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| TTTD-106-1<br>Rev No. 5                                                                                                                                                                                                         | Form No. | <br><b>HYDERABAD</b> | <b>PROJECT ENGINEERING &amp; SYSTEM DIVISION</b><br><b>BHEL, HYDERABAD –32.</b> |                                                     |                     |                 | PY 51512     |
|                                                                                                                                                                                                                                 |          |                                                                                                       |                                                                                 |                                                     |                     |                 | Rev No. 00   |
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| <b>COPYRIGHT AND CONFIDENTIAL</b><br>The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED,<br>It must not be used directly or indirectly in any way detrimental to the interest of the company. |          | <b><u>TECHNICAL SPECIFICATION FOR BALANCE JOBS FOR VENTILATION SYSTEM</u></b>                         |                                                                                 |                                                     |                     |                 |              |
|                                                                                                                                                                                                                                 |          | <b><u>PROJECT</u></b>                                                                                 |                                                                                 | <b><u>POWER &amp; BLOWING STATION , BURNPUR</u></b> |                     |                 |              |
|                                                                                                                                                                                                                                 |          | <b><u>CUSTOMER</u></b>                                                                                |                                                                                 | <b><u>IISCO STEEL PLANT , BURNPUR</u></b>           |                     |                 |              |
|                                                                                                                                                                                                                                 |          | <b><u>CONSULTANT</u></b>                                                                              |                                                                                 | <b><u>M/S MECON LIMITED</u></b>                     |                     |                 |              |
|                                                                                                                                                                                                                                 |          | <b>Revisions :</b>                                                                                    | <b>Prepared by:</b>                                                             | <b>Checked by:</b>                                  | <b>Approved By:</b> | <b>Date</b>     |              |
|                                                                                                                                                                                                                                 |          | <b>00</b>                                                                                             | <b>Kamaluddin</b>                                                               | <b>P C Sekhar</b>                                   | <b>MNSR</b>         | <b>02.01.19</b> |              |

| TD-106-2<br>Rev No. 5 | Form No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <br>HYDERABAD | <b>PROJECT ENGINEERING &amp; SYSTEM DIVISION</b><br><b>BHEL, HYDERABAD –32.</b> | <b>PY 51512</b> |       |             |         |    |                         |   |    |                          |   |    |                     |   |    |                                             |   |    |            |   |    |          |   |    |                            |   |    |                  |   |    |                   |    |
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| TD-106-2<br>Rev No. 5                                                                                                                                                                                                            | Form No. | <br><b>HYDERABAD</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>PROJECT ENGINEERING &amp; SYSTEM DIVISION</b><br><b>BHEL, HYDERABAD –32.</b> | <b>PY 51512</b><br>Rev No. 00<br>Page 3 of 11 |
| <b>COPYRIGHT AND CONFIDENTIAL</b><br>The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED .<br>It must not be used directly or indirectly in any way detrimental to the interest of the company. |          | <div> <b>1. INTENT OF SPECIFICATION:</b> </div> <div> <p>1.1. This specification comprises the details of Balance Scope of Works for Ventilation System for Power &amp; Blowing Station , IISCO Burnpur Project, to be carried out by Bidder, but not limited to following for final painting, erection, testing, commissioning and performance testing, final handling over as mentioned hereinafter for the Ventilation System , which form part of project.</p> </div> <div> <b>2. SPECIAL NOTES TO BIDDERS</b> </div> <div> <p>2.1 This specification shall be read in conjunction with all its enclosures.</p> <p>2.2 Evaporative Ventilation System: The Ventilation system package comprises of Air Washer Units (AWU) of capacity 10,000,00 cmh &amp; 2,50,000 cmh , its associated ducting , insulation with cladding for exposed ducting , Air washer pumps , piping and valves etc. (GA drawing of AWU , Ducting layout drawing for AWU) , supplied and erected partially by other Bidder. There are several leftover erection works and punch points given by end customer w.r.t. overall completion of the system. Detailed balance works have been described in the “scope of work” clause in this specification. The original equipment manufacturer AWU is M/s Bluestar Limited.</p> <p>2.3 In this specification, enough clarity has been brought by BHEL regarding the site front facilities, nature and Quantum of Balance works of Ventilation system, that must be completed to handover the systems.</p> <p>2.4 It may be noted that the best efforts have been made to give full clarity of the scope to the bidder. Bidder is advised to visit the site and understand the scope of works before making a quotation against this specification. However no price implications shall be acceptable w.r.t. non-familiarity of works or additional works.</p> <p>2.5 All mounting hardware/ accessories/fittings/conduits/erection consumables etc. required for the completion of ventilation System package shall be included in the basic price quoted by the bidder. Bidder, at no point of time, shall be eligible to raise any extra claim in this regard.</p> <p>2.6 The Bidder shall at his cost perform any services, tests etc, although not specified but required for the completion of work.</p> <p>2.7 During the course of execution of this work, certain rework/ modification/ rectification/ repairs / fabrication/dismantling/grouting etc. will be necessary because of feedback from customer for the work completed earlier. Bidder shall carryout such rework / modification/rectification/fabrication/repairs etc., promptly and expeditiously without any additional expense.</p> <p>2.8 All tools and tackles, fixtures, equipment, materials, manpower, supervisors/ engineers, consumables such as welding electrodes, welding receptacles etc. required for this scope</p> </div> |                                                                                 |                                               |
| Ref.<br>Doc                                                                                                                                                                                                                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                 |                                               |

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| TD-106-2<br>Rev No. 5                                                                                                                                                                                                            | Form No. | <br><b>HYDERABAD</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>PROJECT ENGINEERING &amp; SYSTEM DIVISION</b><br><b>BHEL, HYDERABAD –32.</b> | <b>PY 51512</b><br>Rev No. 00<br>Page 4 of 11 |
| <b>COPYRIGHT AND CONFIDENTIAL</b><br>The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED .<br>It must not be used directly or indirectly in any way detrimental to the interest of the company. |          | <p>of Ventilation work shall be provided by the Bidder. All expenditure in this connection shall be included in the main package price. No separate price for the same shall be offered.</p> <p>2.9 The Bidder shall accept full responsibility for the completeness and for the faultless working of all the equipment of Ventilation system as a whole.</p> <p>2.10 Bidder to quote strictly as per BHEL's price format. Failure to do shall make their offer liable for rejection. Any tampering/modification/change of the BHEL's price format is not allowed and such bidders are liable for rejection of bidders offer.</p> <p>2.11 The entire work of Erection, Testing and Commissioning of Ventilation system works as detailed elsewhere in the Tender Specification shall be completed within two months from the date of issue of issue of LOI/Work Order or handing over of site whichever is earlier.</p> <p>2.12 Bidder may visit project site to understand project environment and to obtain any information before making the quotation. If bidder inform such requirements, Suitable permits for site visit may be arranged. Non-familiarity with the site conditions will not be considered a reason either for extra claims or for not carrying out the work in strict conformity with this specification &amp; Annexures. No such claims shall be accepted on the basis of "Non-familiarity with Site condition". Site Photographs are enclosed in Annexure-10.</p> <p>2.13 Free open space shall be provided by BHEL for storage and fabrication works on "on as is it is where basis". Material may have to be brought up to project site by traveling.</p> <p>2.14 Construction power shall be provided at one point. Charges for the same shall be as per local municipal rates for industrial use. Necessary tapping from distribution board is to be made by bidder. Certified 'A' grade electrician is required to be arranged by bidder for this purpose. The electrical connections work to be carried out by bidder as per standards followed at the project site. Bidder shall to make own arrangement for area lighting and for execution of work.</p> <p>2.15 Constructional water will be provided at one location as per purchaser's convenience. Bidder needs to make own arrangement for the usage of the same.</p> <p>2.16 It is advised to Bidders to visit the site and ascertain all site intensive requirements such as Health, Safety and Environment (HSE) requirement, work permits and other special requirements of site etc. All personnel protection equipment shall be arranged by bidder and all other prevailing safety rules and regulations shall be followed. All contract workmen shall be covered under ESI &amp; PF. They shall enter the Plant with valid photo entry passes. Arranging gate passes and work permits for entire work force to carryout the scope of works as specified at clause no. 4 , shall be in bidder scope.</p> <p>2.17 Bidder must adhere to the "Special Conditions of Contract" enclosed in Annexure-1 and quote accordingly.</p> |                                                                                 |                                               |
| Ref.                                                                                                                                                                                                                             | Doc      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                 |                                               |

| TD-106-2<br>Rev No. 5<br>Form No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <br>HYDERABAD  | <b>PROJECT ENGINEERING &amp; SYSTEM DIVISION</b><br><b>BHEL, HYDERABAD –32.</b>                                                                                                                                                                                                                                                                                                                                                                                                                   |                  | <b>PY 51512</b>                         |                                                                                                                                                                                                                                |                                   |                 |    |                                                                                                 |                     |                                                 |    |          |                             |                  |                    |                    |                                         |                                                                                                                                                                                                                                |                                |    |   |               |    |   |   |                                                                  |      |    |                                 |                                                                                                                                                              |             |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                 | <table border="1"> <thead> <tr> <th>Sl. No.</th> <th colspan="2">Project Details</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Name of the Project</td> <td>Power and Blowing Station Package , ISP,Burnpur</td> </tr> <tr> <td>2.</td> <td>Customer</td> <td>IISCO Steel Plant , Burnpur</td> </tr> <tr> <td>3.</td> <td>Project Consultant</td> <td>M/s Mecon Limited.</td> </tr> <tr> <td>4.</td> <td>Project Location</td> <td>Burnpur ,Asansol, West Bengal.</td> </tr> </tbody> </table> |                  |                                         |                                                                                                                                                                                                                                | Sl. No.                           | Project Details |    | 1.                                                                                              | Name of the Project | Power and Blowing Station Package , ISP,Burnpur | 2. | Customer | IISCO Steel Plant , Burnpur | 3.               | Project Consultant | M/s Mecon Limited. | 4.                                      | Project Location                                                                                                                                                                                                               | Burnpur ,Asansol, West Bengal. |    |   |               |    |   |   |                                                                  |      |    |                                 |                                                                                                                                                              |             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                 | Sl. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Project Details  |                                         |                                                                                                                                                                                                                                |                                   |                 |    |                                                                                                 |                     |                                                 |    |          |                             |                  |                    |                    |                                         |                                                                                                                                                                                                                                |                                |    |   |               |    |   |   |                                                                  |      |    |                                 |                                                                                                                                                              |             |  |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Name of the Project                                                                             | Power and Blowing Station Package , ISP,Burnpur                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |                                         |                                                                                                                                                                                                                                |                                   |                 |    |                                                                                                 |                     |                                                 |    |          |                             |                  |                    |                    |                                         |                                                                                                                                                                                                                                |                                |    |   |               |    |   |   |                                                                  |      |    |                                 |                                                                                                                                                              |             |  |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Customer                                                                                        | IISCO Steel Plant , Burnpur                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |                                         |                                                                                                                                                                                                                                |                                   |                 |    |                                                                                                 |                     |                                                 |    |          |                             |                  |                    |                    |                                         |                                                                                                                                                                                                                                |                                |    |   |               |    |   |   |                                                                  |      |    |                                 |                                                                                                                                                              |             |  |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Project Consultant                                                                              | M/s Mecon Limited.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                                         |                                                                                                                                                                                                                                |                                   |                 |    |                                                                                                 |                     |                                                 |    |          |                             |                  |                    |                    |                                         |                                                                                                                                                                                                                                |                                |    |   |               |    |   |   |                                                                  |      |    |                                 |                                                                                                                                                              |             |  |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Project Location                                                                                | Burnpur ,Asansol, West Bengal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                         |                                                                                                                                                                                                                                |                                   |                 |    |                                                                                                 |                     |                                                 |    |          |                             |                  |                    |                    |                                         |                                                                                                                                                                                                                                |                                |    |   |               |    |   |   |                                                                  |      |    |                                 |                                                                                                                                                              |             |  |
| <b>4. SCOPE OF BALANCE JOBS (SUPPLY , ERECTION &amp; COMMISSIONING ) FOR VENTILATION SYSTEM</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |                                         |                                                                                                                                                                                                                                |                                   |                 |    |                                                                                                 |                     |                                                 |    |          |                             |                  |                    |                    |                                         |                                                                                                                                                                                                                                |                                |    |   |               |    |   |   |                                                                  |      |    |                                 |                                                                                                                                                              |             |  |
| <table border="1"> <thead> <tr> <th>S. No.</th> <th>Item Description</th> <th>Unit</th> <th>Quant - ity</th> <th>Applicable Sub System / Equipment</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>A.</td> <td colspan="5"><b>Balance works (supply , Erection and Commissioning ) for 10,00,000 cmh Air washer System</b></td> </tr> <tr> <td rowspan="3">1</td> <td>Discharge header</td> <td></td> <td></td> <td rowspan="3">At Discharge header of Air washer pumps</td> <td rowspan="3">Discharge header Pressure gauge &amp; Flow Meter not fitted. Pressure gauge &amp; Flow meter along with hook-up material to be supplied and Installed. Supply &amp; Erection/ replacement as per site conditions shall be in bidder scope.</td> </tr> <tr> <td>(a)Pressure Gauge</td> <td>No</td> <td>1</td> </tr> <tr> <td>(b)Flow Meter</td> <td>No</td> <td>1</td> </tr> <tr> <td>2</td> <td>Drain line extension to be out side the room. (Line size : 1"CS)</td> <td>mtrs</td> <td>10</td> <td>Drain line of Air washer units.</td> <td>Drain line extension to out side the room. Necessary material and erection works required to make it good as per site requirements shall be in bidder scope.</td> </tr> </tbody> </table> |                                                                                                 | S. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Item Description | Unit                                    | Quant - ity                                                                                                                                                                                                                    | Applicable Sub System / Equipment | Remarks         | A. | <b>Balance works (supply , Erection and Commissioning ) for 10,00,000 cmh Air washer System</b> |                     |                                                 |    |          | 1                           | Discharge header |                    |                    | At Discharge header of Air washer pumps | Discharge header Pressure gauge & Flow Meter not fitted. Pressure gauge & Flow meter along with hook-up material to be supplied and Installed. Supply & Erection/ replacement as per site conditions shall be in bidder scope. | (a)Pressure Gauge              | No | 1 | (b)Flow Meter | No | 1 | 2 | Drain line extension to be out side the room. (Line size : 1"CS) | mtrs | 10 | Drain line of Air washer units. | Drain line extension to out side the room. Necessary material and erection works required to make it good as per site requirements shall be in bidder scope. | Ref.<br>Doc |  |
| S. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Item Description                                                                                | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quant - ity      | Applicable Sub System / Equipment       | Remarks                                                                                                                                                                                                                        |                                   |                 |    |                                                                                                 |                     |                                                 |    |          |                             |                  |                    |                    |                                         |                                                                                                                                                                                                                                |                                |    |   |               |    |   |   |                                                                  |      |    |                                 |                                                                                                                                                              |             |  |
| A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Balance works (supply , Erection and Commissioning ) for 10,00,000 cmh Air washer System</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |                                         |                                                                                                                                                                                                                                |                                   |                 |    |                                                                                                 |                     |                                                 |    |          |                             |                  |                    |                    |                                         |                                                                                                                                                                                                                                |                                |    |   |               |    |   |   |                                                                  |      |    |                                 |                                                                                                                                                              |             |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Discharge header                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  | At Discharge header of Air washer pumps | Discharge header Pressure gauge & Flow Meter not fitted. Pressure gauge & Flow meter along with hook-up material to be supplied and Installed. Supply & Erection/ replacement as per site conditions shall be in bidder scope. |                                   |                 |    |                                                                                                 |                     |                                                 |    |          |                             |                  |                    |                    |                                         |                                                                                                                                                                                                                                |                                |    |   |               |    |   |   |                                                                  |      |    |                                 |                                                                                                                                                              |             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (a)Pressure Gauge                                                                               | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                |                                         |                                                                                                                                                                                                                                |                                   |                 |    |                                                                                                 |                     |                                                 |    |          |                             |                  |                    |                    |                                         |                                                                                                                                                                                                                                |                                |    |   |               |    |   |   |                                                                  |      |    |                                 |                                                                                                                                                              |             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (b)Flow Meter                                                                                   | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                |                                         |                                                                                                                                                                                                                                |                                   |                 |    |                                                                                                 |                     |                                                 |    |          |                             |                  |                    |                    |                                         |                                                                                                                                                                                                                                |                                |    |   |               |    |   |   |                                                                  |      |    |                                 |                                                                                                                                                              |             |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Drain line extension to be out side the room. (Line size : 1"CS)                                | mtrs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10               | Drain line of Air washer units.         | Drain line extension to out side the room. Necessary material and erection works required to make it good as per site requirements shall be in bidder scope.                                                                   |                                   |                 |    |                                                                                                 |                     |                                                 |    |          |                             |                  |                    |                    |                                         |                                                                                                                                                                                                                                |                                |    |   |               |    |   |   |                                                                  |      |    |                                 |                                                                                                                                                              |             |  |

|                                                                                                                                                                                                                                               |                                       |          |                                                                                                                                                                                                                                          |                                                                                         |                                                                                |              |                                                   |                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TD-106-2<br>Rev No. 5                                                                                                                                                                                                                         |                                       | Form No. | <div><div><div>बी एच ई एल</div><div></div><div>HYDERABAD</div></div><div>PROJECT ENGINEERING &amp; SYSTEM DIVISION<br/>BHEL, HYDERABAD –32.</div></div> |                                                                                         |                                                                                | PY 51512     |                                                   |                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                               |                                       |          |                                                                                                                                                                                                                                          |                                                                                         |                                                                                | Rev No. 00   |                                                   |                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                               |                                       |          |                                                                                                                                                                                                                                          |                                                                                         |                                                                                | Page 6 of 11 |                                                   |                                                                                                                                                                                                                       |
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|                                                                                                                                                                                                                                               |                                       |          | 3.1                                                                                                                                                                                                                                      | Thermal Insulation                                                                      | Sqmt                                                                           | 110          |                                                   |                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                               |                                       |          | 3.2                                                                                                                                                                                                                                      | Aluminium Sheet cladding                                                                | Sqmt                                                                           | 120          |                                                   |                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                               |                                       |          | 4                                                                                                                                                                                                                                        | Chequerred plates for Pump approach area platform common for 4 Nos. of Air washer pumps | Sqmt                                                                           | 65           | For Air washer pumps                              | Necessary material and erection works required to make it good as per site requirements shall be in bidder scope.                                                                                                     |
|                                                                                                                                                                                                                                               |                                       |          | 5                                                                                                                                                                                                                                        | All ducts crossing wall openings to be blanked properly.                                | Nos.                                                                           | 30           | Civil finishing works at duct crossing            | Necessary material and erection works required to make it good as per site requirements shall be in bidder scope.                                                                                                     |
|                                                                                                                                                                                                                                               |                                       |          | 6                                                                                                                                                                                                                                        | Average Velocity of Fan                                                                 | Lot                                                                            | 1            | Centrifugal fan-5 of capacity 260000 cmh @ 100 mm | Average Velocity of Fan #5 found 15 m/s, however in other fans found 20 m/s. Necessary material and erection works required to make it good as per site requirements shall be in bidder scope.                        |
|                                                                                                                                                                                                                                               |                                       |          | 7                                                                                                                                                                                                                                        | Water Pumps feeder & Fan feeder ammeter value showing wrong value.                      |                                                                                |              | In Air washer unit MCC                            | Necessary rectification and modifications to be carried out by bidder. Requisite material and erection works required to make it good as per site requirements shall be in bidder scope.                              |
|                                                                                                                                                                                                                                               |                                       |          | 7.1                                                                                                                                                                                                                                      | Ammeter for pump feeder                                                                 | No.                                                                            | 1            |                                                   |                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                               |                                       |          | 7.2                                                                                                                                                                                                                                      | Ammeter for fan feeder                                                                  | No.                                                                            | 1            |                                                   |                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                               |                                       |          | 8                                                                                                                                                                                                                                        | Pressure gauge at Pump-2 discharge                                                      | No                                                                             | 1            | At discharge line of Pump-2 of Air washer unit    | Pressure gauge to be supplied along with hook-up material and to be replaced/Installed. Supply & Erection/ replacement as per site conditions shall be in bidder scope.                                               |
| 9                                                                                                                                                                                                                                             | Discharge header vibration very high. | No.      | 1                                                                                                                                                                                                                                        | At discharge line of Air washer Pumps of Air washer unit                                | Bidder to ascertain this point during their site visit. Necessary material and |              |                                                   |                                                                                                                                                                                                                       |
| Ref.                                                                                                                                                                                                                                          | Doc                                   |          |                                                                                                                                                                                                                                          |                                                                                         |                                                                                |              |                                                   |                                                                                                                                                                                                                       |

|                                                                                                                                                                                                                                               |     |          |                                                                                                                                                  |                                                               |  |  |              |                                                                                                                          |      |    |                                                       |                                                                                                                                                                                                 |
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| TD-106-2<br>Rev No. 5                                                                                                                                                                                                                         |     | Form No. | <div><div>बी एच ई एल</div><div></div><div>HYDERABAD</div></div> | PROJECT ENGINEERING & SYSTEM DIVISION<br>BHEL, HYDERABAD –32. |  |  | PY 51512     |                                                                                                                          |      |    |                                                       |                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                               |     |          |                                                                                                                                                  |                                                               |  |  | Rev No. 00   |                                                                                                                          |      |    |                                                       |                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                               |     |          |                                                                                                                                                  |                                                               |  |  | Page 7 of 11 |                                                                                                                          |      |    |                                                       |                                                                                                                                                                                                 |
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|                                                                                                                                                                                                                                               |     |          |                                                                                                                                                  |                                                               |  |  | 10           | Gland sleeve of AWU Pump-3                                                                                               | No.  | 1  | Gland sleeve of Air washer pump-3                     | Pump-3 Gland sleeve is rusted.<br>Gland sleeve to be supplied and erected.<br>Necessary material and erection works required to make it good as per site requirements shall be in bidder scope. |
|                                                                                                                                                                                                                                               |     |          |                                                                                                                                                  |                                                               |  |  | 11           | Pressure gauge at Pump-3 discharge                                                                                       | No   | 1  | At discharge line of Pump-2 of Air washer unit        | Pressure gauge to be supplied along with hook-up material and to be replaced/Installed.<br>Supply & Erection/ replacement as per site conditions shall be in bidder scope.                      |
|                                                                                                                                                                                                                                               |     |          |                                                                                                                                                  |                                                               |  |  | 12           | Make-up line flange mismatch, bolt missing, both side wheel missing                                                      | Set  | 1  |                                                       | Necessary material and erection works required to make it good as per site requirements shall be in bidder scope.                                                                               |
|                                                                                                                                                                                                                                               |     |          |                                                                                                                                                  |                                                               |  |  | 13           | Fan-5 screeching noise coming while running.                                                                             | No.  | 1  | Centrifugal fan-5 of Air washer Unit.                 | Bidder to ascertain the issue during their site visi<br>Necessary material and erection works required to make it good as per site requirements shall be in bidder scope.                       |
|                                                                                                                                                                                                                                               |     |          |                                                                                                                                                  |                                                               |  |  | 14           | Chequerred plates approach platform height for Fan- 3 & 5 (Small step-up side to be provided from the existing platform) | Sqmt | 10 | Air washer centrifugal Fans- 3 & 5 in Air washer room | Approach platform height for Fan- 3 & 5 to be increased.<br>Necessary material and erection works required to make it good as per site requirements shall be in bidder scope.                   |
|                                                                                                                                                                                                                                               |     |          |                                                                                                                                                  |                                                               |  |  | 15           | Gate valve gland for AWU Pump Discharge                                                                                  | Nos. | 4  | Gland of gate valves at discharge of AWU pumps 1 -4   | All Pump Discharge gate valve gland has leakage.<br>Necessary material and erection works required to make it good as per site requirements shall be in bidder scope.                           |
|                                                                                                                                                                                                                                               |     |          |                                                                                                                                                  |                                                               |  |  |              |                                                                                                                          |      |    |                                                       |                                                                                                                                                                                                 |
| Ref.                                                                                                                                                                                                                                          | Doc |          |                                                                                                                                                  |                                                               |  |  |              |                                                                                                                          |      |    |                                                       |                                                                                                                                                                                                 |

|                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                 |     |   |                                                   |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                        |  |  |  |  |    |                                               |     |   |  |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                              |  |  |  |  |    |                                                      |      |    |  |                                                   |
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| TD-106-2<br>Rev No. 5<br><br>Form No.                                                                                                                                                                                                                                                                                                                           | <br>HYDERABAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>PROJECT ENGINEERING &amp; SYSTEM DIVISION</b><br><b>BHEL, HYDERABAD –32.</b> |     |   |                                                   | <b>PY 51512</b>                                                                                                                                                                                                                                                                                                                                                                     |          |                                                        |  |  |  |  |    |                                               |     |   |  |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                              |  |  |  |  |    |                                                      |      |    |  |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                 |     |   |                                                   | Rev No. 00                                                                                                                                                                                                                                                                                                                                                                          |          |                                                        |  |  |  |  |    |                                               |     |   |  |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                              |  |  |  |  |    |                                                      |      |    |  |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                 |     |   |                                                   | Page 8 of 11                                                                                                                                                                                                                                                                                                                                                                        |          |                                                        |  |  |  |  |    |                                               |     |   |  |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                              |  |  |  |  |    |                                                      |      |    |  |                                                   |
| <b>COPYRIGHT AND CONFIDENTIAL</b><br>The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED .<br>It must not be used directly or indirectly in any way detrimental to the interest of the company.                                                                                                                                | <table border="1"> <tr> <td><b>B</b></td> <td colspan="5"><b>Commissioning of 2,40,000 cmh Air washer System</b></td> </tr> <tr> <td>1.</td> <td>Commissioning of 2,40,000 cmh air washer unit</td> <td>Lot</td> <td>1</td> <td></td> <td>           Bidder to commission the Air washer units of 2.5 lakhs cmh. Necessary consumables (like oil, grease, etc) required for commissioning is deemed to be included in bidders scope of supply. During the commissioning activity, the 2.5 Lakhs Air washer system, the punch points will be provided by end customer. The same shall be listed and reported to BHEL for further actions)         </td> </tr> <tr> <td><b>C</b></td> <td colspan="5"><b>Balance works for Exhaust Fans system</b></td> </tr> <tr> <td>1.</td> <td>Civil finishing of 40 nos. exhaust fan wall opening.</td> <td>Nos.</td> <td>40</td> <td></td> <td>Bidder to ascertain the work during their visits.</td> </tr> </table> |                                                                                 |     |   |                                                   |                                                                                                                                                                                                                                                                                                                                                                                     | <b>B</b> | <b>Commissioning of 2,40,000 cmh Air washer System</b> |  |  |  |  | 1. | Commissioning of 2,40,000 cmh air washer unit | Lot | 1 |  | Bidder to commission the Air washer units of 2.5 lakhs cmh. Necessary consumables (like oil, grease, etc) required for commissioning is deemed to be included in bidders scope of supply. During the commissioning activity, the 2.5 Lakhs Air washer system, the punch points will be provided by end customer. The same shall be listed and reported to BHEL for further actions) | <b>C</b> | <b>Balance works for Exhaust Fans system</b> |  |  |  |  | 1. | Civil finishing of 40 nos. exhaust fan wall opening. | Nos. | 40 |  | Bidder to ascertain the work during their visits. |
|                                                                                                                                                                                                                                                                                                                                                                 | <b>B</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Commissioning of 2,40,000 cmh Air washer System</b>                          |     |   |                                                   |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                        |  |  |  |  |    |                                               |     |   |  |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                              |  |  |  |  |    |                                                      |      |    |  |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                 | 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Commissioning of 2,40,000 cmh air washer unit                                   | Lot | 1 |                                                   | Bidder to commission the Air washer units of 2.5 lakhs cmh. Necessary consumables (like oil, grease, etc) required for commissioning is deemed to be included in bidders scope of supply. During the commissioning activity, the 2.5 Lakhs Air washer system, the punch points will be provided by end customer. The same shall be listed and reported to BHEL for further actions) |          |                                                        |  |  |  |  |    |                                               |     |   |  |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                              |  |  |  |  |    |                                                      |      |    |  |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                 | <b>C</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Balance works for Exhaust Fans system</b>                                    |     |   |                                                   |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                        |  |  |  |  |    |                                               |     |   |  |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                              |  |  |  |  |    |                                                      |      |    |  |                                                   |
| 1.                                                                                                                                                                                                                                                                                                                                                              | Civil finishing of 40 nos. exhaust fan wall opening.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nos.                                                                            | 40  |   | Bidder to ascertain the work during their visits. |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                        |  |  |  |  |    |                                               |     |   |  |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                              |  |  |  |  |    |                                                      |      |    |  |                                                   |
| Notes:                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                 |     |   |                                                   |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                        |  |  |  |  |    |                                               |     |   |  |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                              |  |  |  |  |    |                                                      |      |    |  |                                                   |
| 4.1 Support structure and scaffolding, if any , required for completing the balance jobs for Ventilation system as listed in sl. no. 4 above shall be in Bidder scope.                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                 |     |   |                                                   |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                        |  |  |  |  |    |                                               |     |   |  |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                              |  |  |  |  |    |                                                      |      |    |  |                                                   |
| 4.2 Painting: Bidder shall include the painting of all pipe work of Air washer system.                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                 |     |   |                                                   |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                        |  |  |  |  |    |                                               |     |   |  |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                              |  |  |  |  |    |                                                      |      |    |  |                                                   |
| <b>5. EXCLUSIONS:</b>                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                 |     |   |                                                   |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                        |  |  |  |  |    |                                               |     |   |  |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                              |  |  |  |  |    |                                                      |      |    |  |                                                   |
| Repairs & maintenance of AWU including centrifugal fans, pumps, motors that needs replacement of parts. (During the commissioning activity, the equipment – AWU fans, pumps etc - develop any repairs or defects, the same shall be listed and reported to BHEL.)                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                 |     |   |                                                   |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                        |  |  |  |  |    |                                               |     |   |  |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                              |  |  |  |  |    |                                                      |      |    |  |                                                   |
| <b>6. PAINTING</b>                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                 |     |   |                                                   |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                        |  |  |  |  |    |                                               |     |   |  |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                              |  |  |  |  |    |                                                      |      |    |  |                                                   |
| 6.1. All protective paints for the protection of weld joint fit-ups, application of primers on finished weld joints are in the scope of Bidder.                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                 |     |   |                                                   |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                        |  |  |  |  |    |                                               |     |   |  |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                              |  |  |  |  |    |                                                      |      |    |  |                                                   |
| 6.2. The primer and thinner will be provided by Bidder as part of scope of work along with other like arrangements for surface preparation and paint application like sand/shot-blasting, consumables like surface cleaning agents, paint brush, brush cleanser, labour and necessary tools and plants as required for completion of work. Price of these items |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                 |     |   |                                                   |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                        |  |  |  |  |    |                                               |     |   |  |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                              |  |  |  |  |    |                                                      |      |    |  |                                                   |
| Ref.<br>Doc                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                 |     |   |                                                   |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                        |  |  |  |  |    |                                               |     |   |  |                                                                                                                                                                                                                                                                                                                                                                                     |          |                                              |  |  |  |  |    |                                                      |      |    |  |                                                   |



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| TD-106-2<br>Rev No. 5                                                                                                                                                                                                            | Form No. | <br><b>HYDERABAD</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>PROJECT ENGINEERING &amp; SYSTEM DIVISION</b><br><b>BHEL, HYDERABAD –32.</b> | <b>PY 51512</b><br>Rev No. 00<br>Page 9 of 11 |
| <b>COPYRIGHT AND CONFIDENTIAL</b><br>The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED .<br>It must not be used directly or indirectly in any way detrimental to the interest of the company. |          | <p>shall be construed to be included in the main package price. No separate price for the same shall be offered.</p> <p><b>7. DEVIATIONS TO SPECIFICATIONS:</b></p> <p>7.1. <b>No deviation on the “scope of work furnished in cl. No. 4” is acceptable.</b> Bidders are advised to quote strictly as per BHEL’s specification requirements. Any deviation to the specification or omission of any part of scope by bidder is not permissible. In such cases, the quotation/ bid shall be liable for rejection. Otherwise bidder shall comply with specification without any additional price implications on the omitted scope/deviation to participate in the bid.</p> <p>7.2. Bidders may raise pre-bid queries on the specification before the cut-off date. The same shall be reviewed by BHEL and suitable clarification shall be provided to all bidders. Bidders are advised to use the format attached with this specification (Annexure -03) to raise pre-bid queries. All such applicable deviations /clarification shall have cross reference to page number /section / clause /para etc. of this specification or its annexure with proper reasons for the deviations for purchaser’s consideration. Any such applicable deviations /clarification not listed under the above section, even if reflected in any other portion of the bidder’s proposal shall not be considered applicable.</p> <p><b>8. PRICE BID FORMAT</b></p> <p>8.1. Balance jobs for Ventilation system as envisaged in this bid document shall be executed by the bidder on Lump Sum Turnkey (LSTK) basis.</p> <p>8.2. For Price bid evaluation criteria is indicated in the Price bid Format (Annexure-02).</p> <p>8.3. All the items included in the price bid format shall be quoted as per tender specification and subsequent tender stage correspondences, if any. Responsibility of ensuring correctness &amp; completeness of scope of supply as per spec. requirement solely lies with bidder.</p> <p>8.4. Prices quoted by the bidder shall remain firm till the successful handing over of the Ventilation system to end customer. Any request for upward revision of price during any intermediate stage before handing over the plant to end customer will be summarily rejected by BHEL.</p> <p>8.5. Bidder to refer to GCC &amp; SCC for the applicable taxes and duties. Bidder to quote only base rates for all the items. Applicable taxes and duties shall be indicated separately.</p> <p>8.6. The equipment/items supplied shall be complete in all respects. The bidder shall not be eligible for any extra payment in respect of such mountings, fittings, fixtures and accessories if required for the safe and reliable operation of the equipment. Any additional equipment, material, etc., which are not specifically mentioned here, but are required to make the supplied equipment complete in all respect, in accordance with the intent of this technical specification, contractual agreement, statutory requirements,</p> |                                                                                 |                                               |
| Ref.                                                                                                                                                                                                                             | Doc      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                 |                                               |

| TD-106-2<br>Rev No. 5                                                                                                                                                                                                            | Form No.                                                         | <br><b>HYDERABAD</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>PROJECT ENGINEERING &amp; SYSTEM DIVISION</b><br><b>BHEL, HYDERABAD –32.</b> | <b>PY 51512</b><br>Rev No. 00<br>Page 10 of 11 |               |                  |                 |    |                                                      |  |    |                  |                   |    |                              |             |    |                      |            |    |                                |            |  |                               |            |    |                                                               |            |    |                                                                  |            |    |                                                               |            |    |                                                                 |            |     |                  |             |
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| <b>COPYRIGHT AND CONFIDENTIAL</b><br>The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED .<br>It must not be used directly or indirectly in any way detrimental to the interest of the company. |                                                                  | <p>relevant/applicable codes/standards, good engineering practices, and for safe and trouble-free operation, shall be deemed to be in bidder scope only. It will be the bidders sole responsibility to specifically highlight any of the missing equipments / items required for the proper &amp; intended use of the Ventilation System as a part of their offer. In case nothing is highlighted by the bidder, it will be assumed that all the major items are included in the bidder's scope of supply for the desired operation of the Ventilation system.</p> <p>8.7. All hardware/ item/ etc. required as per tender specification or subsequent tender correspondences or for desired satisfactory operation of package or due to good-engineering practice or as prescribed by relevant/applicable code/standard, but not listed exclusively in this specification, shall be deemed to be included in the basic price quoted by the bidder. Also, all mounting hardware / accessories /fittings/conduits/etc. required for above the package shall be included in the basic price of respective item. Bidder, at no point of time, shall be eligible to raise any extra claim in this regard.</p> <p>8.8. Bidder shall confirm that he has quoted all items by marking "Quoted" in the price bid and enclose the same in their technical offer. Price shall not be specified in the technical offer.</p> <p>8.9. Bidder to note that the BOQ (Price Bid format) has been generated based on approximations and is purely for tender purposes only.</p> <p><b>9. LIST OF ANNEXURES:</b></p> <table border="1"> <thead> <tr> <th>Annexure Nos.</th> <th>Name Of annexure</th> <th>Document number</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Special Condition and General conditions of Contract</td> <td></td> </tr> <tr> <td>2.</td> <td>Price bid format</td> <td>PEMC 07380 Rev.00</td> </tr> <tr> <td>2a</td> <td>Annexure to Price Bid Format</td> <td>Annexure-2A</td> </tr> <tr> <td>3.</td> <td>Pre-Bid query format</td> <td>Annexure-3</td> </tr> <tr> <td>4.</td> <td>GA Drawing of Centrifugal Fans</td> <td>Annexure-4</td> </tr> <tr> <td></td> <td>GA Drawing of Air washer Unit</td> <td>Annexure-5</td> </tr> <tr> <td>6.</td> <td>Duct Layout for Dry Ventilation system for LT Switchgear Room</td> <td>Annexure-6</td> </tr> <tr> <td>7.</td> <td>Duct Layout for Wet Ventilation system for Turbo Blower Building</td> <td>Annexure-7</td> </tr> <tr> <td>8.</td> <td>Duct Layout for Wet Ventilation system for LT Switchgear Room</td> <td>Annexure-8</td> </tr> <tr> <td>9.</td> <td>Duct Layout for Wet Ventilation system for LT Cable cellar room</td> <td>Annexure-9</td> </tr> <tr> <td>10.</td> <td>Site Photographs</td> <td>Annexure-10</td> </tr> </tbody> </table> |                                                                                 |                                                | Annexure Nos. | Name Of annexure | Document number | 1. | Special Condition and General conditions of Contract |  | 2. | Price bid format | PEMC 07380 Rev.00 | 2a | Annexure to Price Bid Format | Annexure-2A | 3. | Pre-Bid query format | Annexure-3 | 4. | GA Drawing of Centrifugal Fans | Annexure-4 |  | GA Drawing of Air washer Unit | Annexure-5 | 6. | Duct Layout for Dry Ventilation system for LT Switchgear Room | Annexure-6 | 7. | Duct Layout for Wet Ventilation system for Turbo Blower Building | Annexure-7 | 8. | Duct Layout for Wet Ventilation system for LT Switchgear Room | Annexure-8 | 9. | Duct Layout for Wet Ventilation system for LT Cable cellar room | Annexure-9 | 10. | Site Photographs | Annexure-10 |
| Annexure Nos.                                                                                                                                                                                                                    | Name Of annexure                                                 | Document number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                 |                                                |               |                  |                 |    |                                                      |  |    |                  |                   |    |                              |             |    |                      |            |    |                                |            |  |                               |            |    |                                                               |            |    |                                                                  |            |    |                                                               |            |    |                                                                 |            |     |                  |             |
| 1.                                                                                                                                                                                                                               | Special Condition and General conditions of Contract             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                 |                                                |               |                  |                 |    |                                                      |  |    |                  |                   |    |                              |             |    |                      |            |    |                                |            |  |                               |            |    |                                                               |            |    |                                                                  |            |    |                                                               |            |    |                                                                 |            |     |                  |             |
| 2.                                                                                                                                                                                                                               | Price bid format                                                 | PEMC 07380 Rev.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                 |                                                |               |                  |                 |    |                                                      |  |    |                  |                   |    |                              |             |    |                      |            |    |                                |            |  |                               |            |    |                                                               |            |    |                                                                  |            |    |                                                               |            |    |                                                                 |            |     |                  |             |
| 2a                                                                                                                                                                                                                               | Annexure to Price Bid Format                                     | Annexure-2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                 |                                                |               |                  |                 |    |                                                      |  |    |                  |                   |    |                              |             |    |                      |            |    |                                |            |  |                               |            |    |                                                               |            |    |                                                                  |            |    |                                                               |            |    |                                                                 |            |     |                  |             |
| 3.                                                                                                                                                                                                                               | Pre-Bid query format                                             | Annexure-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                 |                                                |               |                  |                 |    |                                                      |  |    |                  |                   |    |                              |             |    |                      |            |    |                                |            |  |                               |            |    |                                                               |            |    |                                                                  |            |    |                                                               |            |    |                                                                 |            |     |                  |             |
| 4.                                                                                                                                                                                                                               | GA Drawing of Centrifugal Fans                                   | Annexure-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                 |                                                |               |                  |                 |    |                                                      |  |    |                  |                   |    |                              |             |    |                      |            |    |                                |            |  |                               |            |    |                                                               |            |    |                                                                  |            |    |                                                               |            |    |                                                                 |            |     |                  |             |
|                                                                                                                                                                                                                                  | GA Drawing of Air washer Unit                                    | Annexure-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                 |                                                |               |                  |                 |    |                                                      |  |    |                  |                   |    |                              |             |    |                      |            |    |                                |            |  |                               |            |    |                                                               |            |    |                                                                  |            |    |                                                               |            |    |                                                                 |            |     |                  |             |
| 6.                                                                                                                                                                                                                               | Duct Layout for Dry Ventilation system for LT Switchgear Room    | Annexure-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                 |                                                |               |                  |                 |    |                                                      |  |    |                  |                   |    |                              |             |    |                      |            |    |                                |            |  |                               |            |    |                                                               |            |    |                                                                  |            |    |                                                               |            |    |                                                                 |            |     |                  |             |
| 7.                                                                                                                                                                                                                               | Duct Layout for Wet Ventilation system for Turbo Blower Building | Annexure-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                 |                                                |               |                  |                 |    |                                                      |  |    |                  |                   |    |                              |             |    |                      |            |    |                                |            |  |                               |            |    |                                                               |            |    |                                                                  |            |    |                                                               |            |    |                                                                 |            |     |                  |             |
| 8.                                                                                                                                                                                                                               | Duct Layout for Wet Ventilation system for LT Switchgear Room    | Annexure-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                 |                                                |               |                  |                 |    |                                                      |  |    |                  |                   |    |                              |             |    |                      |            |    |                                |            |  |                               |            |    |                                                               |            |    |                                                                  |            |    |                                                               |            |    |                                                                 |            |     |                  |             |
| 9.                                                                                                                                                                                                                               | Duct Layout for Wet Ventilation system for LT Cable cellar room  | Annexure-9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                 |                                                |               |                  |                 |    |                                                      |  |    |                  |                   |    |                              |             |    |                      |            |    |                                |            |  |                               |            |    |                                                               |            |    |                                                                  |            |    |                                                               |            |    |                                                                 |            |     |                  |             |
| 10.                                                                                                                                                                                                                              | Site Photographs                                                 | Annexure-10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                 |                                                |               |                  |                 |    |                                                      |  |    |                  |                   |    |                              |             |    |                      |            |    |                                |            |  |                               |            |    |                                                               |            |    |                                                                  |            |    |                                                               |            |    |                                                                 |            |     |                  |             |
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| TD-106-3                                                                                                                                                                                                                                 | Rev.No. 5 | Form No. | <br>HYDERABAD | PRODUCT STANDARD<br>BHEL, HYDERABAD –32.<br>PROJECT ENGINEERING – MECHANICAL |                  | PY 51512      |             |  |
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