mounted on Insulators.</td>
<td>Mtrs</td>
<td>60</td>
<td>850</td>
<td>51000</td>
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<tr>
<td>13</td>
<td>Lightning Flash counter working electro mechanically without any power supply. Equipment should count lightning strokes of 0.4KA to 150 KA.(8/20 micro second waveform) tested as per IEC 60-1:1989</td>
<td>Nos</td>
<td>1</td>
<td>16000</td>
<td>16000</td>
</tr>
</tbody>
</table>
Name of Work :-Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -5000 M.T. At DUMRIPUT, RMC, Odisha

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<th>Amount</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Supply, installation, testing &amp; commissioning of maintenance free chemical earth pit set consisting of 1.2M long 16 mm dia 250 Micron Cu-coated MS rod(2 nos) connected together with clamps along with 10 Kg of ground enhancing chemical GRIC compound (without use of charcoal, salt or another combine). It should be capable of reducing soil resistivity by at least 50%. The earth pit shall be covered with Polyplastic heavy duty cover.</td>
<td>Nos</td>
<td>3</td>
<td>9500</td>
<td>28500</td>
</tr>
<tr>
<td>14</td>
<td>Point wiring for 5 / 6 amp socket outlet with 2 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia MS conduit with piano type switch ,phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required.</td>
<td>Nos</td>
<td>15</td>
<td>1341</td>
<td>20115</td>
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<tr>
<td>15</td>
<td>Point wiring for 15 / 16 amp socket outlet with 2 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia MS conduit with piano type switch ,phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required.</td>
<td>Nos</td>
<td>10</td>
<td>1598</td>
<td>15980</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>3720539</strong></td>
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</tbody>
</table>

Sign and Stamp of EPIL

32

Sign and Stamp of bidder
## ABSTRACT FOR FIRE FIGHTING WORK

<table>
<thead>
<tr>
<th>Sr No</th>
<th>Item Description</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PART 8</strong></td>
<td><strong>FIRE FIGHTING WORK</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>SITC of following dia MS Pipes (B Class) with necessary bends, hydrant stand, isolation valves, flanges, landing valve, RRL Hose, Branch pipe, Hose box, underground road crossing, colouring etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) 150 mm</td>
<td>Rmt</td>
<td>35</td>
<td>3187.8</td>
<td>111573</td>
</tr>
<tr>
<td></td>
<td>ii) 100 mm</td>
<td>Rmt</td>
<td>180</td>
<td>2500</td>
<td>450000</td>
</tr>
<tr>
<td>2</td>
<td>SITC of flexible Fire Hoses (first aid horeel) with with a wall-mounted bracket, hose guide, jet nozzle and 30 metres hose.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Supply installation testing and commissioning of following pumps for fire fighting system</td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>i) 1620 LPM (50 Mtrs Head, 40 HP) fire hydrant pump (with all attachments like NRV, Cut off valve, air caution vessel, Pressure gauge, Pressure switch all complete etc)</td>
<td>nos</td>
<td>1</td>
<td>200000</td>
<td>200000</td>
</tr>
<tr>
<td></td>
<td>ii) 180 LPM jockey pump, 50 Mtrs head (3HP) Vertical type with (with all attachments like NRV, Cut off valve, Pressure gauge, Pressure switch all complete)</td>
<td>nos</td>
<td>1</td>
<td>65000</td>
<td>65000</td>
</tr>
<tr>
<td></td>
<td>iii) 1620 LPM Diesel Engine driven hydrant pump, 40 HP, 50 Mtrs Head (with all attachments like NRV, Cut off valve, Pressure gauge, Pressure switch, fuel Tank, Base Plate, battery, all complete etc)</td>
<td>nos</td>
<td>1</td>
<td>350000</td>
<td>350000</td>
</tr>
<tr>
<td>4</td>
<td>Fire Detection system</td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>a</td>
<td>Supply installation of multi criteria detectors (smoke + heat)</td>
<td></td>
<td>100</td>
<td>3245</td>
<td>324500</td>
</tr>
<tr>
<td>b</td>
<td>Supply installation of following addressable fire alarm panels</td>
<td></td>
<td></td>
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<td>0</td>
</tr>
<tr>
<td>i)</td>
<td>Repeater panels</td>
<td>Nos</td>
<td>3</td>
<td>85387.5</td>
<td>256162.5</td>
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<tr>
<td>ii)</td>
<td>Main fire alarm panel with MCP, Hooter, Isolater module.</td>
<td>Nos</td>
<td>1</td>
<td>250470</td>
<td>250470</td>
</tr>
<tr>
<td>c</td>
<td>2 c x 1.5 sq mm cu flexbile cable in MS conduit for detector wiring</td>
<td>Rmt</td>
<td>700</td>
<td>160</td>
<td>112000</td>
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<tr>
<td>5</td>
<td>Co2 Fire extinguishers</td>
<td></td>
<td>8</td>
<td>7500</td>
<td>60000</td>
</tr>
<tr>
<td>6</td>
<td>DCP fire extinguishers</td>
<td></td>
<td>20</td>
<td>3500</td>
<td>70000</td>
</tr>
<tr>
<td>7</td>
<td>Pump Control Panel for quoted main (1620 LPM), diesel (1620 LPM) and jokey (180 LPM) fire pump auto operation with earthing &amp; pump wiring</td>
<td>Nos</td>
<td>1</td>
<td>300000</td>
<td>300000</td>
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<tr>
<td><strong>Total</strong></td>
<td></td>
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### Name of Work
Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 5000 M.T. At DUMRIPUT, RMC, Odisha

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>PART 9</td>
<td>LIFT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Endless Chain &amp; Sprocket type open platform, motorised manually operated Bi directional bag lift</td>
<td>No</td>
<td>1</td>
<td>952300</td>
<td>952300</td>
</tr>
<tr>
<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>--------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------</td>
<td>------</td>
<td>------------</td>
<td>-------------</td>
</tr>
<tr>
<td>1</td>
<td>Heavy duty high speed industrial type three cylinder vertical reciprocating ammonia refrigeration compressors Kirloskar KC-2/Frick/Superfreeze/Mycom or equivalent make with drive set, stop valve for suction and discharge with flanges and counter flanges, HP/LP OP cutouts, gauges, base frame, bolts, tool kit, gasket set and ferrule complete set with erection and commissioning, testing. Heavy duty high speed industrial type three cylinder vertical reciprocating ammonia refrigeration compressors Kirloskar KC-2/Frick/Superfreeze/Mycom or equivalent make with drive set, stop valve for suction and discharge with flanges and counter flanges, HP/LP OP cutouts, gauges, base frame, bolts, tool kit, gasket set and ferrule complete set with erection and commissioning, testing.</td>
<td>Nos.</td>
<td>3</td>
<td>499333.69</td>
<td>1498001.07</td>
</tr>
<tr>
<td>3</td>
<td>Providing Electric motor of Kirloskar / Crompton / GEC of 50 HP and 1440 RPM, Induction for operation on 440/400 volts, 50 cycles, 3 phase AC supply for driving the Compressors.</td>
<td>Nos.</td>
<td>3</td>
<td>178333.69</td>
<td>535001.07</td>
</tr>
<tr>
<td>4</td>
<td>Providing MEI / Kilbern / L &amp; T motor starter for above mentioned 50HP motor respectfully with ammeter of AE make and 2 overload relays and cable box including starter oil etc. complete. Providing Centrifugal mono block pumps(12M head, 12 LPS) for circulating water with TFC squirrel cage induction motor of 5.0 HP suitable for operation on 400/440 volts, 50 cycles, three phase AC supply and necessary inlet and outlet pipes and foot valves (Kirloskar model no. KDS555 / Crompton model No. MBP 52 / Texmo model No. TMH-6) one fitted stand by.</td>
<td>Nos.</td>
<td>2</td>
<td>26750</td>
<td>53500</td>
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<tr>
<td>5</td>
<td>Providing Liquid ammonia receiver of 600mmx6.0 mt long fabricated with 14mm thk plates with inlet and outlet valves, gauge glass valves with gauge glass including MS stand complete.</td>
<td>Nos.</td>
<td>1</td>
<td>187250</td>
<td>187250</td>
</tr>
<tr>
<td>6</td>
<td>Providing Oil separator fabricated with 10mm thk. MS plate with size 1350x600mm complete with companion flange.</td>
<td>Nos.</td>
<td>1</td>
<td>26750</td>
<td>26750</td>
</tr>
<tr>
<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
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<tr>
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<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>7</td>
<td>Providing Atmospheric condenser 10 pipes high 16 Condensers made in TATA/JINDAL/PRAKASH SURYA MS 50mm thk Round Pipe with fabrication and erection with angle grame 65x65x6 with water ling in GI 50mm B Class Pipe of TATA/JINDAL/PRAKASH SURYA make wth header of 150mm dia GI Pipe, all Complete item suitable for heat load of 550KW including sand blasting and ZINC spray galvanising 120GSM.</td>
<td>Nos.</td>
<td>16</td>
<td>59920</td>
<td>958720</td>
</tr>
<tr>
<td>8</td>
<td>Providing Air Cooling Units of alfa laval/ICL/starcooler and condensers/Frick or equivalent make, 03 Nos in each Chamber of refrigeration capacity 36KW each suitable for 0 deg C, Refrigerant ammonia evaporating(pump feed), air volume 48000 CMH, fans 3X710mm axial fan, 1440 RPM, motor 0.75KW(1HP) each, 415V/3ph/50Hz, Stainless steel tubes with plain aluminium fins, 4 fpi, case work GI white powder coated complete with erection and commissioning at top.</td>
<td>Sets</td>
<td>12</td>
<td>285333.69</td>
<td>3424004.28</td>
</tr>
<tr>
<td>9</td>
<td>Provision of First charge of ammonia and oil 68 No. freeze oil for initial temperature as required and maintained for one year.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>374500</td>
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<tr>
<td>10</td>
<td>Black and GI pipes of different sizes for the completion of water and gas lines and for inter connection of entire plant with suction discharge and liquid lines.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>535000</td>
</tr>
<tr>
<td>11</td>
<td>Sundry material such as gaskets, thread seals, packing sheets, nut bolts, water valves, flanges, V-belts and other required equipments complete as required for various plant and machinery for 5000 mt capacity.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>214000</td>
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<tr>
<td>12</td>
<td>Providing Energy Recovery wheel in each chamber of 1547Mt each, 02 nos, suitable for 04 air changes in a day. Danfoss/Manik/Any ISI make as per NHB norms and Standards.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>428000</td>
</tr>
<tr>
<td>13</td>
<td>Equipment for Co2 gas removal suitable for 02 chambers of 1547MT each to hold the co2 level 2000PPM as per NHB Norms and Standards.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>1391000</td>
</tr>
<tr>
<td>14</td>
<td>Providing Freon plant for Four chambers of 52 MT eachwith eoeoprators and condensing units complete with pipe line, pipeline insulation suitable for heat load of 28.15KW at peak load, complete with installation and commissioning with electrification.</td>
<td>Each</td>
<td>1</td>
<td>3638000</td>
<td>3638000</td>
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<tr>
<td>15</td>
<td>Load cell based Weight Monitoring system all complete with remot display</td>
<td>Nos</td>
<td>6</td>
<td>50000</td>
<td>300000</td>
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<td></td>
<td><strong>TOTAL</strong></td>
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<td>PART-1</td>
<td>Civil Work</td>
<td>Rs. 32055120</td>
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<td>PART-2</td>
<td>Structural Work</td>
<td>Rs. 18138093</td>
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<td>PART-3</td>
<td>Plumbing &amp; Sanitary Works</td>
<td>Rs. 1536940.388</td>
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<td>PART-4</td>
<td>Insulation Work</td>
<td>Rs. 10757979</td>
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<td>PART-5</td>
<td>Plant Machinery</td>
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<td>PART-6</td>
<td>DG SET</td>
<td>Rs. 715000</td>
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<td>PART-7</td>
<td>Electrification</td>
<td>Rs. 3227579</td>
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<td>PART-8</td>
<td>Fire Fighting Work</td>
<td>Rs. 2,262,805.00</td>
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<td>PART-9</td>
<td>LIFT</td>
<td>Rs. 952300</td>
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<td>TOTAL</td>
<td></td>
<td>Rs. 81603526.39</td>
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<td>Sr.No.</td>
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<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>-------</td>
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<td>--------</td>
<td>-----------</td>
</tr>
<tr>
<td>1</td>
<td>Earth work in ordinary soil within 50m, initial lead and 1.5m initial lift including rought dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer- in-charge.</td>
<td></td>
<td>0.00</td>
<td>74.88</td>
<td>0.00</td>
</tr>
<tr>
<td>2</td>
<td>Earth work in Hard soil within 50m, initial lead and 1.5m initial lift including rought dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer- in-charge.</td>
<td></td>
<td>3418.49</td>
<td>119.90</td>
<td>409876.89</td>
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<td>3</td>
<td>Extra Lift of 1.5m or part there of over the initial lift of 1.5 m in all kinds of embankments and road work and ordinary earth work in general.</td>
<td></td>
<td>1647.60</td>
<td>28.57</td>
<td>47076.84</td>
</tr>
<tr>
<td>4</td>
<td>Back filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5m.</td>
<td></td>
<td>2695.81</td>
<td>66.60</td>
<td>179540.89</td>
</tr>
<tr>
<td>5</td>
<td>Supplying &amp; Filling foundation trenches, plinth &amp; ditches with clean course river sand well watered and rammed in layers not exceeding 23 c.m. in depth with all lead and lift including cost, conveyance, loading, unloading, stacking, royalties and all taxes of sand, cost &amp; conveyance of water, cost of all Labour, labour cess, T&amp;P required for the work etc. complete in all respect as directed by the Engineer- in-charge.</td>
<td></td>
<td>702.53</td>
<td>342.82</td>
<td>240843.04</td>
</tr>
</tbody>
</table>

Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000 M.T. At KAMAKSHYANAGAR, RMC, Odisha
<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Providing and laying Plain cement concrete of proportion (1:4:8) using 4cm size metal etc. in foundation and floors using cement, 40mm. Size crusher broken H.G.Metal and screened and washed sharp river sand for mortar of approved quality and from approved quarry incluign hoisting, lowering and laying concrete to the required level, ramming, watering and curing etc. complete to required levels, laid in layers not exceeding 15cm thick in each layer including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P required for the work including shoring, shuttering and dewatering(if required) including hire and running charges of water pump required for the work etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td></td>
<td>112.04</td>
<td>3758.75</td>
<td>421137.60</td>
</tr>
<tr>
<td></td>
<td>cum</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>cum</strong></td>
<td></td>
<td>112.04</td>
<td>3758.75</td>
<td>421137.60</td>
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<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Providing and laying in position RCC ready mixed M-25 grade concrete having compressive strength at 28 days test not less than 250 kg/ sq.cm for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, and hoisting, lowering, laying and compacting concrete, watering and curing and finishing the exposed surfaces smooth with cost, conveyance, royalties, taxes of all materials with all labour, Labour cess and T&amp;P required for the work improve workability without impairing strength and durability as per direction of the Engineer - in - charge.</td>
<td>Cu mt</td>
<td>610.64</td>
<td>5324.23</td>
<td>3251178.59</td>
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<tr>
<td>a</td>
<td>Up to Plinth Level</td>
<td>Cu mt</td>
<td>351.85</td>
<td>6170.06</td>
<td>2170936.03</td>
</tr>
<tr>
<td>b</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Cu mt</td>
<td>307.34</td>
<td>7081.53</td>
<td>2176439.54</td>
</tr>
<tr>
<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Cu mt</td>
<td>138.77</td>
<td>8129.72</td>
<td>1128196.34</td>
</tr>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Cu mt</td>
<td>138.77</td>
<td>9335.14</td>
<td>1295477.90</td>
</tr>
<tr>
<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Cu mt</td>
<td>125.82</td>
<td>10721.38</td>
<td>1348921.40</td>
</tr>
<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Cu mt</td>
<td>125.82</td>
<td>10721.38</td>
<td>1348921.40</td>
</tr>
</tbody>
</table>
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000 M.T. At KAMAKSHYANAGAR, RMC, Odisha

**ABSTRACT FOR CIVIL WORK**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Unit</th>
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<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Rigid &amp; smooth centering &amp; shuttering for R.C.C. works including false works with all necessary bracing and tiles and supports with leveling centering covered with plastic sheet with provisions for necessary holes and pockets for electrical conduits, pipes, P.H. pipes, for hooks or boxes, switch and board insert plates, clamps and extension bars etc., including dismantling the same after the required interval from the date of casting including cost of all materials, labour, Labour cess, conveyance, loading and unloading, taxes, royalties, scaffolding, watering, curing, sundries, tools and plants, etc., complete as per the direction of the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sr. No.</th>
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<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>RCC Foundation and Plinth</td>
<td>Sqm.</td>
<td>3315.23</td>
<td>96.24</td>
<td>319058.37</td>
</tr>
<tr>
<td>b</td>
<td>RCC Beam, Column, Grider &amp; bresamer etc.</td>
<td>Sqm.</td>
<td>778.67</td>
<td>512.08</td>
<td>398745.16</td>
</tr>
<tr>
<td></td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>778.67</td>
<td>614.09</td>
<td>478173.43</td>
</tr>
<tr>
<td></td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>528.89</td>
<td>736.90</td>
<td>389741.55</td>
</tr>
<tr>
<td></td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>858.95</td>
<td>893.13</td>
<td>767152.76</td>
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<tr>
<td></td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>764.01</td>
<td>1071.75</td>
<td>818825.60</td>
</tr>
<tr>
<td></td>
<td>Forth Floor Level (14.0mtr above)</td>
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<td>261339.32</td>
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<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
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<td>Forth Floor Level (14.0mtr above)</td>
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### ABSTRACT FOR CIVIL WORK

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<th>Sr. No.</th>
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<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
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<td>9</td>
<td>Cutting, straightening coiled or bent up HYSD/TMT Reinforcement Bars welding or jointing if necessary, bending, binding, tying the grills as required for R.C.C. works, providing Fan Hooks where necessary and hoisting, lowering and placing the same in proper position according to the approved designs and drawings in all floors including cost, conveyance, loading, unloading and taxes or HYSD/TMT Reinforcement Bars and Binding wires of 18 to 20 gauge required for the work cost of all labour, T&amp;P and scaffolding complete in all respect as directed by the Engineer-in-charge (Payment will be made according to the actual/proper weight of HYSD/TMT Reinforcement Bars and Binding wires consumed in the particular work only)</td>
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<tr>
<td>10</td>
<td>Fly Ash Brick Masonry in cement mortar of mix (1:6) using Fly Ash bricks of size 25 cm x 12 cm x 8 cm in Foundation, Plinth &amp; super structure</td>
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<td></td>
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<tr>
<td></td>
<td>having crushing strength not less than 75 kg per square cm. with cement and screened &amp; washed sharp sand for mortar after immersing the bricks for 6 (Six) hours in water before use in works with all necessary projections, splays cutting, circular moulding, corbelling, chamfering, watering and curing etc. including cost, conveyance, stacking, loading, unloading, royalties, all taxes, cost of all labour, Labour cess, scaffolding, sundries and T&amp;P required for the works etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td></td>
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<tr>
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<td>Cum.</td>
<td>47.31</td>
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<tr>
<td>11</td>
<td>Providing 12mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement &amp; screened and washed sharp river sand</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary) including watering and curing, rounding of corners etc. complete with cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P, sundries and scaffolding required for the work etc. as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>a Up to Plinth Level</td>
<td>Sqm</td>
<td>0.00</td>
<td>93.24</td>
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Sign and Stamp of EPIL  
7  
Sign and Stamp of bidder
# ABSTRACT FOR CIVIL WORK

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<th>Sr. No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
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12. Providing 16mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement & screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary) including watering and curing, rounding of corners etc. complete with cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&P, sundries and scaffolding required for the work etc. as directed by the Engineer-in-charge.

<table>
<thead>
<tr>
<th>Sr. No.</th>
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<th>Unit</th>
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<th>Rate</th>
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## Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At KAMAKSHYANAGAR, RMC, Odisha

### ABSTRACT FOR CIVIL WORK

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<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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</thead>
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<tr>
<td>13</td>
<td>Painting 2 (Two) or more coats with Weather Coat Paint of premium brand Such as Asian/Berger/ICI paints or equivalent of approved quality &amp; colour, using required quantities of paint as specified by the manufacturer to give an even shade over a coat of wall priming (water based) on the finished external plastered surface at all height, watering the surface before applying the Weather Coat Paint and curing for the required period including cost, conveyance, loading, unloading, stacking and all taxes, cost of all Labour, Labourcess, Sundries, Scaffolding, Staging and T&amp;P etc. required for the work complete in all respect as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
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#### a. Up to Plinth Level
- **Sqm**: 1304.23
- **Rate**: 69.83
- **Amount**: 91073.22

#### b. Ground Floor Level (Plinth to 3.5Mtr)
- **Sqm**: 1911.91
- **Rate**: 69.83
- **Amount**: 133507.35

#### c. First Floor Level (3.5mtr to 7.0mtr)
- **Sqm**: 372.96
- **Rate**: 74.10
- **Amount**: 27636.34

#### d. Second Floor Level (7.0mtr to 10.5mtr)
- **Sqm**: 420.85
- **Rate**: 78.40
- **Amount**: 32995.85

#### e. Third Floor Level (10.5mtr to 14.0mtr)
- **Sqm**: 263.90
- **Rate**: 82.88
- **Amount**: 21872.80

#### f. Forth Floor Level (14.0mtr above)
- **Sqm**: 69.24
- **Rate**: 87.50
- **Amount**: 6058.34

#### 14 Priming one coat over with any approved primer including cost of material & labour For Plastere Surface with water bond Cement primer

#### a. Up to Plinth Level
- **Sqm**: 1304.23
- **Rate**: 43.10
- **Amount**: 56212.10

#### b. Ground Floor Level (Plinth to 3.5Mtr)
- **Sqm**: 2576.04
- **Rate**: 43.10
- **Amount**: 111027.28

#### c. First Floor Level (3.5mtr to 7.0mtr)
- **Sqm**: 745.92
- **Rate**: 44.50
- **Amount**: 33193.44

#### d. Second Floor Level (7.0mtr to 10.5mtr)
- **Sqm**: 793.81
- **Rate**: 46.00
- **Amount**: 36515.35

#### e. Third Floor Level (10.5mtr to 14.0mtr)
- **Sqm**: 636.86
- **Rate**: 47.60
- **Amount**: 30314.54

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Sign and Stamp of EPIL

Sign and Stamp of bidder
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<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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15. Priming one coat over with any approved primer including cost of material & labour For Iron work

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<tr>
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<td>Forth Floor Level (14.0mtr above)</td>
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16. Wall painting two coats with plastic emulsion paint of approved quality colour at all heights to the interior surface of the wall to make an even finished surface including sand papering, applying putty wherever necessary including cost, conveyance, loading, unloading, stacking, all taxes, cost of all Labour, Labour cess, scaffoldings, staging, sundries, T&P etc. required for the work complete as directed by the Engineer-in-charge.

<p>| | | | | | |</p>
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<td>117.70</td>
<td>66.52</td>
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**Name of Work:** Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000 M.T. At KAMAKSHYANAGAR, RMC, Odisha

**ABSTRACT FOR CIVIL WORK**

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<th>Qty</th>
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<td>Finishing wall surface of walls with Acrylic wall putty (water based) of approved make and finished smooth and even surface to receive painting including cost, conveyance, taxes of all materials, cost of all Labour, Labour cess, scaffolding, staging, sundries, T&amp;P etc. required for the work complete as directed by the Engineer-in-charge.</td>
<td></td>
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<tr>
<td></td>
<td><strong>e</strong> forth floor level (14.0mtr above)</td>
<td>Sqm.</td>
<td>117.70</td>
<td>77.67</td>
<td>9141.76</td>
</tr>
<tr>
<td>19</td>
<td>Brick on edge flooring using fly ash brick flat over one brick flat set in cement mortal (1:8)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>a</strong> ground floor</td>
<td>Sqm.</td>
<td>712.12</td>
<td>572.75</td>
<td>407867.25</td>
</tr>
<tr>
<td>20</td>
<td>Cement concrete flooring grade 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate) rounding off edges etc. but excluding the cost of nosing of steps etc. complete : 75 mm thick with 20 mm thick nominal size aggregate.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>a</strong> ground floor</td>
<td>Sqm.</td>
<td>712.12</td>
<td>214.00</td>
<td>152392.82</td>
</tr>
</tbody>
</table>
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000 M.T. At KAMAKSHYANAGAR, RMC, Odisha

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
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<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>Providing and fixing steel glazed doors windows and ventilator shutters of standard rolled steel section joints mitred and welded with steel lugs 13 x 3 mm, 10 cm. long embedded in cement concrete block 15 x 10 x 10 cm. of 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws with fixing clips or with bolts and nuts as required including providing and fixing of plain glass panes 4 mm thick with copper glazing clips and special metal sash putty of approved make or metal beading with screws complete including priming coat of approved steel primer, excluding the cost of metal beading and other fitting except necessary hinges of pivots steel handles peg stay etc. as required : Windows side hung (openable)</td>
<td></td>
<td>7.56</td>
<td>1500.00</td>
<td>11340.00</td>
</tr>
<tr>
<td>24</td>
<td>Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge 0.50mm (+0.05%) total coated thickness with zinc coating 120grams per sqm as per IS:227, in 240mpa steel grade, 5-7 microns.</td>
<td>Sqm</td>
<td>750.11</td>
<td>597.23</td>
<td>447989.24</td>
</tr>
</tbody>
</table>

**TOTAL** |                                                                                           | 32055120.00 |
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Supplying, fabricating and erection of steel work in built up tubular hollow hot finished welded type steel tubes for trusses or frame works, etc using round, square or rectangular hollow tubes including cutting, hoisting and fixing in position and applying a prime coat of approved steel primer including welding and bolting with special shaped washers including cost of all labours, joining materials, etc required for work complete as directed by Engineer-In-Charge.</td>
<td></td>
<td>113098.5</td>
<td>77.6</td>
<td>8776440.68</td>
</tr>
<tr>
<td></td>
<td>(i) Hoising of Trusses and Placing in Position</td>
<td>Kg.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Supplying, fabricating &amp; fixing of Structural steel items made out of channels, angles, flats, plates, chequerd plates I Section, Beam, Hollow Section any type of frame, space frame, gates, atrium in top, truss, purlins, columns, beams etc. complete as per drawing including priming with one coat of red oxide primer in all floors as per the direction of the Engineer-in-charge.</td>
<td></td>
<td>120639.8</td>
<td>77.6</td>
<td>9361652.05</td>
</tr>
<tr>
<td></td>
<td>(i) Hoising of Trusses and Placing in Position</td>
<td>Kg.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td>18138093</td>
</tr>
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### ABSTRACT FOR PLUMBING & SANITARY WORK

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<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PART 2</strong> PLUMBING &amp; SANITARY</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Providing all materials, labour, T&amp;P for fitting and fixing white glazed vitreous china floor mounted water closet (European pattern) 'P' or 'S' type of approved make, As per IS-2556 with ISI mark, including supply of suitable PVC wall plug and Brass screws etc. all complete including cost of PVC seat cover (solid) with hinges &amp; rubber buffers etc all complete including cost, taxes and conveyance as per specification all complete as per direction of Engineer-in-charge. Make (No.C0297(S)Trap+C0278(P)Trap(Elite)Hindware</td>
<td>SET</td>
<td>1</td>
<td>3455.50</td>
<td>3455.50</td>
</tr>
<tr>
<td>2</td>
<td>Providing all materials, labour, and T&amp;P for fitting and fixing of 10 liter capacity PVC low level cistern complete with all internal fittings of approved make as per IS-7231 with ISI mark and Providing of necessary PVC wall plug, screws and 15mm dia PVC connection pipe with union at both end, including testing etc. all complete as per specification &amp; direction of Engineer-in-charge. Make: HINDWARE/CERA/PARRYWARE</td>
<td>No</td>
<td>1</td>
<td>1460.90</td>
<td>1460.90</td>
</tr>
<tr>
<td>3</td>
<td>Supply all materials and labour for fitting and fixing of 550x400mm white glazed vitreous china wash hand basin of approved make with supply &amp; fixing of 32mm CP waste, 15mm dia PVC water connection pipe, basin bolts &amp; Nuts of approved quality including cutting the walls &amp; floor and making good the damages with cement concrete (1:2:4) etc. with all taxes, duties, transportation etc. all complete as per direction of EIC. (Make (No.C0460 Basin(550x400m)Papular(Hindware)</td>
<td>SET</td>
<td>2</td>
<td>3770.20</td>
<td>7540.40</td>
</tr>
<tr>
<td>4</td>
<td>Supplying all materials and labour, T&amp;P for fitting and fixing of 590mm x 390mmx 375mm white glazed vitreous china Half stall front standing urinal basin as per IS-2556 with ISI mark along with supply &amp; fixing of necessary component parts like pair of C.I./M.S. bracket including all taxes, duties, transportation etc. with all complete fittings as per specification &amp; direction of the Engineer-in-charge. (Make No.C0575+C8095(White)Hindware.</td>
<td>SET</td>
<td>2</td>
<td>4704.10</td>
<td>9408.20</td>
</tr>
<tr>
<td>Sr.No.</td>
<td>Particulars</td>
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<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>-------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------</td>
<td>-----</td>
<td>--------</td>
<td>---------</td>
</tr>
<tr>
<td>5</td>
<td>Providing all materials, labour, T&amp;P for fitting and fixing of 20mm thick white marble partition for urinal of following sizes including cutting, edge moulding, both side polishing including fixing on the wall after groove cutting &amp; making good the damages. The cost inclusive of all taxes, transportation etc. all complete as per specification &amp; direction of Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Marble partition Size - 2x0.90x0.75 = 1.35</td>
<td>Sqmt</td>
<td>1</td>
<td>2570.70</td>
<td>2570.70</td>
</tr>
<tr>
<td>6</td>
<td>Providing all materials, labour, T&amp;P for fixing of 600x450mm bevelled edge mirror of 5mm thick mounted on 4mm thick A C back sheet &amp; CP cup screw with PVC wall plugs including cost, conveyance, taxes of all materials complete as per specification and direction of E.I.C.</td>
<td></td>
<td>2</td>
<td>654.40</td>
<td>1308.80</td>
</tr>
<tr>
<td>7</td>
<td>Supplying all materials, labour, T&amp;P and fixing standard sized CP towel rail complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge</td>
<td></td>
<td>1</td>
<td>955.40</td>
<td>955.40</td>
</tr>
<tr>
<td>8</td>
<td>Supplying all materials, labour, T&amp;P and fixing standard sized glass-shelf with CP brass brackets and guard rails complete fixed to woden plugs with CP screws as per specification and direction of the Engineer in charge</td>
<td></td>
<td>1</td>
<td>569.90</td>
<td>569.90</td>
</tr>
<tr>
<td>9</td>
<td>Providing and fixing 15mm dia CP bib cock long body (Jaquar make)</td>
<td>NO</td>
<td>1</td>
<td>1179.40</td>
<td>1179.40</td>
</tr>
<tr>
<td>10</td>
<td>Providing and fixing 15mm dia CP angular stop cock (Jaquar make)</td>
<td>NO</td>
<td>5</td>
<td>840.30</td>
<td>4201.50</td>
</tr>
<tr>
<td>11</td>
<td>Providing and fixing Health Faucet with 1m long PVC tube &amp; wall hook (Jaquar make)</td>
<td>NO</td>
<td>1</td>
<td>1742.30</td>
<td>1742.30</td>
</tr>
<tr>
<td>12</td>
<td>Providing and fixing 15mm dia CP two way bib cock (Jaquar make)</td>
<td>NO</td>
<td>1</td>
<td>1179.40</td>
<td>1179.40</td>
</tr>
<tr>
<td>13</td>
<td>Providing and fixing 15mm dia pillar cock (Jaquar make)</td>
<td>NO</td>
<td>2</td>
<td>871.20</td>
<td>1742.40</td>
</tr>
<tr>
<td>14</td>
<td>Providing and fixing Robe Hook (Jaquar make)</td>
<td>NO</td>
<td>1</td>
<td>348.50</td>
<td>348.50</td>
</tr>
<tr>
<td>15</td>
<td>Providing and fixing soap case (Jaquar make)</td>
<td>NO</td>
<td>2</td>
<td>1016.30</td>
<td>2032.60</td>
</tr>
<tr>
<td>16</td>
<td>Providing and fixing 32mm CP Bottle Trap (Jaquar make)</td>
<td>NO</td>
<td>4</td>
<td>1451.90</td>
<td>5807.60</td>
</tr>
<tr>
<td>17</td>
<td>Providing and fixing 15mm dia pillar cock (Jaquar make)</td>
<td>NO</td>
<td>4</td>
<td>83.80</td>
<td>335.20</td>
</tr>
</tbody>
</table>
### Name of Work:
Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At KAMAKSHYANAGAR, RMC, Odisha

#### ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>18</td>
<td>Providing all materials, labour, T&amp;P for laying of following nominal dia UPVC pipes as per IS- 4985 with ISI mark including fixing of required size UPVC fittings like, bend, Tee, elbow, offsets, etc. and the same fixed on wall or floor with holder bat clamps screw etc. including testing the joints with required water pressure. The cost inclusive of all taxes, duties, transportation scaffolding etc. as per specification and direction of Engineer-in-charge. Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>40mm dia</td>
<td>RM</td>
<td>20</td>
<td>362.20</td>
<td>7244.00</td>
</tr>
<tr>
<td>b.</td>
<td>50mm dia</td>
<td>RM</td>
<td>15</td>
<td>420.70</td>
<td>6310.50</td>
</tr>
<tr>
<td>19</td>
<td>Providing and fixing on wall face unplasticised Rigid PVC soil, waste water pipes conforming to IS:13592 Type-B, including jointing with seal-ring conforming to IS:5382, Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>110mm dia</td>
<td>RM</td>
<td>40</td>
<td>330.90</td>
<td>13236.00</td>
</tr>
<tr>
<td>20</td>
<td>Providing and fixing on wall face unplasticised Rigid PVC for rain water pipes conforming to IS:13592 Type-A, including jointing with seal-ring conforming to IS:5382, Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>110mm dia</td>
<td>RM</td>
<td>80</td>
<td>330.90</td>
<td>26472.00</td>
</tr>
<tr>
<td>b.</td>
<td>160mm dia</td>
<td>RM</td>
<td>80</td>
<td>717.30</td>
<td>57384.00</td>
</tr>
<tr>
<td>21</td>
<td>Supplying all materials, labour, T&amp;P, fitting and fixing of following dia UPVC SWR fittings of approved make confirming to IS-14735 with all taxes, duties, transportation &amp; requisite testing as per specification &amp; direction of Engineer-in-charge. Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>110mm x 110mm P trap</td>
<td>NO</td>
<td>3</td>
<td>273.80</td>
<td>821.40</td>
</tr>
<tr>
<td>b.</td>
<td>110mm WC Connector/ Bend with lip ring</td>
<td>NO</td>
<td>1</td>
<td>228.00</td>
<td>228.00</td>
</tr>
<tr>
<td>c.</td>
<td>110mm dia Plain Bend 87.5 deg</td>
<td>NO</td>
<td>2</td>
<td>100.20</td>
<td>200.40</td>
</tr>
<tr>
<td>d.</td>
<td>160mm dia Plain Bend 87.5 deg</td>
<td>NO</td>
<td>2</td>
<td>312.00</td>
<td>624.00</td>
</tr>
<tr>
<td>e.</td>
<td>110mm dia Plain Bend 45 deg</td>
<td>NO</td>
<td>4</td>
<td>100.20</td>
<td>400.80</td>
</tr>
<tr>
<td>f.</td>
<td>160mm dia Plain Bend 45 deg</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Name of Work :-** Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At KAMAKSHYANAGAR, RMC, Odisha

**ABSTRACT FOR PLUMBING & SANITARY WORK**

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<tbody>
<tr>
<td>22</td>
<td>Providing all materials, labour, T&amp;P for laying in trenches of following nominal dia UPVC pipes (Sch-80) as per IS-ASTMD-1785 with ISI mark including fixing of required size fittings like bend, Tee, elbow, offsets etc. &amp; testing the joints with required water pressure. The cost inclusive of all taxes, duties, transportation scaffolding etc. as per specification and direction of Engineer-in-charge. Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>a</strong> 40mm Dia</td>
<td>metre</td>
<td>5</td>
<td>362.20</td>
<td>1811.00</td>
</tr>
<tr>
<td></td>
<td><strong>b</strong> 50mm Dia</td>
<td>metre</td>
<td>150</td>
<td>452.75</td>
<td>67912.50</td>
</tr>
<tr>
<td></td>
<td>Providing and fixing Clorinated Polyvinyl Chloride (CPVC) pipes SDR-13.5 conforming to IS: 15778, having thermal stability for hot &amp; cold water supply, including all CPVC plain &amp; brass threaded fittings including fixing the pipes with clamps at 1.00 m spacing. The includes jointing of pipes &amp; fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>a</strong> 25mm Dia</td>
<td>metre</td>
<td>15</td>
<td>186.00</td>
<td>2790.00</td>
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<tr>
<td></td>
<td><strong>b</strong> 20mm Dia</td>
<td>metre</td>
<td>15</td>
<td>145.20</td>
<td>2178.00</td>
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<tr>
<td></td>
<td>Supplying all materials, labour, T&amp;P fitting and fixing of different size brass upvc ASTMD-1785, sch-80 ball valve Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>a</strong> 25mm dia ball valve</td>
<td>No</td>
<td>1</td>
<td>336.70</td>
<td>336.70</td>
</tr>
<tr>
<td></td>
<td><strong>b</strong> 50 mm dia ball Valve</td>
<td>No</td>
<td>6</td>
<td>1260.00</td>
<td>7560.00</td>
</tr>
<tr>
<td></td>
<td>Supplying and fixing in position approved make bronze vertical non return valve(screwed) of approved make to IS: 778, Make: Zoloto/leader/shakti</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>a</strong> 50 mm dia</td>
<td>No</td>
<td>6</td>
<td>909.00</td>
<td>5454.00</td>
</tr>
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<tr>
<td></td>
<td>Fixing Rotational moulded polyethylene cylindrical vertical water storage tanks conforming to IS:12701--1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc, including hoisting up to a height of 5 metres above ground level and placing the tank to the required position and construction of required staging etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Fixing Rotational moulded polyethylene cylindrical vertical water storage tanks conforming to IS:12701--1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc, including hoisting up to a height of 5 metres above ground level and placing the tank to the required position and construction of required staging etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a 2000 litre capacity Double Layer Cylindrical Vertical water storage tanks</td>
<td>No</td>
<td>3</td>
<td>28973.20</td>
<td>86919.60</td>
</tr>
<tr>
<td>27</td>
<td>Cutting holes for taking 100mm dia PVC pipes through 250mm thick wall</td>
<td>No</td>
<td>6</td>
<td>133.40</td>
<td>800.40</td>
</tr>
<tr>
<td>28</td>
<td>Suppling all materials, joining materials, labour and T&amp;P and laying UPVC Foam core pipe as per IS:16098 sn-4 for underground rain water pipe and sewer Make ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a 110mm Nominal Dia pipe</td>
<td>metre</td>
<td>35</td>
<td>369.70</td>
<td>12939.50</td>
</tr>
<tr>
<td></td>
<td>b 160mm Nominal Dia pipe</td>
<td>metre</td>
<td>40</td>
<td>739.20</td>
<td>29568.00</td>
</tr>
<tr>
<td></td>
<td>c 200 mm Nominal Dia pipe</td>
<td>metre</td>
<td>13</td>
<td>956.40</td>
<td>12433.20</td>
</tr>
<tr>
<td>29</td>
<td>Providing and laying in trench cement concrete (1:3:6) with 40mm size hard granite metal in the following type of bedding for upvc pipes of the following internal diameter including curing complete as per specification</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a 110mm Nominal Dia pipe</td>
<td>metre</td>
<td>35</td>
<td>560.60</td>
<td>19621.00</td>
</tr>
<tr>
<td></td>
<td>b 160mm Nominal Dia pipe</td>
<td>metre</td>
<td>40</td>
<td>794.70</td>
<td>31788.00</td>
</tr>
<tr>
<td></td>
<td>c 200 mm Nominal Dia pipe</td>
<td>metre</td>
<td>13</td>
<td>990.50</td>
<td>12876.50</td>
</tr>
<tr>
<td>30</td>
<td>Supplying all materials, labour, T&amp;P and constructing gully trap chamber of the following inside size with 8cm thick R.C.C precast cover slab in cement concrete (1:2:4) mix using 12mm size h.g chips, foundation concrete (1:4:8) using 40mm size hard granite metal on bed and around trap, K.B brickwork in c.m (1:6) in F&amp;P and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mmx100mm size HCl gully trap, 150mmx150mm size C.I grating etc all complete as per approved drawing, specification and direction of the Engineer in charge Gully trap chamber of size 250mmx250mm with R.C.C cover slab</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>No</td>
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<td>1</td>
<td>1253.70</td>
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</tr>
</tbody>
</table>

Sign and Stamp of EPIL

Sign and Stamp of bidder
Name of Work: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At KAMAKSHYANAGAR, RMC, Odisha

**ABSTRACT FOR PLUMBING & SANITARY WORK**

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>Supplying all materials, labour, T&amp;P and constructing man hole chamber of the following size with cement concrete(1:3:6) using 40mm size hard granite metal on bed, 1st class K.B brickwork in cement mortar(1:6), moulding and shaping the channel inside and benching with cement concrete (1:2:4) using 12mm size h.g chips, 12mm thick cement plaster (1:3) with punning to inside, cement flush pointing (1:3) to outside, R.C.C cover slab in (1:2:4) using 12mm size h.g chips with RCC man hole cover, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge</td>
<td>No</td>
<td>10</td>
<td>13773.10</td>
<td>137731.00</td>
</tr>
<tr>
<td>32</td>
<td>Supplying all materials, labour, T&amp;P and constructing soakway pit of the following size with precast RCC rings joined loose, gravel backing in the rear of well steining, precast RCC cover slab in cement concrete (1:2:4) using 12mm size h.g chips fitted with iron lifting handles including cutting hole in the rings for inlet pipe, earthwork in open well excavation in all kinds of soil and refilling of cavity around the pit &amp; painting the iron works, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge - R.C.C rings soakway pit 1.22m dia x 2.10m deep</td>
<td>No</td>
<td>2</td>
<td>12873.40</td>
<td>25746.80</td>
</tr>
<tr>
<td></td>
<td>Construction of rain water harvesting pit</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Sr. No.</td>
<td>Particulars</td>
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<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
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</tr>
<tr>
<td>33</td>
<td>Supplying, installing, testing and commissioning of Non clog self priming centrifugal pump. Electric motor. The pump shall have cast iron delivery casting, cast iron impeller SS Shaft. Pump shall be provided with mechanical seal (gland packing). The pump shall be suitable for auto/ manual operation. All complete, including cost, convenience, taxes, T &amp; P etc complete as per direction of Engineer-in-charge.</td>
<td>No</td>
<td>2</td>
<td>10000.00</td>
<td>20000.00</td>
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<tr>
<td>34</td>
<td>WATER TRANSFER PUMP FROM DOMESTIC WATER TANK UGR TO OVER HEAD TANK</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Flow rate= 185 lit/min each pump</td>
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<tr>
<td></td>
<td>Head= 15 mtr</td>
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</tr>
<tr>
<td></td>
<td>Single- phase</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Motor HP=1</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>1SET ( 1 WORKING + 1 STAND BY)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>Providing, fitting &amp; fixing pvc rung 200 mm X 300mm Step Iron (inside u.g.r.) etc. all complete as per direction of Engineer-in-charge.</td>
<td>No</td>
<td>20</td>
<td>179.70</td>
<td>3594.00</td>
</tr>
<tr>
<td>36</td>
<td>supplying fixing GI half round rain water gutter under the sloped roofs including providing necessary nuts and bolts, protection bar etc., complete as per the direction of the Engineer-in-charges.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>200 mm dia half round gutter</td>
<td>rm</td>
<td>105</td>
<td>1100.00</td>
<td>115500.00</td>
</tr>
<tr>
<td>b</td>
<td>150 mm dia half round gutter</td>
<td>rm</td>
<td>105</td>
<td>900.00</td>
<td>94500.00</td>
</tr>
<tr>
<td></td>
<td>BORE WELL (Production well)</td>
<td></td>
<td></td>
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<tr>
<td>36</td>
<td>Labour for drilling a perfectly bore hole for specified dia for specified depth below G.L through consolidated and unconsolidated rocks with fast drilling sophisticated DTH/combination rig to suit the site condition as per the direction of the Engineer-in-charge including use of own Rigs with its accessories, T&amp;P consumables etc, for lowering of 200mm dia GI/PVC pipe for housing fitted with socket and with or without well screen as per necessity for soft, medium, hard &amp; boulder formation (GI/PVC/MS casing pipe if required to prevent collapse of over burden is to be provided by the contractor including lowering and withdrawing after completion of Tube well) 200mm dia to 400mm dia in overburden portion including packing of gravel supplied by the contractor for 400mm dia bore only.</td>
<td></td>
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</tr>
<tr>
<td>a)</td>
<td>200 mm dia</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sr.No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
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<td>Amount</td>
</tr>
<tr>
<td>--------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>1)</td>
<td>Lowering the following size of G.I. /PVC/MS housing pipe with or without slotted pipes as per the necessity from ground level up to 45mtr depth fitted and fixed up in perfectly vertical position including cutting &amp; threading of pipes &amp; slotted pipes &amp; supplying &amp; fixing all jointing materials, tools &amp; plant etc. all complete &amp; keeping the top of casing pipe threaded including plugging tube-wells to prevent entry of foreign materials and keeping the casing pipe 1.00mtr above GL.</td>
<td>Each Mtr</td>
<td>80</td>
<td>657.00</td>
<td>52560.00</td>
</tr>
<tr>
<td>37</td>
<td><img src="image.png" alt="image" /></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>38</td>
<td>Cleaning and developing the tube well with their own compressor continuously worked till clear and adequate discharge is obtained from the tube well including supply and use of all necessary equipment and labour as per direction of Engineer-in-charge.</td>
<td>Each No</td>
<td>1</td>
<td>4919.00</td>
<td>4919.00</td>
</tr>
<tr>
<td>39</td>
<td>Providing, fitting and fixing and laying of HDPE pipe with supply of all materials all complete as per PH specification &amp; direction of Engineer-in-charge. (MAKE: ORIPLAST)</td>
<td>Each Set</td>
<td>1</td>
<td>19000.00</td>
<td>19000.00</td>
</tr>
<tr>
<td>40</td>
<td>Supplying fitting, fixing of 3.00 HP submersible pump TEXMO Make (Item code no. TDF255 type: TRF 908 HS +SF007R) including cost of all materials, transportation and taxes of pump etc. complete as per PH specification &amp; direction of Engineer-in-charge.</td>
<td>Each Mtr</td>
<td>70</td>
<td>210.00</td>
<td>14700.00</td>
</tr>
<tr>
<td>41</td>
<td>Supplying all materials, labour, T&amp;P for fitting and fixing of required control panel including DOL starter with indicator 32 Amp TPN main switch including connection, installation etc. all complete as per specification &amp; direction of Engineer-in-charge. (Model no: BEI-SSD2045*321 relay range 13-18) make TC</td>
<td>Each Set</td>
<td>1</td>
<td>5050.00</td>
<td>5050.00</td>
</tr>
<tr>
<td>42</td>
<td>Supplying, fitting and fixing of 3core flat industrial cable for submission conforming to IS 694 Flexible 1100V. To IS 694. including all cost of material, labour, T&amp;P etc all complete. (Make: Finlox.)</td>
<td>Each Mtr</td>
<td>90</td>
<td>106.00</td>
<td>9540.00</td>
</tr>
</tbody>
</table>
### ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td>Supplying, fitting, fixing of S.S tapper 2nos of 0.45mtr long M.S supporting clamps with M.S nuts &amp; bolt and 200mm tube well cover &amp; cap suitable for the above pump sets.</td>
<td>Each Set</td>
<td>1</td>
<td>2000.00</td>
<td>2000.00</td>
</tr>
<tr>
<td>44</td>
<td>Rain water Harvesting. Structure - 2 nos</td>
<td></td>
<td></td>
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<tr>
<td>45</td>
<td>Sinking of tube well through D.T.H.Rig.</td>
<td>Mtr.</td>
<td>50</td>
<td>657.00</td>
<td>32850.00</td>
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<td>46</td>
<td>Lowering of PVC casing pipe inside bore.</td>
<td>Mtr.</td>
<td>50</td>
<td>136.00</td>
<td>6800.00</td>
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<td>47</td>
<td>Cost of 200mm dia (Sch.80) Pipe</td>
<td>Mtr.</td>
<td>50</td>
<td>1523.45</td>
<td>76172.50</td>
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<tr>
<td>48</td>
<td>Cutting slot in casing pipe for recharge of rain water</td>
<td>Mtr.</td>
<td>50</td>
<td>353.50</td>
<td>17675.00</td>
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<tr>
<td>49</td>
<td>Labour for packing gravel outside the tube well</td>
<td>Cum</td>
<td>4.7</td>
<td>110.10</td>
<td>517.47</td>
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<tr>
<td>50</td>
<td>Earth work in all kinds of soil within 50 mtr initial lead and 1.5mtr initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3 mtr in depth and as per direction of the Engineer in charge.</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>2x1x8.55x3.90x2.0=133.38</td>
<td>Cum</td>
<td>133.38</td>
<td>129.70</td>
<td>17299.39</td>
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<tr>
<td>51</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:4:8) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
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<tr>
<td></td>
<td>L.Wall-2x2x7.80x0.40x0.10=1.25</td>
<td></td>
<td>1.25</td>
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<tr>
<td></td>
<td>S.Wall-2x2x2.35x0.40x0.10=0.38</td>
<td></td>
<td>0.38</td>
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<tr>
<td></td>
<td>Base-2x1x2.35x1.15x0.10=0.54</td>
<td></td>
<td>0.54</td>
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<tr>
<td></td>
<td>Cum</td>
<td></td>
<td></td>
<td>2.16</td>
<td>3886.10</td>
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<tr>
<td>52</td>
<td>Supplying all materials, labour, T&amp;P and providing brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:6) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
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<tr>
<td></td>
<td>L.Wall-2x2x7.65x0.25x2.0m=15.30</td>
<td></td>
<td>15.3</td>
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<tr>
<td></td>
<td>S.Wall-2x3x2.50x0.25x2.0m=7.50</td>
<td></td>
<td>7.5</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Cum</td>
<td></td>
<td>22.8</td>
<td>3940.00</td>
<td>89832.00</td>
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<tr>
<td>Sr. No.</td>
<td>Particulars</td>
<td>Unit</td>
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<td>Amount</td>
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</tr>
<tr>
<td>53</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Inside-2x2(7.15+2.50)x2.0m=77.20</td>
<td></td>
<td>77.2</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>2x2x2.50x2.0m=20.00</td>
<td></td>
<td>20</td>
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<tr>
<td></td>
<td>Outside-2x2(7.65+3.0)x2.0m=85.20</td>
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<td>85.2</td>
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<tr>
<td></td>
<td></td>
<td>Sqm</td>
<td>182.4</td>
<td>110.50</td>
<td>20155.20</td>
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<tr>
<td>54</td>
<td>Supplying all materials, labour, T&amp;P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inside-2x2(7.15+2.50)x2.0m=77.20</td>
<td></td>
<td>77.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2x2x2.50x2.0m=20.00</td>
<td></td>
<td>20</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Sqm</td>
<td>97.2</td>
<td>23.10</td>
<td>2245.32</td>
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<tr>
<td>55</td>
<td>Supplying all materials, labour, T&amp;P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Roof slab-2x1x0.90x2.50=4.50</td>
<td></td>
<td>4.5</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>2x2(1.40+3.00)x0.10=1.76</td>
<td></td>
<td>1.76</td>
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<td></td>
<td></td>
<td>Sqm</td>
<td>6.26</td>
<td>353.70</td>
<td>2214.16</td>
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<tr>
<td>56</td>
<td>Supplying all materials, labour, T&amp;P and providing reinforced cement concrete work of M-25 grade with 20mm and down grade black hard granite crusher broken stone chips including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
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<tr>
<td></td>
<td>2x1x1.40x3.00x0.10=0.42</td>
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<td>0.84</td>
<td>5502.70</td>
<td>4622.27</td>
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</table>
### Name of Work: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At KAMAKSHYANAGAR, RMC, Odisha

#### ABSTRACT FOR PLUMBING & SANITARY WORK

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<tr>
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</tr>
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<tbody>
<tr>
<td>57</td>
<td>Supplying all materials, labour, T&amp;P and providing M.S reinforcement for R.C.C work including cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Qntl.</td>
<td>0.68</td>
<td>6023.00</td>
<td>4095.64</td>
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<tr>
<td>58</td>
<td>Providing and filling filter media</td>
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<tr>
<td>58a</td>
<td>40mm size bolder-2x1x6.0x2.50x0.85=25.50</td>
<td>Cum</td>
<td>25.5</td>
<td>1414.50</td>
<td>36069.75</td>
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<tr>
<td>58b</td>
<td>20mm size washed gravel-2x1x6.0x2.50x0.40=12.00</td>
<td>Cum</td>
<td>12</td>
<td>1723.50</td>
<td>20682.00</td>
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<tr>
<td>58c</td>
<td>Course sand-2x1x6.0x2.50x0.30=9.00</td>
<td>Cum</td>
<td>9</td>
<td>582.50</td>
<td>5242.50</td>
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<tr>
<td>59</td>
<td>Providing fitting and fixing M.S.grill,Jalli cover over the harvesty pindi</td>
<td>Qntl.</td>
<td>6</td>
<td>6100.00</td>
<td>36600.00</td>
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<tr>
<td>60</td>
<td>Earth work in all kinds of soil within 50 mtr initial lead and 1.5mtr initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3 mtr in depth and as per direction of the Engineer in charge.</td>
<td>Cum</td>
<td>4.54</td>
<td>129.70</td>
<td>588.84</td>
</tr>
<tr>
<td>61</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12mm size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
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<tr>
<td>61a</td>
<td>In ground floor</td>
<td>Cum</td>
<td>2.54</td>
<td>5584.40</td>
<td>14184.38</td>
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<tr>
<td>62</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:3:6) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>3.56</td>
<td>4287.60</td>
<td>15263.86</td>
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Sign and Stamp of EPIL  
24  
Sign and Stamp of bidder
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<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>63</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) with punning on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. Ground floor</td>
<td>sqm</td>
<td>59.5</td>
<td>123.90</td>
<td>7372.05</td>
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<tr>
<td>64</td>
<td>Supplying all materials, labour, T&amp;P and providing 1st class K.B. Brick work in C.M (1:4) in foundation and plinth including watering, curing, conveyance of all materials to site.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. In ground floor</td>
<td>Cum</td>
<td>8.56</td>
<td>4552.50</td>
<td>38969.40</td>
</tr>
<tr>
<td></td>
<td>Construction of 20 users septic tank</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>65</td>
<td>Earth work in excavation of foundation in all kinds of soil within 50m initial lead and 1.5m initial lift including rough dressing &amp; breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-in-Charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. 3.29mx2.09mx1.50m=10.31</td>
<td>cum</td>
<td>10.31</td>
<td>129.70</td>
<td>1337.21</td>
</tr>
<tr>
<td></td>
<td>b. Extra lifts of 1.50 mtr or part thereof over the initial lift of 1.5 mtr in all kinds of embankments and road works and ordinary earthwork in general.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.29mx2.09mx0.63m=4.33</td>
<td>cum</td>
<td>4.33</td>
<td>139.20</td>
<td>602.74</td>
</tr>
<tr>
<td>66</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:3:6) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. In ground floor-3.29mx2.09mx0.08m=0.55</td>
<td>cum</td>
<td>0.55</td>
<td>4287.60</td>
<td>2358.18</td>
</tr>
<tr>
<td></td>
<td>b.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.29mx2.09mx0.15m=1.03</td>
<td>cum</td>
<td>1.03</td>
<td>5584.40</td>
<td>7315.56</td>
</tr>
<tr>
<td></td>
<td>3.13mx1.13mx½(0.03m+0.13m)=0.28</td>
<td></td>
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</tr>
</tbody>
</table>
### Name of Work
Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At KAMAKSHYANAGAR, RMC, Odisha

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ABSTRACT FOR PLUMBING &amp; SANITARY WORK</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>68</td>
<td>Supplying all materials, labour, T&amp;P and providing brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:4) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>cum</td>
<td>4.82</td>
<td>4552.50</td>
<td>21943.05</td>
</tr>
<tr>
<td></td>
<td>a. In F&amp;P</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(3.09m+1.13m)0.38mx0.70m=2.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(2.83m+1.13m)0.25mx1.30m=2.57</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>69</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>sqm</td>
<td>32.94</td>
<td>115.70</td>
<td>3811.16</td>
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<tr>
<td></td>
<td>a. In ground floor</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Inside</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>(1.95m+1.87m)1.13m=4.32</td>
<td></td>
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<tr>
<td></td>
<td>2x2.33mx½(1.95m+1.87m)=8.90</td>
<td></td>
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<tr>
<td></td>
<td>Outside</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(3.09m+1.89m)0.70m=6.97</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>2(2.83m+1.63)1.43m=12.76</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>70</td>
<td>Supplying all materials, labour, T&amp;P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>sqm</td>
<td>13.22</td>
<td>23.10</td>
<td>305.38</td>
</tr>
<tr>
<td></td>
<td>a. In ground floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>71</td>
<td>Supplying all materials, labour, T&amp;P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. R.C.C floor and roof slabs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>In ground floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.30mx1.10m=2.53</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>2(2.86m+1.66m)0.10m=0.90</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Sr.No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>72</td>
<td>Supplying all materials, labour, T&amp;P and providing M.S reinforcement for R.C.C work including cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>sqm</td>
<td>3.43</td>
<td>353.70</td>
<td>1213.19</td>
</tr>
<tr>
<td>73</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12mm size hard broken granite chips for R.C.C works including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Qntl</td>
<td>0.38</td>
<td>5226.00</td>
<td>1985.88</td>
</tr>
<tr>
<td></td>
<td>a. In ground floor</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>74</td>
<td>Supplying all materials, labour, T&amp;P and providing, fitting and fixing 100mm x 100mm x 100mm SW Tee in wall including filling the recess with cement concrete (1:3:6) with 12mm size h.g chips all complete including watering, curing, conveyance of all materials to worksite, payment of royalty all complete as per specification and direction of the Engineer in charge</td>
<td>cum</td>
<td>0.47</td>
<td>5584.40</td>
<td>2624.67</td>
</tr>
<tr>
<td></td>
<td>a. In ground floor-2.86mx1.66mx0.10m=0.47</td>
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<td></td>
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<tr>
<td>75</td>
<td>Supplying all materials, labour, T&amp;P and making MS step iron in 20mm diameter MS steel bars and fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge.</td>
<td>Each</td>
<td>2</td>
<td>321.90</td>
<td>643.80</td>
</tr>
<tr>
<td>76</td>
<td>Filling in foundation and plinth with excavated materials, moorum including watering and ramming as directed by the Engineer in charge.</td>
<td>Each</td>
<td>5</td>
<td>181.30</td>
<td>906.50</td>
</tr>
<tr>
<td></td>
<td>2(3.29m+1.89m)x0.10mx0.70m=0.73</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(3.29m+1.63m)x0.23mx1.20m=2.72</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>cum</td>
<td>3.45</td>
<td></td>
<td>72.00</td>
<td>248.40</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>1536940.39</strong></td>
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</tbody>
</table>

Name of Work :-Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At KAMAKSHYANAGAR, RMC, Odisha

ABSTRACT FOR PLUMBING & SANITARY WORK

Sign and Stamp of EPIL

27

Sign and Stamp of bidder
## Name of Work
Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000 M.T. At KAMAKSHYANAGAR, RMC, Odisha

### ABSTRACT FOR INSULATION WORK

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PART 4</strong></td>
<td>Insulation Work</td>
<td><strong>Providing Poly Urethene composite sandwich ceiling panels 100mm thk. for Ceiling with 0.50mm BMT pre painted Galvalume PPGL sheet on both side, with tongue and groove joints, PUF(Poly Urethene foam) shall be of density 40Kg/Cu.mt. +-2%, The panels shall be CFC Free certified., complete with erection and commissioning as walk in cooler ceiling with supporting -T and flashings and fixtures, silicon, PUF chemical sealant complete item.</strong></td>
<td>Sq. Mtrs.</td>
<td>824.66</td>
<td>2247</td>
</tr>
<tr>
<td>2</td>
<td>Providing EPS thermocole insulation for floor in two layers of 50+75mm each that is 125 mm complete. as per specification of material and workmanship, first of all apply bitumin primer over the cleaned surface, then fix polyethylent sheet of 500 micron, over which fix one layer of thermocole using bitumin 85x25, seal the joints, then apply bitumin, again fix second layer, again seal the joints with bitumin, complete item.</td>
<td>Sq. Mtrs.</td>
<td>824.66</td>
<td>1498</td>
<td>1235340.68</td>
</tr>
<tr>
<td>3</td>
<td>Providing Poly Urethene composite sandwich panel 100 mm thk. for Outer Wall with 0.50mm BMT pre painted Galvalume PPGL sheet on chamber side face and 0.25mm thk PPGI( Pre painted Glvanised, as per specification of material and workmanship)iron sheet on wallside face, with tongue and groove joint, PUF(Poly Urethene foam) shall be of density 40Kg/Cu.mt. +-2%, The panels shall be CFC Free certified., including erection and commissioning as walk in cooler walls with flashings, fixtures,silicon sealant, PUF chemical complete item.</td>
<td>Sq. Mtrs.</td>
<td>2555.62</td>
<td>2140</td>
<td>5469026.8</td>
</tr>
</tbody>
</table>

Sign and Stamp of EPIL

Sign and Stamp of bidder
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Providing Poly Urethene composite sandwich panel for Partition wall, 100 mm thk. with 0.50mm BMT both sides pre painted Galvalume PPGL sheet on chamber side face and 0.25mm thk PPGI( Pre painted Glvanised, as per specification of material and workmanship)iron sheet on wallside face, with tongue and groove joint, PUF(Poly Urethene foam) shall be of density 40Kg/Cu.mt. +-2%, The panels shall be CFC Free certified., including erection and commissioning as walk in cooler partition wall with fixtures and flashings using silicon sealent and PUF chemical complete item.</td>
<td>Sq. Mtrs.</td>
<td>480</td>
<td>2140</td>
<td>1027200</td>
</tr>
<tr>
<td>5</td>
<td>Providing and fixing Single leaf manual hinge hatch door/windows 100mm thk PU insulation with 0.6mm thk. Coated steel finish. W=1200mm, H=2100mm, as per specification of material and workmanship</td>
<td>Nos.</td>
<td>12</td>
<td>48150</td>
<td>577800</td>
</tr>
<tr>
<td>6</td>
<td>Providing Suction pipeline insulation with 50/75mm pipe of EPS in through suction line in machine room,Low pressure receiver and chamber complete Top should be cladded with Aluminius sheet complete.</td>
<td>417300</td>
<td>417300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Strip Curtain 150 mm wide for 2X1 M door opening,3 mm thick</td>
<td>Nos</td>
<td>19</td>
<td>28500</td>
<td>28500</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td></td>
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<td></td>
<td>10757979</td>
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<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
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</tr>
<tr>
<td>1</td>
<td>Heavy duty high speed industrial type three cylinder vertical reciprocating ammonia refrigeration compressors Kirloskar KC-2/Frick/Superfreeze/Mycom or equivalent make with drive set, stop valve for suction and discharge with flanges and counter flanges, HP/LP OP cutouts, gauges, base frame, bolts, tool kit, gasket set and ferrule complete set with erection and commissioning, testing. Heavy duty high speed industrial type three cylinder vertical reciprocating ammonia refrigeration compressors Kirloskar KC-2/Frick/Superfreeze/Mycom or equivalent make with drive set, stop valve for suction and discharge with flanges and counter flanges, HP/LP OP cutouts, gauges, base frame, bolts, tool kit, gasket set and ferrule complete set with erection and commissioning, testing.</td>
<td>Nos.</td>
<td>3</td>
<td>499333.3</td>
<td>1498000.01</td>
</tr>
<tr>
<td>2</td>
<td>Providing Electric motor of Kirloskar / Crompton / GEC of 50 HP and 1440 RPM, Induction for operation on 440/400 volts, 50 cycles, 3 phase AC supply for driving the Compressors.</td>
<td>Nos.</td>
<td>3</td>
<td>160500</td>
<td>481500</td>
</tr>
<tr>
<td>3</td>
<td>Providing MEI / Kilbern / L &amp; T motor starter for above mentioned 50HP motor respectfully with ammeter of AE make and 2 overload relays and cable box including starter oil etc. complete.</td>
<td>Nos.</td>
<td>2</td>
<td>26750</td>
<td>53500</td>
</tr>
<tr>
<td>4</td>
<td>Providing Liquid ammonia receiver of 600mmx6.0 mt long fabricated with 14mm thk plates with inlet and outlet valves, gauge glass valves with gauge glass including MS stand complete. Providing Centrifugal mono block pumps (12M head, 12 LPS) for circulating water with TFC squirrel cage induction motor of 5.0 HP suitable for operation on 400/440 volts, 50 cycles, three phase AC supply and necessary inlet and outlet pipes and foot valves (Kirloskar model no. KDS515 / Crompton model No. MBP 52 / Texmo model No. TMH-6) one fitted stand by.</td>
<td>Nos.</td>
<td>1</td>
<td>187250</td>
<td>187250</td>
</tr>
<tr>
<td>5</td>
<td>Providing Oil separator fabricated with 10mm thk. MS plate with size 1350x600mm complete with companion flange.</td>
<td>Nos.</td>
<td>1</td>
<td>26750</td>
<td>26750</td>
</tr>
</tbody>
</table>
Name of Work: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000 M.T. At KAMAKSHYANAGAR, RMC, Odisha

**ABSTRACT FOR PLANT & MACHINERY WORK**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Providing Atmospheric condenser 10 pipes high 12 Condensers made in TATA/JINDAL/PRAKASH SURYA MS 50mm thk Round Pipe with fabrication and erection with angle grame 65x65x6 with water ling in GI 50mm B Class Pipe of TATA/JINDAL/PRAKASH SURYA make wth header of 150mm dia GI Pipe, all Complete item suitable for heat load of 425 KW including sand blasting and ZINC spray galvanising 120GSM.</td>
<td>Nos.</td>
<td>12</td>
<td>59920</td>
<td>719040</td>
</tr>
<tr>
<td>7</td>
<td>Providing Air Cooling Units of alfa laval/ICL/starcooler and condensers/Frick or equivalent make, 03 Nos in each Chamber of refrigeration capacity 36KW each suitable for 0 deg C, Refrigerant ammonia evaporating(pump feed), air volume 48000 CMH, fans 3X710mm axial fan, 1440 RPM, motor 0.75KW(1HP) each, 415V/3ph/50Hz, Stainless steel tubes with plain aluminium fins, 4 fpi, case work GI white powder coated complete with erection and commissioning at top.</td>
<td>Sets</td>
<td>8</td>
<td>285333.7</td>
<td>2282669.52</td>
</tr>
<tr>
<td>8</td>
<td>Provision of First charge of ammonia and oil 68 No. freeze oil for initial temperature as required and maintained for one year.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>350000</td>
</tr>
<tr>
<td>9</td>
<td>Black and GI pipes of different sizes for the completion of water and gas lines and for inter connection of entire plant with suction discharge and liquid lines.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>500000</td>
</tr>
<tr>
<td>10</td>
<td>Sundry material such as gaskets, thread seals, packing sheets, nut bolts, water valves, flanges, V-belts and other required equipments complete as required for various plant and machinery for 5000 mt capacity.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>200000</td>
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<tr>
<td>11</td>
<td>Providing Energy Recovery wheel in each chamber of 1547Mt each, 02 nos, suitable for 04 air changes in a day. Danfoss/Manik/Any ISI make as per NHB norms and Standards.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>400000</td>
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<tr>
<td>12</td>
<td>Equipment for Co2 gas removal suitable for 02 chambers of 1547MT each to hold the co2 level 2000PPM as per NHB Norms and Standards.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>130000</td>
</tr>
<tr>
<td>13</td>
<td>Providing Freon plant for Four chambers of 52 MT each with evaporators and condensing units complete with pipe line, pipeline insulation suitable for heat load of 28.15KW at peak load, ommplete with installation and commissioning with electrification.</td>
<td>Each</td>
<td>1</td>
<td>3638000</td>
<td>3638000</td>
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<tr>
<td>14</td>
<td>Load cell based Weight Monitoring system all complete with remot disply</td>
<td>Nos</td>
<td>6</td>
<td>53500</td>
<td>321000</td>
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**TOTAL** | | | | | **11957710**
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<th>Qty.</th>
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<th>Amount</th>
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<tbody>
<tr>
<td>1</td>
<td>Supply, installation &amp; commissioning of silent type 125 KVA, 415V, 50Hz, 1500 RPM, 0.8 Lagging p.f., D.G. Set with all accessories excluding AMF Panel with acoustic enclosure. Conforming to BS 5514, 649, IS 10000, capable of taking 10% overload for one hour after 12 hours of continuous operation including base frame, foundation platform, fuel tank, starting system, batteries etc. conforming to CPWD General specification for DG Sets and including Earthing. Complete in all respect.</td>
<td>No</td>
<td>1</td>
<td>715000</td>
<td>715000</td>
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<tr>
<td>Sr No</td>
<td>Item Description</td>
<td>Qty</td>
<td>Unit</td>
<td>Rate</td>
<td>Amount</td>
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<tr>
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<td><strong>PART-7 Electrification</strong></td>
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<tr>
<td>1</td>
<td>SITC of Electric control Panel having all electrical controls with MCCBs incoming main and earth fault relay, HRC fuses, one CT operated ammeter 0-400 amps and one volt meter 0-600 volts etc. complete unit to run above plant. Specification mention as below 1. INCOMER- Main MCCB of any standard make, Control and Switchgear etc of Capacity, 400A 01 No., Change over Switch, 01 No. METERING-indicating lamp R/Y/B 230V 03 No., control fuse with HRC link 2A 07, APFC relay 12 stage make 01 No., Multifunctional Meter 0-400A 01 No., CT400/5A Amp/ class 1 400/5A 04 no. 2. OUTGOING- a) 50HP ATS starters Qty 03 Nos. (200A SFU with HRC link 200A 03NO., Control MCB 6Amp 9No., 140A 3P Contactor 06 Nos. 70A 3 pole contactor 3No. Thermal over load relay 66-110A 03No., on delay timer 06No., ATS Transformer 03No., Ameter digital type with ASS 0-200A 03No., CT200/5A Amp class 1 09No., Indicating lamp R/Y/B/OFF/TRIP 230V 15No., Start/Stop Push button 06No. b) 5HP DOL starter for pump with standby- 20A MCB TP 10KA, 18A 3P Contactor 09 No., Thermal over load relay 6-10A 03 No., 5HP VFD 02 No. indicating lamp ON/OFF/TRIP 04 No., Start stop push button 230V 04 No., Auto manual selector switch 02 No., c) 5HP DOL Starter for Water Pump and LIFT motor- 20A MCB TP 10KA, 20A 02 No., Control MCB 6Amp SP, 6A, 02 No., 18A 1 Nos</td>
<td>1</td>
<td>Nos</td>
<td>128000</td>
<td>1280000</td>
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<td><strong>SUPPLY OF CABLE</strong></td>
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<td>2</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 KV grade 3.5 CORE 185 Sqmm Al. CONDUCTOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.</td>
<td>80</td>
<td>Mtrs</td>
<td>1986</td>
<td>158880</td>
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# ABSTRACT FOR ELECTRICAL WORK

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<th>Sr No</th>
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<th>Unit</th>
<th>Rate</th>
<th>Amount</th>
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<tr>
<td>3</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 KV grade 3.5 CORE 50 Sqmm Al.CONDUCATOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.</td>
<td>40</td>
<td>Mtrs</td>
<td>729</td>
<td>29160</td>
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<td>4</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 KV grade 3.5 CORE 35 Sqmm Al.CONDUCATOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.</td>
<td>40</td>
<td>Mtrs</td>
<td>596</td>
<td>23840</td>
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<tr>
<td>5</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 KV grade 3.5 CORE 10 Sqmm Cu.CONDUCATOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.</td>
<td>180</td>
<td>Mtrs</td>
<td>395</td>
<td>71100</td>
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<td>6</td>
<td>Wiring of light points/fan points (6A/5A) with junction boxes, MS covers etc. All materials i.e. switches / sockets / MS boxes / hardwares and wires etc. shall be of approved make and shall be supplied/installed under scope of work for concealed flush type arrangement. The earthwire PVC insulated 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade is to be supplied/installed as per drawing and specifications. Complete work has to be executed strictly as per drawing. Point wiring covers all work scope from switch board to points.</td>
<td>370</td>
<td>Nos</td>
<td>1134</td>
<td>419580</td>
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<td>7</td>
<td>Wiring of two way control point with 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade PVC insulated including supply of material.</td>
<td>3</td>
<td>Nos</td>
<td>1112</td>
<td>3336</td>
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</table>

### GENERAL LIGHT/POWER WIRING

- Wiring of light points/fan points (6A/5A) with junction boxes, MS covers etc. All materials i.e. switches / sockets / MS boxes / hardwares and wires etc. shall be of approved make and shall be supplied/installed under scope of work for concealed flush type arrangement. The earthwire PVC insulated 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade is to be supplied/installed as per drawing and specifications. Complete work has to be executed strictly as per drawing. Point wiring covers all work scope from switch board to points.

- Wiring of two way control point with 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade PVC insulated including supply of material.
Name of Work : -Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At KAMAKSHYANAGAR, RMC, Odisha

**ABSTRACT FOR ELECTRICAL WORK**

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Wiring of bell/buzzer points with 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade insulated wire (including supply of all material) including CPL buzzer board.</td>
<td>18</td>
<td>Nos</td>
<td>2298</td>
<td>41364</td>
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<td>9</td>
<td><strong>Materials</strong></td>
<td></td>
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<tr>
<td>i)</td>
<td>Providing and fixing of BULKHEAD LED fittings of 40 watt each</td>
<td>300</td>
<td>Nos</td>
<td>2000</td>
<td>600000</td>
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<tr>
<td>ii)</td>
<td>Providing and fixing of LED Tube Light fittings of 40 watt each</td>
<td>35</td>
<td>Nos</td>
<td>1150</td>
<td>40250</td>
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<tr>
<td>iii)</td>
<td>Providing and fixing of 1400RPM Ceiling Fan</td>
<td>35</td>
<td>Nos</td>
<td>2350</td>
<td>82250</td>
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<tr>
<td>iv)</td>
<td>Providing and fixing 1x400W HPSV street light fittings with accessories like control switch, clamps, bend rod etc.</td>
<td>8</td>
<td>Nos</td>
<td>7400</td>
<td>59200</td>
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<td>10</td>
<td>Preparing an earthing pit (Plate electrode) by using 600 x 600 x 3.15mm thk. GI plates at location shown in the drawing including supply laying and installation of all necessary material as earth electrodes, strips, wires, funnel, screen, watering pipes, brick chamber, CI frame with cover and to complete.</td>
<td>9</td>
<td>Nos</td>
<td>9000</td>
<td>81000</td>
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<tr>
<td>11</td>
<td>Supply, Installation, Testing &amp; Commissioning of following type Distribution board surface / flush mounted with Single Door MCB DBs. The DB shall have appropriate no. of top &amp; bottom knock outs for outgoing circuits &amp; shall be complete with necessary bus bars, interconnection terminals &amp; earth studs. All terminations in DB shall be complete with ferruling, dressing &amp; all circuits shall be properly labeled with PVC strip (sticker type) having identification as per the final approval of Consultant.</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>i)</td>
<td>2Way MCB DB</td>
<td>18</td>
<td>Nos</td>
<td>673</td>
<td>12114</td>
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<tr>
<td>ii)</td>
<td>8 Way Vertical TPN DB</td>
<td>3</td>
<td>Nos</td>
<td>9652</td>
<td>28956</td>
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<tr>
<td>12</td>
<td>Supply and fixing following type MCBs in existing MCB DBs including its incoming and out going connection with suitable size of PVC insulated, copper conductor flexible wire etc. as reqd.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>i)</td>
<td>32A 4 Pole MCB</td>
<td>18</td>
<td>Nos</td>
<td>953</td>
<td>17154</td>
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<td>Sr No</td>
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<td>Unit</td>
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<td>Amount</td>
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<tr>
<td></td>
<td>Supply, installation, testing and commissioning of High pulsar voltage OPR 30 Early streamer emission (ESE) Advance Lightning Protection system with 4 meter high Pulsar 30 having 65 meter protection radius IN LEVEL 2 complies with NFC-17-102 standards. The Air terminal should be capable to collect the ambient electric field and should emit the upward streamer with the defined Gain in time. The installation should be strictly followed as per manufacturer’s instructions. The system should include the following items complete in all respects.</td>
<td>1</td>
<td>Set</td>
<td>140000</td>
<td>140000</td>
</tr>
<tr>
<td></td>
<td>GI mast for mounting the terminal &amp; adaptor to mount the OPR 30 with suitable base plate, should have provision for Guy wire clamping system, termination arrangement for the Down- Conductor.</td>
<td>1</td>
<td>Set</td>
<td>18000</td>
<td>18000</td>
</tr>
<tr>
<td></td>
<td>Down conductor of 70 sq.mm single core insulated flexible Copper cable with necessary accessories, etc OR Copper strip of size 25 X 3mm down conductor of suitable length as per building height with suitable mounting accessories and mounted on Insulators.</td>
<td>60</td>
<td>Mtrs</td>
<td>780</td>
<td>46800</td>
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<tr>
<td></td>
<td>Lightning Flash counter working electro mechanically without any power supply. Equipment should count lightning strokes of 0.4KA to 150 KA.(8/20 micro second waveform) tested as per IEC 60-1:1989</td>
<td>1</td>
<td>Nos</td>
<td>14500</td>
<td>14500</td>
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<tr>
<td></td>
<td>Supply, installation, testing &amp; commissioning of maintenance free chemical earth pit set consisting of 1.2M long 16 mm dia 250 Micron Cu-coated MS rod(2 nos) connected together with clamps along with 10 Kg of ground enhancing chemical GRIC compound (without use of charcoal, salt or another combine). It should be capable of reducing soil resistivity by at least 50%. The earth pit shall be covered with Polyplastic heavy duty cover.</td>
<td>3</td>
<td>Nos</td>
<td>8000</td>
<td>24000</td>
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<tr>
<td></td>
<td>Point wiring for 5 / 6 amp socket outlet with 2 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia MS conduit with piano type switch ,phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required.</td>
<td>15</td>
<td>Nos</td>
<td>1341</td>
<td>20115</td>
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**ABSTRACT FOR ELECTRICAL WORK**

<table>
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<th>Unit</th>
<th>Rate</th>
<th>Amount</th>
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<tbody>
<tr>
<td>15</td>
<td>Point wiring for 15 / 16 amp socket outlet with 2 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia MS conduit with piano type switch, phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required.</td>
<td>10</td>
<td>Nos</td>
<td>1598</td>
<td>15980</td>
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<td><strong>Total</strong></td>
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<td><strong>3227579</strong></td>
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Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At KAMAKSHYANAGAR, RMC, Odisha

Sign and stamp of EPIL

Sign and stamp of bidder
<table>
<thead>
<tr>
<th>Sr No</th>
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<th>Unit</th>
<th>Rate</th>
<th>Amount</th>
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<tbody>
<tr>
<td>1</td>
<td>SITC of following dia MS Pipes (B Class) with necessary bends, hydrant stand, isolation valves, flanges, landing valve, RRL Hose, Branch pipe, Hose box, underground road crossing, colouring etc.</td>
<td>150 mm</td>
<td>15</td>
<td>Rmt</td>
<td>3187</td>
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<td></td>
<td>SITC of flexible Fire Hoses (firstaid horeel) with a wall-mounted bracket, hose guide, jet nozzle and 30 metres hose.</td>
<td>100 mm</td>
<td>170</td>
<td>Rmt</td>
<td>2500</td>
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<td>SITC of flexible Fire Hoses (firstaid horeel) with a wall-mounted bracket, hose guide, jet nozzle and 30 metres hose.</td>
<td>12</td>
<td>Set</td>
<td>9000</td>
<td>108,000.00</td>
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<td>3</td>
<td>Supply installation testing and commissioning of following pumps for fire fighting system</td>
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<tr>
<td></td>
<td>1620 LPM (50 Mtrs Head) fire hydrant pump (with all attachments like NRV, Cut off valve, air caution vessel, Pressure gauge, Pressure switch all complete etc)</td>
<td></td>
<td>1</td>
<td>nos</td>
<td>215000</td>
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<tr>
<td></td>
<td>180 LPM Jockey pump, 50 Mtrs Head (3HP) Vertical type with (with all attachments like NRV, Cut off valve, Pressure gauge, Pressure switch all complete)</td>
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<td>1</td>
<td>nos</td>
<td>68000</td>
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<tr>
<td></td>
<td>1620 LPM Diesel Engine driven hydrant pump, 50 Mtrs Head (with all attachments like NRV, Cut off valve, Pressure gauge, Pressure switch, Fuel Tank, Base Plate, battery, all complete etc)</td>
<td></td>
<td>1</td>
<td>nos</td>
<td>370000</td>
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<td>4</td>
<td>Fire Detection system</td>
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<td>Supply installation of multi criteria detectors (smoke + heat)</td>
<td>100</td>
<td>Nos</td>
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<td>Main fire alarm panel with MCP, Hooter, Isolater module.</td>
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<td>Nos</td>
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<td>2 x 1.5 sq mm copper armad cable with Junction box, saddle etc.</td>
<td>700</td>
<td>Rmt</td>
<td>160</td>
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<td>Co2 Fire extinguishers</td>
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<td>DCP Fire extinguishers</td>
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<td>7</td>
<td>Pump Control Panel for quoted main (1620 LPM), Diesel (1620 LPM) &amp; Jokey (180 LPM) Fire pump auto operation with earthing &amp; pump wiring</td>
<td>1.00</td>
<td>Nos</td>
<td>300000.00</td>
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Name of Work :-Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000 M.T. At KAMAKSHYANAGAR, RMC, Odisha

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<th>S. No.</th>
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<td>PART 9</td>
<td>LIFT</td>
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<td>1</td>
<td>Endless Chian &amp; Sprocket type open platform, motorised manually operated Bi directional bag lift</td>
<td>No</td>
<td>1</td>
<td>952300</td>
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<td>Civil Work</td>
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<td>Structural Work</td>
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<td>Insulation Work</td>
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<td>DG SET</td>
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<td>Fire Fighting Work</td>
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<tr>
<td>1</td>
<td>Earth work in ordinary soil within 50m, initial lead and 1.5m initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-in-charge.</td>
<td>cum</td>
<td>0.00</td>
<td>74.88</td>
<td>0.00</td>
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<td>2</td>
<td>Earth work in Hard soil within 50m, initial lead and 1.5m initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-in-charge.</td>
<td>cum</td>
<td>3418.49</td>
<td>119.90</td>
<td>409876.89</td>
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<td>3</td>
<td>Extra Lift of 1.5m or part there of over the initial lift of 1.5m in all kinds of embankments and road work and ordinary earth work in general.</td>
<td>cum</td>
<td>1647.60</td>
<td>28.57</td>
<td>47076.84</td>
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<tr>
<td>4</td>
<td>Back filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5m.</td>
<td>cum</td>
<td>2695.81</td>
<td>66.60</td>
<td>179540.89</td>
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<tr>
<td>5</td>
<td>Supplying &amp; Filling foundation trenches, plinth &amp; ditches with clean course river sand well watered and rammed in layers not exceeding 23 c.m. in depth with all lead and lift including cost, conveyance, loading, unloading, stacking, royalties and all taxes of sand, cost &amp; conveyance of water, cost of all labour, labour cess, T&amp;P required for the work etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td>cum</td>
<td>702.53</td>
<td>342.82</td>
<td>240843.04</td>
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## ABSTRACT FOR CIVIL WORK

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<th>Qty</th>
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<tbody>
<tr>
<td>6</td>
<td>Providing and laying Plain cement concrete of proportion (1:4:8) using 4cm size metal etc. in foundation and floors using cement, 40mm. Size crusher broken H.G.Metal and screened and washed sharp river sand for mortar of approved quality and from approved quarry incluign hoisting, lowering and laying concrete to the required level, ramming, watering and curing etc. complete to required levels, laid in layers not exceeding 15cm thick in each layer including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P required for the work including shoring, shuttering and dewatering (if required) including hire and running charges of water pump required for the work etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td>cum</td>
<td>112.04</td>
<td>3756.15</td>
<td>420846.61</td>
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<tr>
<td>7</td>
<td>Providing and laying in position RCC ready mixed M-25 grade concrete having compressive strength at 28 days test not less than 250 kg/sq.cm for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, and hoisting, lowering, laying and compacting concrete, watering and curing and finishing the exposed surfaces smooth with cost, conveyance, royalties, taxes of all materials with all labour, Labour cess and T&amp;P required for the work improve workability without impairing strength and durability as per direction of the Engineer-in-charge.</td>
<td>Cu mt</td>
<td>610.64</td>
<td>5318.14</td>
<td>3247459.73</td>
</tr>
<tr>
<td>a</td>
<td>Up to Plinth Level</td>
<td>Cu mt</td>
<td>351.85</td>
<td>6163.91</td>
<td>2168771.78</td>
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<tr>
<td>b</td>
<td>Ground Floor Level (Plinth to 3.5 Mtr)</td>
<td>Cu mt</td>
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<td>2174549.08</td>
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<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Cu mt</td>
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<td>8123.57</td>
<td>1127342.73</td>
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<tr>
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<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Cu mt</td>
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<td>9328.99</td>
<td>1294624.29</td>
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<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
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<td>----------</td>
<td>----------------</td>
</tr>
<tr>
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<td>Forth Floor Level (14.0mtr above)</td>
<td>Cu mt</td>
<td>125.82</td>
<td>10715.23</td>
<td>1348147.50</td>
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<td>8</td>
<td>Rigid &amp; smooth centering &amp; shuttering for R.C.C. works including false works with all necessary bracing and tiles and supports with leveling centering covered with plastic sheet with provisions for necessary holes and pockets for electrical conduits, pipes, P.H. pipes, for hooks or boxes, switch and board insert plates, clamps and extension bars etc., including dismantling the same after the required interval from the date of casting including cost of all materials, labour, Labour cess, conveyance, loading and unloading, taxes, royalties, scaffolding, watering, curing, sundries, tools and plants, etc., complete as per the direction of the Engineer-in-charge.</td>
<td></td>
<td></td>
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<tr>
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<td>RCC Foundation and Plinth</td>
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<td>736.90</td>
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<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
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<td>67274.35</td>
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<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm</td>
<td>75.00</td>
<td>896.99</td>
<td>67274.35</td>
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## ABSTRACT FOR CIVIL WORK

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<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
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<tr>
<td>9</td>
<td>Cutting, straightening coiled or bent up HYSD/TMT Reinforcement Bars welding or jointing if necessary, bending, tying the grills as required for R.C.C. works, providing Fan Hooks where necessary and hoisting, lowering and placing the same in proper position according to the approved designs and drawings in all floors including cost, conveyance, loading, unloading and taxes or HYSD/TMT Reinforcement Bars and Binding wires of 18 to 20 gauge required for the work cost of all labour, T&amp;P and scaffolding complete in all respect as directed by the Engineer-in-charge (Payment will be made according to the actual/proper weight of HYSD/TMT Reinforcement Bars and Binding wires consumed in the particular work only)</td>
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<td>a</td>
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<table>
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<th>Unit</th>
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<th>Rate</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>10</td>
<td>Fly Ash Brick Masonry in cement mortar of mix (1:6) using Fly Ash bricks of size 25 cm x 12 cm x 8 cm in Foundation, Plinth &amp; super structure having crushing strength not less than 75 kg per square cm. with cement and screened &amp; washed sharp sand for mortar after immersing the bricks for 6 (Six) hours in water before use in works with all necessary projections, splays cutting, circular moulding, corbelling, chamfering, watering and curing etc. including cost, conveyance, stacking, loading, unloading, royalties, all taxes, cost of all labour, Labour cess, scaffolding, sundries and T&amp;P required for the works etc. complete in all respect as directed by the Engineer-in-charge.</td>
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<tr>
<td>a</td>
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<td>51.81</td>
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<td>Cum.</td>
<td>76.48</td>
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</table>
# Abstract for Civil Work

**Name of Work:** Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At BARAGARH, RMC, Odisha

### ABSTRACT FOR CIVIL WORK

<table>
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<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
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<th>Rate</th>
<th>Amount</th>
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<td>Cum.</td>
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Providing 12mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement & screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary) including watering and curing, rounding of corners etc. complete with cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&P, sundries and scaffolding required for the work etc. as directed by the Engineer-in-charge.

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
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<tbody>
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<td>a</td>
<td>Up to Plinth</td>
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Providing 16mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement & screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary) including watering and curing, rounding of corners etc. complete with cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&P, sundries and scaffolding required for the work etc. as directed by the Engineer-in-charge.

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
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<th>Rate</th>
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## Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At BARAGARH, RMC, Odisha

### ABSTRACT FOR CIVIL WORK

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<th>Rate</th>
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<td>Painting 2 (Two) or more coats with Weather Coat Paint of premium brand Such as Asian/ Berger/ ICI paints or equivalent of approved quality &amp; colour, using required quantities of paint as specified by the manufacturer to give an even shade over a coat of wall priming (water based) on the finished external plastered surface at all height, watering the surface before applying the Weather Coat Paint and curing for the required period including cost, conveyance, loading, unloading, stacking and all taxes, cost of all Labour, Labourcess, Sundries, Scaffolding, Staging and T&amp;P etc. required for the work complete in all respect as directed by the Engineer-in-charge.</td>
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</tr>
<tr>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>793.81</td>
<td>46.00</td>
<td>36515.35</td>
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<td>e</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>636.86</td>
<td>47.60</td>
<td>30314.54</td>
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<tr>
<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>164.44</td>
<td>49.30</td>
<td>8106.89</td>
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<tr>
<td>15</td>
<td>Priming one coat over with any approved primer including cost of material &amp; labour For Iron work</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>a</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>0.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>0.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>0.00</td>
<td></td>
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# ABSTRACT FOR CIVIL WORK

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<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
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<tbody>
<tr>
<td>d</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>e</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Wall painting two coats with plastic emulsion paint of approved quality colour at all heights to the interior surface of the wall to make an even finished surface including sand papering, wherever necessary including cost, conveyance, loading, unloading, stacking, all taxes, cost of all Labour, Labour cess, scaffoldings, staging, sundries, T&amp;P etc. required for the work complete as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>a</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>664.13</td>
<td>62.61</td>
<td>41581.85</td>
</tr>
<tr>
<td>b</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>372.96</td>
<td>63.55</td>
<td>23701.61</td>
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<tr>
<td>c</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>372.96</td>
<td>64.51</td>
<td>24059.65</td>
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<td>d</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>372.96</td>
<td>65.50</td>
<td>24428.88</td>
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<tr>
<td>e</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>117.70</td>
<td>66.52</td>
<td>7829.40</td>
</tr>
<tr>
<td>17</td>
<td>Finishing wall surface of walls with Acrylic wall putty (water based) of approved make and finished smooth and even surface to receive painting including cost, conveyance, taxes of all materials, cost of all Labour, Labour cess, scaffoldings, staging, sundries, T&amp;P etc. required for the work complete as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>a</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
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<td>664.13</td>
<td>74.28</td>
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<td>b</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>372.96</td>
<td>75.09</td>
<td>28005.57</td>
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<tr>
<td>c</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>372.96</td>
<td>75.93</td>
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<td>d</td>
<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
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<td>372.96</td>
<td>76.79</td>
<td>28639.60</td>
</tr>
<tr>
<td>e</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>117.70</td>
<td>77.67</td>
<td>9141.76</td>
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<td>19</td>
<td>Brick on edge flooring using fly ash brick flat over one brick flat set in cement mortal (1:8)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>a</td>
<td>Ground Floor</td>
<td>Sqm.</td>
<td>712.12</td>
<td>572.60</td>
<td>407759.19</td>
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<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
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<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------</td>
<td>-----</td>
<td>-------</td>
<td>----------</td>
</tr>
<tr>
<td>20</td>
<td>Cement concrete flooring grade 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate) rounding off edges etc. but excluding the cost of n housing of steps etc. complete : 75 mm thick with 20 mm thick nominal size aggregate.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Ground Floor</td>
<td>Sqm.</td>
<td>0.00</td>
<td>214.00</td>
<td>0.00</td>
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<tr>
<td>21</td>
<td>Providing and fixing steel glazed doors windows and ventilator shutters of standard rolled steel section joints mitred and welded with steel lugs 13 x 3 mm, 10 cm. long embedded in cement concrete block 15 x 10 x 10 cm. of 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws with fixing clips or with bolts and nuts as required including providing and fixing of plain glass panes 4 mm thick with copper glazing clips and special metal sash putty of approved make or metal beading with screws complete including priming coat of approved steel primer, excluding the cost of metal beading and other fitting except necessary hinges of pivots steel handles peg stay etc. as required : Windows side hung (openable)</td>
<td>Sqm.</td>
<td>7.56</td>
<td>1500.00</td>
<td>11340.00</td>
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<tr>
<td>24</td>
<td>Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge 0.50mm (+0.05%) total coated thickness with zinc coating 120grams per sqm as per IS:227, in 240mpa steel grade, 5-7 microns.</td>
<td>Sqm</td>
<td>750.11</td>
<td>597.23</td>
<td>447989.24</td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>TOTAL</td>
<td></td>
<td></td>
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<td>31885510</td>
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**Name of Work:** Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At BARAGARH, RMC, Odisha
**Name of Work:** Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000 M.T. At BARAGARH, RMC, Odisha

**ABSTRACT FOR STRUCTURAL WORK**

<table>
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<tr>
<td>PART 3</td>
<td><strong>STRUCTURAL WORK</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supplying, fabricating and erection of steel work in built up tubular hollow</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>hot finished welded type steel tubes for trusses or frame works, etc using</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>round, square or rectangular hollow tubes including cutting, hoisting and</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>fixing in position and applying a prime coat of approved steel primer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>including welding and bolting with special shaped washers including cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>of all labours, joining materials, etc required for work complete as</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>directed by Engineer-In-Charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>(i) Hoising of Trusses and Placing in Position</td>
<td>Kg.</td>
<td>113098.5</td>
<td>77.3</td>
<td>8742511</td>
</tr>
<tr>
<td></td>
<td>Supplying, fabricating &amp; fixing of Structural steel items made out of</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>channels, angles, flats, plates, chequerd plates I Section, Beam, Hollow</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Section any type of frame, space frame, gates, atrium in top, truss,</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>purlins, columns, beams etc. complete as per drawing including priming</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>with one coat of red oxide primer in all floors as per the direction of</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(i) Hoising of Trusses and Placing in Position</td>
<td>Kg.</td>
<td>120639.8</td>
<td>77.3</td>
<td>9325460</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td>18067971</td>
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</table>

Sign and Stamp of EPIL

Sign and Stamp of bidder
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<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Providing all materials, labour, T&amp;P for fitting and fixing white glazed vitreous china floor mounted water closet (European pattern) 'P' or 'S' type of approved make, As per IS-2556 with ISI mark, including supply of suitable PVC wall plug and Brass screws etc. all complete including cost of PVC seat cover (solid) with hinges &amp; rubber buffers etc all complete including cost, taxes and conveyance as per specification all complete as per direction of Engineer-in-charge. Make (No.C0297(S)Trap+C0278(P)Trap(Elite)Hindware</td>
<td>SET</td>
<td>1.00</td>
<td>3455.50</td>
<td>3455.50</td>
</tr>
<tr>
<td>2</td>
<td>Providing all materials, labour, and T&amp;P for fitting and fixing of 10 liter capacity PVC low level cistern complete with all internal fittings of approved make as per IS-7231 with ISI mark and Providing of necessary PVC wall plug, screws and 15mm dia PVC connection pipe with union at both end, including testing etc. all complete as per specification &amp; direction of Engineer-in-charge. Make: HINDWARE/CERA/PARRYWARE</td>
<td>No</td>
<td>1.00</td>
<td>1460.90</td>
<td>1460.90</td>
</tr>
<tr>
<td>3</td>
<td>Supply all materials and labour for fitting and fixing of 550x400mm white glazed vitreous china wash hand basin of approved make with supply &amp; fixing of 32mm CP waste, 15mm dia PVC water connection pipe, basin bolts &amp; Nuts of approved quality including cutting the walls &amp; floor and making good the damages with cement concrete (1:2:4) etc.</td>
<td>SET</td>
<td>2.00</td>
<td>3770.20</td>
<td>7540.40</td>
</tr>
<tr>
<td>4</td>
<td>Supplying all materials and labour, T&amp;P for fitting and fixing of 590mm x 390mm x 375mm white glazed vitreous china Half stall front standing urinal basin as per IS-2556 with ISI mark along with supply &amp; fixing of necessary component parts like pair of C.I./M.S. bracket including all taxes, duties, transportation etc. with all complete fittings as per specification &amp; direction of the Engineer-in-charge. (Make No.C0575+C8095(White)Hindware.</td>
<td>SET</td>
<td>2.00</td>
<td>4704.10</td>
<td>9408.20</td>
</tr>
<tr>
<td>5</td>
<td>Providing all materials, labour, T&amp;P for fitting and fixing of 20mm thick white marble partition for urinal of following sizes including cutting, edge moulding, both side polishing including fixing on the wall after groove cutting &amp; making good the damages. The cost inclusive of all taxes, transportation etc. all complete as per specification &amp; direction of Engineer-in-charge.</td>
<td>Marble partition Size-2x0.90x0.75=1.35</td>
<td>Sqm</td>
<td>1.00</td>
<td>2570.70</td>
</tr>
<tr>
<td>6</td>
<td>Providing all materials, labour, T&amp;P for fixing of 600x450mm bevelled edge mirror of 5mm thick mounted on 4mm thick A C back sheet &amp; CP cup screw with PVC wall plugs including cost, conveyance, taxes of all materials complete as per specification and direction of E.I.C.</td>
<td>NO</td>
<td>2.00</td>
<td>654.40</td>
<td>1308.80</td>
</tr>
</tbody>
</table>
### Name of Work: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000 M.T. At BARAGARH, RMC, Odisha

#### ABSTRACT FOR PLUMBING & SANITARY WORK

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<tr>
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<th>Qty</th>
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<tbody>
<tr>
<td>7</td>
<td>Supplying all materials, labour, T&amp;P and fixing standard sized CP towel rail complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge</td>
<td>NO</td>
<td>1.00</td>
<td>955.40</td>
<td>955.40</td>
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<td>8</td>
<td>Supplying all materials, labour, T&amp;P and fixing standard sized glass-shelf with CP brass brackets and guard rails complete fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge</td>
<td>NO</td>
<td>1.00</td>
<td>569.90</td>
<td>569.90</td>
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<td>9</td>
<td>Providing and fixing 15mm dia CP bib cock long body (Jaquar make)</td>
<td>NO</td>
<td>1.00</td>
<td>1179.40</td>
<td>1179.40</td>
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<tr>
<td>10</td>
<td>Providing and fixing 15mm dia CP angular stop cock (Jaquar make)</td>
<td>NO</td>
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<td>1179.40</td>
<td>1179.40</td>
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<tr>
<td>11</td>
<td>Providing and fixing Health Faucet with 1m long PVC tube &amp; wall hook (Jaquar make)</td>
<td>NO</td>
<td>1.00</td>
<td>1742.30</td>
<td>1742.30</td>
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<td>12</td>
<td>Providing and fixing 15mm dia CP two way bib cock (Jaquar make)</td>
<td>NO</td>
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<td>1179.40</td>
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<td>13</td>
<td>Providing and fixing 15mm dia pillar cock (Jaquar make)</td>
<td>NO</td>
<td>2.00</td>
<td>871.20</td>
<td>1742.40</td>
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<td>14</td>
<td>Providing and fixing Robe Hook (Jaquar make)</td>
<td>NO</td>
<td>1.00</td>
<td>348.50</td>
<td>348.50</td>
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<td>15</td>
<td>Providing and fixing soap case (Jaquar make)</td>
<td>NO</td>
<td>2.00</td>
<td>1016.30</td>
<td>2032.60</td>
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<td>16</td>
<td>Providing and fixing 32mm CP Bottle Trap (Jaquar make)</td>
<td>NO</td>
<td>4.00</td>
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<tr>
<td>17</td>
<td>Supplying all materials, labour &amp; fitting and fixing 125mm dia stainless steel grating on top of floor traps with white cement all complete in all floors, as per technical specification and direction of Engineer-in-charge.</td>
<td>NO</td>
<td>4.00</td>
<td>83.80</td>
<td>335.20</td>
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<tr>
<td>18</td>
<td>Providing all materials, labour, T&amp;P for laying of following nominal dia UPVC pipes as per IS- 4985 with ISI mark including fixing of required size UPVC fittings like, bend, Tee, elbow, offsets, etc. and the same fixed on wall or floor with holder bat clamps screw etc. including testing the joints with required water pressure. The cost inclusive of all taxes, duties, transportation scaffolding etc. as per specification and direction of Engineer-in-charge. Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>a</td>
<td>40mm dia</td>
<td>RM</td>
<td>20.00</td>
<td>362.20</td>
<td>7244.00</td>
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<tr>
<td>b</td>
<td>50mm dia</td>
<td>RM</td>
<td>15.00</td>
<td>420.70</td>
<td>6310.50</td>
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<td>19</td>
<td>Providing and fixing on wall face unplasticised Rigid PVC soil, waste water pipes conforming to IS:13592 Type-B, including jointing with seal-ring conforming to IS:5382, Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td>RM</td>
<td>40.00</td>
<td>330.90</td>
<td>13236.00</td>
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<tr>
<td>a</td>
<td>110mm dia</td>
<td>RM</td>
<td>80.00</td>
<td>330.90</td>
<td>26472.00</td>
</tr>
<tr>
<td>20</td>
<td>Providing and fixing on wall face unplasticised Rigid PVC for rain water pipes conforming to IS:13592 Type-A, including jointing with seal-ring conforming to IS:5382, Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>110mm dia</td>
<td>RM</td>
<td>80.00</td>
<td>330.90</td>
<td>26472.00</td>
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Name of Work :-Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000 M.T.At BARAGARH, RMC, Odisha

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<th>Amount</th>
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<tr>
<td>21</td>
<td>Supplying all materials, labour, T&amp;P, fitting and fixing of following dia UPVC SWR fittings of approved make confirming to IS-14735 with all taxes, duties, transportation &amp; requisite testing as per specification &amp; direction of Engineer-in-charge. Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>110mm x 110mm P trap</td>
<td>NO</td>
<td>3.00</td>
<td>273.80</td>
<td>821.40</td>
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<tr>
<td>b</td>
<td>110mm WC Connector/ Bend with lip ring</td>
<td>NO</td>
<td>1.00</td>
<td>228.00</td>
<td>228.00</td>
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<tr>
<td>c</td>
<td>110mm dia Plain Bend 87.5 deg</td>
<td>NO</td>
<td>2.00</td>
<td>100.20</td>
<td>200.40</td>
</tr>
<tr>
<td>d</td>
<td>160mm dia Plain Bend 87.5 deg</td>
<td>NO</td>
<td>2.00</td>
<td>312.00</td>
<td>624.00</td>
</tr>
<tr>
<td>e</td>
<td>110mm dia Plain Bend 45 deg</td>
<td>NO</td>
<td>4.00</td>
<td>100.20</td>
<td>400.80</td>
</tr>
<tr>
<td>f</td>
<td>160mm dia Plain Bend 45 deg</td>
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<thead>
<tr>
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<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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<tr>
<td>22</td>
<td>Providing all materials, labour, T&amp;P for laying in trenches of following nominal dia UPVC pipes (Sch-80) as per IS-ASTMD-1785 with ISI mark including fixing of required size fittings like bend, Tee, elbow, offsets etc. &amp; testing the joints with required water pressure. The cost inclusive of all taxes, duties, transportation scaffolding etc. as per specification and direction of Engineer-in-charge. Make : Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>40mm Dia</td>
<td>metre</td>
<td>5.00</td>
<td>362.20</td>
<td>1811.00</td>
</tr>
<tr>
<td>b</td>
<td>50mm Dia</td>
<td>metre</td>
<td>150.00</td>
<td>452.75</td>
<td>67912.50</td>
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</tbody>
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<th>Sr.No.</th>
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<th>Unit</th>
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</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes SDR-13.5 conforming to IS: 15778, having thermal stability for hot &amp; cold water supply, including all CPVC plain &amp; brass threaded fittings including fixing the pipes with clamps at 1.00 m spacing. The includes jointing of pipes &amp; fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>25mm Dia</td>
<td>metre</td>
<td>15.00</td>
<td>186.00</td>
<td>2790.00</td>
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<tr>
<td>b</td>
<td>20mm Dia</td>
<td>metre</td>
<td>15.00</td>
<td>145.20</td>
<td>2178.00</td>
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<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>24</td>
<td>Supplying all materials, labour, T&amp;P fitting and fixing of different size brass upvc ASTM-1785, sch-80 ball valve Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>25mm dia ball valve</td>
<td>No</td>
<td>1.00</td>
<td>336.70</td>
<td>336.70</td>
</tr>
<tr>
<td>b</td>
<td>50 mm dia ball Valve</td>
<td>No</td>
<td>6.00</td>
<td>1260.00</td>
<td>7560.00</td>
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<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>Supplying and fixing in position approved make bronze vertical non return valve(screwed) of approved make to IS: 778, Make- Zoloto/leader/shakti</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>50 mm dia</td>
<td>No</td>
<td>6.00</td>
<td>909.00</td>
<td>5454.00</td>
</tr>
</tbody>
</table>
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At BARAGARH, RMC, Odisha

**ABSTRACT FOR PLUMBING & SANITARY WORK**

<table>
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<tr>
<th>Sr.No.</th>
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</thead>
<tbody>
<tr>
<td>26</td>
<td>Fixing Rotational moulded polyethylene cylindrical vertical water storage tanks conforming to IS:12701--1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc, including hoisting up to a height of 5 metres above ground level and placing the tank to the required position and construction of required staging etc all complete as per specification and direction of the Engineer in charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>2000 litre capacity Double Layer Cylindrical Vertical water storage tanks</td>
<td>No</td>
<td>3.00</td>
<td>28973.20</td>
<td>86919.60</td>
</tr>
<tr>
<td>27</td>
<td>Cutting holes for taking 100mm dia PVC pipes through 250mm thick wall</td>
<td>No</td>
<td>6.00</td>
<td>133.40</td>
<td>800.40</td>
</tr>
<tr>
<td>28</td>
<td>Supplying all materials, joining materials, labour and T &amp; P and laying UPVC Foam core pipe as per IS:16098 sn-4 for underground rain water pipe and sewer Make : ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>110mm Nominal Dia pipe</td>
<td>metre</td>
<td>35.00</td>
<td>369.70</td>
<td>12939.50</td>
</tr>
<tr>
<td>b</td>
<td>160mm Nominal Dia pipe</td>
<td>metre</td>
<td>40.00</td>
<td>739.20</td>
<td>29568.00</td>
</tr>
<tr>
<td>c</td>
<td>200 mm Nominal Dia pipe</td>
<td>metre</td>
<td>13.00</td>
<td>956.40</td>
<td>12433.20</td>
</tr>
<tr>
<td>29</td>
<td>Providing and laying in trench cement concrete (1:3:6) with 40mm size hard granite metal in the following type of bedding for upvc pipes of the following internal diameter including curing complete as per specification</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>110mm Nominal Dia pipe</td>
<td>metre</td>
<td>35.00</td>
<td>560.60</td>
<td>19621.00</td>
</tr>
<tr>
<td>b</td>
<td>160mm Nominal Dia pipe</td>
<td>metre</td>
<td>40.00</td>
<td>794.70</td>
<td>31788.00</td>
</tr>
<tr>
<td>c</td>
<td>200 mm Nominal Dia pipe</td>
<td>metre</td>
<td>13.00</td>
<td>990.50</td>
<td>12876.50</td>
</tr>
<tr>
<td>30</td>
<td>Supplying all materials, labour, T&amp;P and constructing gully trap chamber of the following inside size with 8cm thick R.C.C precast cover slab in cement concrete (1:2:4) mix using 12mm size h.g chips, foundation concrete (1:4:8) using 40mm size hard granite metal on bed and around trap, K.B brickwork in c.m (1:6) in F&amp;P and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mmx100mm size HCl gully trap, 150mmx150mm size C.I grating etc all complete as per approved drawing, specification and direction of the Engineer in charge-Gully trap chamber of size 250mmx250mm with R.C.C cover slab</td>
<td>No</td>
<td>1.00</td>
<td>1253.70</td>
<td>1253.70</td>
</tr>
</tbody>
</table>
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000 M.T. At BARAGARH, RMC, Odisha

**ABSTRACT FOR PLUMBING & SANITARY WORK**

<table>
<thead>
<tr>
<th>Sr.No.</th>
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</thead>
<tbody>
<tr>
<td>31</td>
<td>Supplying all materials, labour, T&amp;P and constructing man hole chamber of the following size with cement concrete (1:3:6) using 40mm size hard granite metal on bed, 1st class K.B brickwork in cement mortar (1:6), moulding and shaping the channel inside and benching with cement concrete (1:2:4) using 12mm size h.g chips, 12mm thick cement plaster (1:3) with punning to inside, cement flush pointing (1:3) to outside, R.C.C cover slab in (1:2:4) using 12mm size h.g chips with RCC man hole cover, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge.</td>
<td></td>
<td>10.00</td>
<td>13773.10</td>
<td>137731.00</td>
</tr>
<tr>
<td></td>
<td>Man hole chamber Inside size 910mmx910mmx910mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Supplying all materials, labour, T&amp;P and constructing soakway pit of the following size with precast RCC rings joined loose, gravel backing in the rear of well steining, precast RCC cover slab in cement concrete (1:2:4) using 12mm size hg chips fitted with iron lifting handles including cutting hole in the rings for inlet pipe, earthwork in open well excavation in all kinds of soil and refilling of cavity around the pit &amp; painting the iron works, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge.</td>
<td>No</td>
<td>2.00</td>
<td>12873.40</td>
<td>25746.80</td>
</tr>
<tr>
<td></td>
<td>- RCC rings soakway pit 1.22m dia x 2.10m deep</td>
<td></td>
<td></td>
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<tr>
<td>33</td>
<td>Supplying, installing, testing and commissioning of Non clog self priming centrifugal pump, electric motor. The pump shall have cast iron delivery casting, cast iron impeller SS Shaft. Pump shall be provided with mechanical seal (gland packing). The pump shall be suitable for auto/ manual operation. All complete, including cost, convenance, taxes, T &amp; P etc complete as per direction of Engineer-in-charge.</td>
<td>No</td>
<td>2.00</td>
<td>10000.00</td>
<td>20000.00</td>
</tr>
<tr>
<td></td>
<td>WATER TRANSFER PUMP FROM DOMESTIC WATER TANK UGR TO OVER HEAD TANK</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Flow rate= 185 lit/min each pump</td>
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<td></td>
<td></td>
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<tr>
<td></td>
<td>Head= 15 mtr</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Single- phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Motor HP=1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1SET ( 1 WORKING + 1 STAND BY)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Providing, fitting &amp; fixing pvc rung 200 mm X 300mm Step Iron (inside u.g.r.) etc. All complete as per direction of Engineer-in-charge.</td>
<td>No</td>
<td>20.00</td>
<td>179.70</td>
<td>3594.00</td>
</tr>
<tr>
<td>35</td>
<td>supplying fixing GI half round rain water gutter under the sloped roofs including providing necessary nuts and bolts, protection bar etc, complete as per the direction of the Engineer-in-charges.</td>
<td></td>
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</tr>
<tr>
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<td>Name of Work  :-Construction  of Multi Chamber  Multi Commodity Cold Storage Nominal Capacity -3000 M.T.At BARAGARH, RMC, Odisha</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>08</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>08</td>
<td>a) 200 mm dia half round gutter</td>
<td>rm</td>
<td>105.00</td>
<td>1100.00</td>
<td>115500.00</td>
</tr>
<tr>
<td>08</td>
<td>b) 150 mm dia half round gutter</td>
<td>rm</td>
<td>105.00</td>
<td>900.00</td>
<td>94500.00</td>
</tr>
<tr>
<td></td>
<td>BORE WELL(Production well)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Labour for drilling a perfectly bore hole for specified dia for specified depth below G.L through consolidated and unconsolidated rocks with fast drilling sophisticated DTH/combination rig to suit the site condition as per the direction of the Engineer-in-charge including use of own Rigs with it accessories, T&amp;P consumables etc., for lowering of 200mm dia GI/PVC pipe for housing fitted with socket and with or without well screen as per necessity for soft, medium, hard &amp; boulder formation (GI/PVC/MS casing pipe if required to prevent collapse of over burden is to be provided by the contractor including lowering and withdrawing after completion of Tube well) 200mm dia to 400mm dia in overburden portion including packing of gravel supplied by the contractor for 400mm dia bore only.</td>
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<td></td>
</tr>
<tr>
<td>37</td>
<td>a) 200 mm dia</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1) 0 Mtr to 80 Mtr</td>
<td>Each Mtr</td>
<td>80.00</td>
<td>657.00</td>
<td>52560.00</td>
</tr>
<tr>
<td></td>
<td>Lowering the following size of G.I./PVC/MS housing pipe with or without slotted pipes as per the necessity from ground level up to 45mtr depth fitted and fixed up in perfectly vertical position including cutting &amp; threading of pipes &amp; slotted pipes &amp; supplying &amp; fixing all jointing materials, tools &amp; plant etc. all complete &amp; keeping the top of casing pipe threaded including plugging tube-wells to prevent entry of foreign materials and keeping the casing pipe 1.00mtr above GL.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>a) 200 mm dia</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0 Mtr to 80 Mtr</td>
<td>Each Mtr</td>
<td>40.00</td>
<td>1659.45</td>
<td>66378.00</td>
</tr>
<tr>
<td></td>
<td>Cleaning and developing the tube well with their own compressor continuously worked till clear and adequate discharge is obtained from the tube well including supply and use of all necessary equipment and labour as per direction of Engineer-in-charge.</td>
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<td></td>
</tr>
<tr>
<td>39</td>
<td>a) 50mm dia HDPE pipe(working pressure 0.8MPA)</td>
<td>Each Mtr</td>
<td>1.00</td>
<td>4919.00</td>
<td>4919.00</td>
</tr>
<tr>
<td></td>
<td>Providing, fitting and fixing and laying of HDPE pipe with supply of all materials all complete as per PH specification &amp; direction of Engineer-in-charge. (MAKE:ORIPLAST)</td>
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</tr>
<tr>
<td>40</td>
<td>a) Suppling fitting, fixing of 3.00 HP submersible pump TEXMO Make(ITEM code no.TDF255 type : TRF 908 HS +SF007R) including cost of all materials, transportation and taxes of pump etc. complete as per PH specification &amp; direction of Engineer-in-charge.</td>
<td>Each Set</td>
<td>1.00</td>
<td>19000.00</td>
<td>19000.00</td>
</tr>
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</tr>
<tr>
<td>41</td>
<td>Supplying all materials, labour, T&amp;P for fitting and fixing of required control panel including DOL starter with indicator 32 Amp TPN main switch including connection, installation etc. all complete as per specification &amp; direction of Engineer-in-charge. (Model no : BEI-SSD2045*321 relay range 13-18 )make TC</td>
<td>Each Set</td>
<td>1.00</td>
<td>5050.00</td>
<td>5050.00</td>
</tr>
<tr>
<td>42</td>
<td>Supplying, fitting and fixing of 3core flat industrial cable for submission conforming to IS 694 Flexible 1100V. To IS 694. including all cost of material, labour, T&amp;P etc all complete.(Make: Finlox.)</td>
<td>Each Mtr</td>
<td>90.00</td>
<td>106.00</td>
<td>9540.00</td>
</tr>
<tr>
<td>43</td>
<td>Supplying, fitting, fixing of S.S tapper 2nos of 0.45mtr long M.S supporting clamps with M.S nuts &amp; bolt and 200mm tube well cover &amp; cap suitable for the above pump sets.</td>
<td>Each Set</td>
<td>1.00</td>
<td>2000.00</td>
<td>2000.00</td>
</tr>
<tr>
<td>44</td>
<td>Rain water Harvesting Structure -2 nos</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>Sinking of tube well through D.T.H.Rig.</td>
<td>Mtr.</td>
<td>50.00</td>
<td>657.00</td>
<td>32850.00</td>
</tr>
<tr>
<td>46</td>
<td>Lowering of PVC casing pipe inside bore.</td>
<td>Mtr.</td>
<td>50.00</td>
<td>136.00</td>
<td>6800.00</td>
</tr>
<tr>
<td>47</td>
<td>Cost of 200mm dia (Sch.80)Pipe</td>
<td>Mtr.</td>
<td>50.00</td>
<td>1523.45</td>
<td>76172.50</td>
</tr>
<tr>
<td>48</td>
<td>Cutting slot in casing pipe for recharge of rain water</td>
<td>Mtr.</td>
<td>50.00</td>
<td>353.50</td>
<td>17675.00</td>
</tr>
<tr>
<td>49</td>
<td>Labour for packing gravel outside the tube well</td>
<td>Cum</td>
<td>4.70</td>
<td>110.10</td>
<td>517.47</td>
</tr>
<tr>
<td>50</td>
<td>Earth work in all kinds of soil within 50 mtr initial lead and 1.5mtr initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3 mtr in depth and as per direction of the Engineer in charge.</td>
<td>Cum</td>
<td>2.16</td>
<td>3886.10</td>
<td>8393.98</td>
</tr>
<tr>
<td>51</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:4:8) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td>2.65</td>
<td>3940.00</td>
<td>89832.00</td>
</tr>
<tr>
<td>52</td>
<td>Supplying all materials, labour, T&amp;P and providing brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:6) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td>15.30</td>
<td>3940.00</td>
<td>89832.00</td>
</tr>
<tr>
<td>Sr.No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
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<td>-----------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>53</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inside-2x2(7.15+2.50)x2.0m=77.20</td>
<td></td>
<td></td>
<td>77.20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2x2x2.50x2.0m=20.00</td>
<td></td>
<td></td>
<td>20.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Outside-2x2(7.65+3.0)x2.0m=85.20</td>
<td></td>
<td></td>
<td>85.20</td>
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</tr>
<tr>
<td></td>
<td>Sqm 182.40</td>
<td></td>
<td>110.50</td>
<td></td>
<td>20155.20</td>
</tr>
<tr>
<td>54</td>
<td>Supplying all materials, labour, T&amp;P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td>77.20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inside-2x2(7.15+2.50)x2.0m=77.20</td>
<td></td>
<td></td>
<td>20.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Squm 97.20</td>
<td></td>
<td>23.10</td>
<td></td>
<td>2245.32</td>
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<tr>
<td>55</td>
<td>Supplying all materials, labour, T&amp;P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Roof slab-2x1x0.90x2.50=4.50</td>
<td></td>
<td></td>
<td>4.50</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2x2(1.40+3.00)x0.10=1.76</td>
<td></td>
<td></td>
<td>1.76</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sqm 6.26</td>
<td></td>
<td>353.70</td>
<td></td>
<td>2214.16</td>
</tr>
<tr>
<td>56</td>
<td>Supplying all materials, labour, T&amp;P and providing reinforced cement concrete work of M-25 grade with 20mm and down grade black hard granite crusher broken stone chips including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2x1x1.40x3.00x0.10=0.42</td>
<td>Cum</td>
<td>0.84</td>
<td>5502.70</td>
<td>4622.27</td>
</tr>
<tr>
<td>57</td>
<td>Supplying all materials, labour, T&amp;P and providing M.S reinforcement for R.C.C work including cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Qntl. 0.68</td>
<td></td>
<td>6023.00</td>
<td></td>
<td>4095.64</td>
</tr>
<tr>
<td>58</td>
<td>Providing and filling filter media</td>
<td>Cum</td>
<td>25.50</td>
<td>1414.50</td>
<td>36069.75</td>
</tr>
<tr>
<td></td>
<td>a 40mm size bolder-2x1x6.0x2.50x0.85=25.50</td>
<td>Cum</td>
<td>12.00</td>
<td>1723.50</td>
<td>20682.00</td>
</tr>
<tr>
<td></td>
<td>b 20mm size washed gravel-2x1x6.0x2.50x0.40=12.00</td>
<td>Cum</td>
<td>9.00</td>
<td>582.50</td>
<td>5242.50</td>
</tr>
<tr>
<td></td>
<td>c Course sand-2x1x6.0x2.50x0.30=9.00</td>
<td>Cum</td>
<td>6.00</td>
<td>6100.00</td>
<td>36600.00</td>
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<tr>
<td>Sr.No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>-------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------</td>
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<td>-------</td>
<td>----------</td>
</tr>
<tr>
<td>60</td>
<td>Earth work in all kinds of soil within 50 mtr initial lead and 1.5mtr initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3 mtr in depth and as per direction of the Engineer in charge.</td>
<td>Cum</td>
<td>4.54</td>
<td>129.70</td>
<td>588.84</td>
</tr>
<tr>
<td>61</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12mm size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge.</td>
<td>Cum</td>
<td>2.54</td>
<td>5584.40</td>
<td>14184.38</td>
</tr>
<tr>
<td>62</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:3:6) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge.</td>
<td>Cum</td>
<td>3.56</td>
<td>4287.60</td>
<td>15263.86</td>
</tr>
<tr>
<td>63</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) with punning on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge.</td>
<td>Cum</td>
<td>8.56</td>
<td>4552.50</td>
<td>38969.40</td>
</tr>
<tr>
<td>64</td>
<td>Construction of 20 users septic tank</td>
<td>Cum</td>
<td>10.31</td>
<td>129.70</td>
<td>1337.21</td>
</tr>
<tr>
<td>65</td>
<td>Earth work in excavation of foundation in all kinds of soil within 50m initial lead and 1.5m initial lift including rough dressing &amp; breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-in-Charge.</td>
<td>Cum</td>
<td>4.33</td>
<td>139.20</td>
<td>602.74</td>
</tr>
<tr>
<td>66</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:3:6) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge.</td>
<td>Cum</td>
<td>0.55</td>
<td>4287.60</td>
<td>2358.18</td>
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## ABSTRACT FOR PLUMBING & SANITARY WORK

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<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>67</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12m size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. In ground floor</td>
<td>cum</td>
<td>1.31</td>
<td>5584.40</td>
<td>7315.56</td>
</tr>
<tr>
<td></td>
<td>b. In F&amp;P</td>
<td>cum</td>
<td>4.82</td>
<td>4552.50</td>
<td>21943.05</td>
</tr>
<tr>
<td>69</td>
<td>Supplying all materials, labour, T&amp;P and providing brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:4) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. In ground floor</td>
<td>sqm</td>
<td>32.94</td>
<td>115.70</td>
<td>3811.16</td>
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<tr>
<td></td>
<td>b. In F&amp;P</td>
<td>sqm</td>
<td>13.22</td>
<td>23.10</td>
<td>305.38</td>
</tr>
<tr>
<td>70</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>71</td>
<td>Supplying all materials, labour, T&amp;P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. R.C.C floor and roof slabs</td>
<td>sqm</td>
<td>3.43</td>
<td>353.70</td>
<td>1213.19</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
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<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
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<td>--------</td>
<td>---------</td>
</tr>
<tr>
<td>72</td>
<td>Supplying all materials, labour, T&amp;P and providing M.S reinforcement for R.C.C work including cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td>0.38</td>
<td>5226.00</td>
<td>1985.88</td>
</tr>
<tr>
<td>73</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12mm size hard broken granite chips for R.C.C works including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td>0.47</td>
<td>5584.40</td>
<td>2624.67</td>
</tr>
<tr>
<td>74</td>
<td>Supplying all materials, labour, T&amp;P and providing, fitting and fixing 100mm x 100mm x 100mm SW Tee in wall including filling the recess with cement concrete (1:3:6) with 12mm size hard granite chips all complete including watering, curing, conveyance of all materials to worksite, payment of royalty all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td>2.00</td>
<td>321.90</td>
<td>643.80</td>
</tr>
<tr>
<td>75</td>
<td>Supplying all materials, labour, T&amp;P and making MS step iron in 20mm diameter MS steel bars and fixing into walls of manhole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td>5.00</td>
<td>181.30</td>
<td>906.50</td>
</tr>
<tr>
<td>76</td>
<td>Filling in foundation and plinth with excavated materials, moorum including watering and ramming as directed by the Engineer in charge</td>
<td></td>
<td>3.45</td>
<td>72.00</td>
<td>248.40</td>
</tr>
</tbody>
</table>

**Total** | 1536940 |

*Sign and Stamp of EPIL*

*Sign and Stamp of bidder*
### Name of Work: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. at Baragarh, RMC, Odisha

#### ABSTRACT FOR INSULATION WORK

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Providing Poly Urethene composite sandwich Ceiling panels 100mm thk. for Ceiling with 0.50mm BMT pre painted Galvalume PPGL sheet on both side, with tongue and groove joints, PUF(Poly Urethene foam) shall be of density 40Kg/Cu.mt. +2%, The panels shall be CFC Free certified., complete with erection and commissioning as walk in cooler ceiling with supporting -T and flashings and fixtures, silicon, PUF chemical sealant complete item</td>
<td>Sq. Mtrs.</td>
<td>824.66</td>
<td>2247</td>
<td>1853011.02</td>
</tr>
<tr>
<td>2</td>
<td>Providing EPS thermocole insulation for floor in two layers of 50+75mm each that is 125 mm complete.as per specification of material and workmanship, first of all apply bitumin primer over the cleaned surface, then fix polyethylent sheet of 500 micron, over which fix one layer of thermocole using bitumin 85x25, seal the joints, then apply bitumin, again fix second layer , again seal the joints with bitumin, complete item.</td>
<td>Sq. Mtrs.</td>
<td>824.66</td>
<td>1498</td>
<td>1235340.68</td>
</tr>
<tr>
<td>3</td>
<td>Providing Poly Urethene composite sandwich panel 100 mm thk. for Outer Wall with 0.50mm BMT pre painted Galvalume PPGL sheet on chamber side face and 0.25mm thk PPGI( Pre painted Glvanised, as per specification of material and workmanship)iron sheet on wallside face, with tongue and groove joint, PUF(Poly Urethene foam) shall be of density 40Kg/Cu.mt. +2%, The panels shall be CFC Free certified., including erection and commissioning as walk in cooler walls with flashings, fixtures, silicon sealant, PUF chemical complete item.</td>
<td>Sq. Mtrs.</td>
<td>2555.62</td>
<td>2140</td>
<td>5469026.8</td>
</tr>
<tr>
<td>4</td>
<td>Providing Poly Urethene composite sandwich panel for Partition wall, 100 mm thk. with 0.50mm BMT both sides pre painted Galvalume PPGL sheet on chamber side face and 0.25mm thk PPGL( Pre painted Glvanised, as per specification of material and workmanship)iron sheet on wallside face, with tongue and groove joint, PUF(Poly Urethene foam) shall be of density 40Kg/Cu.mt. +2%, The panels shall be CFC Free certified., including erection and commissioning as walk in cooler partition wall with fixtures and flashings using silicon sealant and PUF chemical complete item.</td>
<td>Sq. Mtrs.</td>
<td>480</td>
<td>2140</td>
<td>1027200</td>
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<tr>
<td>5</td>
<td>Providing and fixing Single leaf manual hinge hatch door/windows 100mm thk PU insulation with 0.6mm thk. Coated steel finish. W=1200mm, H=2100mm, as per specification of material and workmanship</td>
<td>Nos.</td>
<td>a</td>
<td>12</td>
<td>48150</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nos.</td>
<td>b</td>
<td>4</td>
<td>37450</td>
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<tr>
<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
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<tr>
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<td>-------------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>6</td>
<td>Providing Suction pipeline insulation with 50/75mm pipe of EPS in throughout suction line in machine room, Low pressure receiver and chamber complete Top should be cladded with Aluminus sheet complete.</td>
<td>Lumpsum</td>
<td></td>
<td>417300</td>
<td>417300</td>
</tr>
<tr>
<td>7</td>
<td>Strip Curtain 150 mm wide for 2X1 M door opening, 3 mm thick</td>
<td>Nos</td>
<td>19</td>
<td></td>
<td>28500</td>
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</table>

**TOTAL** | | | | | **10757979** |
<table>
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<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Heavy duty high speed industrial type three cylinder vertical reciprocating ammonia refrigeration compressors Kirloskar KC-2/Frick/Superfreeze/Mycom or equivalent make with drive set, stop valve for suction and discharge with flanges and counter flanges, HP/LP OP cutouts, gauges, base frame, bolts, tool kit, gasket set and ferrule complete set with erection and commissioning, testing.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Providing Electric motor of Kirloskar / Crompton / GEC of 50 HP and 1440 RPM, Induction for operation on 440/400 volts, 50 cycles, 3 phase AC supply for driving the Compressors.</td>
<td></td>
<td></td>
<td>499333.337</td>
<td>1498000.011</td>
</tr>
<tr>
<td>3</td>
<td>Providing MEI / Kilbern / L &amp; T motor starter for above mentioned 50HP motor respectfully with ammeter of AE make and 2 overload relays and cable box including starter oil etc. complete.</td>
<td></td>
<td></td>
<td>160500</td>
<td>481500</td>
</tr>
<tr>
<td>4</td>
<td>Providing Liquid ammonia receiver of 600mmx6.0 mt long fabricated with 14mm thk plates with inlet and outlet valves, gauge glass valves with gauge glass including MS stand complete. Providing Centrifugal mono block pumps(32M head, 12 LPS) for circulating water with TFC spiral cage induction motor of 5.0 HP suitable for operation on 400/440 volts, 50 cycles, three phase AC supply and necessary inlet and outlet pipes and foot valves (Kirloskar model no. KD5515 / Crompton model No. MBP 52 / Texmo model No. TMH-6) one fitted stand by.</td>
<td></td>
<td></td>
<td>26750</td>
<td>53500</td>
</tr>
<tr>
<td>5</td>
<td>Providing Oil separator fabricated with 10mm thk. MS plate with size 1350x600mm complete with companion flange.</td>
<td></td>
<td></td>
<td>187250</td>
<td>187250</td>
</tr>
<tr>
<td>6</td>
<td>Providing Atmospheric condenser 10 pipes high 12 Condensers made in TATA/JINDAL/PRAKASH SURYA MS 50mm thk Round Pipe with fabrication and erection with angle grame 65x65x6 with water ling in GI 50mm B Class Pipe of TATA/JINDAL/PRAKASH SURYA make with header of 150mm dia GI Pipe, all Complete item suitable for heat load of 425 KW including sand blasting and ZINC spray galvanising 120GSM.</td>
<td></td>
<td></td>
<td>59920</td>
<td>719040</td>
</tr>
<tr>
<td>7</td>
<td>Providing Air Cooling Units of alfa laval/ICL/starcooler and condensers/Frick or equivalent make, 03 Nos in each Chamber of refrigeration capacity 36KW each suitable for 0 deg C, Refrigerant ammonia evaporating(pump feed), air volume 48000 CMH, fans 3X710mm axial fan, 1440 RPM, motor 0.75KW(1HP) each, 415V/3ph/50Hz, Stainless steel tubes with plain aluminium fins, 4 fpi, case work GI white powder coated complete with erection and commissioning at top.</td>
<td></td>
<td></td>
<td>285333.69</td>
<td>2282669.52</td>
</tr>
<tr>
<td>8</td>
<td>Provision of First charge of ammonia and oil 68 No. freeze oil for initial temperature as required and maintained for one year.</td>
<td></td>
<td></td>
<td></td>
<td>350000</td>
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<tr>
<td>9</td>
<td>Black and GI pipes of different sizes for the completion of water and gas lines and for inter connection of entire plant with suction discharge and liquid lines.</td>
<td></td>
<td></td>
<td></td>
<td>500000</td>
</tr>
<tr>
<td>10</td>
<td>Sundry material such as gaskets, thread seals, packing sheets, nut bolts, water valves, flanges, V-belts and other required equipments complete as required for various plant and machinery for 5000 mt capacity.</td>
<td></td>
<td></td>
<td></td>
<td>200000</td>
</tr>
<tr>
<td>11</td>
<td>Providing Energy Recovery wheel in each chamber of 1547Mt each, 02 nos, suitable for 04 air changes in a day; Danfoss/Manik/Any ISI make as per NHB norms and Standards.</td>
<td></td>
<td></td>
<td></td>
<td>400000</td>
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<tr>
<td>12</td>
<td>Equipment for Co2 gas removal suitable for 02 chambers of 1547MT each to hold the co2 level 2000PPM as per NHB Norms and Standards.</td>
<td></td>
<td></td>
<td></td>
<td>1300000</td>
</tr>
<tr>
<td>13</td>
<td>Providing Freon plant for Four chambers of 52 MT each with evaporators and condensing units complete with pipe line, pipeline insulation suitable for heat load of 28.15KW at peak load, complete with installation and commissioning with electrification.</td>
<td></td>
<td></td>
<td>3638000</td>
<td>3638000</td>
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<tr>
<td>14</td>
<td>Load cell based Weight Monitoring system all complete with remot display</td>
<td></td>
<td></td>
<td>53500</td>
<td>321000</td>
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TOTAL 11957710
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<tr>
<td>PART 6</td>
<td><strong>DG SET</strong></td>
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<td></td>
</tr>
<tr>
<td>1</td>
<td>Supply, installation &amp; commissioning of silent type 125 KVA, 415V, 50Hz, 1500 RPM, 0.8 Lagging p.f., D.G. Set with all accessories excluding AMF Panel with acoustic enclosure. Conforming to BS 5514, 649, IS 10000, capable of taking 10% overload for one hour after 12 hours of continuous operation including base frame, foundation platform, fuel tank, starting system, batteries etc. conforming to CPWD General specification for DG Sets and including Earthing. Complete in all respect.</td>
<td>No</td>
<td>1</td>
<td>715000</td>
<td>715000</td>
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<tr>
<td>Sr No</td>
<td>Item Description</td>
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<td>Rate</td>
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<tr>
<td>1</td>
<td>SITC of Electric control Panel having all electrical controls with MCCBs incoming main and earth fault relay, HRC fuses, one CT operated ammeter 0-400 amps and one volt meter 0-600 volts etc. complete unit to run above plant. Specification mention as below 1. INCOMER- Main MCCB of any standard make, Control and Switchgear etc of Capacity, 400A 01 No., Change over Switch, 01 No. METERING- indicating lamp R/Y/B 230V 03 No., control fuse with HRC link 2A 07, APFC relay 12 stage make 01 No., Multifunctional Meter 0-400A 01 No., CT400/5Amp/ class 1 400/5A 04 no. 2. OUTGOING- a) 50HP ATS starters Qty 03 Nos., (200A SFU with HRC link 200A 03NO., Control MCB 6Amp 9No., 140A 3P Contactor 06 Nos. 70A 3 pole contactor 3No. Thermal over load relay 66-110A 03No., on delay timer 06No., ATS Transformer 03No., Ameter digital type with ASS 0-200A 03No., CT200/5Amp class 1 09No., Indicating lamp R/Y/B/OFF/TRIP 230V 15No., Start/Stop Push button 06No. b) 5HP DOL starter for pump with standby- 20A MCB TP 10KA, 18A 3P Contactor 09 No., Thermal over load relay 6-10A 03 No., 5HP VFD 02 No. indicating lamp ON/OFF/TRIP 04 No., Start stop push button 230V 04 No., Auto manual selector switch 02 No., c) 5HP DOL Starter for Water Pump and LIFT motor-20A MCB TP 10KA, 20A 02 No., Control MCB 6Amp SP, 6A, 02 No., 18A 3P Contactor 02 No., Thermal over load relay 6-10A 02 No.</td>
<td>Nos</td>
<td>1</td>
<td>1280000</td>
<td>1280000</td>
</tr>
<tr>
<td>2</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shielded XLPE power cable of 1.1 KV grade 3.5 CORE 185 Sqmm Al.CONDUCTOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.</td>
<td>Mtrs</td>
<td>80</td>
<td>1986</td>
<td>158880</td>
</tr>
<tr>
<td>3</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shielded XLPE power cable of of 1.1 KV grade 3.5 CORE 50 Sqmm Al.CONDUCTOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.</td>
<td>Mtrs</td>
<td>40</td>
<td>729</td>
<td>29160</td>
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</table>
# Name of Work
**Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000**
**M.T. At BARAGARH, RMC, Odisha**

## ABSTRACT FOR ELECTRICAL WORK

<table>
<thead>
<tr>
<th>Sr No</th>
<th>Item Description</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shielded XLPE power cable of 1.1 KV grade 3.5 CORE 35 Sqmm Al.CONDUCATOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.</td>
<td>Mtrs</td>
<td>40</td>
<td>596</td>
<td>23840</td>
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<tr>
<td>5</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shielded XLPE power cable of 1.1 KV grade 3.5 CORE 10 Sqmm Cu.CONDUCATOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.</td>
<td>Mtrs</td>
<td>180</td>
<td>395</td>
<td>71100</td>
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<tr>
<td>6</td>
<td>Wiring of light points/fan points (6A/5A) with junction boxes, MS covers etc. All materials i.e. switches / sockets / MS boxes / hardwares and wires etc. shall be of approved make and shall be supplied/installed under scope of work for concealed flush type arrangement. The earthwire PVC insulated 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade is to be supplied/installed as per drawing and specifications. Complete work has to be executed strictly as per drawing. Point wiring covers all work scope from switch board to points.</td>
<td>Nos</td>
<td>370</td>
<td>1134</td>
<td>419580</td>
</tr>
<tr>
<td>7</td>
<td>Wiring of two way control point with 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade PVC insulated including supply of material.</td>
<td>Nos</td>
<td>3</td>
<td>1112</td>
<td>3336</td>
</tr>
<tr>
<td>8</td>
<td>Wiring of bell/buzzer points with 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade insulated wire (including supply of all material) including CPL buzzer board.</td>
<td>Nos</td>
<td>18</td>
<td>2298</td>
<td>41364</td>
</tr>
<tr>
<td>9</td>
<td>Materials</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>Providing and fixing of BULKHEAD LED fittings of 40 watt each</td>
<td>Nos</td>
<td>300</td>
<td>2000</td>
<td>600000</td>
</tr>
<tr>
<td>ii)</td>
<td>Providing and fixing of LED Tube Light fittings of 40 watt each</td>
<td>Nos</td>
<td>35</td>
<td>1150</td>
<td>40250</td>
</tr>
<tr>
<td>iii)</td>
<td>Providing and fixing of 1400RPM Ceiling Fan</td>
<td>Nos</td>
<td>35</td>
<td>2350</td>
<td>82250</td>
</tr>
<tr>
<td>iv)</td>
<td>Providing and fixing 1x400W HPSV street light fittings with accessories like control switch, clamps, bend rod etc.</td>
<td>Nos</td>
<td>8</td>
<td>7400</td>
<td>59200</td>
</tr>
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</table>
**Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000 M.T. At BARAGARH, RMC, Odisha**

### ABSTRACT FOR ELECTRICAL WORK

<table>
<thead>
<tr>
<th>Sr No</th>
<th>Item Description</th>
<th>Unit</th>
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<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Preparing an earthing pit (Plate electrode) by using 600 x 600 x 3.15mm thk. GI plates at location shown in the drawing including supply laying and installation of all necessary material as earth electrodes, strips, wires, funnel, screen, watering pipes, brick chamber, CI frame with cover and to complete.</td>
<td>Nos</td>
<td>9</td>
<td>9000</td>
<td>81000</td>
</tr>
<tr>
<td>11</td>
<td>Supply, Installation, Testing &amp; Commissioning of following type Distribution board surface / flush mounted with Single Door MCB DBs. The DB shall have appropriate no. of top &amp; bottom knock outs for outgoing circuits &amp; shall be complete with necessary bus bars, interconnection terminals &amp; earth studs. All terminations in DB shall be complete with ferruling, dressing &amp; all circuits shall be properly labeled with PVC strip (sticker type) having identification as per the final approval of Consultant.</td>
<td>Nos</td>
<td>9000</td>
<td>81000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) 2Way MCB DB</td>
<td>Nos</td>
<td>18</td>
<td>673</td>
<td>12114</td>
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<tr>
<td></td>
<td>ii) 8 Way Vertical TPN DB</td>
<td>Nos</td>
<td>3</td>
<td>9652</td>
<td>28956</td>
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<tr>
<td>12</td>
<td>Supply and fixing following type MCBs in existing MCB DBs including its incoming and out going connection with suitable size of PVC insulated, copper conductor flexible wire etc. as reqd.</td>
<td>Nos</td>
<td>18</td>
<td>953</td>
<td>17154</td>
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<tr>
<td></td>
<td>i) 32A 4 Pole MCB</td>
<td>Nos</td>
<td>18</td>
<td>953</td>
<td>17154</td>
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<tr>
<td>13</td>
<td>LIGHTNING ARRESTOR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supply, installation, testing and commissioning of High pulsar voltage OPR 30 Early streamer emission (ESE) Advance Lightning Protection system with 4 meter high Pulsar 30 having 65 meter protection radius IN LEVEL 2 complies with NFC-17-102 standards. The Air terminal should be capable to collect the ambient electric field and should emit the upward streamer with the defined Gain in time. The installation should be strictly followed as per manufacturer’s instructions. The system should include the following items complete in all respects.</td>
<td>Set</td>
<td>1</td>
<td>140000</td>
<td>140000</td>
</tr>
<tr>
<td></td>
<td>GI mast for mounting the terminal &amp; adaptor to mount the OPR 30 with suitable base plate, should have provision for Guy wire clamping system, termination arrangement for the Down-Conductor.</td>
<td>Set</td>
<td>1</td>
<td>18000</td>
<td>18000</td>
</tr>
<tr>
<td></td>
<td>Down conductor of 70 sq.mm single core insulated flexible Copper cable with necessary accessories, etc OR Copper strip of size 25 X 3mm down conductor of suitable length as per building height with suitable mounting accessories and mounted on Insulators.</td>
<td>Mtrs</td>
<td>60</td>
<td>780</td>
<td>46800</td>
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Sign and Stamp of EPIL

28

Sign and Stamp of bidder
<table>
<thead>
<tr>
<th>Sr No</th>
<th>Item Description</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Lightning Flash counter working electro mechanically without any power supply. Equipment should count lightning strokes of 0.4KA to 150 KA. (8/20 micro second waveform) tested as per IEC 60-1:1989</td>
<td>Nos</td>
<td>1</td>
<td>14500</td>
<td>14500</td>
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<tr>
<td></td>
<td>Supply, installation, testing &amp; commissioning of maintenance free chemical earth pit set consisting of 1.2M long 16 mm dia 250 Micron Cu-coated MS rod(2 nos) connected together with clamps along with 10 Kg of ground enhancing chemical GRIC compound (without use of charcoal, salt or another combine). It should be capable of reducing soil resistivity by at least 50%. The earth pit shall be covered with Polyplastic heavy duty cover.</td>
<td>Nos</td>
<td>3</td>
<td>8000</td>
<td>24000</td>
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<tr>
<td>14</td>
<td>Point wiring for 5 / 6 amp socket outlet with 2 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia MS conduit with piano type switch , phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required.</td>
<td>Nos</td>
<td>15</td>
<td>1341</td>
<td>20115</td>
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<tr>
<td>15</td>
<td>Point wiring for 15 / 16 amp socket outlet with 2 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia MS conduit with piano type switch , phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required.</td>
<td>Nos</td>
<td>10</td>
<td>1598</td>
<td>15980</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td></td>
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<td><strong>3227579</strong></td>
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### Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At BARAGARH, RMC, Odisha

### ABSTRACT FOR FIRE FIGHTING WORK

<table>
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<tr>
<th>Sr No</th>
<th>Item Description</th>
<th>Qty.</th>
<th>Unit</th>
<th>Rate</th>
<th>Amount</th>
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<tr>
<td><strong>PART 8</strong></td>
<td><strong>FIRE FIGHTING WORK</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>SITC of following dia MS Pipes (B Class) with necessary bends, hydrant stand, isolation valves, flanges, landing valve, RRL Hose, Branch pipe, Hose box, underground road crossing, colouring etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>150 mm</td>
<td>15</td>
<td>Rmt</td>
<td>3187</td>
<td>47805</td>
</tr>
<tr>
<td>ii)</td>
<td>100 mm</td>
<td>170</td>
<td>Rmt</td>
<td>2500</td>
<td>425000</td>
</tr>
<tr>
<td>2</td>
<td>SITC of flexible Fire Hoses(first aid horeel) with with a wall-mounted bracket, hose guide, jet nozzle and 30 metres hose.</td>
<td>12</td>
<td>Set</td>
<td>9000</td>
<td>108000</td>
</tr>
<tr>
<td>3</td>
<td>Supply installation testing and commissioning of following pumps for fire fighting system</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>1620 LPM (50 Mtrs Head) fire hydrant pump (with all attachments like NRV, Cut off valve, air caution vessel, Pressure gauge, Pressure switch all complete etc)</td>
<td>1 nos</td>
<td></td>
<td>21500</td>
<td>215000</td>
</tr>
<tr>
<td>ii)</td>
<td>180 LPM jockey pump, 50 Mtrs head (3HP) Vertical type with (with all attachments like NRV, Cut off valve, Pressure gauge, Pressure switch all complete</td>
<td>1 nos</td>
<td></td>
<td>68000</td>
<td>68000</td>
</tr>
<tr>
<td>iii)</td>
<td>1620 LPM Diesel Engine driven hydrant pump, 50 Mtrs Head (with all attachments like NRV, Cut off valve,, Pressure gauge, Pressure switch, fuel Tank, Base Plate, battery, all complete etc</td>
<td>1 nos</td>
<td></td>
<td>370000</td>
<td>370000</td>
</tr>
<tr>
<td>4</td>
<td><strong>Fire Detection system</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Supply installation of multi criteria detectors (smoke+ heat)</td>
<td>100</td>
<td>Nos</td>
<td>2370</td>
<td>237000</td>
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<tr>
<td>ii)</td>
<td>Main fire alarm panel with MCP, Hooter, Isolater module.</td>
<td>1</td>
<td>Nos</td>
<td>250000</td>
<td>250000</td>
</tr>
<tr>
<td>c</td>
<td>2 c x 1.5 sq mm copper armoured cable with junction box, saddle etc.</td>
<td>700</td>
<td>Rmt</td>
<td>160</td>
<td>112000</td>
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<td>5</td>
<td>Co2 Fire extinguishers</td>
<td>8</td>
<td>Nos</td>
<td>7500</td>
<td>60000</td>
</tr>
<tr>
<td>6</td>
<td>DCP Fire extinguishers</td>
<td>20</td>
<td>Nos</td>
<td>3500</td>
<td>70000</td>
</tr>
<tr>
<td>7</td>
<td>Pump Control Panel for quoted main (1620 LPM), diesel (1620 LPM) &amp; jokey (180 LPM) fire pump auto operation with earthing &amp; pump wiring</td>
<td>1</td>
<td>Nos</td>
<td>300000</td>
<td>300000</td>
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<td><strong>Total</strong></td>
<td></td>
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<td></td>
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<td>2262805</td>
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**Name of Work** :-Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000 M.T. At BARAGARH, RMC, Odisha

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
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<tbody>
<tr>
<td>PART 9</td>
<td><strong>LIFT</strong></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>1</td>
<td>Endless Chain &amp; Sprocket type open platform, motorised manually operated Bi directional bag lift</td>
<td>No</td>
<td>1</td>
<td>952300</td>
<td>952300</td>
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**ABSTRACT FOR LIFT WORK**
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<tr>
<td>PART-1</td>
<td>Civil Work</td>
<td>Rs. 32148090</td>
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<td>PART-2</td>
<td>Structural Work</td>
<td>Rs. 18301710</td>
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<tr>
<td>PART-3</td>
<td>Plumbing &amp; Sanitary Works</td>
<td>Rs. 1536940</td>
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<td>PART-4</td>
<td>Insulation Work</td>
<td>Rs. 10757979</td>
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<td>PART-5</td>
<td>Plant Machinery</td>
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<td>PART-6</td>
<td>DG SET</td>
<td>Rs. 715000</td>
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<td>PART-7</td>
<td>Electrification</td>
<td>Rs. 3234719</td>
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<td>PART-8</td>
<td>Fire Fighting Work</td>
<td>Rs. 2262805</td>
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<td>PART-9</td>
<td>LIFT</td>
<td>Rs. 952300</td>
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<td>TOTAL</td>
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<td>Rs. 81867253</td>
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**Name of Work:** Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000 M.T. At DHENKIKOTE KEONJAR, RMC, Odisha
<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
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<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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<tbody>
<tr>
<td>1</td>
<td>Earth work in ordinary soil within 50m, initial lead and 1.5m initial lift</td>
<td>cum</td>
<td>0.00</td>
<td>74.88</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>including rough dressing and breaking clods to maximum 5cm to 7cm and</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>laying in layers not exceeding 0.3m in depth and as per direction</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>of the Engineer- in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Earth work in Hard soil within 50m, initial lead and 1.5m initial lift</td>
<td>cum</td>
<td>3418.49</td>
<td>119.90</td>
<td>409876.89</td>
</tr>
<tr>
<td></td>
<td>including rough dressing and breaking clods to maximum 5cm to 7cm and</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>laying in layers not exceeding 0.3m in depth and as per direction</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>of the Engineer- in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Extra Lift of 1.5m or part there of over the initial lift of 1.5 m in</td>
<td>cum</td>
<td>1647.60</td>
<td>28.57</td>
<td>47076.84</td>
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<tr>
<td></td>
<td>all kinds of embankments and road work and ordinary earth work in general.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Back filling available excavated earth (excluding rock) in trenches,</td>
<td>cum</td>
<td>2695.81</td>
<td>66.60</td>
<td>179540.89</td>
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<td>plinth, sides of foundations etc. in layers not exceeding 20 cm in depth,</td>
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<tr>
<td></td>
<td>consolidating each deposited layer by ramming and watering, lead upto 50</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>m and lift upto 1.5m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Supplying &amp; Filling foundation trenches , plinth &amp; ditches with clean</td>
<td>cum</td>
<td>702.53</td>
<td>547.25</td>
<td>384457.09</td>
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<tr>
<td></td>
<td>course river sand well watered and rammed in layers not exceeding 23 c.m.</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>in depth with all lead and lift including cost, conveyance, loading,</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>unloading, stacking, royalties and all taxes of sand, cost &amp; conveyance</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>of water, cost of all Labour, labour cess, T&amp;P required for the work etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>complete in all respect as directed by the Engineer- in-charge.</td>
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<td></td>
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<tr>
<td>Sr. No.</td>
<td>Particulars</td>
<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
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<td>Providing and laying Plain cement concrete of proportion (1:4:8) using 4cm size metal etc. in foundation and floors using cement, 40mm. Size crusher broken H.G.Metal and screened and washed sharp river sand for mortar of approved quality and from approved quarry including hoisting, lowering and laying concrete to the required level, ramming, watering and curing etc. complete to required levels, laid in layers not exceeding 15cm thick in each layer including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P required for the work including shoring, shuttering and dewatering (if required) including hire and running charges of water pump required for the work etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
<td>3684.71</td>
<td>412842.05</td>
</tr>
<tr>
<td></td>
<td>cum</td>
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<td>112.04</td>
<td>3684.71</td>
<td>412842.05</td>
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**Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000 M.T. At DHENKIKOTE KEONJAR, RMC, Odisha**

### ABSTRACT FOR CIVIL WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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<tr>
<td>7</td>
<td>Providing and laying in position RCC ready mixed M-25 grade concrete having compressive strength</td>
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<tr>
<td></td>
<td>at 28 days test not less than 250 kg/ sq.cm for reinforced cement concrete work, using cement</td>
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<tr>
<td></td>
<td>content as per approved design mix, manufactured in fully automatic batching plant and transported</td>
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<tr>
<td></td>
<td>to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured</td>
<td></td>
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<tr>
<td></td>
<td>as per mix design of specified grade for reinforced cement concrete work including pumping of</td>
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<tr>
<td></td>
<td>R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering finishing</td>
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<tr>
<td></td>
<td>and reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to</td>
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<td></td>
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<tr>
<td></td>
<td>accelerate/ retard setting of concrete, and hoisting, lowering, laying and compacting concrete,</td>
<td></td>
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<tr>
<td></td>
<td>watering and curing and finishing the exposed surfaces smooth with cost, conveyance, royalties,</td>
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<td>taxes of all materials with all labour, Labour cess and T&amp;P required for the work improve</td>
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<td>workability without impairing strength and durability as per direction of the Engineer - in -</td>
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<td></td>
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<tr>
<td></td>
<td>charge.</td>
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<tr>
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<th>Up to Plinth Level</th>
<th>Cu mt</th>
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<td>Cu mt</td>
<td>351.85</td>
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<td>2147985.52</td>
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<td>Cu mt</td>
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### ABSTRACT FOR CIVIL WORK

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<th>Sr.No.</th>
<th>Particulars</th>
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<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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<tr>
<td>8</td>
<td>Rigid &amp; smooth centering &amp; shuttering for R.C.C. works including false works with all necessary</td>
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<td></td>
<td>bracing and tiles and supports with leveling centering covered with plastic sheet with provisions for</td>
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<tr>
<td></td>
<td>necessary holes and pockets for electrical conduits, pipes, P.H. pipes, for hooks or boxes, switch and</td>
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<td>board insert plates, clamps and extension bars etc., including dismantling the same after the</td>
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<td>required interval from the date of casting including cost of all materials, labour, Labour cess,</td>
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<td>conveyance, loading and unloading, taxes, royalties, scaffolding, watering, curing, sundries,</td>
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<td></td>
<td>tools and plants, etc., complete as per the direction of the Engineer-in-charge.</td>
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<tr>
<td>a</td>
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<td>3315.23</td>
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<td>Rate</td>
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<td>RCC Stairs excluding Landing</td>
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<td>75.00</td>
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<td>9</td>
<td>Cutting, straightening coiled or bent up HYSD/TMT Reinforcement Bars welding or jointing if necessary, bending, binding, tying the grills as required for R.C.C. works, providing Fan Hooks where necessary and hoisting, lowering and placing the same in proper position according to the approved designs and drawings in all floors including cost, conveyance, loading, unloading and taxes or HYSD/TMT Reinforcement Bars and Binding wires of 18 to 20 gauge required for the work cost of all labour, T&amp;P and scaffolding complete in all respects as directed by the Engineer-in-charge (Payment will be made according to the actual/proper weight of HYSD/TMT Reinforcement Bars and Binding wires consumed in the particular work only)</td>
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Name of Work : Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000 M.T. At DHENIKOTE KEONJAR, RMC, Odisha

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<td>10</td>
<td>Fly Ash Brick Masonry in cement mortar of mix (1:6) using Fly Ash bricks of size 25c.m x 12 c.m x 8 c.m in Foundation, Plinth &amp; super structure having crushing strength not less than 75 kg per square c.m. with cement and screened &amp; washed sharp sand for mortar after immersing the bricks for 6 (Six) hours in water before use in works with all necessary projections, splay cutting, circular moulding, corbelling, chamfering, watering and curing etc. including cost, conveyance, stacking, loading, unloading, royalties, all taxes, cost of all labour, Labour cess, scaffolding, sundries and T&amp;P required for the works etc. complete in all respect as directed by the Engineer-in-charge.</td>
<td></td>
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<td>11</td>
<td>Providing 12mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement &amp; screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary) including watering and curing, rounding of corners etc. complete with cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&amp;P, sundries and scaffolding required for the work etc. as directed by the Engineer-in-charge.</td>
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Sign and Stamp of EPIL

Sign and Stamp of bidder
## ABSTRACT FOR CIVIL WORK

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<th>Rate</th>
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Providing 16mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement & screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after raking out the joints (alongwith providing grooves wherever necessary)including watering and curing, rounding of corners etc. complete with cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&P, sundries and scaffolding required for the work etc. as directed by the Engineer-in-charge.

<table>
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<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
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<td>153.77</td>
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<td>Sr.No.</td>
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<td>Unit</td>
<td>Qty</td>
<td>Rate</td>
<td>Amount</td>
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<tr>
<td>-------</td>
<td>------------------------------------------------------------------------------------------------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>--------------</td>
</tr>
<tr>
<td>13</td>
<td>Painting 2 (Two) or more coats with Weather Coat Paint of premium brand such as Asian/ Berger/ ICI paints or equivalent of approved quality &amp; colour, using required quantities of paint as specified by the manufacturer to give an even shade over a coat of wall priming (water based) on the finished external plastered surface at all height, watering the surface before applying the Weather Coat Paint and curing for the required period including cost, conveyance, loading, unloading, stacking and all taxes, cost of all Labour, Labourcess, Sundries, Scaffolding, Staging and T&amp;P etc. required for the work complete in all respect as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a</td>
<td>Up to Plinth Level</td>
<td>Sqm</td>
<td>1304.23</td>
<td>69.83</td>
</tr>
<tr>
<td></td>
<td>b</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>1911.91</td>
<td>69.83</td>
</tr>
<tr>
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<td>c</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>372.96</td>
<td>74.10</td>
</tr>
<tr>
<td></td>
<td>d</td>
<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
<td>Sqm.</td>
<td>420.85</td>
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<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
<td>263.90</td>
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<td>f</td>
<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>69.24</td>
<td>87.50</td>
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<tr>
<td>14</td>
<td>Priming one coat over with any approved primer including cost of material &amp; labour for Plastere Surface with water bond Cement primer</td>
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<tr>
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<td>a</td>
<td>Up to Plinth Level</td>
<td>Sqm</td>
<td>1304.23</td>
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<td>2576.04</td>
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<td>793.81</td>
<td>46.00</td>
</tr>
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</table>
Name of Work : Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000 M.T. At DHENKIKOTE KEONJAR, RMC, Odisha

### ABSTRACT FOR CIVIL WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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<tr>
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<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
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<td>15</td>
<td>Priming one coat over with any approved primer</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>including cost of material &amp; labour For Iron work</td>
<td></td>
<td></td>
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<td>First Floor Level (3.5mtr to 7.0mtr)</td>
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<td>Second Floor Level (7.0mtr to 10.5mtr)</td>
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<tr>
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<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
<td>Sqm.</td>
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<tr>
<td>e</td>
<td>Forth Floor Level (14.0mtr above)</td>
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</tr>
<tr>
<td>16</td>
<td>Wall painting two coats with plastic emulsion</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>paint of approved quality colour at all heights</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>to the interior surface of the wall to make an</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>even finished surface including sand papering,</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>putting wherever necessary including cost,</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>conveyance, loading, unloading, stacking, all</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>taxes, cost of all Labour, Labour cess,</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>scaffolding, staging, sundries, T&amp;P etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>required for the work complete as directed by</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>the Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Ground Floor Level (Plinth to 3.5Mtr)</td>
<td>Sqm.</td>
<td>664.13</td>
<td>62.61</td>
<td>41581.85</td>
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<td>b</td>
<td>First Floor Level (3.5mtr to 7.0mtr)</td>
<td>Sqm.</td>
<td>372.96</td>
<td>63.55</td>
<td>23700.17</td>
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<td>Sqm.</td>
<td>372.96</td>
<td>64.51</td>
<td>24059.44</td>
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<td>Third Floor Level (10.5mtr to 14.0mtr)</td>
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<td>65.50</td>
<td>24429.49</td>
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<td>Forth Floor Level (14.0mtr above)</td>
<td>Sqm.</td>
<td>117.70</td>
<td>66.52</td>
<td>7829.83</td>
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### ABSTRACT FOR CIVIL WORK

<table>
<thead>
<tr>
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<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>17</td>
<td>Finishing wall surface of walls with Acrylic wall putty (water based) of approved make and finished smooth and even surface to receive painting including cost, conveyance, taxes of all materials, cost of all Labour, Labour cess, scaffoldings, staging, sundries, T&amp;P etc. required for the work complete as directed by the Engineer-in-charge.</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>a  Ground Floor Level (Plinth to 3.5 Mtr)</td>
<td>Sqm.</td>
<td>664.13</td>
<td>74.28</td>
<td>49331.65</td>
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<td>b  First Floor Level (3.5mtr to 7.0mtr)</td>
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<td>75.09</td>
<td>28006.31</td>
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<td>75.93</td>
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<td>d  Third Floor Level (10.5mtr to 14.0mtr)</td>
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<td>117.70</td>
<td>77.67</td>
<td>9141.99</td>
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<tr>
<td>19</td>
<td>Brick on edge flooring using fly ash brick flat over one brick flat set in cement mortal (1:8)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a  Ground Floor</td>
<td>Sqm.</td>
<td>712.12</td>
<td>572.60</td>
<td>407755.87</td>
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<tr>
<td>20</td>
<td>Cement concrete flooring grade 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate) rounding off edges etc. but excluding the cost of nosing of steps etc. complete : 75 mm thick with 20 mm thick nominal size aggregate.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a  Ground Floor</td>
<td>Sqm.</td>
<td>0.00</td>
<td>212.00</td>
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Sign and Stamp of EPIL

11

Sign and Stamp of bidder
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<th>Sr.No.</th>
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<th>Unit</th>
<th>Qty</th>
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<th>Amount</th>
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<tbody>
<tr>
<td>21</td>
<td>Providing and fixing steel glazed doors windows and ventilator shutters of standard rolled steel section joints mitred and welded with steel lugs 13 x 3 mm, 10 cm. long embedded in cement concrete block 15 x 10 x 10 cm. of 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws with fixing clips or with bolts and nuts as required including providing and fixing of plain glass panes 4 mm thick with copper glazing clips and special metal sash putty of approved make or metal beading with screws complete including priming coat of approved steel primer, excluding the cost of metal beading and other fitting except necessary hinges of pivots steel handles peg stay etc. as required : Windows side hung (openable)</td>
<td>Sqm</td>
<td>7.56</td>
<td>1500.00</td>
<td>11340.00</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>24</td>
<td>Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge 0.50mm (+0.05%) total coated thickness with zinc coating 120grams per sqm as per IS:227, in 240mpa steel grade, 5-7 microns.</td>
<td>Sqm</td>
<td>750.11</td>
<td>597.23</td>
<td>447989.24</td>
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<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>32148090</strong></td>
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**Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity -3000 M.T. At DHENKIKOTE KEONJAR, RMC, Odisha**
## ABSTRACT FOR STRUCTURAL WORK

<table>
<thead>
<tr>
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<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
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</thead>
</table>
| 1       | Supplying, fabricating and erection of steel work in built up tubular hollow hot finished welded type steel tubes for trusses or frame works, etc using round, square or rectangular hollow tubes including cutting, hoisting and fixing in position and applying a prime coat of approved steel primer including welding and bolting with special shaped washers including cost of all labours, joining materials, etc required for work complete as directed by Engineer-In-Charge.  
(i) Hoising of Trusses and Placing in Position  | Kg.  | 113098.5  | 78.3 | 8855609.606    |
| 2       | Supplying, fabricating & fixing of Structural steel items made out of channels, angles, flats, plates, chequered plates I Section, Beam, Hollow Section any type of frame, space frame, gates, atrium in top, truss, purlins, columns, beams etc. complete as per drawing including priming with one coat of red oxide primer in all floors as per the direction of the Engineer-in-Charge.  
(i) Hoising of Trusses and Placing in Position  | Kg.  | 120639.8  | 78.3 | 9446099.942    |
|         | **Total**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |           |      | **18301710**    |

**Name of Work:** Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At DHENKIKOTE KEONJAR, RMC, Odisha

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<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong></td>
<td>Providing all materials, labour, T&amp;P for fitting and fixing white glazed vitreous china floor mounted water closet (European pattern) 'P' or 'S' type of approved make, As per IS-2556 with ISI mark, including supply of suitable PVC wall plug and Brass screws etc. all complete including cost of PVC seat cover (solid) with hinges &amp; rubber buffers etc all complete including cost, taxes and conveyance as per specification all complete as per direction of Engineer-in-charge. Make (No.C0297(S)Trap+C0278(P)Trap(Elite)Hindware</td>
<td>SET</td>
<td>1.00</td>
<td>3455.50</td>
<td>3455.50</td>
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<tr>
<td><strong>2</strong></td>
<td>Providing all materials, labour, and T&amp;P for fitting and fixing of 10 liter capacity PVC low level cistern complete with all internal fittings of approved make as per IS-7231 with ISI mark and Providing of necessary PVC wall plug, screws and 15mm dia PVC connection pipe with union at both end, including testing etc. all complete as per specification &amp; direction of Engineer-in-charge. Make: HINDWARE/CERA/PARRYWARE</td>
<td>No</td>
<td>1.00</td>
<td>1460.90</td>
<td>1460.90</td>
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<tr>
<td><strong>3</strong></td>
<td>Supply all materials and labour for fitting and fixing of 550x400mm white glazed vitreous china wash hand basin of approved make with supply &amp; fixing of 32mm CP waste, 15mm dia PVC water connection pipe, basin bolts &amp; Nuts of approved quality including cutting the walls &amp; floor and making good the damages with cement concrete (1:2:4) etc. with all taxes, duties, transportation etc. all complete as per direction of EIC. (Make (No.C0460 Basin(550x400m)Papular(Hindware)</td>
<td>SET</td>
<td>2.00</td>
<td>3770.20</td>
<td>7540.40</td>
</tr>
<tr>
<td><strong>4</strong></td>
<td>Supplying all materials and labour, T&amp;P for fitting and fixing of 590mm x 390mm x 375mm white glazed vitreous china Half stall front standing urinal basin as per IS-2556 with ISI mark along with supply &amp; fixing of necessary component parts like pair of C.I./M.S. bracket including all taxes, duties, transportation etc. with all complete fittings as per specification &amp; direction of the Engineer-in-charge. (Make No.C0575+C8095(White)Hindware.</td>
<td>SET</td>
<td>2.00</td>
<td>4704.10</td>
<td>9408.20</td>
</tr>
<tr>
<td><strong>5</strong></td>
<td>Providing all materials, labour, T&amp;P for fitting and fixing of 20mm thick white marble partition for urinal of following sizes including cutting, edge moulding, both side polishing including fixing on the wall after groove cutting &amp; making good the damages. The cost inclusive of all taxes, transportation etc. all complete as per specification &amp; direction of Engineer-in-charge.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Marble partition Size-2x0.90x0.75=1.35</strong></td>
<td>Sqmt</td>
<td>1.00</td>
<td>2570.70</td>
<td>2570.70</td>
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**Name of Work** :-Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At DHENKIKOTE KEONJAR, RMC, Odisha

**ABSTRACT FOR PLUMBING & SANITARY WORK**

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<thead>
<tr>
<th>Sr.No.</th>
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<th>Rate</th>
<th>Amount</th>
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<tbody>
<tr>
<td>6</td>
<td>Providing all materials, labour, T&amp;P for fixing of 600x450mm bevelled edge mirror of 5mm thick mounted on 4mm thick A C back sheet &amp; CP cup screw with PVC wall plugs including cost, conveyance, taxes of all materials complete as per specification and direction of E.I.C.</td>
<td>NO</td>
<td>2.00</td>
<td>654.40</td>
<td>1308.80</td>
</tr>
<tr>
<td>7</td>
<td>Supplying all materials, labour, T&amp;P and fixing standard sized CP towel rail complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge</td>
<td>NO</td>
<td>1.00</td>
<td>955.40</td>
<td>955.40</td>
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<tr>
<td>8</td>
<td>Supplying all materials, labour, T&amp;P and fixing standard sized glass-shelf with CP brass brackets and guard rails complete fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge</td>
<td>NO</td>
<td>1.00</td>
<td>569.90</td>
<td>569.90</td>
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<tr>
<td>9</td>
<td>Providing and fixing 15mm dia CP bib cock long body(Jaquar make)</td>
<td>NO</td>
<td>1.00</td>
<td>1179.40</td>
<td>1179.40</td>
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<tr>
<td>10</td>
<td>Providing and fixing 15mm dia CP angular stop cock(Jaquar make)</td>
<td>NO</td>
<td>5.00</td>
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<td>11</td>
<td>Providing and fixing Health Faucet with 1m long PVC tube &amp; wall hook(Jaquar make)</td>
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<td>1.00</td>
<td>1742.30</td>
<td>1742.30</td>
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<td>12</td>
<td>Providing and fixing 15mm dia CP two way bib cock(Jaquar make)</td>
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<td>1179.40</td>
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<td>13</td>
<td>Providing and fixing 15mm dia pillar cock(Jaquar make)</td>
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<td>Providing and fixing Robe Hook(Jaquar make)</td>
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<td>Providing and fixing soap case(Jaquar make)</td>
<td>NO</td>
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<td>Providing and fixing 32mm CP Bottle Trap(Jaquar make)</td>
<td>NO</td>
<td>4.00</td>
<td>1451.90</td>
<td>5807.60</td>
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<td>17</td>
<td>Supplying all materials, labour &amp; fitting and fixing 125mm dia stainless steel gratting on top of floor traps with white cement all complete in all floors, as per technical specification and direction of Engineer-in-charge.</td>
<td>NO</td>
<td>4.00</td>
<td>83.80</td>
<td>335.20</td>
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<tr>
<td>18</td>
<td>Providing all materials, labour, T&amp;P for laying of following nominal dia UPVC pipes as per IS- 4985 with ISI mark including fixing of required size UPVC fittings like, bend, Tee, elbow, offsets, etc. and the same fixed on wall or floor with holder bat clamps screw etc. including testing the joints with required water pressure. The cost inclusive of all taxes, duties, transportation scaffolding etc. as per specification and direction of Engineer-in-charge. Make : Make : SUPREME/ASTRAL/ASHIRVAD</td>
<td>RM</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>a.</td>
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<td>b.</td>
<td>50mm dia</td>
<td>RM</td>
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<td>420.70</td>
<td>6310.50</td>
</tr>
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Sign and Stamp of EPIL

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Sign and Stamp of bidder
### ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>Providing and fixing on wall face unplasticised Rigid PVC soil, waste water pipes conforming to IS:13592 Type-B, including jointing with seal-ring conforming to IS:5382, Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>110mm dia</td>
<td>RM</td>
<td>40.00</td>
<td>330.90</td>
<td>13236.00</td>
</tr>
<tr>
<td>20</td>
<td>Providing and fixing on wall face unplasticised PVC for rain water pipes conforming to IS:13592 Type-A, including jointing with seal-ring conforming to IS:5382, Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a.</td>
<td>110mm dia</td>
<td>RM</td>
<td>80.00</td>
<td>330.90</td>
<td>26472.00</td>
</tr>
<tr>
<td>b.</td>
<td>160mm dia</td>
<td>RM</td>
<td>80.00</td>
<td>717.30</td>
<td>57384.00</td>
</tr>
</tbody>
</table>

Supplying all materials, labour, T&P, fitting and fixing of following dia UPVC SWR fittings of approved make confirming to IS-14735 with all taxes, duties, transportation & requisite testing as per specification & direction of Engineer-in-charge. Make: SUPREME/ASTRAL/ASHIRVAD

<table>
<thead>
<tr>
<th>Sr. No.</th>
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<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
<td>110mm x110mm P trap</td>
<td>NO</td>
<td>3.00</td>
<td>273.80</td>
<td>821.40</td>
</tr>
<tr>
<td>b.</td>
<td>110mm WC Connector/ Bend with lip ring</td>
<td>NO</td>
<td>1.00</td>
<td>228.00</td>
<td>228.00</td>
</tr>
<tr>
<td>c.</td>
<td>110mm dia Plain Bend 87.5 deg</td>
<td>NO</td>
<td>2.00</td>
<td>100.20</td>
<td>200.40</td>
</tr>
<tr>
<td>d.</td>
<td>160mm dia Plain Bend 87.5 deg</td>
<td>NO</td>
<td>2.00</td>
<td>312.00</td>
<td>624.00</td>
</tr>
<tr>
<td>e.</td>
<td>110mm dia Plain Bend 45 deg</td>
<td>NO</td>
<td>4.00</td>
<td>100.20</td>
<td>400.80</td>
</tr>
<tr>
<td>f.</td>
<td>160mm dia Plain Bend 45 deg</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Providing all materials, labour, T&P for laying in trenches of following nominal dia UPVC pipes (Sch-80) as per IS-ASTMD-1785 with ISI mark including fixing of required size fittings like bend, Tee, elbow, offsets etc. & testing the joints with required water pressure. The cost inclusive of all taxes, duties, transportation scaffolding etc. as per specification and direction of Engineer-in-Charge. Make: SUPREME/ASTRAL/ASHIRVAD

<table>
<thead>
<tr>
<th>Sr. No.</th>
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<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
<td>40mm Dia</td>
<td>metre</td>
<td>5.00</td>
<td>362.20</td>
<td>1811.00</td>
</tr>
<tr>
<td>b.</td>
<td>50mm Dia</td>
<td>metre</td>
<td>15.00</td>
<td>452.75</td>
<td>67912.50</td>
</tr>
</tbody>
</table>

Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes SDR-13.5 conforming to IS: 15778, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipes with clamps at 1.00 m spacing. The includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Make: SUPREME/ASTRAL/ASHIRVAD

<table>
<thead>
<tr>
<th>Sr. No.</th>
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<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
<td>25mm Dia</td>
<td>metre</td>
<td>15.00</td>
<td>186.00</td>
<td>2790.00</td>
</tr>
<tr>
<td>b.</td>
<td>20mm Dia</td>
<td>metre</td>
<td>15.00</td>
<td>145.20</td>
<td>2178.00</td>
</tr>
</tbody>
</table>
**Name of Work:** Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At DHENKIKOTE KEONJAR, RMC, Odisha

**ABSTRACT FOR PLUMBING & SANITARY WORK**

<table>
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<tr>
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<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>Supplying all materials, labour, T&amp;P fitting and fixing of different size brass upvc ASTMD-1785, sch-80 ball valve Make: SUPREME/ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>25mm dia ball valve</td>
<td>No</td>
<td>1.00</td>
<td>336.70</td>
<td>336.70</td>
</tr>
<tr>
<td>b</td>
<td>50 mm dia ball Valve</td>
<td>No</td>
<td>6.00</td>
<td>1260.00</td>
<td>7560.00</td>
</tr>
<tr>
<td>25</td>
<td>Supplying and fixing in position approved make bronze vertical non return valve(screwed) of approved make to IS: 778,</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>50 mm dia</td>
<td>No</td>
<td>6.00</td>
<td>909.00</td>
<td>5454.00</td>
</tr>
<tr>
<td>Make</td>
<td>Zoloto/leader/shakti</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Fixing Rotational moulded polyethylene cylindrical vertical water storage tanks conforming to IS:12701--1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc, including hoisting up to a height of 5 metres above ground level and placing the tank to the required position and construction of required staging etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>2000 litre capacity Double Layer Cylindrical Vertical water storage tanks</td>
<td>No</td>
<td>3.00</td>
<td>28973.20</td>
<td>86919.60</td>
</tr>
<tr>
<td>27</td>
<td>Cutting holes for taking 100mm dia PVC pipes through 250mm thick wall</td>
<td>No</td>
<td>6.00</td>
<td>133.40</td>
<td>800.40</td>
</tr>
<tr>
<td>28</td>
<td>Supplying all materials, joining materials, labour and T &amp; P and laying UPVC Foam core pipe as per IS:16098 sn-4 for underground rain water pipe and sewer Make ASTRAL/ASHIRVAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>110mm Nominal Dia pipe</td>
<td>metre</td>
<td>35.00</td>
<td>369.70</td>
<td>12939.50</td>
</tr>
<tr>
<td>b</td>
<td>160mm Nominal Dia pipe</td>
<td>metre</td>
<td>40.00</td>
<td>739.20</td>
<td>29568.00</td>
</tr>
<tr>
<td>c</td>
<td>200 mm Nominal Dia pipe</td>
<td>metre</td>
<td>13.00</td>
<td>956.40</td>
<td>12433.20</td>
</tr>
<tr>
<td>29</td>
<td>Providing and laying in trench cement concrete (1:3:6) with 40mm size hard granite metal in the following type of bedding for upvc pipes of the following internal diameter including curing complete as per specification</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>110mm Nominal Dia pipe</td>
<td>metre</td>
<td>35.00</td>
<td>560.60</td>
<td>19621.00</td>
</tr>
<tr>
<td>b</td>
<td>160mm Nominal Dia pipe</td>
<td>metre</td>
<td>40.00</td>
<td>794.70</td>
<td>31788.00</td>
</tr>
<tr>
<td>c</td>
<td>200 mm Nominal Dia pipe</td>
<td>metre</td>
<td>13.00</td>
<td>990.50</td>
<td>12876.50</td>
</tr>
</tbody>
</table>

Sign and Stamp of EPIL 17

Sign and Stamp of bidder
## ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr. No.</th>
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<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>Supplying all materials, labour, T&amp;P and constructing gully trap chamber of the following inside size with 8cm thick R.C.C precast cover slab in cement concrete (1:2:4) mix using 12mm size h.g chips, foundation concrete (1:4:8) using 40mm size hard granite metal on bed and around trap, K.B brickwork in c.m (1:6) in F&amp;P and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mmx100mm size HCl gully trap, 150mmx150mm size C.I grating etc all complete as per approved drawing, specification and direction of the Engineer in charge - Gully trap chamber of size 250mmx250mm with R.C.C cover slab</td>
<td>No</td>
<td>1.00</td>
<td>1253.70</td>
<td>1253.70</td>
</tr>
<tr>
<td>31</td>
<td>Supplying all materials, labour, T&amp;P and constructing man hole chamber of the following size with cement concrete (1:3:6) using 40mm size hard granite metal on bed, 1st class K.B brickwork in cement mortar (1:6), moulding and shaping the channel inside and benching with cement concrete (1:2:4) using 12mm size h.g chips, 12mm thick cement plaster (1:3) with punning to inside, cement flush pointing (1:3) to outside, R.C.C cover slab in (1:2:4) using 12mm size h.g chips with RCC man hole cover, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge</td>
<td>No</td>
<td>10.00</td>
<td>13773.10</td>
<td>137731.00</td>
</tr>
<tr>
<td>32</td>
<td>Supplying all materials, labour, T&amp;P and constructing soakway pit of the following size with precast RCC rings joined loose, gravel backing in the rear of well steining, precast RCC cover slab in cement concrete (1:2:4) using 12mm size h.g chips fitted with iron lifting handles including cutting hole in the rings for inlet pipe, earthwork in open well excavation in all kinds of soil and refilling of cavity around the pit &amp; painting the iron works, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge - RCC rings soakway pit 1.22m dia x 2.10m deep</td>
<td>No</td>
<td>2.00</td>
<td>12873.40</td>
<td>25746.80</td>
</tr>
<tr>
<td></td>
<td>Construction of rain water harvesting pit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Name of Work
- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At DHENKIKOTE KEONJAR, RMC, Odisha

## Abstract for Plumbing & Sanitary Work

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>Supplying, installing, testing and commissioning of Non clog self priming centrifugal pump. Electric motor. The pump shall have cast iron delivery casting, cast iron impeller SS Shaft. Pump shall be provided with mechanical seal (gland packing). The pump shall be suitable for auto/ manual operation. All complete, including cost, convenance, taxes, T &amp; P etc. complete as per direction of Engineer-in-charge.</td>
<td>No</td>
<td>2.00</td>
<td>10000.00</td>
<td>20000.00</td>
</tr>
<tr>
<td></td>
<td><strong>WATER TRANSFER PUMP FROM DOMESTIC WATER TANK UGR TO OVER HEAD TANK</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flow rate= 185 lit/min each pump</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Head= 15 mtr</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Single- phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Motor HP=1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1SET (1 WORKING + 1 STAND BY)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Providing, fitting &amp; fixing pvc rung 200 mm X 300mm Step Iron (inside u.g.r.) etc. All complete as per direction of Engineer-in-charge.</td>
<td>No</td>
<td>20.00</td>
<td>179.70</td>
<td>3594.00</td>
</tr>
<tr>
<td>35</td>
<td>Supplying fixing GI half round rain water gutter under the sloped roofs including providing necessary nuts and bolts, protection bar etc. All complete as per the direction of the Engineer-in-charges.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>200 mm dia half round gutter</td>
<td>rm</td>
<td>105.00</td>
<td>1100.00</td>
<td>115500.00</td>
</tr>
<tr>
<td>b</td>
<td>150 mm dia half round gutter</td>
<td>rm</td>
<td>105.00</td>
<td>900.00</td>
<td>94500.00</td>
</tr>
<tr>
<td></td>
<td><strong>BORE WELL (Production well)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>Labour for drilling a perfectly bore hole for specified dia for specified depth below G.L through consolidated and unconsolidated rocks with fast drilling sophisticated DTH/combination rig to suit the site condition as per the direction of the Engineer-in-charge including use of own Rigs with all accessories, T&amp;P consumables etc., for lowering of 200mm dia GI/PVC pipe for housing fitted with socket and with or without well screen as per necessity for soft, medium, hard &amp; boulder formation (GI/PVC/MS casing pipe if required to prevent collapse of over burden is to be provided by the contractor including lowering and withdrawing after completion of Tube well) 200mm dia to 400mm dia in overburden portion including packing of gravel supplied by the contractor for 400mm dia bore only.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a)</td>
<td>200 mm dia</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1) 0 Mtr to 80 Mtr</td>
<td></td>
<td>Each Mtr</td>
<td>80.00</td>
<td>657.00</td>
<td>52560.00</td>
</tr>
</tbody>
</table>

Sign and Stamp of EPIL

19

Sign and Stamp of bidder
### Name of Work
Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At DHENIKOTE KEONJAR, RMC, Odisha

### ABSTRACT FOR PLUMBING & SANITARY WORK

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<tbody>
<tr>
<td>37</td>
<td>Lowering the following size of G.I. /PVC/MS housing pipe with or without slotted pipes as per the necessity from ground level up to 45mtr depth fitted and fixed up in perfectly vertical position including cutting &amp; threading of pipes &amp; slotted pipes &amp; supplying &amp; fixing all jointing materials, tools &amp; plant etc. all complete &amp; keeping the top of casing pipe threaded including plugging tube-wells to prevent entry of foreign materials and keeping the casing pipe 1.00mtr above GL.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>a) 200 mm dia&lt;br&gt;0 Mtr to 80 Mtr</td>
<td>Each Mtr</td>
<td></td>
<td>40.00</td>
<td>1659.45</td>
</tr>
<tr>
<td>39</td>
<td>Cleaning and developing the tube well with their own compressor continuously worked till clear and adequate discharge is obtained from the tube well including supply and use of all necessary equipment and labour as per direction of Engineer-in-charge.</td>
<td>Each No</td>
<td></td>
<td>1.00</td>
<td>4919.00</td>
</tr>
<tr>
<td>40</td>
<td>Providing, fitting and fixing and laying of HDPE pipe with supply of all materials all complete as per PH specification &amp; direction of Engineer-in-charge. (MAKE:ORIPLAST )</td>
<td>Each Mtr</td>
<td></td>
<td>70.00</td>
<td>210.00</td>
</tr>
<tr>
<td>41</td>
<td>a)50mm dia HDPE pipe(working pressure 0.8MPA)</td>
<td>Each Mtr</td>
<td></td>
<td>70.00</td>
<td>210.00</td>
</tr>
<tr>
<td>42</td>
<td>Supplying, fixing of 3.00 HP submersible pump TEXMO Make(Item code no.TDF255 type : TRF 908 HS +SF007R) including cost of all materials, transportation and taxes of pump etc. complete as per PH specification &amp; direction of Engineer-in-charge.</td>
<td>Each Set</td>
<td></td>
<td>1.00</td>
<td>19000.00</td>
</tr>
<tr>
<td>43</td>
<td>Supplying all materials, labour, T&amp;P for fitting and fixing of required control panel including indicator 32 Amp TPN main switch including connection, installation etc. all complete as per specification &amp; direction of Engineer-in-charge. (Model no :BEI-SSD2045*321 relay range 13-18 )make TC</td>
<td>Each Mtr</td>
<td></td>
<td>90.00</td>
<td>106.00</td>
</tr>
<tr>
<td>44</td>
<td>Supplying, fitting and fixing of 3core flat industrial cable for submission conforming to IS 694 Flexible 1100V. To IS 694. including all cost of material, labour, T&amp;P etc all complete. (Make: Finlox.)</td>
<td>Each Mtr</td>
<td></td>
<td>90.00</td>
<td>106.00</td>
</tr>
<tr>
<td>45</td>
<td>Supplying, fitting, fixing of S.S tapper 2nos of 0.45mtr long M.S supporting clamps with M.S nuts &amp; bolt and 200mm tube well cover &amp; cap suitable for the above pump sets.</td>
<td>Each Mtr</td>
<td></td>
<td>90.00</td>
<td>106.00</td>
</tr>
<tr>
<td>46</td>
<td>Rain water Harvesting. Structure - 2 nos</td>
<td>Each Set</td>
<td></td>
<td>1.00</td>
<td>2000.00</td>
</tr>
<tr>
<td>47</td>
<td>Sinking of tube well through D.T.H.Rig.</td>
<td>Mtr.</td>
<td></td>
<td>50.00</td>
<td>657.00</td>
</tr>
<tr>
<td>48</td>
<td>Lowering of PVC casing pipe inside bore.</td>
<td>Mtr.</td>
<td></td>
<td>50.00</td>
<td>136.00</td>
</tr>
</tbody>
</table>

Sign and Stamp of EPIL

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**ABSTRACT FOR PLUMBING & SANITARY WORK**

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</tr>
</thead>
<tbody>
<tr>
<td>46</td>
<td>Cost of 200mm dia (Sch.80) Pipe</td>
<td>Mtr.</td>
<td>50.00</td>
<td>1523.45</td>
<td>76172.50</td>
</tr>
<tr>
<td>47</td>
<td>Cutting slot in casing pipe for recharge of rain water</td>
<td>Mtr.</td>
<td>50.00</td>
<td>353.50</td>
<td>17675.00</td>
</tr>
<tr>
<td>48</td>
<td>Labour for packing gravel outside the tube well</td>
<td>Cum</td>
<td>4.70</td>
<td>110.10</td>
<td>517.47</td>
</tr>
<tr>
<td>49</td>
<td>Cost of washed gravel</td>
<td>Cum</td>
<td>4.70</td>
<td>1612.40</td>
<td>7578.28</td>
</tr>
<tr>
<td>50</td>
<td>Earth work in all kinds of soil within 50 mtr initial lead and 1.5mtr initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3 mtr in depth and as per direction of the Engineer in charge</td>
<td>Cum</td>
<td>133.38</td>
<td>129.70</td>
<td>17299.39</td>
</tr>
<tr>
<td>51</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:4:8) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>2.16</td>
<td>3886.10</td>
<td>8393.98</td>
</tr>
<tr>
<td>52</td>
<td>Supplying all materials, labour, T&amp;P and providing brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:6) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>22.80</td>
<td>3940.00</td>
<td>89832.00</td>
</tr>
<tr>
<td>53</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Sqm</td>
<td>182.40</td>
<td>110.50</td>
<td>20155.20</td>
</tr>
<tr>
<td>54</td>
<td>Supplying all materials, labour, T&amp;P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>77.20</td>
<td>77.20</td>
<td>77.20</td>
</tr>
</tbody>
</table>

**Name of Work:** Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At DHENNIKOTE KEONJAR, RMC, Odisha

**Sign and Stamp of EPIL**
**Name of Work:** Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At DHENKIKOTE KEONJAR, RMC, Odisha

**ABSTRACT FOR PLUMBING & SANITARY WORK**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>55</td>
<td>Suppling all materials, labour, T&amp;P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Sqm</td>
<td>97.20</td>
<td>23.10</td>
<td>2245.32</td>
</tr>
<tr>
<td>56</td>
<td>Suppling all materials, labour, T&amp;P and providing reinforced cement concrete work of M-25 grade with 20mm and down grade black hard granite crusher broken stone chips including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>57</td>
<td>Suppling all materials, labour, T&amp;P and providing M.S reinforcement for R.C.C work including cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>0.84</td>
<td>5502.70</td>
<td>4622.27</td>
</tr>
<tr>
<td>58</td>
<td>Providing and fitting filter media</td>
<td>Qntl.</td>
<td>0.68</td>
<td>6023.00</td>
<td>4095.64</td>
</tr>
<tr>
<td>a</td>
<td>40mm size bolder-2x1x6.0x2.50x0.85=25.50</td>
<td>Cum</td>
<td>25.50</td>
<td>1414.50</td>
<td>36069.75</td>
</tr>
<tr>
<td>b</td>
<td>20mm size washed gravel-2x1x6.0x2.50x0.40=12.00</td>
<td>Cum</td>
<td>12.00</td>
<td>1723.50</td>
<td>20682.00</td>
</tr>
<tr>
<td>c</td>
<td>Course sand-2x1x6.0x2.50x0.30=9.00</td>
<td>Cum</td>
<td>9.00</td>
<td>582.50</td>
<td>5242.50</td>
</tr>
<tr>
<td>59</td>
<td>Providing fitting and fixing M.S.grill,Jalli cover over the harvesty pindi</td>
<td>Qntl.</td>
<td>6.00</td>
<td>6100.00</td>
<td>36600.00</td>
</tr>
<tr>
<td>60</td>
<td>Earth work in all kinds of soil within 50 mtr initial lead and 1.5mtr initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3 mtr in depth and as per direction of the Engineer in charge</td>
<td>Cum</td>
<td>4.54</td>
<td>129.70</td>
<td>588.84</td>
</tr>
<tr>
<td>61</td>
<td>Suppling all materials, labour, T&amp;P and providing cement concrete (1:2:4 ) with 12mm size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</table>
### ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
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<th>Unit</th>
<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
<td>In ground floor</td>
<td>Cum</td>
<td>2.54</td>
<td>5584.40</td>
<td>14184.38</td>
</tr>
<tr>
<td>62</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:3:6) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>3.56</td>
<td>4287.60</td>
<td>15263.86</td>
</tr>
<tr>
<td>a.</td>
<td>Ground floor</td>
<td>sqm</td>
<td>59.50</td>
<td>123.90</td>
<td>7372.05</td>
</tr>
<tr>
<td>63</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) with punning on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>8.56</td>
<td>4552.50</td>
<td>38969.40</td>
</tr>
<tr>
<td>a.</td>
<td>In ground floor</td>
<td>Cum</td>
<td>10.31</td>
<td>129.70</td>
<td>1337.21</td>
</tr>
<tr>
<td>64</td>
<td>Supplying all materials, labour, T&amp;P and providing 1st class K.B.Brick work in C.M (1:4) in foundation and plinth including watering, curing, conveyance of all materials to site.</td>
<td>Cum</td>
<td>4.33</td>
<td>139.20</td>
<td>602.74</td>
</tr>
<tr>
<td>a.</td>
<td>In ground floor</td>
<td>Cum</td>
<td>0.55</td>
<td>4287.60</td>
<td>2358.18</td>
</tr>
<tr>
<td>65</td>
<td>Construction of 20 users septic tank</td>
<td>Cum</td>
<td>10.31</td>
<td>129.70</td>
<td>1337.21</td>
</tr>
<tr>
<td>a.</td>
<td>Extra lifts of 1.50 mtr or part thereof over the initial lift of 1.5 mtr in all kinds of embankments and road works and ordinary earthwork in general.</td>
<td>Cum</td>
<td>4.33</td>
<td>139.20</td>
<td>602.74</td>
</tr>
<tr>
<td>66</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:3:6) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>0.55</td>
<td>4287.60</td>
<td>2358.18</td>
</tr>
<tr>
<td>a.</td>
<td>In ground floor</td>
<td>Cum</td>
<td>1.03</td>
<td>4287.60</td>
<td>2358.18</td>
</tr>
<tr>
<td>67</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12m size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>1.03</td>
<td>4287.60</td>
<td>2358.18</td>
</tr>
<tr>
<td>a.</td>
<td>In ground floor</td>
<td></td>
<td>0.28</td>
<td></td>
<td></td>
</tr>
<tr>
<td>68</td>
<td>Earth work in excavation of foundation in all kinds of soil within 50m initial lead and 1.5m initial lift including rough dressing &amp; breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-in-Charge.</td>
<td>Cum</td>
<td>3.13</td>
<td>123.90</td>
<td>387.97</td>
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<tr>
<td>b.</td>
<td>Extra lifts of 1.50 mtr or part thereof over the initial lift of 1.5 mtr in all kinds of embankments and road works and ordinary earthwork in general.</td>
<td>Cum</td>
<td>0.30</td>
<td>123.90</td>
<td>37.17</td>
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<tr>
<td>69</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:3:6) with 4cm size hard granite metal including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Cum</td>
<td>0.28</td>
<td>4287.60</td>
<td>2358.18</td>
</tr>
</tbody>
</table>

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Sign and Stamp of EPIL

23

Sign and Stamp of bidder
Name of Work: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At DHENKIKOTE KEONJAR, RMC, Odisha

### ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Unit</th>
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<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>68</td>
<td>Supplying all materials, labour, T&amp;P and providing brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:4) including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>cum</td>
<td>1.31</td>
<td>5584.40</td>
<td>7315.56</td>
</tr>
<tr>
<td>a. In F&amp;P</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(3.09m+1.13m)0.38mx0.70m=2.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(2.83m+1.13m)0.25mx1.30m=2.57</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>69</td>
<td>Supplying all materials, labour, T&amp;P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>cum</td>
<td>4.82</td>
<td>4552.50</td>
<td>21943.05</td>
</tr>
<tr>
<td>a. In ground floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inside</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1.95m+1.87m)1.13m=4.32</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>2x2.33mx½(1.95m+1.87m)=8.90</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Outside</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(3.09m+1.89m)0.70m=6.97</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(2.83m+1.63)1.43m=12.76</td>
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</tr>
<tr>
<td>70</td>
<td>Supplying all materials, labour, T&amp;P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>sqm</td>
<td>32.94</td>
<td>115.70</td>
<td>3811.16</td>
</tr>
<tr>
<td>a. In ground floor</td>
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<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>sqm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>13.22</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>71</td>
<td>Supplying all materials, labour, T&amp;P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>sqm</td>
<td>3.43</td>
<td>353.70</td>
<td>1213.19</td>
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<tr>
<td>a. R.C.C floor and roof slabs</td>
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<tr>
<td></td>
<td>In ground floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.30mx1.10m=2.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2(2.86m+1.66m)0.10m=0.90</td>
<td></td>
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</tbody>
</table>

Sign and Stamp of EPIL

24

Sign and Stamp of bidder
### Name of Work: Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At DHENIKOTE KEONJAR, RMC, Odisha

#### ABSTRACT FOR PLUMBING & SANITARY WORK

<table>
<thead>
<tr>
<th>Sr. No.</th>
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<th>Qty</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>Supplying all materials, labour, T&amp;P and providing M.S reinforcement for R.C.C work including cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>Qntl</td>
<td>0.38</td>
<td>5226.00</td>
<td>1985.88</td>
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<tr>
<td>a. In ground floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>73</td>
<td>Supplying all materials, labour, T&amp;P and providing cement concrete (1:2:4) with 12mm size hard broken granite chips for R.C.C works including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge</td>
<td>cum</td>
<td>0.47</td>
<td>5584.40</td>
<td>2624.67</td>
</tr>
<tr>
<td>a. In ground floor-2.86mx1.66mx0.10m=0.47</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>74</td>
<td>Supplying all materials, labour, T&amp;P and providing, fitting and fixing 100mm x 100mm x 100mm SW Tee in wall including filling the recess with cement concrete (1:3:6) with 12mm size h.g chips all complete including watering, curing, conveyance of all materials to worksite, payment of royalty all complete as per specification and direction of the Engineer in charge</td>
<td>Each</td>
<td>2.00</td>
<td>321.90</td>
<td>643.80</td>
</tr>
<tr>
<td>75</td>
<td>Supplying all materials, labour, T&amp;P and making MS step iron in 20mm diameter MS steel bars and fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge.</td>
<td>Each</td>
<td>5.00</td>
<td>181.30</td>
<td>906.50</td>
</tr>
<tr>
<td>76</td>
<td>Filling in foundation and plinth with excavated materials, moorum including watering and ramming as directed by the Engineer in charge</td>
<td>cum</td>
<td>3.45</td>
<td>72.00</td>
<td>248.40</td>
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<tr>
<td><strong>Total</strong></td>
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<td></td>
<td><strong>1536940</strong></td>
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<tr>
<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
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<tr>
<td>-------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>--------</td>
<td>-------</td>
<td>------</td>
<td>--------------</td>
</tr>
<tr>
<td>1</td>
<td>Providing Poly Urethene composite sandwich Ceiling panels 100mm thk. for Ceiling with 0.50mm BMT pre painted Galvalume PPGL sheet on both side , with tongue and groove joints, PUF(Poly Urethene foam) shall be of density 40Kg/Cu.mt. +-2%, The panels shall be CFC Free certified., complete with erection and commissioning as walk in cooler ceiling with supporting -T and flashings and fixtures, silicon, PUF chemical sealant complete item</td>
<td>Sq. Mtrs.</td>
<td>824.66</td>
<td>2247</td>
<td>1853011.02</td>
</tr>
<tr>
<td>2</td>
<td>Providing EPS thermocole insulation for floor in two layers of 50+75mm each that is 125 mm complete.as per specification of material and workmanship, first of all apply bitumin primer over the cleaned surface, then fix polyethylent sheet of 500 micron, over which fix one layer of thermocole using bitumin 85x25, seal the joints, then apply bitumin, again fix second layer , again seal the joints with bitumin, complete item.</td>
<td>Sq. Mtrs.</td>
<td>824.66</td>
<td>1498</td>
<td>1235340.68</td>
</tr>
<tr>
<td>3</td>
<td>Providing Poly Urethene composite sandwich panel 100 mm thk. for Outer Wall with 0.50mm BMT pre painted Galvalume PPGL sheet on chamber side face and 0.25mm thk PPGI( Pre painted Glvanised, as per specification of material and workmanship)iron sheet on wallside face, with tongue and groove joint, PUF(Poly Urethene foam) shall be of density 40Kg/Cu.mt. +-2%, The panels shall be CFC Free certified., including erection and commissioning as walk in cooler walls with flashings, fixtures, silicon sealant, PUF chemical complete item.</td>
<td>Sq. Mtrs.</td>
<td>2555.62</td>
<td>2140</td>
<td>5469026.8</td>
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**ABSTRACT FOR INSULATION WORK**

<table>
<thead>
<tr>
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<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Providing Poly Urethene composite sandwich panel for Partition wall, 100 mm thk. with 0.50mm BMT both sides pre painted Galvalume PPGL sheet on chamber side face and 0.25mm thk PPGI (Pre painted Galvanised, as per specification of material and workmanship) iron sheet on wallside face, with tongue and groove joint, PUF (Poly Urethene foam) shall be of density 40Kg/Cu.mt. +/-2%, The panels shall be CFC Free certified, including erection and commissioning as walk in cooler partition wall with fixtures and flashings using silicon sealent and PUF chemical complete item.</td>
<td>Sq. Mtrs.</td>
<td>480</td>
<td>2140</td>
<td>1027200</td>
</tr>
<tr>
<td>5</td>
<td>Providing and fixing Single leaf manual hinge hatch door/windows 100mm thk PU insulation with 0.6mm thk Coated steel finish. W=1200mm, H=2100mm, as per specification of material and workmanship</td>
<td>Nos.</td>
<td>12</td>
<td>48150</td>
<td>577800</td>
</tr>
<tr>
<td>a</td>
<td>Doors</td>
<td>Nos.</td>
<td>12</td>
<td>48150</td>
<td>577800</td>
</tr>
<tr>
<td>b</td>
<td>Windows</td>
<td>Nos.</td>
<td>4</td>
<td>37450</td>
<td>149800</td>
</tr>
<tr>
<td>6</td>
<td>Providing Suction pipeline insulation with 50/75mm pipe of EPS in through suction line in machine room, Low pressure receiver and chamber complete Top should be clad with Aluminius sheet complete.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>417300</td>
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<tr>
<td>7</td>
<td>Strip Curtain 150 mm wide for 2X1 M door opening, 3 mm thick</td>
<td>Nos</td>
<td>19</td>
<td>28500</td>
<td>28500</td>
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**TOTAL** | **10757979**
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<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
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</thead>
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<tr>
<td></td>
<td><strong>PART 5</strong> <strong>PLANT &amp; EQUIPMENT</strong></td>
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<tr>
<td>1</td>
<td>Heavy duty high speed industrial type three cylinder vertical reciprocating ammonia refrigeration compressors Kirloskar KC-2/Frick/Superfreeze/Mycom or equivalent make with drive set, stop valve for suction and discharge with flanges and counter flanges, HP/LP OP cutouts, gauges, base frame, bolts, tool kit, gasket set and ferrule complete set with erection and commissioning, testing. Heavy duty high speed industrial type three cylinder vertical reciprocating ammonia refrigeration compressors Kirloskar KC-2/Frick/Superfreeze/Mycom or equivalent make with drive set, stop valve for suction and discharge with flanges and counter flanges, HP/LP OP cutouts, gauges, base frame, bolts, tool kit, gasket set and ferrule complete set with erection and commissioning, testing.</td>
<td></td>
<td>3</td>
<td>499333.3</td>
<td>1498000.011</td>
</tr>
<tr>
<td>2</td>
<td>Providing Electric motor of Kirloskar / Crompton / GEC of 50 HP and 1440 RPM, Induction for operation on 440/400 volts, 50 cycles, 3 phase AC supply for driving the Compressors.</td>
<td></td>
<td>3</td>
<td>160500</td>
<td>481500</td>
</tr>
<tr>
<td>3</td>
<td>Providing MEI / Kilbern / L &amp; T motor starter for above mentioned 50HP motor respectfully with ammeter of AE make and 2 overload relays and cable box including starter oil etc. complete.</td>
<td></td>
<td>2</td>
<td>26750</td>
<td>53500</td>
</tr>
<tr>
<td>4</td>
<td>Providing Liquid ammonia receiver of 600mmx6.0 mt long fabricated with 14mm thk plates with inlet and outlet valves, gauge glass valves with gauge glass including MS stand complete. Providing Centrifugal mono block pumps (12M head, 12 LPS) for circulating water with TFC squirrel cage induction motor of 5.0 HP suitable for operation on 400/440 volts, 50 cycles, three phase AC supply and necessary inlet and outlet pipes and foot valves (Kirloskar model no. KD5515 / Crompton model No. MBP 52 / Texmo model No. TMH-6) one fitted stand by.</td>
<td></td>
<td>1</td>
<td>187250</td>
<td>187250</td>
</tr>
<tr>
<td>5</td>
<td>Providing Oil separator fabricated with 10mm thk. MS plate with size 1350x600mm complete with companion flange.</td>
<td></td>
<td>1</td>
<td>26750</td>
<td>26750</td>
</tr>
<tr>
<td>S. No.</td>
<td>Description of Item</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>--------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------</td>
<td>------</td>
<td>-------</td>
<td>----------------</td>
</tr>
<tr>
<td>6</td>
<td>Providing Atmospheric condenser 10 pipes high 12 Condensers made in TATA/JINDAL/PRAKASH SURYA MS 50mm thk Round Pipe with fabrication and erection with angle grame 65x65x6 with water ling in GI 50mm B Class Pipe of TATA/JINDAL/PRAKASH SURYA make with header of 150mm dia GI Pipe, all Complete item suitable for heat load of 425 KW including sand blasting and ZINC spray galvanising 120GSM.</td>
<td>Nos.</td>
<td>12</td>
<td>59920</td>
<td>719040</td>
</tr>
<tr>
<td>7</td>
<td>Providing Air Cooling Units of alfa laval/ICL/starcooler and condensers/Frick or equivalent make, 03 Nos in each Chamber of refrigeration capacity 36KW each suitable for 0 deg C, Refrigerant ammonia evaporating(pump feed), air volume 48000 CMH, fans 3X710mm axial fan, 1440 RPM, motor 0.75KW(1HP) each, 415V/3ph/50Hz, Stainless steel tubes with plain aluminium fins, 4 fpi, case work GI white powder coated complete with erection and commissioning at top.</td>
<td>Sets</td>
<td>8</td>
<td>285333.7</td>
<td>2282669.52</td>
</tr>
<tr>
<td>8</td>
<td>Provision of First charge of ammonia and oil 68 No. freeze oil for initial temperature as required and maintained for one year.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>350000</td>
</tr>
<tr>
<td>9</td>
<td>Black and GI pipes of different sizes for the completion of water and gas lines and for inter connection of entire plant with suction discharge and liquid lines.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>500000</td>
</tr>
<tr>
<td>10</td>
<td>Sundry material such as gaskets, thread seals, packing sheets, nut bolts, water valves, flanges, V-belts and other required equipments complete as required for various plant and machinery for 5000 mt capacity.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>200000</td>
</tr>
<tr>
<td>11</td>
<td>Providing Energy Recovery wheel in each chamber of 1547Mt each, 02 nos, suitable for 04 air changes in a day. Danfoss/Manik/Any ISI make as per NHB norms and Standards.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>400000</td>
</tr>
<tr>
<td>12</td>
<td>Equipment for Co2 gas removal suitable for 02 chambers of 1547MT each to hold the co2 level 2000PPM as per NHB Norms and Standards.</td>
<td>Lumpsum</td>
<td></td>
<td></td>
<td>130000</td>
</tr>
<tr>
<td>13</td>
<td>Providing Freon plant for Four chambers of 52 MT eachwith evooprators and condensing units complete with pipe line, pipeline insulation suitable for heat load of 28.15KW at peak load, complete with installation and commissioning with electrification.</td>
<td>Each</td>
<td>1</td>
<td>3638000</td>
<td>3638000</td>
</tr>
<tr>
<td>14</td>
<td>Load cell based Weight Monitoring system all complete with remot disply</td>
<td>Nos</td>
<td>6</td>
<td>53500</td>
<td>321000</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>11957710</strong></td>
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</table>
**NAME OF WORK** :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At DHENKIKOTE KEONJAR, RMC, Odisha

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PART 6</strong></td>
<td><strong>DG SET</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Supply, installation &amp; commissioning of silent type 125 KVA, 415V, 50Hz, 1500 RPM, 0.8 Lagging p.f., D.G. Set with all accessories excluding AMF Panel with acoustic enclosure. Conforming to BS 5514, 649, IS 10000, capable of taking 10% overload for one hour after 12 hours of continuous operation including base frame, foundation platform, fuel tank, starting system, batteries etc. conforming to CPWD General specification for DG Sets and including Earthing. Complete in all respect.</td>
<td>No</td>
<td>1</td>
<td>715000</td>
<td>715000</td>
</tr>
</tbody>
</table>
## Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At DHENIKOTE KEONJAR, RMC, Odisha

### ABSTRACT FOR ELECTRICAL WORK

<table>
<thead>
<tr>
<th>Sr No</th>
<th>Item Description</th>
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<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PART-7</strong></td>
<td><strong>Elctrification</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SITC of Electric control Panel having all electrical controls with MCCBs incoming main and earth fault relay, HRC fuses, one CT operated ammeter 0-400 amps and one volt meter 0-600 volts etc. complete unit to run above plant. Specification mention as below 1. <strong>INCOMER</strong>- Main MCCB of any standard make, Control and Switchgear etc of Capacity, 400A 01 No., Change over Switch, 01 No. METERING - indicating lamp R/Y/B 230V 03 No., control fuse with HRC link 2A 07, APFC relay 12 stage make 01 No., Multifunctional Meter 0-400A 01 No., CT400/5Amp/class 1 400/5A 04 no. 2. <strong>OUTGOING</strong>- a) 50HP ATS starters Qty 03 Nos. (200A SFU with HRC link 200A 03NO., Control MCB 6Amp 9No., 140A 3P Contactor 06 Nos. 70A 3 pole contactor 3No. Thermal over load relay 66-110A 03No., on delay timer 06No., ATS Transformer 03No., Ameter digital type with ASS 0-200A 03No., CT200/5Amp class 1 09No., Indicating lamp R/Y/B/OFF/TRIP 230V 15No., Start/Stop Push button 06No. b) 5HP DOL starter for pump with standby- 20A MCB TP 10KA, 18A 3P Contactor 09 No., Thermal over load relay 6-10A 03 No., 5HP VFD 02 No. indicating lamp ON/OFF/TRIP 04 No., Start stop push button 230V 04 No., Auto manual selector switch 02 No., c) 5HP DOL Starter for Water Pump and LIFT motor-20A</td>
<td>Nos</td>
<td>1</td>
<td>1280000</td>
<td>1280000</td>
</tr>
<tr>
<td><strong>SUPPLY OF CABLE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shelthed XLPE power cable of 1.1 KV grade 3.5 CORE 185 Sqmm Al.CONDUCTOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm, 50mm and 80mm as required and Brick where necessary), refilling the trench etc. as required.</td>
<td>Mtrs</td>
<td>80</td>
<td>2007</td>
<td>160560</td>
</tr>
</tbody>
</table>
## Name of Work:- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity
3000 M.T. At DHENKIKOTE KEONJAR, RMC, Odisha

### ABSTRACT FOR ELECTRICAL WORK

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<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shileded XLPE power cable of of 1.1 KV grade 3.5 CORE 50 Sqmm Al.CONDUCATOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm,50mm and 80mm as required and Brick where necessary) ,refilling the trench etc. as required.</td>
<td>Mtrs</td>
<td>40</td>
<td>750</td>
<td>30000</td>
</tr>
<tr>
<td>4</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shileded XLPE power cable of 1.1 KV grade 3.5 CORE 35 Sqmm Al.CONDUCATOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm,50mm and 80mm as required and Brick where necessary) ,refilling the trench etc. as required.</td>
<td>Mtrs</td>
<td>40</td>
<td>617</td>
<td>24680</td>
</tr>
<tr>
<td>5</td>
<td>Supply, laying, jointing and making end termination with brass compression gland and aluminium lugs of one number PVC insulated and PVC shileded XLPE power cable of 1.1 KV grade 3.5 CORE 10 Sqmm Cu.CONDUCATOR CABLE direct in ground including excavation, san cushioning, protective covering (GI pipe i.e. 40mm,50mm and 80mm as required and Brick where necessary) ,refilling the trench etc. as required.</td>
<td>Mtrs</td>
<td>180</td>
<td>416</td>
<td>74880</td>
</tr>
<tr>
<td>6</td>
<td>Wiring of light points/fan points (6A/5A) with junction boxes, MS covers etc. All materials i.e. switches / sockets / MS boxes / hardwares and wires etc. shall be of approved make and shall be supplied/installed under scope of work for concealed flush type arrangement. The earthwire PVC insulated 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade is to be supplied/installed as per drawing and specifications. Complete work has to be executed strictly as per drawing Point wiring covers all work scope from switch board to points.</td>
<td>Nos</td>
<td>370</td>
<td>1134</td>
<td>419580</td>
</tr>
<tr>
<td>7</td>
<td>Wiring of two way control point with 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade PVC insulated including supply of material.</td>
<td>Nos</td>
<td>3</td>
<td>1112</td>
<td>3336</td>
</tr>
<tr>
<td>Sr No</td>
<td>Item Description</td>
<td>Unit</td>
<td>Qty.</td>
<td>Rate</td>
<td>Amount</td>
</tr>
<tr>
<td>-------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
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<td>------</td>
<td>----------</td>
</tr>
<tr>
<td>8</td>
<td>Wiring of bell/buzzer points with 2 x 1.5 SQMM copper wire 660V / 1.1 KV grade insulated wire (including supply of all material) including CPL buzzer board.</td>
<td>Nos</td>
<td>18</td>
<td>2298</td>
<td>41364</td>
</tr>
<tr>
<td>9</td>
<td>Materials</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>Providing and fixing of BULKHEAD LED fittings of 40 watt each</td>
<td>Nos</td>
<td>300</td>
<td>2000</td>
<td>600000</td>
</tr>
<tr>
<td>ii)</td>
<td>Providing and fixing of LED Tube Light fittings of 40 watt each</td>
<td>Nos</td>
<td>35</td>
<td>1150</td>
<td>40250</td>
</tr>
<tr>
<td>iii)</td>
<td>Providing and fixing of 1400RPM Ceiling Fan</td>
<td>Nos</td>
<td>35</td>
<td>2350</td>
<td>82250</td>
</tr>
<tr>
<td>iv)</td>
<td>Providing and fixing 1x400W HPSV street light fittings with accessories like control switch, clamps, bend rod etc.</td>
<td>Nos</td>
<td>8</td>
<td>7400</td>
<td>59200</td>
</tr>
<tr>
<td>10</td>
<td>Preparing an earthing pit (Plate electrode) by using 600 x 600 x 3.15mm thk. GI plates at location shown in the drawing including supply laying and installation of all necessary material as earth electrodes, strips, wires, funnel, screen, watering pipes, brick chamber, CI frame with cover and to complete.</td>
<td>Nos</td>
<td>9</td>
<td>9000</td>
<td>81000</td>
</tr>
<tr>
<td>11</td>
<td>Supply, Installation, Testing &amp; Commissioning of following type Distribution board surface / flush mounted with Single Door MCB DBs. The DB shall have appropriate no. of top &amp; bottom knock outs for outgoing circuits &amp; shall be complete with necessary bus bars, interconnection terminals &amp; earth studs. All terminations in DB shall be complete with ferruling, dressing &amp; all circuits shall be properly labeled with PVC strip (sticker type) having identification as per the final approval of Consultant.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>2Way MCB DB</td>
<td>Nos</td>
<td>18</td>
<td>673</td>
<td>12114</td>
</tr>
<tr>
<td>ii)</td>
<td>8 Way Vertical TPN DB</td>
<td>Nos</td>
<td>3</td>
<td>9652</td>
<td>28956</td>
</tr>
<tr>
<td>12</td>
<td>Supply and fixing following type MCBs in existing MCB DBs including its incoming and outgoing connection with suitable size of PVC insulated, copper conductor flexible wire etc. as reqd.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>32A 4 Pole MCB</td>
<td>Nos</td>
<td>18</td>
<td>953</td>
<td>17154</td>
</tr>
<tr>
<td>13</td>
<td>LIGHTINING ARRESTER</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</table>
## ABSTRACT FOR ELECTRICAL WORK

<table>
<thead>
<tr>
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<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Supply, Installation, testing and commissioning of High pulsar voltage OPR 30 Early streamer emission (ESE) Advance Lightning Protection system with 4 meter high Pulsar 30 having 65 meter protection radius IN LEVEL 2 complies with NFC-17-102 standards. The Air terminal should be capable to collect the ambient electric field and should emit the upward streamer with the defined Gain in time. The installation should be strictly followed as per manufacturer’s instructions. The system should include the following items complete in all respects.</td>
<td></td>
<td>1</td>
<td>14000</td>
<td>14000</td>
</tr>
<tr>
<td></td>
<td>GI mast for mounting the terminal &amp; adaptor to mount the OPR 30 with suitable base plate, should have provision for Guy wire clamping system, termination arrangement for the Down-Conductor.</td>
<td></td>
<td>1</td>
<td>18000</td>
<td>18000</td>
</tr>
<tr>
<td></td>
<td>Down conductor of 70 sq.mm single core insulated flexible Copper cable with necessary accessories, etc OR Copper strip of size 25 X 3mm down conductor of suitable length as per building height with suitable mounting accessories and mounted on Insulators.</td>
<td>Mtrs</td>
<td>60</td>
<td>780</td>
<td>46800</td>
</tr>
<tr>
<td></td>
<td>Lightning Flash counter working electro mechanically without any power supply. Equipment should count lightning strokes of 0.4KA to 150 KA.(8/20 micro second waveform) tested as per IEC 60-1:1989</td>
<td>Nos</td>
<td>1</td>
<td>14500</td>
<td>14500</td>
</tr>
<tr>
<td></td>
<td>Supply, installation, testing &amp; commissioning of maintenance free chemical earth pit set consisting of 1.2M long 16 mm dia 250 Micron Cu-coated MS rod(2 nos) connected together with clamps along with 10 Kg of ground enhancing chemical GRIC compound (without use of charcoal, salt or another combine). It should be capable of reducing soil resistivity by at least 50%. The earth pit shall be covered with Polyplastic heavy duty cover.</td>
<td>Nos</td>
<td>3</td>
<td>8000</td>
<td>24000</td>
</tr>
<tr>
<td></td>
<td>Point wiring for 5 / 6 amp socket outlet with 2 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia MS conduit with piano type switch, phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required.</td>
<td>Nos</td>
<td>15</td>
<td>1341</td>
<td>20115</td>
</tr>
</tbody>
</table>
Name of Work :- Construction of Multi Chamber Multi Commodity Cold Storage Nominal Capacity - 3000 M.T. At DHENIKOTE KEONJAR, RMC, Odisha

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</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>Point wiring for 15 / 16 amp socket outlet with 2 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked in recess 20 mm dia MS conduit with piano type switch, phenolic laminated sheet suitable size ISI marked MS box and earthing point with 1 x 1.5 sq.mm FR PVC insulated single core multistrand copper conductor for loop earthing etc. as required.</td>
<td>Nos</td>
<td>10</td>
<td>1598</td>
<td>15980</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>3234719</strong></td>
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Sign and stamp of EPIL

Sign and stamp of bidder
### ABSTRACT FOR FIRE FIGHTING WORK

<table>
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<tr>
<th>Sr No</th>
<th>Item Description</th>
<th>Qty</th>
<th>Unit</th>
<th>Rate</th>
<th>Amount</th>
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<tr>
<td><strong>PART 8</strong></td>
<td><strong>FIRE FIGHTING WORK</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>SITC of following dia MS Pipes (B Class) with necessary bends, hydrant stand, isolation valves, flanges, landing valve, RRL Hose, Branch pipe, Hose box, underground road crossing, colouring etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>150 mm</td>
<td>15</td>
<td>Rmt</td>
<td>3187</td>
<td>47805</td>
</tr>
<tr>
<td>ii)</td>
<td>100 mm</td>
<td>170</td>
<td>Rmt</td>
<td>2500</td>
<td>425000</td>
</tr>
<tr>
<td>2</td>
<td>SITC of flexible Fire Hoses (first aid horeel) with a wall-mounted bracket, hose guide, jet nozzle and 30 metres hose.</td>
<td>12</td>
<td>Set</td>
<td>9000</td>
<td>108000</td>
</tr>
<tr>
<td>3</td>
<td>Supply installation testing and commissioning of following pumps for fire fighting system</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>1620 LPM (50 Mtrs Head) fire hydrant pump (with all attachments like NRV, Cut off valve, air caution vessel, Pressure gauge, Pressure switch all complete etc)</td>
<td>1</td>
<td>nos</td>
<td>21500</td>
<td>215000</td>
</tr>
<tr>
<td>ii)</td>
<td>180 LPM jockey pump, 50 Mtrs head (3HP) Vertical type with (with all attachments like NRV, Cut off valve, Pressure gauge, Pressure switch all complete)</td>
<td>1</td>
<td>nos</td>
<td>68000</td>
<td>68000</td>
</tr>
<tr>
<td>iii)</td>
<td>1620 LPM Diesel Engine driven hydrant pump, 50 Mtrs Head (with all attachments like NRV, Cut off valve, Pressure gauge, Pressure switch, fuel Tank, Base Plate, battery, all complete etc)</td>
<td>1</td>
<td>nos</td>
<td>370000</td>
<td>370000</td>
</tr>
<tr>
<td>4</td>
<td>Fire Detection system</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>Supply installation of multi criteria detectors (smoke + heat)</td>
<td>100</td>
<td>Nos</td>
<td>2370</td>
<td>237000</td>
</tr>
<tr>
<td>ii)</td>
<td>Main fire alarm panel with MCP, Hooter, Isolater module.</td>
<td>1</td>
<td>Nos</td>
<td>250000</td>
<td>250000</td>
</tr>
<tr>
<td>c</td>
<td>2 x 1.5 sq mm copper armored cable with junction box, saddle etc.</td>
<td>700</td>
<td>Rmt</td>
<td>160</td>
<td>112000</td>
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<td>5</td>
<td>Co2 Fire extinguishers</td>
<td>8</td>
<td>Nos</td>
<td>7500</td>
<td>60000</td>
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<td>6</td>
<td>DCP Fire extinguishers</td>
<td>20</td>
<td>Nos</td>
<td>3500</td>
<td>70000</td>
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<tr>
<td>7</td>
<td>Pump Control Panel for quoted main(1620 LPM), diesel (1620 LPM) &amp; jockey (180 LPM) fire pump auto operation with earthing &amp; pump wiring</td>
<td>1</td>
<td>Nos</td>
<td>30000</td>
<td>300000</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
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<td>2262805</td>
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</table>
Name of Work  :-Construction  of Multi Chamber  Multi Commodity Cold Storage Nominal Capacity -3000 M.T. At DHENKIKOTE KEONJAR, RMC, Odisha

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Item</th>
<th>Unit</th>
<th>Qty.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>PART 9</td>
<td>LIFT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Endless Chian &amp; Sprocket type open platform, motorised manually operated Bi directional bag lift</td>
<td>No</td>
<td>1</td>
<td>952300</td>
<td>952300</td>
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</tbody>
</table>