TENDER DOCUMENT

TENDER No: DLI / CON/ 644/ 493

FOR

‘Construction of 6 Nos Platoon level Border out Posts (BOP) at Tarabani, Lambachhara, Baraharina, Gurusora, Thambujachhari, Crocodile & 4 Nos Company Level Border out Posts (BOP) at New Mauzam, Badalchhara, Demagiri, Jagnasuri along Indo-Bangladesh border in the state of Mizoram’

VOLUME – II

‘ADDITIONAL CONDITIONS OF CONTRACT, TECHNICAL SPECIFICATIONS & DRAWINGS’
ADDITIONAL CONDITIONS OF CONTRACT

1.0 The following Additional Conditions of Contract shall be read in conjunction with General Conditions of Contract. If there are any provisions in Additional Conditions of Contract which are at variance with the provision of General Conditions of Contract, then provision in this Additional Conditions of Contract shall take precedence over General Conditions of Contract.

2.0 INTRODUCTION:-

Construction of Border out Post (BOPs) for Border Security Force along Indo-Bangladesh Border (IBB) in Mizoram Sector is a Project of Ministry of Home Affairs, Govt. of India, and Engineering Projects (India) Limited. (A Govt. of India Enterprise) has been appointed as an “Executing Agency” for this project.

3.0 The following shall stand added to Clause No. 2 of G.C.C:

2.1 Although as indicated by Border Security Force, the user of Border Out Posts, the land of this BOP is available. However, handing over of sites the all BOP in totality may not be possible in one go as the BOP is an existing BOP with temporary structures needs to be shifted. Therefore, the site may be handed over in parts progressively in phases to the contractor. The contractor shall take up the construction activities open such released fronts in parts/ phase without any reservation whatsoever. However, in case of any delay in handing over of the site to the contractor, Owner/ EPI shall only consider suitable extension of time for the execution of the work. It should be clearly understood that the Owner/ EPI shall not consider any other compensation whatsoever towards idleness of contractor’s labour, equipments etc.

2.2 The contractor shall make his own arrangement for approach to work site including borrow/ disposal area and for movement of men, materials, machineries, other equipment etc. required for carrying out the work under this contract.

2.3 The access roads/ path near to the work site may not to be available at all places and at all time. The contractor shall plan his works as per the availability of access roads/ path at site. All drainage of works area and all weather truckable/ haulage roads as required by the contractor shall be constructed and maintained during the construction period by the contractor at his own cost.
3.0 **SCOPE OF WORK**

The brief scope of work to be extended for each BOP under the present tender shall generally comprise of (but not limited to) the following such as:-

3.1 **Civil Construction Work:** - This will generally comprise of constructing Office Block, Kitchen, Toilet, Barrack Type- A & Type- B, Magazine Kote, Wireless Room, OP Towers, BOP Towers, Garage, Sentry Post, Wash, Septic Tank with soak pits, POL store, Bunkers & open court yard with all round peripheral boundary wall/ ring bund of the total BOP.

3.2 **Services:** - Internal water supply & sanitary installation, internal electric installation, external service connection, power wiring & plug, providing lightening conductors, telephone & computer conduits, water tank & underground sump etc.

3.3 **Development of Site:** - Leveling including earth work, internal roads & paths, sewer, filter water supply with distribution lines, unfiltered water supply with distribution lines, storm water drains, horticulture, street lighting etc. Construction of approach road, brick/ stone masonry/RCC retaining wall, tube well with submersible pump including pipe lines/ plumbing & control panels, installation of solar panels, integrated RO plant/ iron removing plant, entry barrier & sign board, rain water harvesting & providing movable fixtures

3.4 **Anti Malaria Measures:** The contractor shall at his own expenses make necessary arrangement for undertaking anti-malaria measures as prescribed by Local Health Authorities or as directed by Engineer-in-charge. The expenses to be incurred by the contractor on this account are deemed to be included in the contract rates/prices.

The contractor shall also provide all assistance to EPI during handing over the Border Out Posts & allied works after their completion to the designated agency nominated by Ministry of Home Affairs. In case the quality at any point is found not as per specification or deficiencies are found, the contractor will get it rectified at its own cost.

4.0 No Mobilization advance shall be paid to contractor and hence clause no 8 of GCC shall be deleted.
5.0 The clause No 10 of GCC shall stand amended as below:

An amount @5% (Five percent) of the gross value of the running bill shall be deducted from each running bill by way of retention money. In case the EMD has been deposited by the contractor in the form of demand draft, the said amount of EMD shall be adjusted first towards the retention money and further recovery of retention money shall commence when the up to date amount of retention money exceeds the amount of EMD deposited in the form of demand draft. The retention money shall become refundable to the contractor at the end of the defects liability period free of any interest provided always that the contractor has rectified all the defects arising during the defect liability period pertaining to his scope of work, EPI did not have to incur any expenditure in setting right the defects, if any, pertaining to the contractor’s scope of work, the contractor has demolished and removed all structures including foundations and withdrawn fully from the worksite and EPI has received the handing/taking over certificate from the client. In case EPI has been required to make any expenditure on any of these accounts EPI will keep the retention money till the time all these matters are settled in full including recovery of the expenses, if any, made by EPI from the retention money. Further the contractor has to furnish a 'No Claim' certificate to EPI in confirmation of his having no claim on getting refunded the retention money to EPI at the time of claiming refund of retention money.

6.0 MOBILIZATION OF PLANT & MACHINERY
In addition to the stipulation made at Clause no.11 of G.C.C the contractor at his own cost has to deploy the following minimum Plant & Machinery at site within 15 days issuing of LOI or as instructed by Engineer-in-Charge.

<table>
<thead>
<tr>
<th>SI No.</th>
<th>Description</th>
<th>Minimum Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>01.</td>
<td>Excavator</td>
<td>Three</td>
</tr>
<tr>
<td>02.</td>
<td>Concrete Vibrators (Petrol/Electrical)</td>
<td>Sixteen</td>
</tr>
<tr>
<td>03.</td>
<td>Concrete Mixer (10/7 with feeding Hopper)</td>
<td>Sixteen</td>
</tr>
<tr>
<td>04.</td>
<td>DG Set (63 KVA)</td>
<td>Eight</td>
</tr>
<tr>
<td>05.</td>
<td>Digital Theodolite / TOTAL STATION , Auto Level</td>
<td>Three, Eight</td>
</tr>
<tr>
<td>06.</td>
<td>water tanker</td>
<td>Eight</td>
</tr>
<tr>
<td>07.</td>
<td>Tipper/truck</td>
<td>Sixteen</td>
</tr>
<tr>
<td>08.</td>
<td>Scaffolding &amp; Shuttering materials (steel)</td>
<td>1000 Sqm</td>
</tr>
</tbody>
</table>
Note

a) Any other equipment for site test as outlined in CPWD/BIS specification and as directed by the Engineer-in-charge.

b) The quantities of equipment indicated are tentative and can be increased as per the requirement of work or as per the direction of Engineer-in-charge. The above equipment list is indicative and not complete. The contractor has to deploy all the required equipment to complete all the works within stipulated specifications & time period as per contract documents.

c) The contractor will not be allowed to take out equipments from the site without the written permission of Engineer-in-charge.

7.0 FACILITIES

FACILITIES

The sub-clause 28.3 of the clause no. 28 of General Conditions of Contract (GCC) for furnished office Accommodation & Mobility & communication to be provided by the contractor to EPI shall be replaced and read as under:

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office with Facilities: – The Contractor shall provide office with following facilities till defect liability period</td>
<td>Sq. ft.</td>
<td>Two Nos. of 1200 Sq. ft. each.</td>
</tr>
</tbody>
</table>

A) Accommodation

Furnished office accommodation with one conference room as per direction of Engineer – in – charge with basic amenities like two toilets with water borne flushing systems and septic tank and soak pit arrangement, safe drinking water arrangement, lights, power back up & other facilities for winter and summer season etc. for EPI Engineer & staff & maintenance of it till defect liability period. Two locations shall be decided by Engineer – in- charge.

Two bed room reasonably furnished transit accommodation at two location decided by the EIC to be provided.

B) Furniture

Office tables & chairs (Sr. Executive) at each office locations | No | 01 |
Office tables at each BOP location | No | 01 |
Office Chairs at each BOP location | Nos. | 06 |
Steel almirah at each BOP location | No | 01 |
File cabinet at Each BOP location | No | 01 |

C) Office Equipment

i) Fax Machine at two BOP location decided by
<table>
<thead>
<tr>
<th><strong>Engineer – in – charge</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ii) Computer (15 processor) with minimum 500 GB HDD, 4 GB Memory, latest version of software’s like MS- Project, Windows-8, MS office etc. along with two 600 KVA UPS small portable generator set of sufficient capacity to run the computer operator shall be arrangement and one computer operator shall be provided by the contractor at his own cost at any two BOP location decided by Engineer-in-charge.</td>
<td>Nos. 02</td>
</tr>
<tr>
<td>iii) DELL/SONY/HP make Laptop 4 GB RAM, 1TB Hard disk, 15Processor, DHH latest version of software like MS project, Windows -8, MS projects with internet facility &amp; running cost of interest</td>
<td>No 03</td>
</tr>
<tr>
<td>iv) HP laser printer A4 &amp; A3 size at any two BOP location decided by Engineer- in – charge.</td>
<td>No 02</td>
</tr>
<tr>
<td>v) Refrigerator (180L or above) location to be decided by EIC</td>
<td>No 01</td>
</tr>
<tr>
<td>vi) RO water system (Drinking water) to be installed at the location decided by EIC. Also safe drinking water shall have to be supplied at all BOPs</td>
<td>No 02</td>
</tr>
<tr>
<td>vii) Photocopy machine (CANON NP 3050 Or equivalent model) or any other gadget of equivalent cost as decided by Engineer –in-charge.</td>
<td>No 01</td>
</tr>
<tr>
<td>viii) Digital Camera Sony make digital still camera 10.0 Mega Pixel W-series 3 X optical zoom cyber shot (black) or any other gadget of equivalent cost as decided by Engineer- in-charge.</td>
<td>No 02</td>
</tr>
<tr>
<td>ix) Consumables: All consumables like stationery, ink etc. shall be provided by Tenderer till end of defect liability period. (Stationery items are inclusive of visiting cards, rubber stamps letter pads, Photocopies papers &amp; other items of daily office use). Amount shall be restricted to Rs 15, 000/- per month.</td>
<td>- -</td>
</tr>
</tbody>
</table>

**D) Conveyance**

| i. Vehicle (Brand New): Brand new four wheel drive Bolero VX or equivalent vehicle or equipment with Driver, fuel and accessories valuing Rs 50,000/- per month for each vehicle. In case of breakdown of Vehicle | No 03 |
The vehicle shall be brand new and shall be provide with driver on full time basis upto the end of Defect Liability Period. The cost of consumables like diesel/ petrol/oil lubricants and spare etc. shall be borne by the PARTY. The vehicle shall be maintained in good working condition in case of breakdown, replacement of vehicles shall be provided by Party immediately. The case a vehicle is not required by EPI a recovery of Rs 50,000/- per month per vehicle shall be made from the Party for this purpose till the end of defect liability period. In case Driver, POL, maintenance of any vehicle is not required by EPI for any vehicle, a recovery of Rs 20,000/- per month per vehicle shall be made from the PARTY for this till the bend of defect liability period.

The above gadgets and facilities should be brand new and of reputed make and all facilities shall be provided and maintained properly (including payment of water & electricity bills etc.) by the PARTY at project site of at any other office related with execution of this project till completion of work, handing over, defect liability period in all respect at his own cost. The PARTY shall also make stand by arrangement for water & electricity to ensure un-interrupted supply. The PARTY shall be the property of PARTY contract. The PARTY shall be responsible for watch and ward of site office and other facilities etc. in case of theft/ damage of any equipment/items, the PARTY shall immediately replace the same within a maximum period of two days.

The PARTY shall provide Sign Board(s) as per design approved by EPI and/ or Client. In case the above facilities are not provided by the PARTY within 10 days of award of work or replacement is not provided within the specified period. EPI shall arrange from the same at the risk and cost of the PARTY and make the recoveries from the bills of the PARTY for the same. The decision of EPI shall be final and binding on the PARTY in this regard.

8.0 SECURITY & SAFETY

8.1 The site is located near Indo- Bangladesh Border (IBB) wherein the movement of personnel is limited and regulated by Security agencies. The contractor has to work as per the permission given by these Security agencies from time to time.
time and contractor must check before quoting for this job, the working hours, restriction in working and safety of their manpower, plant & equipment. The contractor shall mobilize and organize his resources accordingly to complete the work within stipulated time. The contractor shall have no claim no MHA/ EPI or any other agency/ department for any loss of man hours/ machinery due to these restrictions/ regulations.

8.2 A general Security cover shall be provided by BSF/ State Police and payment of Security charges, if any demanded by BSF/ Sate Police authorities shall be borne by MHA/ EPI. However, the contractor shall make his own arrangements for Security and safety of his manpower, plant & equipment, materials etc. nothing extra shall be admissible on account of this and no compensation shall be paid by MHA/ EPI in case the contractor’s personnel suffer body injury, loss of life or any damages caused to the plant and machinery of the contractor.

9.0 LAND ACQUISITION

9.1 The contractor should note that the Border out Posts falls in agriculture land area/ forest area. The contractor shall be responsible for obtaining necessary approvals for acquisition of land and clearance from Department of Forest/ State Government/ Local Authority for carrying out construction of BOP’s & related work.

10.0 DEFECTS LIABILITY PERIOD

10.1 Further to Clause No. 74.0 of General Conditions of Contract, contractor shall be responsible for rectification of defects during defect liability period of 12 months after submission of Project Completion report.

In case Ministry of Home Affairs appoints an independent and impartial Agency to be called as Third Party Inspection Agency, the contractor shall provide all assistance to the Third Party Inspection Agency to carry out the functions assigned to them & quality at any point is not found as per specification, the contractor will get it rectified at its own cost.

11.0 COMPENSATION FOR DELAY

11.1 The contractor shall ensure adequate progress during the execution of work according to the Bar- Chart/ Work Schedule. The contractor shall also maintain monthly progress strictly in accordance with Bar- Chart/ detailed work schedule that will be worked out and mutually agreed upon. If the
contractor fails to maintain the above progress or fails to complete the work and clear the site on or before the contract or extended date of completion, he shall without prejudice to any other right or remedy of EPI on account of such breach, pay compensation at the rate of 2.0% (Two Percent) of the balance value of work for each month of delay subject to a maximum of 10.0% (Ten Percent) of the balance value of the work.

In addition to above, the Contractor shall also compensate EPI to the tune of Rs. 50,000/- (Rupees Fifty Thousand only) per month towards extra expenditure on establishment of EPI for extended period of the job, if the delay is due to reasons solely attributable to the Contractor.

After evaluation of the rates/ price analysis, EPI may require that amount of performance guarantee be increased at the expense of the contractor to a level sufficient to project Owner/ EPI against financial loss in the event of default by the contractor.

12.0 FINAL BILL

The final bill will be submitted by the contractor within 90 days from the date of acceptance of completion of work accompanied by the following documents:-

a) Completion of work issued by the Engineer-in-charge specifying the handing over of the work including list of inventories (Fitting & Fixtures).

b) Computerized stage wise payment schedule.

c) No claim certificate by the contractor.

d) No claim certificate from the sub-agencies/ vendors, if any engaged by the contractor.

e) ‘As built’ drawing.

f) Measurements Books.

g) Drawings for layout of underground cables and details showing location of sluice valves, electric cable joints etc.

h) All operation and maintenance manuals.

i) All statutory approvals from various State/ Central Govt. / Local Bodies/ BSF, if required for completion & handing over of the work included in scope of contractor.

j) Manufacture’s guarantee of various machines/ equipments installed as part of work.

13.0 The following shall stand added to clause no.43 of GCC

If during the course of execution of work, EPI/ MHA/ BSF fixes priority of execution of work/ fixes priority of execution of specific block/building, the contractor has to
deploy resources and the work accordingly & nothing extra shall be payable to the contractor on this account. The work fronts of Border Out Posts may be released in progressive manner in phases. Nothing extra shall be payable to the contractor on account of carrying out the work in phases & sequences decided by Engineer-in-charge.

14.0 MODIFICATIONS OF CLAUSE NO. 76.0 OF GENERAL CONDITIONS OF CONTRACT (GCC)

14.1 CLAUSE NO. 76.1 OF GCC: DELETED
14.2 CLAUSE NO. 76.2: ARBITRATION BETWEEN CENTRAL PUBLIC SECTOR ENTERPRISES INTER SE/ GOVERNMENT OF INDIA DEPARTMENTS/ MINISTRIES.

i) In the event of any dispute or difference relating to the interpretation and application of the provisions of the contract, such dispute or difference shall be referred by either party to the arbitration as per the instructions (Office Memorandum/ Circulars) issued by Govt. of India from time to time with regard to arbitration between one Government Department and another, one Government Department and a Public Sector Enterprise and Public Sectors Enterprise inter se.

ii) Subject to any amendment that may be carried out by the Government of India from time to time, the procedure to be followed in the arbitration shall be as is contained in D.O No. DEP/4/(10/2001)-PMA-GL-1 dated 22.01.2004 of Department of Public Enterprises, Ministry of Heavy Industries and Public Enterprises, Government of India or any modification issued in this regard.

15.0 CLAUSE NO. 76.3 JURISDICTION

The Courts Guwahati/Delhi along will have jurisdiction to deal with matters arising from the Contract, to the exclusion of all other courts.

16.0 No extra or additional amount over and above the total quoted price will be admissible on any account whatsoever in any respect or aspect or else otherwise. Total price quoted will remain firm and fixed and free from any kind of escalation and without any kind of extra or additional amount on any account whatsoever in any respect or aspect or else otherwise during the entire tenure of the contractor and till completion and discharge of all the obligations as per the ambit of the contract in all respect and means.
17.0 TEMPORARY WORKS
Further to Clause no. 82.00 for “Approval of temporary/ Enabling works” of General Condition of Contract, as far as possible the labour hutments, bulk storage facility and vehicle parking shall preferably be located near the existing Border Out Post of Border Security Force. The area near BOP’s location shall be leveled and developed, supply of water and electricity, construction of approach road to these camps shall be arranged by the contractor at his own cost. In case the land in the vicinity of BOP is not of Govt., the contractor may have to hire the land from the owner of the land. The rent/ lease amount shall be borne by contractor.

18.0 During Construction

The Bidder shall employ following minimum Manpower during execution of the project.

I) Project Manager with degree in corresponding discipline of engineering with 10 years experience – 01 nos.
II) Graduate Engineer with 05 years experience –02 nos.
III) Diploma Engineer with 05 years experience – 08 nos.

In case the contractor fails to employ the technical staff as aforesaid during construction period, EPI shall deploy the same & recover the following amounts from Contractors’ Bill in the case of each person.

i) Graduate Engineer with 05 years experience – Rs. 60,000/- p.m.
ii) Diploma Engineer with 05 years experience – Rs. 40,000/- pm.
TECHNICAL SPECIFICATIONS

1. The work shall be executed as per the description of item given in the ‘Bill Of Quantity’, Specifications, Drawing, General Conditions of Contract, Additional Conditions of Contract, CPWD Specifications, New Delhi, for civil works (update with correction slips issued up to last date of submission of tender) and latest CPWD specification, New Delhi, for electrical works (update with correction slips issued up to last date of submission of tender), instructions & orders to the contractor from time to time during pendency of work.

2. For times not covered under latest CPWD specification, for (civil works)/ latest CPWD specifications for Electrical works and in particular specification or nomenclature of the individual item as above, the work shall be done as per latest relevant BIS codes of practice.

3. In case of non availability of any specification in the above paras or any overlapping provisions, non- clarity on any issue, applicability of particular provision out if above, shall be decided by Engineer-in-charge whose decision shall be final & binding on the contractor.

4. THERMO MECHANICALLY TREATED BAR

Thermo mechanically treated bars conforming to IS: 1786 from preferred manufacturers from enclosed list of makes or approved by MHA/EPI shall be used. The other provision of clause 45.2 of GCC remains unchanged.

5. CEMENT

The Ordinary Portland Cement (OPC) as per IS: 8112 shall be used on the works. The other provision of clause 45.1 of GCC remains unchanged.

6. CONCRETING

Concreting shall be machine mixed with equipment approved by the Engineer-in-charge.

7. BRICK WORK

The brick should be minimum class designation 75 conforming to IS: 1077: 1992.

The brickwork for all external walls should be done from outside. The contractor shall be responsible for providing and maintaining sufficiently strong scaffolding so as to withstand all loads likely to come upon it. Due care shall be taken by the contractor to ensure the execution
of brick masonry walls in plumbs from outside. The contractor shall arrange sufficient quantity of scaffolding for this purpose so as to complete the project within stipulated time.

8.  GENERAL

8.1 The Materials/ Products used on the works shall be one of the preferred Make/ Brands/ Manufactures given in the tender documents/ approval by EPI/MHA.

8.2 Flooring shall be of Kota stone as per drawing/ design & specification. The pattern shown in the drawing, if any can be modified as per site requirement by Engineer-in-charge and nothing extra shall be payable over and above the rate quoted.

8.3 Mosquito proof shutters shall be provided on all external openings (doors & windows etc.) of the Barrack, Kitchen block of BOP.

8.4 Due care shall be given to HFL of the area while fixing plinth level of structures.

8.5 Built in cupboards shall be provided in the Barrack.

8.6 Glaze tile dados in Kitchen & Toilets.

8.7 Movable fixtures to be provided in the barracks.

8.8 Plumbing & sanitary work to be executed by licensed/ expert plumber and the plumbing scheme/ drawing to be got approved from Engineer-in-charge.

8.9 The contractor shall be responsible for all protection of sanitary, water supply, electrical fittings & fixture against pilferage, breakage during period of installation until the completion of work and handed over to BSF.

8.10 The electrical works shall be executed only through licensed electrician and the agency shall have to submit the valid license of electricians before starting the work.

8.11 It will be the sole responsibility of contractor to obtain statutory approvals/ compliance required, if any, for construction/ implementation of the project including Forest clearance and completion clearance from the all relevant statutory bodies for plumbing, sewerage, sanitary and PHE work, fire, department for fire protection, fire fighting, electrical works, pollution control authorities etc. and for all other services as included in the scope of contract etc. from the concerned department as required within the stipulated time frame, only statutory changes shall be borne by the owner.
8.12 The contractor shall have to execute the work in pace and in such a way to facilitate other agency, if any, engaged simultaneously for execution of other works required for completion of the Border Out Posts.

8.13 Unless otherwise specified in the schedule of quantities, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, leads, depths & nothing extra shall be payable on this account.

8.14 On completion of work, the tenderer shall submit four prints of “As built” drawings to Engineer-in-charge at no extra payment.

**LIST OF PREFERED MAKES FOR CIVIL WORKS**

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>List of Makes</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Cement (Ordinary Portland/ Portland Pozzolana)</td>
<td>ACC/AMBUJA/ULTRA TECH/ LAFARGE/STAR/TOP CEM/CROWN/DALMIA/VALLEY STRONG</td>
</tr>
<tr>
<td>2.</td>
<td>TMT/ Tor Steel</td>
<td>SAIL/TISCO/ SHYAM STEEL/MEGA TURBO/JINDAL</td>
</tr>
<tr>
<td>3.</td>
<td>Structural Steel</td>
<td>SAIL/TISCO/RINL/SHYAM STEEL/JINDAL</td>
</tr>
<tr>
<td>4.</td>
<td>Precast CC Tiles</td>
<td>HINDUSTAN TILES/ NIMCO PREFAB/ NITCO KONKRETE</td>
</tr>
<tr>
<td>5.</td>
<td>Ceramic Tiles</td>
<td>NITCO/ORIENT/SOMANY/KAJARIA/ANGEL/JOHNSON/GLORY</td>
</tr>
<tr>
<td>6.</td>
<td>RCC Pipes</td>
<td>AKSHAY/KK/HINDUSTAN/PRAGATI</td>
</tr>
<tr>
<td>7.</td>
<td>Manhole Covers (SFRC)</td>
<td>KK/HINDUSTAN</td>
</tr>
<tr>
<td>8.</td>
<td>Kerb Stone (Precast CC)</td>
<td>NIMCO PREFAB/SUBHASH FERRO CONCRETE/HINDUSTAN TILES</td>
</tr>
<tr>
<td>9.</td>
<td>Chain link Wire mesh</td>
<td>MITTAL/SHAKTI-WELD MESH</td>
</tr>
<tr>
<td>10.</td>
<td>PVC Pipes/ Fittings</td>
<td>SUPREME/PRAKASH/ORI PLAST/FINOLEX</td>
</tr>
<tr>
<td>11.</td>
<td>Float Glass and Mirror</td>
<td>MODIGUARD/ASAHI/SAINT GOBAIN/GUARDIAN</td>
</tr>
<tr>
<td>12.</td>
<td>Water- proofing Compound</td>
<td>CICO/ CHEMISTIK/ FOSROC/ MBT/ DEGUSSA</td>
</tr>
<tr>
<td>13.</td>
<td>Cement/ Concrete Additives</td>
<td>CICO/ CHEMISTIK/ FOSROC/ MBT/ DEGUSSA/SIKA</td>
</tr>
<tr>
<td>14.</td>
<td>Distemper- Dry/ Oil Board</td>
<td>ICI/ASIAN,BERGER</td>
</tr>
<tr>
<td>15.</td>
<td>Aluminium Sections for Doors/ Windows</td>
<td>HINDALCO/JINDAL</td>
</tr>
<tr>
<td>16.</td>
<td>Floor Hardner</td>
<td>SNOWCEM/ CHEMISTIK/ FOSROC/ SIKA</td>
</tr>
<tr>
<td>17.</td>
<td>Cement Paint</td>
<td>SNOWCEM/ICI/NEROLAC/BERGER/ASIAN</td>
</tr>
<tr>
<td>18.</td>
<td>Primer for steel</td>
<td>ICI/ASIAN/BERGER/NEROLAC</td>
</tr>
<tr>
<td>SL. NO.</td>
<td>ITEMS</td>
<td>PREFERRED MAKES</td>
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<tr>
<td>--------</td>
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</tr>
<tr>
<td>A.</td>
<td>CABLES &amp; RELATED ITEMS:-</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>A) 33KV XLPE POWER CABLES</td>
<td>GLOSTER/ UNIVERSAL/ CCI/ RPG (ASIAN)/ HAVELLS/SKYTONE</td>
</tr>
<tr>
<td></td>
<td>B) 1.1KV LT POWER CABLES</td>
<td>CCI/ GLOSTER/ NITCO/ UNIVERSAL/ RPG (ASIAN)/ HAVELLS/ INDUSTRIAL CABLES/ TORRENT/ POLYCAB/ SKYTONE</td>
</tr>
<tr>
<td></td>
<td>C) 1.1KV LT CONTROL CABLES</td>
<td>ASIAN CABLE/ FINOLEX/ UNIVERSAL/ GLOSTAR/ CCI/ HAVELLS/ NITCO/ POLYCAB/ TORRENT/ SKYTONE</td>
</tr>
<tr>
<td>2.</td>
<td>A) CABLES GLANDS</td>
<td>COMET/ DOWELL/ JAINSON</td>
</tr>
<tr>
<td></td>
<td>B) LUNGS &amp; THIMBLES</td>
<td>DOWELLS/ JAINSON</td>
</tr>
<tr>
<td>3.</td>
<td>PRE FARICATED CABLE TRAY</td>
<td>SLOTCO/ PILCO/ STEELWAYS/ INDIANA/ PATNY</td>
</tr>
<tr>
<td>B.</td>
<td>INTERNAL WIRING, EXTERNAL LIGHTING RELATED ITEMS:-</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>MCB, MCB DB AND ISOLATORS</td>
<td>L&amp;T (HAGAR)/ SIEMENS/ MDS (LEGRAND)/ INDO ASIAN/ SCHNEIDER STANDARD/ HAVELLS/ GE</td>
</tr>
<tr>
<td>5.</td>
<td>RCCB</td>
<td>L&amp;T (HAGAR)/ SIEMENS/ MDS (LEGRAND)/ INDO ASIAN/ SCHNEIDER STANDARD/ HAVELLS/ GE</td>
</tr>
<tr>
<td>6.</td>
<td>MS CONDUIT</td>
<td>ISI MARKED</td>
</tr>
<tr>
<td>7.</td>
<td>INDUSTRIAL SOCKET IN SHEET</td>
<td>MDS (LEGRAND)/ INDO ASIAN/</td>
</tr>
<tr>
<td></td>
<td>STEEL INCLOSURE WITH MCB</td>
<td>CROMPTON/ BCH/ SCHNEIDER/ HAVELLS</td>
</tr>
<tr>
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<td>------------------------------------</td>
</tr>
<tr>
<td>8.</td>
<td>PVC INSULATED COPPER WIRE (ISI MARMED)</td>
<td>SKYLINE/ GRANDLAY/ FINOLEX/ HAVELLS/ POLYcab</td>
</tr>
<tr>
<td>9.</td>
<td>CO-AXIAL CABLES</td>
<td>SKYTONE/ DELTON/ LAPP/ FINOLEX</td>
</tr>
<tr>
<td>10.</td>
<td>SWITCH, TELEPHONE SOCKET &amp; BOXES (MODULAR TYPE)</td>
<td>MK/ SSKAY/ HAVELLS (CRABTREE)/ ANCHOR/ NORTH WEST/ CLIPSAL/ INDO ASAIN/ MDS/ LEGRAND (MOASIC)</td>
</tr>
<tr>
<td>11.</td>
<td>PIANO TYPE SWITCHES/ SOCKETS (ISI MARKED)</td>
<td>MK/ SSKAY/ HAVELLS/ ANCHOR/ NORTH WEST/ CLIPSAL</td>
</tr>
<tr>
<td>12.</td>
<td>LIGHTING FIXTURES</td>
<td>PHILIPS/ GE/ BAJAJ/ WIPRO/ CROMPTON/ KESELEC</td>
</tr>
<tr>
<td>13.</td>
<td>CEILING FANS</td>
<td>ORIENT/ GEC/ POLAR/ USHA/ CROMPTON/ BAJAJ/ KHAITAN/ ALMONARD</td>
</tr>
<tr>
<td>15.</td>
<td>POLES- 9M, 7M &amp; 5M, 4.5M, 4M</td>
<td>NEZONE or REPUTED (AS PER IS AND SUBJECT TO APPROVAL FROM ENGINEER IN CHARGE)</td>
</tr>
<tr>
<td>16.</td>
<td>EARTHING PIPES</td>
<td>JINDAL/ TATA/ SAIL/ NEZONE</td>
</tr>
<tr>
<td>C.</td>
<td>COMMUNICATION SYSTEM:</td>
<td></td>
</tr>
<tr>
<td>17.</td>
<td>TELEPHONE CABLES</td>
<td>DELTON/ HAVELLS/ LAPP/ FINOLEX/ NICCO</td>
</tr>
<tr>
<td>18.</td>
<td>FIBRE OPTIC CABLES</td>
<td>FINOLEX/ STERLITE/ CLIPSAL/ MOLEX</td>
</tr>
<tr>
<td>19.</td>
<td>HDPE PIPE</td>
<td>DURALINE/ DUTRON</td>
</tr>
<tr>
<td>D.</td>
<td>LT PANELS, SWITCHGEARS AND RELATED ITEMS:</td>
<td></td>
</tr>
<tr>
<td>20.</td>
<td>LT PANELS/ FEEDER PILLAR</td>
<td>TRICOLITE/ JAKSON ENGINEERS/ L&amp;T/ SCHNEIDER/ GE POWER/ ABB/ C&amp;S/ SUDHIR GENSETS/ SIEMENS</td>
</tr>
<tr>
<td>21.</td>
<td>AIR CIRCUIT BREAKER</td>
<td>L&amp;T/ GE POWER/ SIEMENS/ ABB/ SCHNEIDER/ C&amp;S</td>
</tr>
<tr>
<td>22.</td>
<td>MOULDED CASE CRICUIT BREAKERS</td>
<td>L&amp;T/ GE POWER/ SIEMENS/ ABB/ SCHNEIDER/ C&amp;S/ LEGRAND</td>
</tr>
<tr>
<td>23.</td>
<td>FUSE DISCONNECTOR SWITCH/ SWITCH FUSE UNITS</td>
<td>L&amp;T/ GE POWER/ SIEMENS/ ABB/ SCHNEIDER/ C&amp;S/ HPL</td>
</tr>
<tr>
<td>24.</td>
<td>HRC FUSES</td>
<td>L&amp;T/ GE POWER/ SIEMENS/ ABB/ SCHNEIDER/ C&amp;S</td>
</tr>
<tr>
<td>25.</td>
<td>AMMETER, VOLTOMETER</td>
<td>AE/ MECO/ UNIVERSAL/ RISHAB/ IMP</td>
</tr>
<tr>
<td>26.</td>
<td>SELECTOR SWITCH, PUSH BUTTON SWITCH/ EMERGENCY SWITCH</td>
<td>KAY CEE/ CONTROL &amp; SWITCH GEARS/ L&amp;T/ GE POWER CONTROL/ SIEMENS/ BCh</td>
</tr>
<tr>
<td>27.</td>
<td>LED INDICATION LAMPS</td>
<td>AE/ C&amp;S/ EASUN/ KAY CEE/ SIEMENS/ VAISHNOV/ L&amp;T</td>
</tr>
<tr>
<td>28.</td>
<td>CT’S</td>
<td>AE/ KAPPA/ UNIVERSAL/ KAYCEE/ IMP/ C&amp;S/ L&amp;T/ MECO</td>
</tr>
<tr>
<td>29.</td>
<td>STARTERS</td>
<td>SIEMENS/ L&amp;T/ CUTLER HAMMER/ GE POWER/ ABB/ C&amp;S/ SCHNEIDER</td>
</tr>
<tr>
<td>30.</td>
<td>SINGLE PHASING PREVENTOR/ OVER LOAD PROTECTION UNIT</td>
<td>L&amp;T/ GE POWER/ SIEMENS/ MINILEC/ ABB/ SCHNEIDER</td>
</tr>
<tr>
<td>31.</td>
<td>RELAYS</td>
<td>L&amp;T/ AREVA/ ABB/ SIEMENS</td>
</tr>
<tr>
<td>32.</td>
<td>CHANGE OVER SWITCH</td>
<td>HH ELCON/ C&amp;S/ INDO AISAN/ HPL/ C&amp;S</td>
</tr>
<tr>
<td>33.</td>
<td>CONTRACTORS</td>
<td>L&amp;T/ GE POWER/ BCH/ CON CORD/ GE/ C&amp;S</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Brands</td>
</tr>
<tr>
<td>---</td>
<td>---------------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>34.</td>
<td>KWH, PF, FREQUENCY METER</td>
<td>JAIPUR METER/ AE/ HAVELLS/ L&amp;T/ AREVA/ SECURE/ GENUS</td>
</tr>
<tr>
<td>35.</td>
<td>PUSH BUTTONS</td>
<td>L&amp;T/ SIEMENS / BCH/ CON CORD/ GE/ C&amp;S</td>
</tr>
<tr>
<td>36.</td>
<td>TIMERS</td>
<td>L&amp;T/ BCH/ MDS/ INDO ASIAN/ SCHNEIDER/ SIEMENS/ ADVANI ORLIKON/ GE POWER CONTROL</td>
</tr>
<tr>
<td>37.</td>
<td>DIGITAL METERS</td>
<td>ENERCON/ NEPTUNE/ AE/ L&amp;T</td>
</tr>
<tr>
<td>38.</td>
<td>INTELLIGENT MULTIFUNCTION DIGITAL METER</td>
<td>ENERCON/ NEPTUNE/ AE/ L&amp;T</td>
</tr>
<tr>
<td>39.</td>
<td>PROTECTION &amp; OTHER RELAYS</td>
<td>AREVA/ L&amp;T/ ABB/ SIEMENS</td>
</tr>
</tbody>
</table>

In the event, any item is to be procured other than the preferred make specified above, proposal seeking approval for the same from the Competent Authority is to be made in advance and procurement action to be initiated only after receipt of formal approval for the same.
8 MAHILA BARRACK (COMPANY LVL.)
108.95 sqm
12 MEN BARRACK (PLATOON LVL.)
132.3 sqm
16 MEN BARRACK (COMPANY / PLATOON LVL.)

167.85 sqm
GARAGE, ELEC. SUBSTATION & GEN. SHED

82.12 sqm
MAGAZINE, KOTE  WIRELESS, CQMH

87.62 sqm
CENTRAL MORCHA
15.7 sqm

CORNER BUNKER
18.7 sqm

2 MEN BUNKER
12 sqm
PROPOSED CONSTRUCTION OF
O. P. TOWER
PROJECT:
ARCHITECTS:
EXECUTING AGENCY:
CLIENT:
MINISTRY OF HOME AFFAIRS,
NORTH BLOCK, NEW DELHI

NORTH BLOCK, NEW DELHI

DATE: 27.05.2015
DN
DN
COY CMDR
BATH
TOILET
DWG NO. 01
APPVD. BY
FOR  B.S.F.  AT MIZORAM
JM & DD
CHKD. BY
BLOCK FLOOR PLANS
LEVEL B.O.P.
PRPD. BY
JM & DD
INCLUDING STAIRCASE)
COMPANY LEVEL & PLATOON
SCALE
TITLE
18.2 sqm
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PRPD. BY
JM & DD
INCLUDING STAIRCASE)
COMPANY LEVEL & PLATOON
SCALE
O. P. TOWER

18.2 sqm
(FLOOR AREA ON 2ND FLOOR INCLUDING STAIRCASE)
SENTRY POST

7.15 sqm

(OPTION A)

SENTRY POST

13.58 sqm

(OPTION B)
SO'S ROOM (PLATOON LVL.)

89 sqm
TEMPELE

3.0 sqm