<table>
<thead>
<tr>
<th>Sr.No</th>
<th>BOQ ITEM REF NO</th>
<th>BIDDERS QUARRY</th>
<th>BHEL-REPLY AS BELOW SHALL BE AMNEDMENT TO THIS TENDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Item no. 502--</td>
<td>Kidnly mention thickness of polymerised mortar against this item. Whether over &amp; above 25mm th. Cement mortar plaster will be done as per item no. 503 pl. clarify.</td>
<td>Yes, Polymerised Mortar shall be applied over the 25 mm thick cement mortar underbed plaster payable under item No. 503, However Polymerised mortar is a part of PU based water proofing and included in Item No. 502 and shall be applied as per the manufacturer's recommendation.</td>
</tr>
<tr>
<td>2</td>
<td>Item no. 1408--</td>
<td>pl. mention quantity of flooring &amp; Dado seperately as thickness of tiles are different for the same.</td>
<td>It is changed in Revised BOQ, being issued to all Bidders.</td>
</tr>
<tr>
<td>3</td>
<td>Item no. 2301---</td>
<td>DFT mentioned for primer painting will be 35 micron (per coat) instead of 100 micron against this item</td>
<td>DFT mentioned for primer painting is 100 micron only. (to be applied in two coat one at fabrication shop and other after aErection). Please refer TCE Document, Vol - III, P/985 of 1036 for further clarification.</td>
</tr>
<tr>
<td>4</td>
<td>Item no. 2416--</td>
<td>How many TG foundation will be in our scope? The site mentioned against this item will be Pipavav instead of Hazira &amp; number of TG has been mentioned as 1NO. Pl. clarify.</td>
<td>It is a typographical error. The Project is 2 x 350 MW CCP. Hence No. of TG Foundation is Two only. Item No. 2416 is modified in Revised BOQ.</td>
</tr>
<tr>
<td>5</td>
<td>Tender Specification No. are different in your covering letter and BOQ. Please Rectify.</td>
<td>NOW CORRECTED IN REVISED PRICE BID</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Item no. 1427---</td>
<td>mention micron thickness for epoxy coating.</td>
<td>It will be applied in two coats of 150 Micron thickness each.</td>
</tr>
<tr>
<td>7</td>
<td>Item no. 601/602/603---</td>
<td>mention minimum depth of foundation against these items</td>
<td>Measurement is in SQM, hence thickness of foundation has no criteria.</td>
</tr>
<tr>
<td>8</td>
<td>Item no. 2 &amp; 3(part B Grading &amp; Levelling))---</td>
<td>mention the max. depth of excavation against these items.</td>
<td>Indicative depth of excavation for Levelling and Grading purpose shall be around 2.5m, however this is only for idea for bidders which may vary during execution.</td>
</tr>
<tr>
<td>9</td>
<td>Vol-I, Prt-I, Section-2, Cl-2.14 Page-15, Arbitration shall be in accordance with Indian Arbitration Act 1956</td>
<td>Dispute shall be resolved as per the provision of Indian Arbitration &amp; conciliation Act 1996</td>
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<tr>
<td>10</td>
<td>Pl. provide us soil investigation report for details of soil strata and depth of water table.</td>
<td>Water Table is approximately 1.5 M from the ground level. Soil Investigation report is not ready.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Item no. 118a &amp; 118b backfilling with selected excavated soil within lead of 1KM</td>
<td>Item no. 118a &amp; 118b are same. Item No 118a describes backfilling with selected excavated soil directly from excavation area within a</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Item no. 902 &amp; 903 Steel windows</td>
<td>Quoted rate shall be inclusive of glazing and painting. Respective items are modified.</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Item no. 1002 &amp; 1003 Brick work</td>
<td>No. 6mm dia. MS Bars shall be a part of Item No. 1002 &amp; 1003 and quoted rate shall be inclusive of same.</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Item no. 1304a 2 or more coat of exterior granular finish (Vineratex)</td>
<td>External finish shall be Granular finish (Vineratex) of 2mm thick over plain-faced cement plaster as per TCE Specification, Vol - III, P/925 of 1036</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Item no. 1427--- Epoxy Coating on RCC floor</td>
<td>It will be applied in two coats of 150 Micron thickness each. Respective item is modified in Revised BOQ.</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Item no. 1803--- 25mm th. Vibration damping resistoflex.</td>
<td>May be obtained from internet.</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Item no.3(part B Grading &amp; Levelling)) Excavation in any type of rock with controlled blasting, chiselling or any suitable method.</td>
<td>As the quantum of work is more pl. bifurcate the item as per mode of excavation.</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Item no.6(part B Grading &amp; Levelling)) filling with selected excavated earth.</td>
<td>Max lead will be around 1 Km. Relevant item is modified.</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Detailed drawing</td>
<td>Drawings will be issued at the time of execution.</td>
<td></td>
</tr>
<tr>
<td>Page</td>
<td>Request</td>
<td>Details</td>
<td></td>
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<tr>
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<td>---------</td>
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<td></td>
</tr>
<tr>
<td>20</td>
<td>Request</td>
<td>BHEL to provide reinforcement steel with fusion bonded epoxy coating, to speed-up the project work, as construction and design drawings showing details shall be furnished by BHEL in a gradually phased manner. BHEL will provide HCR – M (High corrosion resistant marine) TMT bars for reinforcement. Respective item is modified in revised BOQ.</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Request</td>
<td>BHEL to exclude topographical survey from our scope. It should be done by client/customers. Topographical survey including fixing of reference pillars (co-ordinates) and temporary bench marks is already done by BHEL. Contractor has to take the reference of this reference points for establishing centre lines of individual equipment foundation and structures and shifting of TBM at different locations. Contractors are also required to take joint survey of the plot area before leveling and grading for computation of excavation and backfilling. The above activities are part of job and has to be done by contractor within their quoted rate.</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Request</td>
<td>Furnish the list of approved sub-vendors, since the list of approved sub-vendors of BHEL/BESCL/consultants is not furnished in GCC/SCC and technical specification. BHEL/Customer do not have list of pre-qualified vendors. Contractor has to take approval of samples at site during execution.</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Request</td>
<td>BHEL to elaborate the items to be executed to enable us to quote our competitive rates. This is an item rate contract and certain items not appearing in approved rate schedule but necessarily required for completion of job shall be treated as an extra item. Hence no further elaboration is required.</td>
<td></td>
</tr>
<tr>
<td>PLEASE REFER PAGE NO. 63, SECTION-11 (SC), CLAUSE NO. 11.6.3,</td>
<td>Right to purchase from elsewhere will have to be notified to agency well in advance. Due to the fact that in case the detail drawings gets revised due to various considerations, the time period to be reviewed and needful time extension to be given for the work under contract to be executed.</td>
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<tr>
<td>PLEASE REFER PAGE NO. 68, SECTION-12 (SCC), CLAUSE NO. 12.04.</td>
<td>For smooth execution of work we request BHEL that payment of R/A bills should be released as follows: 85% of billed amount within 7 days after submission of bills, 15% after certification of bills.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLEASE REFER PAGE NO. 38 OF 43 OF PRICE BID, PART-II (VOLUME-III), ST NO. 2313, 2314.</td>
<td>Kindly provide technical specification, like design criteria, material of construction, etc., for stop log gates, stationery screens and their embedded parts.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLEASE REFER PAGE NO. 66 &amp; 67, SECTION-11 (SC), CLAUSE NO. 11.11 &amp; 11.12(I) RECOVERY OF ADVANCE FROM THE FIRST APPLICABLE RUNNING BILL ONWARDS.</td>
<td>The recoverable advance of 5% should be deducted after work progress of 10% is achieved and paid, and not from first R/A bill as mentioned. We request BHEL for an advance of 5% of contract value to be paid against mobilization of plant &amp; machinery at the project site.</td>
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</table>

Execution of work at risk and cost of contractor arises only in case of failure of contractor. Time extension shall be granted without levying LD for the delay not attributable to the contractor.

Design criteria shall be provided in the approved drawing to be supplied at site. However, item description is self-explanatory for quoting the rate.

Not acceptable.
<table>
<thead>
<tr>
<th>Page</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>27</td>
<td>AS PER PAGE NO. 34 &amp; 35, CL. NO. 5.8.0 OF SECTION-5 (SC), THE CONTRACTOR SHALL SATISFY HIMSELF OF THE QUALITY AND QUANTITY OF THE MATERIALS AT THE TIME OF TAKING DELIVERY FROM BHEL STORES / STORAGE YARD AND BIDDER TO ENSURE THAT NO LAMINATION MATERIALS ARE TAKEN OVER BY THEM FROM BHEL STORES.</td>
</tr>
<tr>
<td>28</td>
<td>CL. NO. 5.11.1 PAGE NO. 35 &amp; 36. – WASTAGE OF STEEL – ALLOWABLE WASTAGE FURTHER CLASSIFIED AS CUT PIECES / SERVICEABLE SCRAP PIECES OF ROLLED SECTIONS LENGTH 3 MTRS. AND ABOVE. AND M.S. PLATES 1.0 M² AND ABOVE WITH MINIMUM WIDTH 200 MM.</td>
</tr>
<tr>
<td>29</td>
<td>CL. NO. 5.9.0 PAGE NO. 37, SECTION-5 (SC) – RECONCILIATION OF BHEL ISSUED MATERIALS. THE CONTRACTOR SHALL SUBMIT RECONCILIATION STATEMENT OF STEEL ISSUED TO THEM WITH EACH RA BILL.</td>
</tr>
</tbody>
</table>

### Clarification Amendments

**TS:BHE/PW/PUR/PIPVG-CVL/609**

**SUB: CLARIFICATION AMENDMENTS**

As BHEL is procuring all materials, BHEL to ensure and confirm all steel will be as per IS-2062. Also, steel with any defect like lamination, etc. shall be returned to BHEL stores. The same should be deducted from issued steels and shall not be to contractor’s scope.

Accepted

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As per page no. 34 & 35, cl. no. 5.8.0 of section-5 (SC), the contractor shall satisfy himself of the quality and quantity of the materials at the time of taking delivery from BHEL stores / storage yard and bidder to ensure that no lamination materials are taken over by them from BHEL stores.

Please note that cut pieces / serviceable scrap as defined in bid document should be treated as good steel and not be considered as wastage.

Not acceptable. Allowable wastage of 5% shall consist of serviceable scrap also.

Monthly reconciliation of steel is not practically possible at site as initial cut balances from columns and plate girders, etc. are subsequently used in fabrication. Hence as a standard practice, reconciliation is always done prior to final bill.

Efforts shall be made for reconciliation of steel on a monthly basis, however in case bidder finds it difficult to make reconciliation of steel on monthly basis then it has to be made during done in a period of six months.
CL. NO. 5.11.1 PAGE NO. 35 & 36. – WASTAGE OF STEEL – ALLOWABLE WASTAGE FURTHER CLASSIFIED AS CUT PIECES / SERVICEABLE SCRAP PIECES OF ROLLED SECTIONS LENGTH 3 MTRS. AND ABOVE. AND M.S. PLATES 1.0 M² AND ABOVE WITH MINIMUM WIDTH 200 MM.

PLEASE NOTE THAT CUT PIECES / SERVICEABLE SCRAP AS DEFINED IN BID DOCUMENT SHOULD BE TREATED AS GOOD STEEL AND NOT BE CONSIDERED AS WASTAGE.

Not acceptable. Allowable wastage of 5% shall consist of serviceable scrap also.

(1) SECTION-5 (SC), CL. NO. 5.5.0, PAGE NO. 31, CONSTRUCTION POWER (THREE PHASE, 415V / 440V, 300-400 AMPS 4-WIRE) WILL BE PROVIDED AT ONE POINT NEAR THE SITE APPROXIMATELY 500 MTRS. FROM ERECTION SITE, FREE OF CHARGES.

CONSTRUCTION POWER LOAD MENTIONED IN THIS CLAUSE IS NOT SUFFICIENT FOR THIS TYPE OF WORK. FOR THE SMOOTH EXECUTION OF WORK, WE WOULD REQUEST BHEL TO PROVIDE POWER AT 2 POINTS AT FABRICATION YARD (1000 AMPS PER POINT) AND 2 POINTS, ONE AT EACH UNIT AT ERECTION (500 AMPS PER POINT) SITE.

BHEL HAS PLANNED TO INSTALL SUB-STATIONS - 01 NO. NEAR FAB. CUM-STORAGE YARD & 03 NOS. NEAR CONSTRUCTION SITES AT DIFFERENT LOCATIONS WITH ACDB CONSISTING OF BREAKERS /MCBs OF VARIOUS RATING. CONTRACTOR HAS TO TAKE FURTHER DISTRIBUTION FROM THESE POINTS INCLUDING CABALING ETC. AS PER DIRECTION OF BHEL.

AS PER PAGE NO. 75 – ANNEXURE-1 (A) :: INDICATIVE LIST OF T&P REQUIRED.

THE LIST FURNISHED IS VERY EXHAUSTIVE AND FOR EXECUTION OF STRUCTURAL WORKS OF LARGE COAL BASED POWER PLANTS (2X250 MW OR 500 MW). THIS IS A GAS BASED POWER PROJECT, EQUIPMENTS NEEDED FOR THE WORK UNDER THIS TENDER SCOPE SHALL BE DEPLOYED AS REQUIRED AT SITE, IN CONSULTATION WITH BHEL SITE.

T & P list IS given considering the project schedule of 24 months & quantum of job which justifies need of theses equipment.
<table>
<thead>
<tr>
<th>#</th>
<th>Reference</th>
<th>Clarification/Amendment</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>Please refer to Clause No. 12.1.6.2., Section-12 (SCC), Page No. 69 – Structural Work: Break-up for Erection Rate for Item No. 2301 (B)</td>
<td>Break-up of payment is given only for Erection [Item No. 2301(B)], Break-up of Fabrication [Item No. 2301(A)] and Painting [Item No. 2304] is not given by BHEL. The payment terms for Fabrication item 2301(A) under section-12 Cl no 12.1.6 is amended and shall be paid as below vide new cl no: 12.1.6.4 a) 80% on completion of fabrication b) 20% on sand blasting and one coat of primer. All other terms &amp; condition remain unchanged.</td>
</tr>
<tr>
<td>34</td>
<td>Please refer TCE Specification No. Part-D for Steel Structures, Volume-III, Page No. 978 of 1036, Sheet-2 of 15, Clause No. 3.3 - All chequered plates and gratings shall be galvanised.</td>
<td>As per price bid Part-II (Volume-III) gratings &amp; chequered plates (i.e. ST no. 2301 &amp; 2307) are to be painted. Items modified in revised BOQ</td>
</tr>
<tr>
<td>35</td>
<td>Please refer Page No. 52, Section-9 (SCC), Clause No. 9.2.4 - Environment Management</td>
<td>Please confirm whether statutory clearances regarding environment have been accorded for this project or not. Customer’s purview. Bidders has no role on this issue</td>
</tr>
<tr>
<td>36</td>
<td>Please refer Page No. 44, Section-7 (SCC), Clause No. 7.1.4 - No cranes of any size and capacity shall be provided by BHEL.</td>
<td>BHEL has been providing its cranes for erection of structures for all projects in Gujarat, viz. GSECL, Sikka Thermal 2X250 MW &amp; GSECL UKAI 1X500 MW. BHEL will not provide any crane for this job.</td>
</tr>
<tr>
<td></td>
<td>PLEASE REFER PAGE NO. 35 OF 43, PRICE BID PART-II (VOLUME-III) ST NO 2301</td>
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<tr>
<td>37</td>
<td>PLEASE CONFIRM MATERIALS FOR HAND RAIL PIPES WILL BE SUPPLIED BY BHEL ON FREE OF COST BASIS AT SITE. ALSO MEASUREMENT FOR FABRICATION, ERECTION OF HAND RAILS FOR PAYMENT PURPOSE SHOULD BE MADE ON RUNNING MTR. BASIS.</td>
<td>Pl. see revised BOQ</td>
</tr>
<tr>
<td>Clause No</td>
<td>Existing clause</td>
<td>Ammended clause</td>
</tr>
<tr>
<td>-----------</td>
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<td>-----------------</td>
</tr>
<tr>
<td><strong>1</strong></td>
<td>THE CONTRACTOR SHALL SUBMIT A RECONCILIATION STATEMENT OF STEEL ISSUED TO THEM WITH EACH RA BILL.</td>
<td>THE CONTRACTOR SHALL SUBMIT A RECONCILIATION STATEMENT OF STEEL ISSUED TO THEM PRIOR SUBMISSION OF FINAL BILL.</td>
</tr>
<tr>
<td>Refer Cl No : 5.9.0 of Section-5 of Tech Bid Page -37</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>2</strong></td>
<td>THE CONTRACTOR SHALL FURNISH THE L2/L3 CONSTRUCTION SCHEDULE AREA WISE BASED ON THE ABOVE MILESTONES WITHIN 30 DAYS OF ISSUE OF LOI. CONTRACTOR SHALL DRAW MONTHLY COMPLETION PROGRAMME ALONGWITH THE BHEL ENGINEER FOR VARIOUS ACTIVITIES. CONTRACTOR TO ARRANGE ALL THE INPUTS LIKE CEMENT AND ALL OTHER MATERIALS IN THEIR SCOPE FOR COMPLETION OF THE PROJECT UNDER THIS CONTRACT IN TOTALITY. PREPARATION OF DETAILED FABRICATION DRAWING (IF ANY) FOR ASSOCIATED STRUCTURAL WORKS BASEDON ENGG. DRAWING ISSUED FROM BHEL. ARRANGEMENT OF CONSTRUCTION WATER, AND CONSTRUCTION POWER ETC. SHALL ALSO BE ARRANGED BY CONTRACTOR IMMEDIATELY SO AS TO COMPLETE THE ENTIRE WORK IN 24 MONTHS PERIOD.</td>
<td>THE CONTRACTOR SHALL FURNISH THE L2/L3 CONSTRUCTION SCHEDULE AREA WISE BASED ON THE ABOVE MILESTONES WITHIN 30 DAYS OF ISSUE OF LOI. CONTRACTOR SHALL DRAW MONTHLY COMPLETION PROGRAMME ALONGWITH THE BHEL ENGINEER FOR VARIOUS ACTIVITIES. CONTRACTOR TO ARRANGE ALL THE INPUTS LIKE CEMENT AND ALL OTHER MATERIALS IN THEIR SCOPE FOR COMPLETION OF THE PROJECT UNDER THIS CONTRACT IN TOTALITY. PREPARATION OF DETAILED FABRICATION DRAWING (IF ANY) FOR ASSOCIATED STRUCTURAL WORKS BASEDON ENGG. DRAWING ISSUED FROM BHEL. FURTHER DISTRIBUTION OF CONSTRUCTION POWER AND WATER FROM BHEL POINT SHALL BE CARRIED OUT BY CONTRACTOR SO AS TO COMPLETE THE ENTIRE WORK IN 24 MONTHS PERIOD.</td>
</tr>
<tr>
<td>Refer Cl No : 11.2.1 of Section-11 of Tech Bid Page -62</td>
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</tbody>
</table>
| REFER TO CLAUSE NO. 12.1.6.2., SECTION-12 (SCC), PAGE NO. 69 | 12.1.6.1 STRUCTURAL WORK  
100% OF ITEM RATE ON PRORATA BASIS AGAINST MONTHLY RA BILLS AS FOLLOWS. AS PER SCHEDULE OF RATE FOR ITEM NO 2301 (b) COMPOSITE RATE FOR ERECTION CAN BE FURTHER BREAK UP AS FOLLOWS:-  
(a) ERECTION: ON COMPLETION OF ERECTION 80% OF THE QUOTED RATE  
(b) COMPLETION OF WELDING & ALIGNMENT: 20% OF THE QUOTED RATE |
| --- | --- |
| 12.1.6.1 STRUCTURAL WORK  
100% OF ITEM RATE ON PRORATA BASIS AGAINST MONTHLY RA BILLS AS FOLLOWS. AS PER SCHEDULE OF RATE FOR ITEM NO 2301 (b) COMPOSITE RATE FOR ERECTION CAN BE FURTHER BREAK UP AS FOLLOWS:-  
(a) ERECTION: ON COMPLETION OF ERECTION 80% OF THE QUOTED RATE  
(b) COMPLETION OF WELDING & ALIGNMENT: 20% OF THE QUOTED RATE | 12.1.6.1 STRUCTURAL WORK  
100% OF ITEM RATE ON PRORATA BASIS AGAINST MONTHLY RA BILLS AS FOLLOWS. AS PER SCHEDULE OF RATE FOR ITEM NO 2301 (b) COMPOSITE RATE FOR ERECTION CAN BE FURTHER BREAK UP AS FOLLOWS:-  
(a) ERECTION: ON COMPLETION OF ERECTION 80% OF THE QUOTED RATE  
(b) COMPLETION OF WELDING & ALIGNMENT WITH ONE COAT OF PRIMER OF 50 MICRON DFT: 20% OF THE QUOTED RATE  
AS PER SCHEDULE OF RATE FOR 2301 (a) COMPOSITE RATE FOR FABRICATION CAN BE FURTHER BREAK UP AS FOLLOWS:-  
(a) 80% OF THE QUOTED RATE ON COMPLETION OF FABRICATION  
(b) 20% OF THE QUOTED RATE ON SAND BLASTING WITH ONE COAT OF PRIMER OF 50 MICRON DFT. |

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SIGN OF BIDDER WITH SEAL
<table>
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<tr>
<th><strong>4</strong></th>
<th>Refer Section-4, cl no 4.0(A) for Scope of Work</th>
<th>The following structure are included in the existing scope of work</th>
</tr>
</thead>
</table>
| **5** | **Blasting required for Escavation** | **45) ETP (Effluent Treatment Plant)**  
**46) RODM Plant** |
| **6** | | For excavation of rock by blasting, the contractor has to obtain necessary approvals from concerned departments/statutory authority for storage and usage of explosives within their quoted rates. Blasting has to be done by licensed agency. |
| **Refer Item No.2308(b) ,P/32** | Extra over above Item No. 2301 for finishing the fabricated Chequered plate with hot dipped galvanisation @900gm/Sqm over blast cleaned steel surface as per specification,drawing and instruction of Engineer instead of primer painting. | Extra over above Item No. 2301 for finishing the fabricated Chequered plate with hot dipped galvanisation @900gm/Sqm over blast cleaned steel surface as per specification,drawing and instruction of Engineer instead of primer painting. (*Contractor has to take out fabricated chequered plate outside the plant to galvanisation shop at their own expenses with permission of BHEL and bring back the same to site ,quoted rate shall comprise of transportation to and fro,loading ,unloading ,galvanising etc. complete.*) |