

To be given on Letter head of Bidder

Ref:

Date:

To,

Bharat Heavy Electricals Limited
PEM, PPEI Building,
Plot No 25, Sector -16A
Noida (U.P)-201301

Reference:

Tender Enquiry No-.....

Offer No-.....

Name of Package:

Order no. F. No. 6/18/2019-PPD dt. 23.07.2020 issued by Ministry of Finance, Department of Expenditure Public Procurement Division.

Dear Sir,

I have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India. I hereby certify that Company name, is not from such a country and is eligible to be considered.

Thanking You,

Yours faithfully,

(Company director seal and signature)

Letter head of Company

Ref.....

Date.....

To,

Bharat Heavy Electricals Limited
PEM, PPEI Building, Plot No 25,
Sector -16A, Noida (U.P)-201301

Subject: - Certification regarding local content

Reference: Tender Enquiry No-.....

Name of Package:

Dear Sir,

We hereby certify that items offered by us for (package name) for.....(Project Name) have local content of%.

Further, it is also certified that the local content percentage (%) certified above is in line with definition of local content given in point no 2 of Public Procurement (Preference to Make in India), Order 2017-revision, having ref. no. P-45021/2/2017-PP(BE-II) dated 04.06.2020 & 16.09.2020 and we qualify as Class-I supplier.

We further confirm that address of the location at which the local value addition is made will be as follows:

1.
2.

Thanking You,

..... (authorized signatory of company)

..... (firm name)

authorized signatory

of company

PEM/PG-I BHEL, NOIDA
SPECIAL CONDITIONS OF CONTRACT (REV.00) DATED 28-04-2021
1X 660 MW SAGARDIGHI TPP EXTENSION UNIT 5



These Conditions shall be read and construed along with General Condition of Contract enclosed along with the tender enquiry. In case of any conflict or inconsistency, the condition given in special condition of contract shall prevail over the general condition of the contract and its corrigenda, if any.

- 1.0 **Project Name** : Sagardighi Thermal Power Extension Project Phase- III, Unit 5 [1X660MW, Supercritical]
- 2.0 **Customer** : West Bengal Power Development Corporation Limited.
- 3.0 **Consignee-Ship to Address {to be mentioned in LR/RR, consignment note}** : Construction Manager-BHEL Site office Unit-V
Sagardighi Thermal Power Project
P.O. Manigram,
District - Murshidabad, PIN:742237, West Bengal, India
- 4.0 **Consignee/Buyer's Name (Bill To) To be mentioned in Supplier's Invoice** : For Supply Packages: (Purchase order by BHEL-PEM):
Bharat Heavy Electricals Limited
Power Sector – Project Engineering Management
PPEI Building, Plot No.25, Sector-16A,
Noida-201301 (Uttar Pradesh)
GSTIN No. – 09AAACB4146P2ZC
- For Turnkey Packages: (LOA by BHEL-PEM and PO by BHEL-PSER, Sagardighi site):
Construction manager, BHEL Site office,
1X660 MW WBPDCS SAGARDIGHI TPP EXTENSION UNIT 5
P.O. Manigram, District - Murshidabad, PIN:742237, West Bengal, India
BHEL PSER GSTIN No.- 19AAACB4146P1ZC
- 5.0 **BHEL Site Office Address** : Construction Manager
BHEL site office Unit-V
Sagardighi Thermal Power Project
P.O. Manigram, District - Murshidabad, PIN:742237, West Bengal, India
- 6.0 **Customer Address** : Deputy General Manager (I/C projects)
Sagardighi Thermal Power Project
P.O. Manigram,
District - Murshidabad, PIN:742237, West Bengal, India
- 7.0 **Mode of Dispatch** : By Rail/Road on Door Delivery and freight Pre-Paid Basis.
Nearest Railway Station :- Manigram
- 8.0 **Road Permit/Way Bill Required** : Yes. Supplier to generate the e-waybill at their end and furnish the scanned copy of e-waybill along with dispatch document to BHEL immediately on dispatch. In case of default, supplier shall be held responsible.
- 9.0 **Project Consultant** : DCPL
- 10.0 **Material Inspection Procedure** : All equipment's/items under inspection category shall be sub categorized as follows:
- CAT-A: QAP will be submitted to WBPDCS / DCPL for approval. Inspection activities will be jointly witnessed by BHEL QC / TPIA and WBPDCS/TPIA of WBPDCS as per approved QAP witness/hold points.
- CAT-B: QAP will be submitted to WBPDCS / DCPL for approval. Inspection shall be carried out by BHEL QC/TPIA only.
- CAT-C: These are non QAP items and shall be accepted by BHEL QC/ TPIA on the basis of review of manufacturer's test certificate / certificate of compliance (COC) / internal

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inspection report/ guarantee certificate etc. issued by the equipment manufacturer itself confirming all the technical and contractual requirements. For these items, submission of QAP and approval by WBPDCCL are not envisaged. However, quality of these items must be ensured through respective BHEL QC.

Vendor to give five (05) days advance notice for stage inspection and ten (10) days for final inspection.

Details for Inspection procedure involving the TPIA shall be intimated later by BHEL/ WBPDCCL.

- 11.0 **Clearance for Dispatch of materials** : MDCC will be issued by BHEL/WBPDCCL.
- 12.0 **Prior Dispatch intimation to BHEL Site Office and Underwriters** : YES
NOTE :- One set consisting dispatch documents indicating the items dispatched (with their gross and net weights) and after informing the underwriters about the value of consignment and dispatch details to be sent to following
a) BHEL Site Office
b) BHEL- PEM, PPEI - Noida(U.P)
c) Insurance Co.
It is Vendor's responsibility to ensure availability of trucks well in advance where consignment will require more number of trucks to be deployed for dispatch. No concession for non-availability of trucks, after having given dispatch clearance shall be admissible.
- 13.0 **Transit Insurance** : By BHEL (vendor to intimate the underwriters quoting the insurance policy no. as below)
- 14.0 **Insurance Policy No. For intimation to Underwriters (Contact Person)** : Policy details and number shall be informed later
- 15.0 **a. Customer GST No.** : 19AABCT3027C1ZQ
b. BHEL-PEM GST No. : 09AAACB4146P2ZC
c. BHEL PSER GST No. : 19AAACB4146P1ZC
- 16.0 **Unloading at site** : BY BHEL site for supply packages.
(The supplier shall give LR wise Gross Wt. Of the consignment for the purpose of handling the consignment by BHEL site loading/unloading Contractor.)
By Vendor for turnkey packages (Scope consists of supply and Erection & Commissioning).

NOTE: - Please note that unloading of materials at site shall take at least 3-4 days. As such, transporters to be advised suitably before dispatch of materials in this regard. Also, no claim on a/c of delay in unloading shall be entertained.
- 17.0 **Storage and handling at site** : By BHEL site for supply packages

By Vendor for Turnkey packages* (Scope consists of supply and Erection & Commissioning).

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*Any shortages or damages during unloading and handling at site, including at the time of erection and commissioning, shall be made good by the Seller/ Contractor at his risk and cost, to meet the project schedule. In case of faults/ discrepancies in any material, component, sub-assembly, assembly, etc., the same shall be supplied/ replenished free of cost to enable the equipment to be put to service.

- 18.0 **Movement of Material within Site** : By BHEL/BHEL appointed agency for supply packages
By Vendor for Turnkey packages Scope consists of supply and Erection & Commissioning).
No movement of loose materials shall be allowed. Items are to be properly packed to ensure proper and safe transportation & storage at site.
- 19.0 **Paying Authority** : For packages where PEM will issue the Purchase Order: BHEL PEM will be the paying authority.
For packages where PEM will issue only the LOA and Purchase Order shall be issued by PSER: BHEL Sagardighi Site /PSER will be the paying Authority.
- 20.0 **Documents Required (for supply + freight payment)** : Original + 2 Copies of the following documents: -
1. Invoice checklist duly signed and stamped
2. Invoice
3. Receipted LR (signed & stamped)/ confirmation from site regarding receipt of packages/ Boxes original/ copy)
4. Packing List – Clearly showing number of packages, gross weight net weight.
5. Copy of BHEL MDCC
6. Guarantee Certificates as per GCC.
7. Copy of insurance Intimation.
8. PVC Calculation, and copy of all applicable indices, if PVC applicable as per NIT
9. Transporters document indicating the freight amount
10. Document as proof of Declaration by supplier that GST payment has been made on GST portal to be submitted for GST claim.
11. For claiming PVC if applicable as per NIT, invoice to be submitted on PO unit rates and PVC to be claimed as separate debit/credit note. The debit/ credit note to be submitted along with the main invoice.
- 21.0 **Documents Required (for MRC payment)** Original + 2 Copies of the following documents:-
a. Invoice
b. Copy of MRC
c. Proof of submission of final documents (6 sets)
d. O&M Manuals (2CD's + 15 Hardcopies)
NOTE:-
1. Customer or his representative will be involved for inspection as per approved Quality Plan.
2. MDCC will be issued by BHEL in line with approved BBU.
3. The supplier during inspection of Main supplies & Mandatory Spares by BHEL/BHEL TPIA, WBPDC/ WBPDC-Nominee shall obtain separate MDCC for Main Supplies & Separate MDCC for Mandatory Spares in line with the approved Billing Break Up.
4. It is deemed that copy of complete set of dispatch documents along with necessary TCs will be submitted to BHEL on the date of dispatch.
- 22.0 **Material Certificate(MRC)** : Responsibility to obtain MRC from customer at site
a) For Supply Packages:- For supply packages BHEL- PEM will arrange MRC from BHEL Site. However supplier/contractor shall provide support for verification of material at site, if required.
b) For Turnkey Packages:- By Vendor, where Supply/ Erection and commissioning is under Vendor's scope.

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- 23.0 **Dispatch markings** : Each box shall be marked with Capital Letters in "Red" indicating : Main Supply OR Commissioning spare OR Mandatory Spare for 1X 660 MW SAGARDIGHI TPP EXTENSION UNIT 5, P.O. Manigram, District - Murshidabad, PIN:742237, West Bengal, India Each package/Drum delivered under the Contract shall be marked by Supplier as per details listed below and such marking must be distinct and in English Language (all previous irrelevant markings being carefully obliterated) for purposes of identification. Each and every box(package) shall be marked with following:-
- 1) Name and address of the consignee.
 - 2) Project Reference.
 - 3) Name of Supplier
 - 4) P.O. reference no. along with package name.
 - 5) Packing No. (1/10, 2/10, 3/10 when there are 10 packages for one consignment)
 - 6) The Gross weight and net weight of the package.
- Besides above necessary, packing shall bear a special marking "TOP", "BOTTOM", "DO NOT TURN OVER", "DEEP DRY", "HANDLE WITH CARE", etc.
- IMPORTANT**
- Two copies of respective standard manufacturer's erection instruction /operation manual shall be provided for immediate reference by BHEL site.

The Copy of complete Packing list for the consignment must be put inside the Box/Boxes.

12 copies of supplier's Erection/ Instruction manuals to be given to the BHEL, PEM, PPEI-Noida and 3 copies to BHEL, PSER, Sagardighi site within 30 days of dispatch for handing over to Customer/BHEL site.

Items like pumps, Valves, Hoists, Cranes, etc. shall essentially have O&M Manuals and E&C guidelines duly enclosed in the packing box.

- 24.0 **Commissioning Spares** : The commissioning spares shall be properly packed separately in separate box and each spare shall be properly tagged giving details i.e. dispatch (to match the description given in the packing slip) to facilitate their proper identification. One Copy of Packing list must be put inside the Box.

- 25.0 **Mandatory Spares** : Supplies of spares will be separate from main supply and separate manufacturing clearance shall be given for mandatory spares. The Mandatory spares shall be properly packed separately in separate boxes & boxes should be painted in red indicating Mandatory Spares in bold letters and each spare shall be properly tagged giving details i.e. item number of the equipment in line with the WBPDC approved BBU for Mandatory spares & Number per item (to match the description given in the packing slip) to facilitate their proper identification by ultimate customer M/s WBPDC. One Copy of Packing List must be put inside the BOX along with Manufacturing drawing no. reference, Catalogue reference etc.

Note :- MDCC for mandatory Spares shall be issued only after receipt of detailed list of mandatory spares & photographs before final packing clearly showing mandatory spares with due tagging as per packing list (to be sent over mail/CD). Separate dispatch clearance will be issued for the mandatory spares in line with availability of customer's stores at site.

- 26.0 **Statutory Clearance and License (For turnkey packages)** : Bidder has to arrange and obtain all statutory clearances and required licenses at their own cost without any financial implication on BHEL.

- 27.0 **Health, Safety and Environment (HSE) (For turnkey packages)** : The bidder will comply with HSE (Health, Safety & Environment) requirements of BHEL and follow all applicable Operational Control Procedures (OCPs) within quoted rate/ price.
Refer Document Number: HSEP:14-SGD Rev.: 02, DATE: 01.09.2020. Refer Document

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Title: Health, Safety and Environment Plan for Site Operation by Subcontractors for Sagardighi.

28.0 Responsibilities with regard to employment of Labour etc. (For turnkey packages)

: Recruitment of Local Labour:

Local labours shall be engaged for unskilled work. Preference may also be given for appointment of local people in semiskilled and skilled categories, if such suitable persons are available.

Labour Laws and Local Regulations:

The Contractor shall abide by the prevailing labour laws and shall have to obtain labour license from the appropriate authority as per the law at his cost and shall indemnify the Purchaser about his financial and other obligations arising out of labours/workers employed by him. On obtaining the labour license, the Contractor at appropriate time shall submit certified photocopy of the same to the Purchaser. The Contractor and its sub-contractor (s) shall possess valid PF & ESI Code.

Wages and Working Hours:

The Contractor shall pay rates of Wages and observe hours and conditions of labour not less favourable than those established for the trade or industry in the district where the work is carried out but not less than the applicable minimum wages or by machinery of negotiation or arbitration to which the parties are organizations of employers and trade union's representatives respectively of substantial proportions of the employers and workers engaged in the trade or industry in the district. In the absence of any rates of Wages, hours or conditions of labour so established the Contractor shall pay rates of wages and observe hours and conditions of labour which are not less favorable than the general levels of wages and hours and conditions observed by other contractor whose general circumstances in the trade or industry in which he is engaged are similar.

Contractor to furnish return of labour employed:

The Contractor shall, if required by the Engineer, deliver to the Engineer or to his office a return in such form and at such intervals as the Engineer may prescribe showing in detail category-wise number of classes of labour from time to time employed by the Contractor on the Site and such information respecting construction machinery as the Engineer may require.

The Contractor shall make his own arrangements for the engagement of all labour and provide on the Site in so far as the Contract otherwise provides, for the transport, housing, feeding and payment thereof.

The Contractor shall, so far as is reasonably practical, having regard to local conditions, provide on the Site, to the satisfaction of the Engineer an adequate supply of drinking and other water for the use of his staff and labour.

Other Requirements:

- a) The Contractor shall not, otherwise than in accordance with the Statutes, Ordinances and Government Regulation or Orders for the time being in force, import, sell, give, barter or otherwise dispose of any alcoholic liquor, or drugs, or permit or suffer any such importation, sale, gift, barter or disposal by his sub-contractor(s), agents of employees.
- b) The Contractor shall not give, barter or otherwise dispose of to any person or persons any arms or ammunition of any kind or permit the same as aforesaid.
- c) The Contractor shall in all dealings with labour in his employment have a due regard to all recognized festivals, days of rest and religious or other customs.

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- d) In the event of any outbreak of illness of an epidemic nature, the Contractor shall comply with and carry out such regulations, orders and requirements as may be made by the Government, or the local municipal or sanitary authorities for the purpose of dealing with and overcoming the same.
- e) The Contractor shall at all times take all reasonable precautions to prevent any unlawful riotous or disorderly conduct by or amongst his employees and for the preservation of peace and protection of persons and property in the neighborhood of the Site against the same.
- f) The Contractor shall be responsible for observance by his sub-contractor(s) of the foregoing provisions.

Contractor shall deploy only qualified and experienced engineers/ supervisors. They shall have professional approach in executing the work.

The contractor's supervisory staff shall execute the work in the most professional manner in the stipulated time. Accuracy of work and aesthetic finish are essential part of this contract. They shall be responsible to ensure that the assembly and workmanship conform to dimensions and tolerances given in the drawings/instructions given by BHEL engineer from time to time.

The supervisory staff employed by the contractor shall ensure proper outturn of work and discipline on the part of the labour put on the job by the contractor. Also in general they should see that the works are carried out in a safe and proper manner and in coordination with other labour and staff employed directly by BHEL or other contractors of BHEL or BHEL 's client.

If at any time, it is found that the contractor is not in a position to deploy the required engineers/supervisors/workmen due to any reason, BHEL shall have the option to make alternate arrangements at the contractor's risk and cost.

29.0 Type of Project

Project Import Route (Non Mega)

30.0 Taxes and duties

- :
- i) Concessional Custom duty in line with the Essentiality certificate issued by customer shall be applicable for packages for which CIF content is available as per NIT.
 - ii) GST- CGST/SGST/IGST: as per GCC Rev 07 or further revisions of BHEL PEM GCC as applicable for the specific Tender enquiry.
 - iii) Vendor has to comply the BOCW norms as per details of activities noted vide relevant Annexure of NIT.

Information as per Annexure-1 shall be provided by supplier in the GST compliant invoice.

Vendor may collect TCS under section 206C(1H) of Income Tax Act,1961 if applicable. In case, vendor collects TCS under section 206C(1H) of Income Tax Act,1961, following compliance is required.

- a) TAN and PAN of vendor should appear in all invoices/claims. Copy of TAN /TCS registration is to be submitted.
- b) Amount of TCS and Assessable value on which TCS has been calculated should be specified clearly in the invoice.
- c) You shall be required to submit certificate of TCS in Form no. 270 within 15 days from the due date for furnishing the statement of tax collected at the source.

In case, you do not collect TCS under section 206C(1H) of Income Tax Act, 1961, following declaration is to be submitted alongwith each invoice: -

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"I/We hereby declare that I/We are not required to collect TCS" under section 206C(1H) of Income Tax Act,1961, on this bill.
In event of failure to comply with the provisions of the Act, or proper certificate not issued, or if tax collected but not remitted to the Government, or for any other reason and thereby causing loss to BHEL, the same shall be recoverable from the vendor with applicable interest.
Vendor shall comply with all statutory amendment/notifications in this respect

**31.0 Construction power &
Construction water**

Construction power shall be provided on free of charge. Construction water shall be provided free of cost. However, metering arrangement shall be established for measuring electricity & water consumption.

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ANNEXURE -1 TO SCC

Excerpts from Chapter VI for compliance of GST Invoice as per Rule 46
TAX INVOICE, CREDIT AND DEBIT NOTES

46. Tax invoice.- Subject to rule 54, a tax invoice referred to in section 31 shall be issued by the registered person containing the following particulars, namely,-
- (a) name, address and Goods and Services Tax Identification Number of the supplier;
 - (b) a consecutive serial number not exceeding sixteen characters, in one or multiple series, containing alphabets or numerals or special characters- hyphen or dash and slash symbolised as "-" and "/" respectively, and any combination thereof, unique for a financial year;
 - (c) date of its issue;
 - (d) name, address and Goods and Services Tax Identification Number or Unique Identity Number, if registered, of the recipient;
 - (e) name and address of the recipient and the address of delivery, along with the name of the State and its code, if such recipient is un-registered and where the value of the taxable supply is fifty thousand rupees or more;
 - (f) name and address of the recipient and the address of delivery, along with the name of the State and its code, if such recipient is un-registered and where the value of the taxable supply is less than fifty thousand rupees and the recipient requests that such details be recorded in the tax invoice;
 - (g) Harmonised System of Nomenclature code for goods or services;
 - (h) description of goods or services;
 - (i) quantity in case of goods and unit or Unique Quantity Code thereof;
 - (j) total value of supply of goods or services or both;
 - (k) taxable value of the supply of goods or services or both taking into account discount or abatement, if any;
 - (l) rate of tax (central tax, State tax, integrated tax, Union territory tax or cess);
 - (m) amount of tax charged in respect of taxable goods or services (central tax, State tax, integrated tax, Union territory tax or cess);
 - (n) place of supply along with the name of the State, in the case of a supply in the course of inter-State trade or commerce;
 - (o) address of delivery where the same is different from the place of supply;
 - (p) whether the tax is payable on reverse charge basis; and
 - (q) signature or digital signature of the supplier or his authorized representative:
- (r) Quick Reference code, having embedded Invoice Reference Number (IRN) in it, in case invoice has been issued in the manner prescribed under sub-rule (4) of rule 48".

	PREPARED BY	CHECKED BY	REVIEWED BY	APPROVED BY
Name:	TARUN ARYA	ASHUTOSH SHARMA	HASEEN AHMED	B. L. BEDI
Designation	DY MANAGER /PEM (PG I)	DY MANAGER /PEM (PG I)	SR. MANAGER /PEM (PG I)	AGM(DH)/ PEM (PG I&II)
Signature				
Date				

NAME OF BIDDER :	
NAME OF PROJECT:	1X660 MW SAGARDIGHI TPP EXTENSION UNIT 5
NAME OF PACKAGE:	CONDENSATE POLISHING UNIT
TECHNICAL SPECIFICATION:	PE-TS-445-155-A001 REV. 01
TENDER ENQUIRY NO :	PE/PG/SGI/E-6719/2021 Dated 06.08.2021

S. No.	DESCRIPTION	UNIT	QTY	Total Ex-works Price (INR)	Freight in %	Freight in INR	Total FOR Site Price Including Freight but excluding GST (INR)	Total FOR Site Price Including Freight but excluding GST in Words
1.0	Total lump sum firm price for SUPPLY PART, SERVICES PART & MANDATORY SPARES 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 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, erection & commissioning, trial run at site and carrying out performance guarantee tests at site , training of customer/ client O&M staff & 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 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 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					
2.2	Total lump sum firm price for the SERVICES PART, comprising of unloading, handling, transportation & storage at site, in site transportation, assembly, erection & commissioning, final painting at site, trial run at site and carrying out performance guarantee tests at site, training of customer/ client O&M staff & 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					
2.3	Total lumpsum firm price for Mandatory spares comprising of manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, forwarding, proper packing, shipment, delivery at site & guarantee as per tender technical specification , amendment & agreements till placement of order. (Price break up of mandatory spares is to be furnished as per Annexure- I).	Lot	1					
2.4	Total lump sum firm price for ENGINEERING PART for project and package specified for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	Set	1					

Note:
1) The Engineering charges as mentioned above in S.No. 2.4 shall not be more than 2% of the total lumpsum value as per SI. No. 1.0 as per GCC
2) Please note that the complete engineering of the package is in the scope of bidder as per the tender requirement. However, for the payment purpose bidder to note that 50% of price as per sl. no. 2.4 shall be made against basic engineering (i.e. Preparation and submission of basic drawing/ documents as indicated in tender specification Section-I, Sub section-IA, Annexure-VII) and the remaining payment shall be made for the balance engineering part on pro-rata basis.

**ANNEXURE-I
LIST OF MANDATORY SPARES**

NAME OF PROJECT:		1X660 MW SAGARDIGHI TPP EXTENSION UNIT 5		
NAME OF PACKAGE:		CONDENSATE POLISHING UNIT		
TECHNICAL SPECIFICATION:		PE-TS-445-155-A001 REV. 01		
S. N.	Equipment	UNIT	Quantity	Total Ex-Works duly packed (INR)
1	Screens and Nozzles for the under drain system			
1.1	Activated Carbon Filter	%	15% of ACF Vessel	
1.2	Polisher Service Vessels	%	100% for one vessel of each	
2	Ion Exchange resins for makeup losses during first three (3) years of operation which have been guaranteed by the bidder. (But in any case the make-up quantity to be supplied by bidder shall not be less than the quantity considering as attrition loss of 3% per annum for cation resins and 12% per annum for Anion resins).	Lot	1 Lot	
3	Blowers for Regeneration and Service Vessel			
3.1	Bearings	Sets	1 Set for each type/ size/ ratings (one set means complete replacement for 1 no. of each type/ rating of blower)	
3.2	Impeller	Sets	1 Set for each type/ size/ ratings (one set means complete replacement for 1 no. of each type/ rating of blower)	
3.3	Electrical Spares as applicable as per the Electrical List		Applicable Item & Quantity same as indicated in Electrical list below.	
4	Horizontal Centrifugal Pumps			
4.1	Impeller complete Assembly	Sets	1 Set for each type/ size/ ratings (one set means complete replacement for 1 no. of each type/ rating of pump)	
4.2	Bearings for the pumps	Sets	1 Set for each type/ size/ ratings (one set means complete replacement for 1 no. of each type/ rating of pump)	
4.3	Shafts	Sets	1 Set for each type/ size/ ratings (one set means complete replacement for 1 no. of each type/ rating of pump)	
4.4	Shaft Sleeve of each type	Sets	1 Set for each type/ size/ ratings (one set means complete replacement for 1 no. of each type/ rating of pump)	
4.5	Casing wearing rings (if applicable)	Sets	1 Set for each type/ size/ ratings (one set means complete replacement for 1 no. of each type/ rating of pump)	
4.6	Impeller wearing rings (if applicable)	Sets	1 Sets for each type /size/ ratings (one set means complete replacement for 1 no. of each type/ rating of pump)	
4.7	Thrust Bearings (if applicable)	Sets	1 Set for each type/ size/ ratings (one set means complete replacement for 1 no. of each type/ rating of pump)	
4.8	Sleeve nuts and O-rings	Sets	1 Set for each type/ size/ ratings (one set means complete replacement for 1 no. of each type/ rating of pump)	

4.9	Gland & Gland Packing (if applicable)	Sets	2 Sets for each type/ size/ ratings (one set means complete replacement for 1 no. of each type/ rating of pump)	
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4.10	Fasteners	Sets	1 Set for each type/ size/ ratings (one set means complete replacement for 1 no. of each type/ rating of pump)
4.11	Complete Coupling (Pump and Motor)	Sets	1 Set for each type/ size/ ratings (one set means complete replacement for 1 no. of each type/ rating of pump)
4.12	Mechanical seal (if applicable)	Sets	1 Set for each type/ size/
4.13	Electrical Spares as applicable as per the Electrical List		Applicable Item & Quantity same as indicated in Electrical list below.
5	Complete Assembly of Metering (Dosing) Pumps & motor	Sets	1 Set for each type/ size/ rating.
6	Valves		
6.1	Check Valves	No.	1 No. for each type/ size/ rating.
6.2	Complete Set of On/ Off Valve with Pneumatic Actuator (including those having Diaphragm of different material)	No.	1 No. for each type/ size/ rating of valves.
6.3	Diaphragm Valve (including those having Diaphragm of different material)	No.	1 No. for each type/ size/ rating of valves
7	Field Instruments & Others as applicable as per the C&I List		Applicable Item & Quantity same as indicated in C&I list below.
8	415 Volt Motor		
8.1	Motor of each type and rating (Note : motors covered in mechanical spare items need not to be included here again) 10% of the installed quantity or minimum 1 number whichever be higher.	%	10% of the installed quantity or minimum 1 number whichever be higher.
8.2	End Shield Cover Driving & Non-Driving End	Sets	1 set for each type and rating of Motor
8.3	Heaters	Sets	2 sets for each type and rating of Motor
8.4	Bearings (DE and NDE) for each type and rating of motor	Sets	2 sets
8.5	Cooling Fan for all type and rating of LT motors	Set	One (1) set
8.6	Dust seals and gaskets for each type of motors	Set	1 Set
8.7	Motor Terminal Block	Nos.	1 no. for each type and rating of Motor
8.8	Complete Set of Coupling	Sets	1 set for each type and rating
9	Field Instruments		
9.1	Electronic Transmitters	Nos.	1 (One) no. complete set for each type and model/ range used in the system
i)	Pressure	Nos.	1 (One) no. complete set for each type and model/ range used in the system
ii)	Differential Pressure	Nos.	1 (One) no. complete set for
iii)	Level	Nos.	1 (One) no. complete set for
iv)	Speed	Nos.	1 (One) no. complete set for
v)	Flow Transmitter	Nos.	1 (One) no. complete set for
vi)	3-D Ultrasonic level Transmitter	Nos.	1 (One) no. complete set for each type and model/ range used in the system
9.2	Different type of Switches		
i)	Pressure Switch	Nos.	2 (two) no. of each type & model/ range used in the system
ii)	Differential Pressure Switch	Nos.	2 (two) no. of each type & model/ range used in the system
iii)	Level Switch	Nos.	2 (two) no. of each type &
iv)	Flow Switch	Nos.	2 (two) no. of each type & model/ range used in the system
v)	Temperature Switch	Nos.	2 (two) no. of each type & model/ range used in the system
vi)	Dust Detector	Nos.	1(one) no. of each type & model

9.3	Thermocouple	%	10% of each type and length used in one unit	
9.4	RTD	%	10% of each type and length used in one unit	
9.5	Thermo-well for both TC and RTD	Nos.	2 (Two) nos. for each type and rating/ length used in the system	
9.6	Solenoid Valve			

i)	Complete Solenoid Valve Assembly	Nos.	2 Nos. for each type and rating used in the system	
ii)	Coil (single or double coil type)	%	10% of total nos. used in the system or minimum 5 (five) Nos. whichever is more for each type and rating.	
9.7	Different types of Gauge			
i)	Pressure Gauge	%	10% of total nos. used in the system or minimum 1 (one) no. whichever is more for each type and range.	
ii)	Differential Pressure Gauge	%	10% of total nos. used in the system or minimum 1 (one) no. whichever is more for each type and range.	
iii)	Temperature Gauge	%	10% of total nos. used in the system or minimum 1 (one) no. whichever is more for each type and range.	
iv)	Magnetic Level Gauge	%	10% of total nos. used in the system or minimum 1 (one) no. whichever is more for each type and range.	
9.8	Air Filter Regulator including moisture separator complete set with pressure gauges	Nos.	10 nos.	
9.9	Rotameter	%	10% of total nos. used in the system or minimum 2 (Two) nos. whichever is more for each type, rating/ model and size used in the system	
9.10	Gauge Glass	Nos.	1 No. for each type and size	
9.11	Erection Hardware			
i)	Transmitter's Manifold	%	10% of total nos. used in the system or minimum 2 (Two) nos. whichever is more for each type, rating/ model and size used in the system.	
ii)	Impulse Line Root/Source valve	%	10% of total nos. used in the system or minimum 2 (Two) nos. whichever is more for each type, rating/ model and size used in the system.	
iii)	Impulse Line Isolation valve	%	10% of total nos. used in the system or minimum 4 (four) nos. whichever is more for each type, rating/ model and size used in the system.	
iv)	Impulse Line Drain valve	%	10% of total nos. used in the system or minimum 4 (four) nos. whichever is more for each type, rating/ model and size used in the system.	
v)	Impulse Line fittings	%	10% of total nos. used in the system or minimum 4 (four) nos. whichever is more for each	
vi)	Impulse Pipe	Nos.	Each type/ size 25 Nos.	
vii)	Copper/ SS Tube	Meters	Each type/ size 100 Mtrs	
viii)	Fittings for Copper/SS Tube	Meters	Each type/ size 100 Mtrs	
9.12	Conductivity Type Level Switch			
i)	Conductivity Ttype level Probes	%	10% of total nos. used in the system or minimum 4 (four) nos. whichever is more.	

ii)	Complete Electronics unit	Set	1 Set	
iii)	Isolating/Root Valve	Nos.	2 Nos.	
9.13	Cable This particular items shall be common for BTG , CHP and AHP areas.			

i)	Thermocouple Cable	Km.	3 (three) Kms. of each type, size & rating of Cables	
ii)	Control & Instrumentation Cable	Km.	3 (three) Kms. of each type, size & rating of Cables	
9.14	Cold Junction Compensation Boxes	%	10% of total nos. used in the system or minimum 2 (two) nos. for each type/ size whichever is	
9.15	Current/Voltage Transducers	Nos.	1 (one) no. each type/ rating used in the system	
9.16	MWatt/MVAR Transducer	Nos.	1 (one) no. each type/ rating used in the system	
9.17	Chlorine Leak Detector System			
i)	Sensor Unit (complete)	Nos.	2 Nos.	
ii)	Transmitter/Processing Unit (complete)	Nos.	2 Nos.	
10.0	SWAS			
10.1	Conductivity Analyser			
i)	Conductivity Sensor/cell for each type of Cell Constant	%	20% of the total no. used in the system or minimum 2 (two) nos.	
ii)	Conductivity Transmitter Complete Set	%	20% of the total no. used in the system or minimum 2 (two) nos. whichever is higher.	
10.2	pH Analyser			
i)	pH Sensor	%	20% of the total no. used in the system or minimum 2 (two) nos.	
ii)	pH Transmitter Complete Set	%	20% of the total no. used in the system or minimum 2 (two) nos. whichever is higher.	
iii)	Sensor recharger	%	20% of the total no. used in the system or minimum 2 (two) nos. whichever is higher.	
10.3	Sodium Analyser			
i)	Sodium Analyser Electrode	No.	1 (one) no.	
ii)	Critical Electronic spare part for Sodium Analyser/ Monitor	Nos.	1 (one) no. each type	
iii)	Reagent container	No.	1 (one) no.	
iv)	Refurbishment kit for sodium analyser	No.	1 (one) no.	
v)	Consumable kit/ Chemical Reagent for Sodium Analyser		For maintaining the system for 1 (one) Year continuous operation	

10.4	Silica Analyser			
i)	Critical Electronic spare part for Silica Analyser/ Monitor	Nos.	1 (one) no. each type	
ii)	Reagent container	No.	1 no.	

iii)	Cuvette assy for silica	No.	1 no.	
iv)	Pump motor for silica	No.	1 no.	
v)	Tube replacement kit	Set	1 set	
vi)	Fuses of each type	Nos.	2 nos. each	
vii)	Consumable kit/ Chemical Reagent for Silica Analyser		For maintaining the system for 1 (one) Year continuous operation	
10.5	Hydrazine Analyser			
i)	Critical Electronic spare part for Hydrazine Analyser/Monitor	Nos.	1 (one) no. each type	
ii)	Cell Recharge kit	No.	1 (one) no.	
iii)	Porus Disc	No.	1 (one) no.	
iv)	Seal rings	Set	1 set	
v)	Fuses of each type	Nos.	2 (two) nos.	
vi)	Consumable kit/ Chemical Reagent for Hydrazine Analyser		For maintaining the system for 1 (one) Year continuous operation	
10.6	Dissolve Oxygen			
i)	Dissolve Oxygen Sensor Complete Set	No.	1 (one) no.	
ii)	Dissolve Oxygen Analyser Complete Set	No.	1 (one) no.	
10.7	Phosphate Analyser			
i)	Critical Electronic spare part for Phosphate Analyser/ Monitor	Nos.	1 (one) no. each type	
ii)	Flow Chamber	No.	1 (one) no.	
iii)	Calibration Kit	No.	1 (one) no.	
iv)	Reagent Container	Nos.	1 (one) no. each type	
v)	Consumable kit/ Chemical Reagent for phosphate Analyser		For maintaining the system for 1 (one) Year continuous operation	
10.8	Chloride Analyser			
i)	Chloride Cell/Electrode	No.	1 (one) no.	

ii)	Critical Electronic spare part for Chloride Analyser/ Monitor	Nos.	1 (one) no. each type	
iii)	Reagent container (if required)	Nos.	1 (one) no. each type	
iv)	Refurbishment kit for Chloride analyser	No.	1 (one) no.	
v)	Consumable kit/ Chemical Reagent for Chloride Analyser		For maintaining the system for 1 (one) Year continuous operation	
10.9	Other Hardware			
i)	Stainer each type	Nos.	2 (two) nos.	
ii)	Sample Cooler	Nos.	2 (two) nos.	
iii)	High Pressure Reducing Valve	Nos.	5 (five) nos.	
iv)	Cation column	Nos.	5 (five) nos.	
v)	Pressure Gauge, Pressure Switch, Temperature Gauge, Temperature Switch, Isolating Valve, Solenoid Valve, Temperature Shut-Off Valve, Rota Meter etc.	%	10% of total quantity of each item and type/ rating used in the system or minimum 1(one) no. whichever is higher.	
vi)	Annunciation System			
a.	Each type of PCB	Nos.	1 (one) no. each	
b.	Lamp Box with Facia & Lamps (LED type)	Nos.	5 (five) nos.	
c.	Hooter	No.	1 (one) no.	
vii)	Auxiliary/Power Contactor, Push Button, Indicating Lamp, Fuse etc. for Chiller Unit	%	10% of total quantity of each type of items used in the system or minimum 2 (two) nos.	
10.1	Chiller Unit			
i)	Auxiliary/Power Contactor, Push Button, Indicating Lamp, Fuse, thermal overload etc. for Chiller Unit	%	10% of total quantity of each type of items used in the system or minimum 1 (one) nos. whichever is more.	
ii)	Pressure Switch, Temperature Switch, Isolating Valve, Solenoid Valve, Thermostat etc.	%	10% of total quantity of each type of items used in the system or minimum 1 (one) nos. whichever is more.	
11.0	Pneumatic Control Valve & Power Cylinder (Applicable for all Modulating Type & On- Off/Isolating Type)			
11.1	Control Valve			
i)	Pneumatic Diaphragm for Diaphragm actuated valve	Nos.	2 (two) nos. for each type of Actuator	
ii)	Actuator Seal Kit for Pneumatic Cylinder actuated valve	Nos.	2 (two) nos. for each type of Actuator	

iii)	Gland Packing	Sets	1 (one) set for each type of Control Valve	
iv)	Stem	Sets	1 (one) set for each type of Control Valve	
v)	Plug	Sets	1 (one) set for each type of Control Valve	
vi)	Seat	Sets	1 (one) set for each type of Control Valve	
vii)	Cage	Sets	1 (one) set for each type of Control Valve	
viii)	Retainer Ring	Sets	1 (one) set for each type of Control Valve	
ix)	Seal rings	Sets	1 (one) set for each type of Control Valve	
x)	Gasket	Sets	2 (two) Sets. for each type of Control Valve	
xi)	Smart Positioner of the Valve	%	10% of total quantity used in the system or minimum 2 (two) nos.	
xii)	Seal Kit for the Positioner	Sets	2 (two) Sets. for each type of Positioner	
xiii)	Position Feedback Transmitter (applicable if it is not integral with the Smart Positioner)	%	10% of total quantity used in the system or minimum 2 (two) nos.	
xiv)	Complete Set of Solenoid Valve for Pneumatic type On/Off Valve	Nos.	2 Nos. for each type & ratings	
xv)	Solenoid Coil for Pneumatic type On/ Off Valve	Nos.	5 Nos. for each type & ratings	
11.2	Power Cylinder			
i)	Actuator Seal Kit	Nos.	2 (two) nos. for each type of Power Cylinders	
ii)	Gasket	Nos.	2 (two) nos. for each type of Power Cylinders	
iii)	Complete Set of Power Cylinder	Nos.	1 (one) no. each type for all application	
iv)	Smart Positioner of the Valve	%	10% of total quantity used in the system or minimum 2 (two) nos.	
v)	Seal Kit for the Positioner	Sets	2 (two) Sets. for each type of Positioner	
vi)	Position Feedback Transmitter (applicable if it is not integral with the Smart Positioner)	%	10% of total quantity used in the system or minimum 2 (two) nos.	
vii)	Complete Set of Solenoid Valve for Pneumatic type On/Off Valve	Nos.	2 Nos. for each type & ratings	
viii)	Solenoid Coil for Pneumatic type On/ Off Valve	Nos.	5 Nos. for each type & ratings	
ix)	Position Limit Switch for Pneumatic type On/Off Power Cylinder	Nos.	10 Nos. for each type & ratings	

11.3	I/P Converter for Control Valve/Power Cylinder (if applicable)	%	10% of total quantity used in the system or minimum 5 (five) nos. whichever is more for each type and model.	
11.4	Air Lock Relay	Nos.	10 Nos. for each type	
11.5	Signal Air Booster Uni	Nos.	2 Nos. for each type	
12.0	Control Panel And Local/Remote Control Desk			
12.1	Mosaic/Conventional Type Push button Station	%	10% of total quantity used in the system or minimum 2 (two) nos. whichever is more for each type and model.	
12.2	Mosaic Type Push button Station with LED Indication	%	10% of total quantity used in the system or minimum 2 (two) nos. whichever is more for each type and model.	
12.3	Mosaic Type LED Indication Station	%	10% of total quantity used in the system or minimum 2 (two) nos. whichever is more for each type and model.	
12.4	Simaphore Indicator	Nos.	2 (two)Nos. each type	
12.5	Annunciation System			
i)	Each type of PCB (for non-PLC driven system)	Nos.	1 (one) No. each	
ii)	Lamp Box with Facia & Lamps (LED type)	Nos.	10 (ten) Nos.	
iii)	Hooter	No.	1 (one) No.	
13.0	Actuator			
13.1	Complete set of Actuator	Nos.	2 Nos. for each type, make and rating, 1 no. for H2 cooler Temperature controller and 1 no. for stator water temperature controller	
13.2	Power Unit for Modulating Actuator	Nos.	4 Nos. of each type	
13.3	DC-DC Power Pack Unit	Nos.	4 Nos. of each type	
13.4	Electronic cards	Nos.	4 Nos. of each type	
13.5	Position Feed Back Transmitters	Nos.	4 Nos. of each type	
13.6	Control Unit	Nos.	4 Nos. of each type	
13.7	Limit Switch Assembly	Nos.	2 No. each type and rating	

13.8	Torque Switch Assembly	Nos.	2 No. each type and rating	
13.9	Power Contactor	Nos.	5 No. each type and rating	
13.10	Auxiliary Contactor	Nos.	5 No. each type and rating	
13.11	Thermal Over Load Relay	Nos.	2 No. each type and rating	
13.12	Motor	Nos.	1 No. each type and rating	
13.13	Complete Seal kit	Sets	2 Sets for each type and rating	
13.14	Complete O-Ring Set	Sets	2 Sets for each type and rating	
Grand Total (Ex-works for Supply of Mandatory Spares)				₹ 0.00

Notes:

1) 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.

2) Unless stated otherwise, a "set" or "Lot" means items required for complete replacement in one equipment of each type/ size/ range.

3) In case of Bought Out items, itemised spares list may be vendor specific and may differ from the list of spares mentioned above. In such cases, the quoted price shall be considered for applicable items only without any change in the contract price.

ANNEXURE-II DEVIATION SHEET (COST OF WITHDRAWAL)

PROJECT:-						1X660 MW SAGARDIGHI TPP EXTENSION UNIT 5			
PACKAGE :-						CONDENSATE POLISHING UNIT			
TENDER ENQUIRY :-						PE/PG/SGI/E-6719/2021 Dated 06.08.2021			
NAME OF THE BIDDER									
Sl. No.	Volume/Section	Page No.	Clause No.	Technical Specification/Tender Document No	Complete Description of Deviation	Cost of withdrawal of deviation to be entered by the bidder in	Reference of price Schedule of which Cost of Withdrawal of Deviation is applicable	Nature of cost of withdrawal of deviation (Positive/Negative)	Reasons for quoting deviation
1	TECHNICAL DEVIATION								
1.01									
1.02									
1.03									
1.04									
1.05									
1.06									
1.07									
1.08									
2	COMMERCIAL DEVIATION								
2.01									
2.02									
2.03									
2.04									
2.05									
2.06									
2.07									
2.08									

NOTES:

1. Cost of Withdrawal of deviation will be applicable on the basic price (i.e. excluding taxes, duties & freight) only.
2. All the bidders have to list out all their technical & commercial deviations (if any) in details in the above format.
3. Any deviation not mentioned above and shown separately or found hidden in offer, will not be taken cognizance of.
4. Bidder shall submit duly filled unpriced copy of above format indicating "quoted" in "cost of withdrawal of deviation" column of the schedule above along with their Techno-commercial offer, wherever applicable. In absence of same, such deviation(s) shall not be considered and offer shall be considered in total compliance to NIT.
5. Bidder shall furnish price copy of above format along with price bid.
6. The final decision of acceptance/ rejection of the deviations quoted by the bidder shall be at discretion of the Purchaser.
7. Bidders to note that any deviation (technical/commercial) not listed in above and asked after Part-I opening shall not be considered.
8. For deviations w.r.t. Credit Period, Liquidated damages, Firm prices if a bidder chooses not to give any cost of withdrawal of deviation loading as per Annexure-VII of GCC, Rev-07 will apply. For any other deviation mentioned in un-priced copy of this format submitted with Part-I bid but not mentioned in priced copy of this format submitted with Priced bid, the cost of withdrawal of deviation shall be taken as NIL.
9. Any deviation mentioned in priced copy of this format, but not mentioned in the un-priced copy, shall not be accepted.
10. All techno-commercial terms and conditions of NIT shall be deemed to have been accepted by the bidder, other than those listed in unpriced copy of this format.
11. Cost of withdrawal is to be given separately for each deviation. In no event bidder should club cost of withdrawal of more than one deviation else cost of withdrawal of such deviations which have been clubbed together shall be considered as NIL.
12. In case nature of cost of withdrawal (positive/negative) is not specified it shall be assumed as positive.
13. In case of discrepancy in the nature of impact (positive/ negative), positive will be considered for evaluation and negative for ordering.

VENDOR'S CREDENTIALS

PROJECT:

PACKAGE:

VENDOR NAME:

CREDENTIAL BOOKLET

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PO DATE, EXECUTION DATE**

CHAPTER 4

**FEW NOTEWORTHY PERFORMANCE CERTIFICATE, PURCHASE ORDER
ISSUED BY CLIENT**