

| PRICE FORMAT - FOR INDIAN BIDDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |      |                             |                                              |                                                                                   |                                                                        |                              |                              | Doc No:                                                   | PE-TS-412-158-A001                                 |                                                                          |      |             |           |      |              |  |  |  |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |      |                             |                                              |                                                                                   |                                                                        |                              |                              | Rev No:                                                   | 0                                                  |                                                                          |      |             |           |      |              |  |  |  |  |  |
| NAME OF PROJECT:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |      |                             |                                              |                                                                                   |                                                                        |                              |                              | 2X660 MW ENNORE SEZ STPP                                  |                                                    |                                                                          |      |             |           |      |              |  |  |  |  |  |
| NAME OF PACKAGE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |      |                             |                                              |                                                                                   |                                                                        |                              |                              | PRE TREATMENT PLANT (SUPERVISION OF CIVIL WORKS INCLUDED) |                                                    |                                                                          |      |             |           |      |              |  |  |  |  |  |
| TENDER ENQUIRY NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |      |                             |                                              |                                                                                   |                                                                        |                              |                              | PE/PG/EN1/E-5512/2016                                     |                                                    |                                                                          |      |             |           |      |              |  |  |  |  |  |
| TECHNICAL SPECIFICATION:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |      |                             |                                              |                                                                                   |                                                                        |                              |                              | PE-TS-412-158-A001                                        |                                                    |                                                                          |      |             |           |      |              |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |      | SUPPLY                      |                                              |                                                                                   |                                                                        |                              | SERVICES                     |                                                           |                                                    | GRAND TOTAL                                                              |      |             |           |      |              |  |  |  |  |  |
| S. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | UNIT      | QTY  | TOTAL EX- WORKS PRICE (INR) | Excise Duty                                  | CST @ .....% Against C-form & E1/E2 or VAT @ .....% Whichever is applicable (INR) | FREIGHT CHARGES INCLUDING SERVICE TAX @ .....% OF TOTAL EX-WORKS (INR) | TOTAL F.O.R SITE PRICE (INR) | TOTAL SERVICES CHARGES (INR) | SERVICE TAX @ .....% (INR)                                | TOTAL SERVICES CHARGES INCLUDING SERVICE TAX (INR) | TOTAL LUMP SUM PRICE FOR SUPPLY AND SERVICES WITH TAXES AND DUTIES (INR) |      |             |           |      |              |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |      | 1                           | 2                                            | 3                                                                                 | 4                                                                      | 5=1+3+4                      | 6                            | 7                                                         | 8=6+7                                              | 9=5+8                                                                    |      |             |           |      |              |  |  |  |  |  |
| 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY PART , SERVICES PART & MANDATORY SPARES ( if applicable) comprising of design ( i.e. Preparation and submission of drawing/ documents including " As Built " drawings and O&M Manuals) engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable), fill of lubricants & consumables (excluding chemicals), mandatory spares (if applicable) alongwith spares for erection ,startup and commissioning as required, forwarding, proper packing, shipment and delivery at site,unloading, handling, transportation & storage at site, in site transportation, assembly, minor civil works,erection & commissioning, including supervision of civil works of clarifiers trial run at site, preparation of drawings in 3D (if applicable) and carrying out performance guarantee /Functional / Demonstration tests at site (As applicable), training of customer/ client O&M staff ( if applicable) & final handing over to end customer in flawless condition for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order. | Set       | 1    |                             |                                              |                                                                                   |                                                                        |                              |                              |                                                           |                                                    |                                                                          |      |             |           |      |              |  |  |  |  |  |
| 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MAJOR BREAK-UP OF PRICES GIVEN IN 1.0 ABOVE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |      |                             |                                              |                                                                                   |                                                                        |                              |                              |                                                           |                                                    |                                                                          |      |             |           |      |              |  |  |  |  |  |
| 2.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY PART comprising of design (i.e. Preparation and submission of drawing/ documents including " As Built " drawings and O&M Manuals) , engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable),fill of lubricants & consumables (excluding chemicals), alongwith spares for erection , startup and commissioning as required, forwarding, proper packing, shipment and delivery at site, preparation of drawings in 3D (if applicable) for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.(Break -up as per Annexure -I)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Set       | 1    |                             | NIL AGAINST EXEMPTION CERTIFICATE AS PER SCC |                                                                                   |                                                                        |                              |                              | NA                                                        |                                                    |                                                                          |      |             |           |      |              |  |  |  |  |  |
| 2.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for the SERVICES PART comprising of unloading, handling, transportation & storage at site, in site transportation, assembly, minor civil works, erection & commissioning, including supervision of civil works of clarifiers, final painting at site, trial run at site and carrying out performance guarantee /Functional / Demonstration tests at site (As applicable), training of customer/ client O&M staff ( if applicable) & final handing over to end customer in flawless condition for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Set       | 1    | NA                          |                                              |                                                                                   | NA                                                                     |                              |                              |                                                           |                                                    |                                                                          |      |             |           |      |              |  |  |  |  |  |
| 2.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Total lumpsum firm price inclusive of all prevailing taxes, duties and other levies for <b>Mandatory spares</b> comprising of manufacture, fabrication, assembly, inspection / testing (as applicable) at vendor's & sub-vendor's works, painting, forwarding, proper packing, shipment, delivery at site & guarantee as per tender technical specification above, amendment & agreements till placement of order. (Price break up of mandatory spares is to be furnished as per Annexure- II).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Lot       | 1    |                             |                                              |                                                                                   |                                                                        |                              |                              | NA                                                        |                                                    |                                                                          |      |             |           |      |              |  |  |  |  |  |
| Note-<br>1. Evaluation shall be done one the basis of total lump sum prices for complete supply and services. Total price indicated above at Column (15) minus service tax quoted at Column (7) of 1.0 shall be considered for evaluation & hence must be completed in all respect for the full scope defined & considering all terms and conditions agreed.<br>Further Swadchh Bharat Cess i.e.0.5% of Service tax rate is not cenvatable. Hence, this 0.5% component of cess shall be considered for Evaluation. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |      |                             |                                              |                                                                                   |                                                                        |                              |                              |                                                           |                                                    |                                                                          |      |             |           |      |              |  |  |  |  |  |
| Particulars of bidder / authorised representative                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |      |                             |                                              |                                                                                   |                                                                        |                              |                              |                                                           |                                                    |                                                                          |      |             |           |      |              |  |  |  |  |  |
| <table border="1"> <tr> <td>Name</td> <td>Designation</td> <td>Signature</td> <td>Date</td> <td>Company Seal</td> </tr> <tr> <td colspan="5"> </td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |      |                             |                                              |                                                                                   |                                                                        |                              |                              |                                                           |                                                    |                                                                          | Name | Designation | Signature | Date | Company Seal |  |  |  |  |  |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Signature | Date | Company Seal                |                                              |                                                                                   |                                                                        |                              |                              |                                                           |                                                    |                                                                          |      |             |           |      |              |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |      |                             |                                              |                                                                                   |                                                                        |                              |                              |                                                           |                                                    |                                                                          |      |             |           |      |              |  |  |  |  |  |

**PRICE FORMAT - FOR INDIAN BIDDERS  
ANNEXURE-I**

|         |                    |
|---------|--------------------|
| Doc No: | PE-TS-412-158-A001 |
| Rev No: | 0                  |

|                          |                                                           |  |
|--------------------------|-----------------------------------------------------------|--|
| NAME OF PROJECT:         | 2X660 MW ENNORE SEZ STPP                                  |  |
| NAME OF PACKAGE:         | PRE TREATMENT PLANT (SUPERVISION OF CIVIL WORKS INCLUDED) |  |
| TENDER ENQUIRY NO.:      | PE/PG/EN1/E-5512/2016                                     |  |
| TECHNICAL SPECIFICATION: | PE-TS-412-158-A001                                        |  |

| S. No. | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UNIT | QTY | UNIT EX-<br>WORKS<br>PRICE<br>INCLUDING<br>P&F<br>(INR) | TOTAL EX-<br>WORKS<br>PRICE<br>INCLUDING<br>P&F<br>(INR) | Excise Duty                                                     | CST @ .....%<br>Against C-form &<br>E1/E2 or VAT<br>@.....%<br>Whichever is<br>applicable (INR) | FREIGHT<br>CHARGES<br>INCLUDING<br>SERVICE TAX)<br>@.....% OF<br>TOTAL EX-<br>WORKS<br>(INR) | TOTAL F.O.R SITE<br>PRICE<br>(INR) |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|---------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------|
|        | <b>BREAK-UP OF SUPPLY PRICES GIVEN IN 2.1 OF MAIN SHEET.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |     | <b>1</b>                                                | <b>2</b>                                                 | <b>3</b>                                                        | <b>4</b>                                                                                        | <b>5</b>                                                                                     | <b>6=2+4+5</b>                     |
| 2.1    | Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY PART comprising of design (i.e. Preparation and submission of drawing/ documents including " As Built " drawings and O&M Manuals) , engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable),fill of lubricants & consumables (excluding chemicals), alongwith spares for erection , startup and commissioning as required, forwarding, proper packing, shipment and delivery at site, preparation of drawings in 3D (if applicable) for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order. | Set  |     |                                                         |                                                          | <b>NIL AGAINST<br/>EXEMPTION<br/>CERTIFICATE<br/>AS PER SCC</b> |                                                                                                 |                                                                                              |                                    |
| 2.1.1  | Clarifier Mechanism along with accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No.  | 2   |                                                         |                                                          |                                                                 |                                                                                                 |                                                                                              |                                    |
| 2.1.2  | Pumps, blowers, Agitators, Motors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Lot  | 1   |                                                         |                                                          |                                                                 |                                                                                                 |                                                                                              |                                    |
| 2.1.3  | Piping & fittings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Lot  | 1   |                                                         |                                                          |                                                                 |                                                                                                 |                                                                                              |                                    |
| 2.1.4  | Valves                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Lot  | 1   |                                                         |                                                          |                                                                 |                                                                                                 |                                                                                              |                                    |
| 2.1.5  | Instrument & analysers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Lot  | 1   |                                                         |                                                          |                                                                 |                                                                                                 |                                                                                              |                                    |
| 2.1.6  | PLC system, UPS with battery.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Set  | 1   |                                                         |                                                          |                                                                 |                                                                                                 |                                                                                              |                                    |
| 2.1.7  | Misc Balance Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Lot  | 1   |                                                         |                                                          |                                                                 |                                                                                                 |                                                                                              |                                    |

|                                                          |             |           |      |              |  |  |  |  |  |
|----------------------------------------------------------|-------------|-----------|------|--------------|--|--|--|--|--|
| <b>Particulars of bidder / authorised representative</b> |             |           |      |              |  |  |  |  |  |
| Name                                                     | Designation | Signature | Date | Company Seal |  |  |  |  |  |

| PRICE FORMAT - FOR INDIAN BIDDERS<br>ANNEXURE-II<br>LIST OF MANDATORY SPARES |                                                        |                                                                  |        |                                                   |                                                    |                                                                        | Doc No:                                                                                      | PE-TS-412-158-A001                                                                 |                                    |
|------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------|--------|---------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------|
|                                                                              |                                                        |                                                                  |        |                                                   |                                                    |                                                                        | Rev No:                                                                                      | 0                                                                                  |                                    |
|                                                                              |                                                        |                                                                  |        |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| NAME OF PROJECT:                                                             |                                                        | 2X660 MW ENNORE SEZ STPP                                         |        |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| NAME OF PACKAGE:                                                             |                                                        | PRE TREATMENT PLANT                                              |        |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| TENDER ENQUIRY NO.                                                           |                                                        | PE/PG/EN1/E-5512/2016                                            |        |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| TECHNICAL SPECIFICATION:                                                     |                                                        | PE-TS-412-158-A001                                               |        |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| S. N.                                                                        | DESCRIPTION                                            | UNIT                                                             | QTY    | UNIT EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | TOTAL EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | Excise Duty (NIL<br>AGAINST<br>EXEMPTION<br>CERTIFICATE AS<br>PER SCC) | CST @ .....% Against<br>C-form & E1/E2 or<br>VAT<br>@.....% Whichever is<br>applicable (INR) | FREIGHT CHARGES<br>INCLUDING SERVICE<br>TAX) @.....% OF<br>TOTAL EX-WORKS<br>(INR) | TOTAL F.O.R SITE<br>PRICE<br>(INR) |
|                                                                              |                                                        |                                                                  |        | 1                                                 | 2                                                  | 3                                                                      | 4                                                                                            | 5                                                                                  | 6=2+4+5                            |
| 1.0                                                                          | CIRL DIAPHRAGM VALVE                                   |                                                                  |        |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| a.                                                                           | Complete valve                                         | Two (2) Nos. each of<br>different size of valve in<br>the system | Number |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| b.                                                                           | Diaphragm                                              | Five (5) Nos. each of<br>different sizes valves                  | Number |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| c.                                                                           | Valve spindle                                          | Two (2) Nos. each of<br>different sizes valves                   | Number |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| 2.0                                                                          | Other type valve (except<br>Control Valve )            |                                                                  |        |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| a.                                                                           | Complete valve                                         | One (1) No. each of<br>different size of valve in<br>the system  | Number |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| b.                                                                           | Sampling & needle valve                                | Four (4) Nos. each type &<br>size                                | Number |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| 3.0                                                                          | Pressure Gauge                                         | Two (2) Nos. for each<br>Range/Type                              | Number |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| 4.0                                                                          | Level Gauge                                            |                                                                  |        |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| a.                                                                           | Glass Tube                                             | One (1) No. for each size                                        | Number |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| b.                                                                           | Off-set valve                                          | One (1) No. for each size                                        | Number |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| 5                                                                            | Level Switch (conductivity<br>type)                    |                                                                  |        |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
|                                                                              | Float & Rod Float & Rod                                | One (1) No. for each size                                        | Number |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
|                                                                              | Switch Assembly                                        | One (1) No. for each size                                        | Number |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| 6.0                                                                          | Clariflocculator Bridge                                |                                                                  |        |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| a.                                                                           | Worm gearbox                                           | One (1)                                                          | Number |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| b.                                                                           | Shaft for trailing wheel                               | One (1)                                                          | Number |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| c.                                                                           | Flocc. Drive head complete<br>with bevel & pinion set. | One (1)                                                          | Number |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| d.                                                                           | Central bearing housing<br>complete.                   | Two (2)                                                          | Sets   |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| e.                                                                           | Current collectors.                                    | One (1)                                                          | Sets   |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| f.                                                                           | Weir with stuffing box.                                | One (1)                                                          | Number |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |

| PRICE FORMAT - FOR INDIAN BIDDERS<br>ANNEXURE-II<br>LIST OF MANDATORY SPARES |                                                                                                    |                                                                            |                         |                                                   |                                                    | Doc No:                                                                | PE-TS-412-158-A001                                                                           |                                                                                    |                                    |
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|                                                                              |                                                                                                    |                                                                            |                         |                                                   |                                                    | Rev No:                                                                | 0                                                                                            |                                                                                    |                                    |
|                                                                              |                                                                                                    |                                                                            |                         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| NAME OF PROJECT:                                                             |                                                                                                    | 2X660 MW ENNORE SEZ STPP                                                   |                         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| NAME OF PACKAGE:                                                             |                                                                                                    | PRE TREATMENT PLANT                                                        |                         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| TENDER ENQUIRY NO.                                                           |                                                                                                    | PE/PG/EN1/E-5512/2016                                                      |                         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| TECHNICAL SPECIFICATION:                                                     |                                                                                                    | PE-TS-412-158-A001                                                         |                         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| S. N.                                                                        | DESCRIPTION                                                                                        | UNIT                                                                       | QTY                     | UNIT EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | TOTAL EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | Excise Duty (NIL<br>AGAINST<br>EXEMPTION<br>CERTIFICATE AS<br>PER SCC) | CST @ .....% Against<br>C-form & E1/E2 or<br>VAT<br>@.....% Whichever is<br>applicable (INR) | FREIGHT CHARGES<br>INCLUDING SERVICE<br>TAX) @.....% OF<br>TOTAL EX-WORKS<br>(INR) | TOTAL F.O.R SITE<br>PRICE<br>(INR) |
| g.                                                                           | Bearing; Impeller with shaft & gear unit for each type and size of air blowers.                    | Two (2)                                                                    | Sets                    |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| h.                                                                           | Floats for each size and type with links & levers                                                  | Two (2)                                                                    | Sets                    |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| i                                                                            | Bearings & brake linings for each type & rating of hoists.                                         | Two (2)                                                                    | Sets                    |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| j                                                                            | Rope grid & complete length of wire rope for each type of hoists rating                            | One (1)                                                                    | Number                  |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| k                                                                            | Bearings; shaft sleeve; impeller; and mechanical seal for each type & duty parameters of pumpsets. | One (1)                                                                    | set each                |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| l                                                                            | Controller valve assembly complete.                                                                | Two (2)                                                                    | Number                  |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| m                                                                            | Periphery drive worm gearbox coupling.                                                             | Two (2)                                                                    | Number                  |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| n                                                                            | Membrains for ultra filtration                                                                     | 25% of total population                                                    |                         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| 7.0                                                                          | 415 V Motors                                                                                       |                                                                            |                         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| a.                                                                           | Terminal plates                                                                                    | 10 Nos. each for small motors upto 30 kW & 4 Nos. each for more than 30 kW | Number                  |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| b.                                                                           | Heaters                                                                                            | 2                                                                          | Sets                    |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| c.                                                                           | Greasing arrangements                                                                              | 4                                                                          | sets each type of motor |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| d.                                                                           | Motor of each type and rating                                                                      | 10% of the installed quantity or minimum 1 number whichever be higher      |                         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| e.                                                                           | Bearings (DE and NDE) for each type and rating of motor                                            | 4                                                                          | sets                    |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| 8.0                                                                          | BATTERY                                                                                            |                                                                            |                         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| a.                                                                           | Battery cell                                                                                       | 10                                                                         | Number                  |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |

| PRICE FORMAT - FOR INDIAN BIDDERS<br>ANNEXURE-II<br>LIST OF MANDATORY SPARES |                                                                                                                                                |                                                                                                                                                                |         |                                                   |                                                    |                                                                        | Doc No:                                                                                      | PE-TS-412-158-A001                                                                  |                                    |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|
|                                                                              |                                                                                                                                                |                                                                                                                                                                |         |                                                   |                                                    |                                                                        | Rev No:                                                                                      | 0                                                                                   |                                    |
|                                                                              |                                                                                                                                                |                                                                                                                                                                |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| NAME OF PROJECT:                                                             |                                                                                                                                                | 2X660 MW ENNORE SEZ STPP                                                                                                                                       |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| NAME OF PACKAGE:                                                             |                                                                                                                                                | PRE TREATMENT PLANT                                                                                                                                            |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| TENDER ENQUIRY NO.                                                           |                                                                                                                                                | PE/PG/EN1/E-5512/2016                                                                                                                                          |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| TECHNICAL SPECIFICATION:                                                     |                                                                                                                                                | PE-TS-412-158-A001                                                                                                                                             |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| S. N.                                                                        | DESCRIPTION                                                                                                                                    | UNIT                                                                                                                                                           | QTY     | UNIT EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | TOTAL EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | Excise Duty (NIL<br>AGAINST<br>EXEMPTION<br>CERTIFICATE AS<br>PER SCC) | CST @ .....% Against<br>C-form & E1/E2 or<br>VAT<br>@.....% Whichever is<br>applicable (INR) | FREIGHT CHARGES<br>INCLUDING SERVICE<br>TAX) @_____ % OF<br>TOTAL EX-WORKS<br>(INR) | TOTAL F.O.R SITE<br>PRICE<br>(INR) |
| b.                                                                           | MT cell container of each type                                                                                                                 | 10                                                                                                                                                             | Number  |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| c.                                                                           | Level indicator                                                                                                                                | 6                                                                                                                                                              | Number  |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| d.                                                                           | Vent plugs                                                                                                                                     | 12                                                                                                                                                             | Number  |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| e.                                                                           | Inter-cell connector                                                                                                                           | 10                                                                                                                                                             | Number  |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| f.                                                                           | Set of nuts, bolts and washer                                                                                                                  | 12                                                                                                                                                             | Number  |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| 9.0                                                                          | Each type of lamps, PBs, ILPBs, fuse, MCB, MCCB used in the equipment/system.                                                                  | 20 % of Installed of each type.                                                                                                                                | Number  |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| 10                                                                           | Measuring Instruments                                                                                                                          |                                                                                                                                                                |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| 10.1                                                                         | Indicators, Recorders, Electrical Metering and Skid Mounted Instruments                                                                        |                                                                                                                                                                |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| a.                                                                           | Indicators, recorders and meters offered from each model for the project. These instruments shall be supplied with three sets of blank scales. | 10 % of Installed of each type/Model or a minimum of one number for each model and type, whichever is more.                                                    | Number  |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| b.                                                                           | For skid mounted instruments                                                                                                                   | 10% of total number of instruments for each Type and model or a minimum of one number for each model and type, whichever is more                               | Number  |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| 10.2                                                                         | Temperature Elements and Thermowells                                                                                                           |                                                                                                                                                                |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| a.                                                                           | Thermocouple/RTD elements                                                                                                                      | 10% spare for each type and length of element furnished with thermocouple/RTD assemblies, or a minimum of one number of each type & length, whichever is more. | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |

| PRICE FORMAT - FOR INDIAN BIDDERS<br>ANNEXURE-II<br>LIST OF MANDATORY SPARES |                                                                                                                                                                                                                                                         |                                                                                                                                               |         |                                                   |                                                    |                                                                        | Doc No:                                                                                      | PE-TS-412-158-A001                                                                  |                                    |
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|                                                                              |                                                                                                                                                                                                                                                         |                                                                                                                                               |         |                                                   |                                                    |                                                                        | Rev No:                                                                                      | 0                                                                                   |                                    |
|                                                                              |                                                                                                                                                                                                                                                         |                                                                                                                                               |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| NAME OF PROJECT:                                                             |                                                                                                                                                                                                                                                         | 2X660 MW ENNORE SEZ STPP                                                                                                                      |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| NAME OF PACKAGE:                                                             |                                                                                                                                                                                                                                                         | PRE TREATMENT PLANT                                                                                                                           |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| TENDER ENQUIRY NO.                                                           |                                                                                                                                                                                                                                                         | PE/PG/EN1/E-5512/2016                                                                                                                         |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| TECHNICAL SPECIFICATION:                                                     |                                                                                                                                                                                                                                                         | PE-TS-412-158-A001                                                                                                                            |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| S. N.                                                                        | DESCRIPTION                                                                                                                                                                                                                                             | UNIT                                                                                                                                          | QTY     | UNIT EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | TOTAL EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | Excise Duty (NIL<br>AGAINST<br>EXEMPTION<br>CERTIFICATE AS<br>PER SCC) | CST @ .....% Against<br>C-form & E1/E2 or<br>VAT<br>@.....% Whichever is<br>applicable (INR) | FREIGHT CHARGES<br>INCLUDING SERVICE<br>TAX) @ .....% OF<br>TOTAL EX-WORKS<br>(INR) | TOTAL F.O.R SITE<br>PRICE<br>(INR) |
| b.                                                                           | Thermowells                                                                                                                                                                                                                                             | 10% for each type of temperature sensors or a minimum of one for each type, whichever is more                                                 | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| 10.3                                                                         | Temperature,Transmitters and Electronic Transmitters (For Pressure, DP, Temp, Flow, Level), Temperature, Pressure, Flow & Level Switch, safety switches, Gauges, meters, Transducer or any other instrument etc.                                        | 10% of total number of Instruments/transducers offered for each model and type for the project or a minimum of one number, whichever is more. | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| 11                                                                           | DDCMIS/PLC system, Master slave clock system, Hart Management System, Vibration Monitoring system, CAAQMS, ERP/MIS/LAN/Simulator/ WAN, CCTV, Microprocessor based control system, and other Control System/Sub-systems/electronic system listed in NIT. |                                                                                                                                               |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| 11.1                                                                         | I/O cards                                                                                                                                                                                                                                               |                                                                                                                                               |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| a.                                                                           | Analog Input module                                                                                                                                                                                                                                     | 10% of qty Installed of each category/model or at least 2 No. of each type/model (Whichever is more)                                          | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |

| PRICE FORMAT - FOR INDIAN BIDDERS<br>ANNEXURE-II<br>LIST OF MANDATORY SPARES |                                                                                                                                                                                                                                           |                                                                                                                                   |         |                                                   |                                                    |                                                                        | Doc No:                                                                                      | PE-TS-412-158-A001                                                                  |                                    |
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|                                                                              |                                                                                                                                                                                                                                           |                                                                                                                                   |         |                                                   |                                                    |                                                                        | Rev No:                                                                                      | 0                                                                                   |                                    |
|                                                                              |                                                                                                                                                                                                                                           |                                                                                                                                   |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| NAME OF PROJECT:                                                             |                                                                                                                                                                                                                                           | 2X660 MW ENNORE SEZ STPP                                                                                                          |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| NAME OF PACKAGE:                                                             |                                                                                                                                                                                                                                           | PRE TREATMENT PLANT                                                                                                               |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| TENDER ENQUIRY NO.                                                           |                                                                                                                                                                                                                                           | PE/PG/EN1/E-5512/2016                                                                                                             |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| TECHNICAL SPECIFICATION:                                                     |                                                                                                                                                                                                                                           | PE-TS-412-158-A001                                                                                                                |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| S. N.                                                                        | DESCRIPTION                                                                                                                                                                                                                               | UNIT                                                                                                                              | QTY     | UNIT EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | TOTAL EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | Excise Duty (NIL<br>AGAINST<br>EXEMPTION<br>CERTIFICATE AS<br>PER SCC) | CST @ .....% Against<br>C-form & E1/E2 or<br>VAT<br>@.....% Whichever is<br>applicable (INR) | FREIGHT CHARGES<br>INCLUDING SERVICE<br>TAX) @ _____% OF<br>TOTAL EX-WORKS<br>(INR) | TOTAL F.O.R SITE<br>PRICE<br>(INR) |
| b.                                                                           | Analog output module                                                                                                                                                                                                                      | 10% of qty Installed of each category/ model or at least 2 No. of each type/model (Whichever is more)                             | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| c.                                                                           | RTD/TC cards/modules                                                                                                                                                                                                                      | 10% of qty Installed of each category/model or at least 2 No. of each type/model (Whichever is more)                              | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| d.                                                                           | Digital input module                                                                                                                                                                                                                      | 10% of qty Installed of each category/model or at least 2 No. of each type/model (Whichever is more)                              | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| e.                                                                           | All types of electronic modules, controllers, function modules, cards, terminal boards, relay boards, power supply cards etc for above mentioned system and other Control System/Sub- systems and any other type of PCB not covered above | 10% of qty Installed of each category/model or at least 2 No. of each type/model (Whichever is more)                              | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| f.                                                                           | Electronic Cards/modules                                                                                                                                                                                                                  | 10% of number for each type or minimum of 2 number for each type whichever is high.                                               | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| g.                                                                           | Auto/Manual stations, set-point/bias stations etc                                                                                                                                                                                         | 10% of the number of stations offered for the project from each type or a minimum of 2 number from each model, whichever is more. | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |

| PRICE FORMAT - FOR INDIAN BIDDERS<br>ANNEXURE-II<br>LIST OF MANDATORY SPARES |                                                                                                                                          |                                                                                                 |         |                                                   |                                                    |                                                                        | Doc No:                                                                                      | PE-TS-412-158-A001                                                                  |                                    |
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|                                                                              |                                                                                                                                          |                                                                                                 |         |                                                   |                                                    |                                                                        | Rev No:                                                                                      | 0                                                                                   |                                    |
|                                                                              |                                                                                                                                          |                                                                                                 |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| NAME OF PROJECT:                                                             |                                                                                                                                          | 2X660 MW ENNORE SEZ STPP                                                                        |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| NAME OF PACKAGE:                                                             |                                                                                                                                          | PRE TREATMENT PLANT                                                                             |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| TENDER ENQUIRY NO.                                                           |                                                                                                                                          | PE/PG/EN1/E-5512/2016                                                                           |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| TECHNICAL SPECIFICATION:                                                     |                                                                                                                                          | PE-TS-412-158-A001                                                                              |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| S. N.                                                                        | DESCRIPTION                                                                                                                              | UNIT                                                                                            | QTY     | UNIT EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | TOTAL EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | Excise Duty (NIL<br>AGAINST<br>EXEMPTION<br>CERTIFICATE AS<br>PER SCC) | CST @ .....% Against<br>C-form & E1/E2 or<br>VAT<br>@.....% Whichever is<br>applicable (INR) | FREIGHT CHARGES<br>INCLUDING SERVICE<br>TAX) @ _____% OF<br>TOTAL EX-WORKS<br>(INR) | TOTAL F.O.R SITE<br>PRICE<br>(INR) |
| h.                                                                           | Control logic power supply fuses, MCB,MCCB, at each current rating required for the project.                                             | 20% spare for each type/Model                                                                   | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| i.                                                                           | Electronic cards of each type used for each type of Servers supplied with any control system                                             | Ten (10) percent or 2 no. (Whichever is more)                                                   | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| j.                                                                           | Electric to pneumatic converters of each type utilized with automatic control system using pneumatic drives                              | Ten (10) percent of each type or a minimum of one of each type, whichever is more.              | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| k.                                                                           | Data highway cable with adequate connectors of each type                                                                                 | 200 mts. Each                                                                                   | Set     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| l.                                                                           | Prefab cable connectors                                                                                                                  | 10% or 5 nos (whichever is more) of each type of Installed                                      | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| m.                                                                           | Cubicle power supply power supply modules                                                                                                | Ten (10) percent or 5 nos (whichever is more) of Installed of each type and rating              | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| n.                                                                           | Interposing/coupling relays.                                                                                                             | Ten (10) percent Installed of each type and rating                                              | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| o.                                                                           | Ethernet Switches, Routers & other communication hardware                                                                                | 10% of qty Installed of each type or a minimum of 2 numbers from each model, whichever is more. | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| p.                                                                           | Sensors with special cables, Power supply modules, Relay, Interface Module, and electronic modules used for vibration monitoring system. | 10% of qty installed or Five no. (Whichever is more) of each type)                              | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |

| PRICE FORMAT - FOR INDIAN BIDDERS<br>ANNEXURE-II<br>LIST OF MANDATORY SPARES |                                                                                                   |                                                        |         |                                                   |                                                    |                                                                        | Doc No:                                                                                      | PE-TS-412-158-A001                                                                  |                                    |
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|                                                                              |                                                                                                   |                                                        |         |                                                   |                                                    |                                                                        | Rev No:                                                                                      | 0                                                                                   |                                    |
|                                                                              |                                                                                                   |                                                        |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| NAME OF PROJECT:                                                             |                                                                                                   | 2X660 MW ENNORE SEZ STPP                               |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| NAME OF PACKAGE:                                                             |                                                                                                   | PRE TREATMENT PLANT                                    |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| TENDER ENQUIRY NO.                                                           |                                                                                                   | PE/PG/EN1/E-5512/2016                                  |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| TECHNICAL SPECIFICATION:                                                     |                                                                                                   | PE-TS-412-158-A001                                     |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| S. N.                                                                        | DESCRIPTION                                                                                       | UNIT                                                   | QTY     | UNIT EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | TOTAL EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | Excise Duty (NIL<br>AGAINST<br>EXEMPTION<br>CERTIFICATE AS<br>PER SCC) | CST @ .....% Against<br>C-form & E1/E2 or<br>VAT<br>@.....% Whichever is<br>applicable (INR) | FREIGHT CHARGES<br>INCLUDING SERVICE<br>TAX) @ .....% OF<br>TOTAL EX-WORKS<br>(INR) | TOTAL F.O.R SITE<br>PRICE<br>(INR) |
| q.                                                                           | RJ 45 connector with box of each type                                                             | Twenty (20) percent or 2 no. (Whichever is more)       | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| r.                                                                           | Hooters, Buzzers, Cooling fans of each type.                                                      | Ten (10) percent or 2 no. (Whichever is more)          | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| s.                                                                           | Interface cables                                                                                  | 2 sets of each type/model                              | Sets    |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| t.                                                                           | Power supply modules (AC to DC convertors)                                                        | 10% or Five no. (Whichever is more) of each type/model | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| 12                                                                           | Relay based Control Panels                                                                        |                                                        |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| a.                                                                           | LEDs for indicating lights                                                                        | 10% of qty installed.                                  | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| b.                                                                           | Control circuit fuses/MCB/MCCB/ Semiconductor Fuses                                               | 300% of installed of each type, current rating.        | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| c.                                                                           | Relays modules & contactors.                                                                      | 20% spare of qty Installed of each type & rating.      | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| 13                                                                           | Alarm Annunciation System                                                                         |                                                        | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| a.                                                                           | logic modules, group card modules, power supply modules, Hooters and any other electronic module. | 20% spares of each type installed                      | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| b.                                                                           | un-engraved window boxes complete with LED etc.                                                   | 5% spares of each size installed                       | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| c.                                                                           | LEDs for annunciation facia windows and LEDs box assemblies offered for the project               | 20% of qty installed                                   | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| d.                                                                           | Annunciator hooter                                                                                | One (1) No. of each type                               | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| 14                                                                           | Un-interrupted Power Supply System and DC Control Power Supply System                             |                                                        |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |

| PRICE FORMAT - FOR INDIAN BIDDERS<br>ANNEXURE-II<br>LIST OF MANDATORY SPARES |                                                                                                                                                                                                            |                                                                                  |         |                                                   |                                                    |                                                                        | Doc No:                                                                                      | PE-TS-412-158-A001                                                                  |                                    |
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|                                                                              |                                                                                                                                                                                                            |                                                                                  |         |                                                   |                                                    |                                                                        | Rev No:                                                                                      | 0                                                                                   |                                    |
|                                                                              |                                                                                                                                                                                                            |                                                                                  |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| NAME OF PROJECT:                                                             |                                                                                                                                                                                                            | 2X660 MW ENNORE SEZ STPP                                                         |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| NAME OF PACKAGE:                                                             |                                                                                                                                                                                                            | PRE TREATMENT PLANT                                                              |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| TENDER ENQUIRY NO.                                                           |                                                                                                                                                                                                            | PE/PG/EN1/E-5512/2016                                                            |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| TECHNICAL SPECIFICATION:                                                     |                                                                                                                                                                                                            | PE-TS-412-158-A001                                                               |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| S. N.                                                                        | DESCRIPTION                                                                                                                                                                                                | UNIT                                                                             | QTY     | UNIT EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | TOTAL EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | Excise Duty (NIL<br>AGAINST<br>EXEMPTION<br>CERTIFICATE AS<br>PER SCC) | CST @ .....% Against<br>C-form & E1/E2 or<br>VAT<br>@.....% Whichever is<br>applicable (INR) | FREIGHT CHARGES<br>INCLUDING SERVICE<br>TAX) @ _____% OF<br>TOTAL EX-WORKS<br>(INR) | TOTAL F.O.R SITE<br>PRICE<br>(INR) |
| 14.1                                                                         | As per Manufacturer's Recommendation for Three Years Continuous Operation or minimum quantities indicated as below (whichever is more)                                                                     |                                                                                  |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| a.                                                                           | Fuses/Semiconductor Fuses                                                                                                                                                                                  | 300% of installed of each type, current rating with each panel /board            | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| b.                                                                           | Miscellaneous parts for the power supplies such as SCRS, transistors, resistors, diodes, light bulbs, static switches , blocking diodes etc                                                                | Minimum of 10% or atleast two (which ever is more) of each type                  | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| c.                                                                           | Battery cells complete with contactor,cover plates etc                                                                                                                                                     | 10% of qty installed                                                             | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| d.                                                                           | Electronic Modules like Rectifier control card, inverter control card, Driver card, IGBT Module, DC-DC converter card or any other card as listed in approved BOM for UPS, AC supply & 24 V DC supply etc. | 1 Set of each type & rating                                                      | Set     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| e.                                                                           | Miniature Circuit breakers for AC and DC supply.                                                                                                                                                           | 20 % of installed or 10 Nos of each type (which ever is more) for ACDB and DCDB. | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| f.                                                                           | Digital/analog panel meters/indicators                                                                                                                                                                     | 5% or 2 no. of each type (whichever is more)                                     | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| g.                                                                           | CT's, CVT's VT's chokes, AC/DC isolators, contactors, timers, relays.                                                                                                                                      | 10% or 2 nos. of each type and rating, (whichever is more)                       | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| i.                                                                           | Following accessory equipment for the battery shall be furnished :                                                                                                                                         | Two Sets                                                                         | Set     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |

| PRICE FORMAT - FOR INDIAN BIDDERS<br>ANNEXURE-II<br>LIST OF MANDATORY SPARES |                                                                                                             |                                                                                                                                                                                             |         |                                                   |                                                    | Doc No:                                                                | PE-TS-412-158-A001                                                                           |                                                                                     |                                    |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|
|                                                                              |                                                                                                             |                                                                                                                                                                                             |         |                                                   |                                                    | Rev No:                                                                | 0                                                                                            |                                                                                     |                                    |
|                                                                              |                                                                                                             |                                                                                                                                                                                             |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| NAME OF PROJECT:                                                             |                                                                                                             | 2X660 MW ENNORE SEZ STPP                                                                                                                                                                    |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| NAME OF PACKAGE:                                                             |                                                                                                             | PRE TREATMENT PLANT                                                                                                                                                                         |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| TENDER ENQUIRY NO.                                                           |                                                                                                             | PE/PG/EN1/E-5512/2016                                                                                                                                                                       |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| TECHNICAL SPECIFICATION:                                                     |                                                                                                             | PE-TS-412-158-A001                                                                                                                                                                          |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| S. N.                                                                        | DESCRIPTION                                                                                                 | UNIT                                                                                                                                                                                        | QTY     | UNIT EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | TOTAL EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | Excise Duty (NIL<br>AGAINST<br>EXEMPTION<br>CERTIFICATE AS<br>PER SCC) | CST @ .....% Against<br>C-form & E1/E2 or<br>VAT<br>@.....% Whichever is<br>applicable (INR) | FREIGHT CHARGES<br>INCLUDING SERVICE<br>TAX) @ .....% OF<br>TOTAL EX-WORKS<br>(INR) | TOTAL F.O.R SITE<br>PRICE<br>(INR) |
|                                                                              | a) Cell lifting facilities                                                                                  |                                                                                                                                                                                             |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
|                                                                              | b) Assembly wrenches                                                                                        |                                                                                                                                                                                             |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
|                                                                              | c) Vent plug hydrometer d)<br>Vent plug thermometer                                                         |                                                                                                                                                                                             |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
|                                                                              | e) Supply of corrosion-<br>preventive grease.                                                               |                                                                                                                                                                                             |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
|                                                                              | f) 10% spare cells.                                                                                         |                                                                                                                                                                                             |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| j.                                                                           | Electronic modules of<br>each type & rating for UPS<br>and DC control power<br>supply system.               | One set of with each set<br>consisting of at least<br>one number of each<br>type of electronic module<br>for inverters, chargers,<br>static switch, stabiliser etc.<br>as per approved BOM. | Set     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| k.                                                                           | MCCB for UPS & 24 V DC<br>charger panels, ACDB,<br>DCDB.                                                    | 20 % of installed or 5<br>Nos of each type (which<br>ever is more)                                                                                                                          | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| 15                                                                           | Erection hardware                                                                                           |                                                                                                                                                                                             |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
|                                                                              | Instrument valves                                                                                           | Ten (10) percent of each<br>type & Size installed                                                                                                                                           | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
|                                                                              | Condensate pots of each<br>type & Size installed                                                            | Ten (10) percent of total<br>number of Installed or<br>four numbers whichever is<br>higher .                                                                                                | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
|                                                                              | Manifold                                                                                                    | Ten (10) percent of each<br>type & Size installed                                                                                                                                           | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
|                                                                              | Fittings                                                                                                    | Ten (10) percent of each<br>type & Size installed                                                                                                                                           | Number. |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| 16                                                                           | Mandatory Spares for<br>Control valves, Power<br>Cylinder, Control<br>Dampers, Actuators and<br>Accessories |                                                                                                                                                                                             |         |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |

| PRICE FORMAT - FOR INDIAN BIDDERS<br>ANNEXURE-II<br>LIST OF MANDATORY SPARES |                                                                                                                                                     |                          |     |                                                   |                                                    |                                                                        | Doc No:                                                                                      | PE-TS-412-158-A001                                                                  |                                    |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----|---------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|
|                                                                              |                                                                                                                                                     |                          |     |                                                   |                                                    |                                                                        | Rev No:                                                                                      | 0                                                                                   |                                    |
|                                                                              |                                                                                                                                                     |                          |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| NAME OF PROJECT:                                                             |                                                                                                                                                     | 2X660 MW ENNORE SEZ STPP |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| NAME OF PACKAGE:                                                             |                                                                                                                                                     | PRE TREATMENT PLANT      |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| TENDER ENQUIRY NO.                                                           |                                                                                                                                                     | PE/PG/EN1/E-5512/2016    |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| TECHNICAL SPECIFICATION:                                                     |                                                                                                                                                     | PE-TS-412-158-A001       |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| S. N.                                                                        | DESCRIPTION                                                                                                                                         | UNIT                     | QTY | UNIT EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | TOTAL EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | Excise Duty (NIL<br>AGAINST<br>EXEMPTION<br>CERTIFICATE AS<br>PER SCC) | CST @ .....% Against<br>C-form & E1/E2 or<br>VAT<br>@.....% Whichever is<br>applicable (INR) | FREIGHT CHARGES<br>INCLUDING SERVICE<br>TAX) @ _____% OF<br>TOTAL EX-WORKS<br>(INR) | TOTAL F.O.R SITE<br>PRICE<br>(INR) |
| i)                                                                           | Following spares shall be furnished for control valves, Power Cylinder, Control Dampers as applicable.                                              |                          |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| a.                                                                           | One set of spare control valve stem packing for each control valve.                                                                                 |                          |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| b.                                                                           | Two moulded rubber diaphragms for each control valve.                                                                                               |                          |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| c.                                                                           | One sets of each of O-rings and rubber gaskets for each control valve.                                                                              |                          |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| d.                                                                           | 100 percent qty. of lubricants for gaskets for each control valve on one year consumption basis.                                                    |                          |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| e.                                                                           | 2 sets of limit switches and 1 set of valve positioner for each control valve.                                                                      |                          |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| f.                                                                           | 20 percent of position transmitter (4-20mA) for total qty. of control valve.                                                                        |                          |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| g.                                                                           | One (1) set of valve trims (such as plug, stem, seat ring /cage, guide bushing, stem lock pin, packing retaining ring, etc) for each control valve. |                          |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| h.                                                                           | One completes actuator of each type or min 10% for each type and size whichever is more.                                                            |                          |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |
| i.                                                                           | 20 percent of Solenoid valves or min 2 no. of each type for total qty. of control valves.                                                           |                          |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                     |                                    |

| PRICE FORMAT - FOR INDIAN BIDDERS<br>ANNEXURE-II<br>LIST OF MANDATORY SPARES                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |     |                                                   |                                                    |                                                                        | Doc No:                                                                                      | PE-TS-412-158-A001                                                                 |                                    |
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|                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |     |                                                   |                                                    |                                                                        | Rev No:                                                                                      | 0                                                                                  |                                    |
| NAME OF PROJECT:                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2X660 MW ENNORE SEZ STPP |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| NAME OF PACKAGE:                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PRE TREATMENT PLANT      |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| TENDER ENQUIRY NO.                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PE/PG/EN1/E-5512/2016    |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| TECHNICAL SPECIFICATION:                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PE-TS-412-158-A001       |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| S. N.                                                                                                                                                                                                                                                                   | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | UNIT                     | QTY | UNIT EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | TOTAL EX-<br>WORKS PRICE<br>INCLUDING P&F<br>(INR) | Excise Duty (NIL<br>AGAINST<br>EXEMPTION<br>CERTIFICATE AS<br>PER SCC) | CST @ .....% Against<br>C-form & E1/E2 or<br>VAT<br>@.....% Whichever is<br>applicable (INR) | FREIGHT CHARGES<br>INCLUDING SERVICE<br>TAX) @.....% OF<br>TOTAL EX-WORKS<br>(INR) | TOTAL F.O.R SITE<br>PRICE<br>(INR) |
| j                                                                                                                                                                                                                                                                       | 20% of I to P converters,<br>Pressure regulators.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| 17                                                                                                                                                                                                                                                                      | Bidder to supply 10% or<br>1 no. (whichever is more)<br>of each type of<br>sensor/instrument,<br>instrumentation/mechanical<br>fittings etc for any other<br>electronic system, feeder<br>control cabinets, hydrastep<br>(EWLI), Vibration Monitoring<br>System, CCTV, C&I Lab<br>Instruments, On line Carbon<br>in Ash analyser system, On<br>line Coal mass flow/speed<br>measurement system, On<br>line secondary air flow<br>measurement system Mass<br>Flow meter, Solid flow<br>meter, 3 D Acoustic type<br>level transmitters, Nucleonic<br>& non nucleonic density<br>transmitter etc. |                          |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| Note: Mandatory spares listed above is bare minimum requirement. In case any additional mandatory spares requirement is covered elsewhere in the tender specification apart from specified above, same shall be deemed to have been covered in bidders scope of supply. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| Particulars of bidder / authorised representative                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
|                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |
| Name                                                                                                                                                                                                                                                                    | Designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Signature & Company Seal |     |                                                   |                                                    |                                                                        |                                                                                              |                                                                                    |                                    |