

BHEL-PEM-MAUX
PRE-QUALIFICATION CRITERIA

	PROJECT: 1x800 MW TANGEDCO NORTH CHENNAI STAGE III (FGD SYSTEM PACKAGE) PACKAGE: HVAC FOR FGD PRE-QUALIFICATION REQUIREMENT (TECHNICAL)	PE-PQ-485-(571-13000-A)-A002	
		DATE	12.08.2026
		REV NO	00

Sl. No.	DESCRIPTION
1.0	Supplier should have designed, supplied, erected and commissioned at least one (1) number of either of the following systems: - - AC system: - Minimum installed capacity of AC system shall be 30 TR (Chiller/Precision package AC/Condensing unit/Package AC/ Ductable Split AC) along with associated ducting work etc. for complete Air Conditioning system. Or - Ventilation System: - Minimum installed capacity of single UAF / Air Washer / Fan Filtration Unit with Centrifugal Fan, shall be 50,000 CMH along with associated ducting work etc. for complete Ventilation system. The system should have been in successful operation for at least one (1) year as on the date of Techno-Commercial bid opening.
2.0	The supplier has to submit following supporting documents meeting above mentioned prequalifying requirement: Copy of minimum one (1) performance certificate from end user along with copy of related Purchase Order (PO) or Letter of intent (LOI) or Letter of Award (LOA) or Work Order (WO) in support of PQR clause at S. No. 1.0 above.
Notes	
a	BHEL reserves the right to seek approved design documents from bidders to substantiate technical parameters as specified in clause 1 above.
b	Bidder to submit all supporting documents in Hindi and/or English as required. If documents submitted by bidder are in language other than that specified above, a translated copy of the same, in above language(s) shall be submitted by the bidder. In such case, for purposes of interpretation, the translated version shall govern. The translation of the documents shall be carried out by professional translators and the translator shall certify that he is proficient in both languages in order to translate the document and that the translation is complete and accurate. Further, in case the supporting documents are issued outside India, same shall be authenticated by the Indian Consulate located in the Country where the documents have been issued or the Embassy of that Country in India.
c	In case the PO/ LOI /LOA/ WOs is more than ten (10) years old as on date of bid opening, minimum one (1) no. additional Purchase order (for similar jobs) shall be submitted which should not be more than ten (10) years old as on date of bid opening, for establishing continuity in business.
d	Notwithstanding anything stated above, BHEL/End customer/Owner reserves the right for physical assessment of the capabilities and capacity of the bidder to perform the contract, should the circumstances warrant such assessment in the overall interest of BHEL/ End customer/Owner.
e	Consideration of offer shall be subject to End customer/Owner's approval of bidder.
f	After satisfactory fulfilment of all the above criteria/ requirement, offer shall be considered for further evaluation as per NIT and all other terms of the tender.
g	The bidder shall meet PQR based on its own credentials. Bid from joint venture (JV) company / Consortium bid is not acceptable.



PRE - QUALIFYING REQUIREMENTS

PROJECT: 1X800 MW NORTH CHENNAI STAGE III FGD

PACKAGE: HVAC SYSTEM

CRITERIA FOR EVALUATION - FINANCIAL :

	Amount (in Rs.)
Average annual financial turnover value during last three Financial Years as on tender due date should not be less than	67,00,000.00

Rs.Sixty Seven Lakh only

Notes:-

a) The bidder has to submit Audited Financial accounts comprising of Audit report (if applicable), Balance sheet, Profit & Loss A/c Statement and Notes/Schedules pertaining to Turnover/Sales/Revenue, for last three years (or from the date of incorporation, whichever is less) as on tender due date to review the above criteria. In case the incorporation of vendor is less than 3 years, average annual Financial turnover shall be calculated based on available information as below: -

i) If the accounts are available for ≤ 1 Financial Year, the Average Annual Turnover shall be calculated based on available information divided by 1 (One).

ii) If the accounts are available for >1 but ≤ 2 Financial Years, the Average Annual Turnover shall be calculated based on available information divided by 2 (Two).

iii) If the accounts are available for >2 but ≤ 3 Financial Years, the Average Annual Turnover shall be calculated based on available information divided by 3 (Three).

b) Foreign bidder is to submit a latest report from reputed third-party business rating agency like Dun & Bradstreet, Credit reform etc. in addition to the documents mentioned at point (a) above for review of above criteria.

c) Other income shall not be considered for arriving at Annual Turnover/Sales. For evaluation purpose, turnover figure excluding taxes shall be considered.

d) For evaluation of foreign bidder exchange rate (TT selling rate of SBI) as on scheduled date of tender opening (Part-I bid in case of two-part bid) shall be considered.

e) Bidder who is 50% or above subsidiary of any company including those registered outside India and does not meet any of the above Financial criteria, such bidder may be qualified based on credentials of its holding company provided such holding company meets the above PQR criteria. In such case, the bidder would be required to furnish a letter of support from its holding company, pledging unconditional and irrevocable Financial support for the execution of the contract by the bidder in case of award.

f) In cases where audited results for its last Financial year as on the date of Techno-Commercial bid opening are not available, a certificate would be required from CEO/CFO stating the the Financial results of the Company are under audit as on the date of Techno-Commercial bid opening and are not available.

PRICE ADJUSTMENT FOR SUPPLY AND MANDATORY SPARES

- (i) The Contract price shall be subject to price adjustment during performance of the Contract to reflect changes in the cost of material in accordance with the provisions described below
- (ii) The price adjustment provisions shall be applicable separately for price components relating to Supply of Equipment as per price break-up furnished by the Contractor.
- (iii) Only following components of the Contract Price will be subject to Price adjustment:
 - (a) Ex-Works supply price of Plant and Equipment including commissioning spares, Mandatory spares.
- (iv) Price adjustment amounts towards aforesaid components of Contract Price shall be paid in the respective currencies of Contract (INR).
- (v) The indices for price adjustment shall be as elaborated hereunder.
- (vi) The price adjustment formula for the components of the Contract Price, as mentioned at Sl. No. (iii) above, shall be as stipulated hereinafter.
- (vii) Ex-Works Price Component of Plant and Equipment including Mandatory Spares

The amount of price adjustment towards variable portion payable/recoverable on each item shall be computed as under:

Indices to be used for each item shall be as per Economic advisor WPI data for finished goods published at www.eaindustry.nic.in for respective month.

Major list of Indices to be used for HVAC are specified in table A below

Wherever indices of items are not directly specified in WPI data, Indices for the same shall be suitably decided during execution of contract.

EC against each item shall be calculated as per following formula

$$\text{EC} = \frac{(P1 - P0) \times \text{EC0}}{P0}$$

Where

EC = Adjustment to Ex-Works supply Price Component expressed in the currency of The Contract (INR) payable/recoverable to the contractor for each shipment/dispatch.

EC0 = Ex-Works supply Price for the plant and equipment in the currency of the Contract (INR), shipment/dispatch wise.

P1 = Refers to indices of the month of reckoning the variated price which shall be the month before the month in which dispatch is made

P0 = Refers to indices of Base Month for PVC which shall be taken as the month before the month of the price bid opening.

The latest available indices are to be extrapolated to the above defined month wrt the base month.

Note:

- 1) The price adjustment i.e. either increase or decrease shall be applicable upto the contractual date of completion of supplies. Contractual delivery/dispatch date would mean the delivery/dispatch date mentioned in the order including amendments in delivery/dispatch date (if any). PVC will not be applicable for the period beyond the contractual delivery/dispatch date where delay is attributable for supplier.
- 2) Though the calculation shall be done for each Billing Break up (BBU) item at the time of dispatch as per formula mentioned above, Total/Net price variation of package shall be calculated and settled at the end of all required supplies of the package and shall be limited to (+) 20% of Total Ex-Works Supply Price including Mandatory spares. There shall be no limit on negative value of PVC.

TABLE A

Chillers
Cooling Towers
Steel pipes, tubes & poles
Cold Rolled (CR) Coils & Sheets, including Narrow Strip
Steel Container
Air Conditioner
Manufacture of plastics products
Centrifugal Pumps
Manufacture of Fabricated Metal Products, Except Machinery and Equipment
Manufacture of other fabricated metal products
Manufacture of lifting and handling equipment
Manufacture of electronic components
Manufacture of measuring, testing, navigating and control equipment
Salt
Manufacture of Water purifier
Manufacture of Electric heaters
Manufacture of steam generators, except central heating hot water boilers
Manufacture of Fan
Hand tools
Processed rubber
Air Coolers
Manufacture of AC motor
GC/GP sheets
Manufacture Of Electrical Equipment
Industrial Valves

PRICE ADJUSTMENT FOR SERVICE PART (E&C)

- (i) The Contract price shall be subject to price adjustment during performance of the Contract to reflect changes in the cost of labour in accordance with the provisions described below:
- (ii) The price adjustment provisions shall be applicable for price components relating to service part (E&C) as per price break-up furnished by the Contractor.
- (iii) Only following components of the Contract Price will be subject to Price adjustment:
 - (a) Service part (E&C) component of Contract Price.
- (vi) The indices for price adjustment shall be as elaborated hereunder.
- (v) The price adjustment formula for the components of the Contract Price, as mentioned at Sl.No. (iii) above shall be as stipulated hereinafter.

a) Indian Rupee Portion of the Installation Services

$$ER = ER1 - ER0$$

ER1 will be computed as follows:

$$ER1 = ER0 (0.15 + Lb \times (L1/ Lo))$$

Where:

- 1. ER = Adjustment to Erection & Commissioning price component of contract price expressed in Indian Rupees payable to the contractor for each billing.
- 2. ER1 = Adjusted amount of Erection & Commissioning price component of contract price expressed in Indian Rupees payable to the Contractor.
- 3. ER0 = Value of the Erection & Commissioning work done in the billing period, which shall be calculated as under:

For the purpose of computing ER0, each Erection & commissioning bill (service part) during the E & C period up to the 'Completion of the Facilities' shall be calculated as described in this document.

- 4. Lb – Coefficient of labour (for all categories) content in the Indian Rupee portion of the erection & commissioning =0.85
- 5. L=Indian field labour index namely, all India consumer price index for industrial workers (All India Monthly Average) as published labour bureau, Shimla, Government of India.

For the indices,

- 5a. Subscript '0' refers to indices of the Base Month which shall be taken as the month before the month of the price bid opening.
- 5b. Subscript '1' refers to indices of the month in which service / E&C is carried as per the Purchase Order or its amendments issued.

The latest available indices are to be extrapolated to the above defined month wrt the base month.

Note:

- 1) The price adjustment i.e. either increase or decrease shall be applicable upto the contractual date of completion of supplies. Contractual delivery/dispatch date would mean the delivery/dispatch date mentioned in the order including amendments in delivery/dispatch date (if any). PVC will not be applicable for the period beyond the contractual delivery/dispatch date where delay is attributable for supplier.
- 2) The price variation shall be limited to +20% of total E&C price (excluding taxes). There shall be no limit on negative PVC.

SUGGESTED PRICE FORMAT

Equiry No :
77/26/6124/AAN

NAME OF PROJECT:				1 x 800 MW NCTPP Stage-III - FGD							
NAME OF PACKAGE:				HVAC FOR FGD							
TECHNICAL SPECIFICATION No:				PE-TS-485- (571-13000-A)-A002							
				M/s							
				SUPPLY				SERVICES			
S. No.	DESCRIPTION			UNIT	QTY	Total Ex-Works (excluding Freight) (INR)	Freight in %	Total Freight	Unit Price (INR)	Total Price (INR)	Total Price Including Freight Ext GST (INR)
1	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for Supply part, Services part and 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, mandatory spares along with spares for erection, start up and commissioning as required, forwarding, proper packing, shipment and delivery at site, unloading, handling, in-site transportation, assembly, erection & commissioning, final painting at site, minor civil work, trial run at site and carrying out Performance guarantee / Functional / Demonstration tests at site (As applicable), training of customer/client O&M staff, Operation & Maintenance of Air Conditioning (24x7) before handing over after commissioning, and handover in flawless condition to the end customer complete "Air Conditioning and Ventilation System" with all accessories, for the total scope defined as per BHEL NIT & tender technical specification as specified above, amendment & agreements till placement of order.			Lot	1	₹ -					₹ -
2	MAJOR BREAK-UP OF PRICES GIVEN IN 1.0 ABOVE.										
2.1	Total lumpsum firm price inclusive of all prevailing taxes, duties and other levies for Design (i.e. Preparation and submission of drawing /documents including "As Built" drawings and O&M manuals) and engineering as per tender technical specification above, amendment & agreements till placement of order. (Refer Note-3 below)			Lot	1					₹ -	₹ -
2.2	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for Supply part comprising of manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable), fill of lubricants & consumables along with spares for erection as required, start-up and commissioning spares as required, forwarding, proper packing, shipment and delivery at site for the total scope defined as per BHEL NIT & tender technical specification as specified above, amendment & agreements till placement of order. (Break-up as per Annexure-I)			Lot	1	₹ -		₹ -			₹ -
2.3	Total lumpsum firm prices inclusive of all prevailing taxes, duties and other levies for Services part comprising for unloading, handling, transportation to site, in-site transportation, assembly, erection & commissioning, final painting at site, minor civil work, trial run at site and carrying out Performance guarantee / Functional / Demonstration tests at site (As applicable), training of customer/client O&M staff and handover in flawless condition of the package to the end customer complete with all accessories, for the total scope defined as per BHEL NIT & tender technical specification as specified above, amendment & agreements till placement of order. (Break-up as per Annexure-I)			Lot	1				₹ -	₹ -	₹ -
2.4	Total lumpsum firm price inclusive of all prevailing taxes, duties and other levies for Mandatory Spares comprising of manufacture, fabrication, assembly, inspection / testing (as applicable) at vendor's & subvendor'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	₹ -		₹ -			₹ -
2.5	Total lumpsum firm price inclusive of all prevailing taxes, duties and other levies for providing Operation and Maintenance Service (24x7) including manpower, supervision, consumables etc. for operation & maintenance after commissioning of Air Conditioning system before final handing over to end customer in flawless condition for the scope defined as per technical specification for Air Conditioning system			Months*	12					₹ -	₹ -

Note:

- 1) GST shall be extra as per actuals.
- 2) Bidder to quote the Prices in 'figures' along with corresponding 'words'.
- 3) 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. 2.1 shall be made against basic engineering (i.e. Preparation, submission & approval of basic drawing/ documents as indicated in tender specification) and the remaining payment shall be made for the balance engineering part on pro-rata basis.
- 4) For detailed scope of Operation and Maintenance Services of Air Conditioning system, Technical Specification to be referred. Any variation in no. of months shall be exercised based on unit rate arrived from price quoted against Sl.no 2.5 above.

Particulars of bidder / authorised representative

		Name	Designation
			Signature

SUGGESTED PRICE FORMAT ANNEXURE - I				Doc No:		PE-PF-485- (571-13000-A)-A002	
				Rev No:		0	
				Date of issue		12.08.2026	
NAME OF PROJECT:				1 x 800 MW NCTPP Stage-III - FGD			
NAME OF PACKAGE:				HVAC FOR FGD			
TECHNICAL SPECIFICATION No:				PE-TS-485- (571-13000-A)-A002			
SL NO	DESCRIPTION	Qty	UNIT	SUPPLY		E&C	
				Unit Ex-Works Price (INR)	Total Ex-Works Price (INR)	Unit E&C Price (INR)	Total Ex-Works Price (INR)
A	AC SYSTEM						
1*	DX type, air cooled condensing unit of minimum 60 TR (ACTUAL) capacity. The refrigerant compressor shall be Scroll, hermetic / Semi-hermetic type suitable for Refrigerant R-134a / R-407c / R-410a environment friendly HFC refrigerants with drive package, Suction and discharge valves, capacity control system, expansion valve, crank case heater etc. A control panel shall be provided to house all gauges and controls. The panel shall contain all necessary terminal strips to facilitate external wiring. The unit shall be complete with expansion valve, all necessary fittings, accessories, insulated refrigerant piping to and from AHUs, foundation bolts, nuts, washers etc complete in all respect.	2	Nos.*		₹ -	₹	-
2*	Sheet metal cabinet type air handling units (double skin as per specification) The draw through horizontal AHUs (min. 65 mmWC SP) shall comprise of Dampers, pre filter, fine filters, DX- cooling coil, Fan section with fan & TEFC sq cage induction motor, drive set, condensate drain pan, thermostatic controls and other accessories, like ladder along with supporting structure for filter and plenum, etc. to meet the AC load of control room area as per specification. (min 28500 CFM)	2	Nos.*		₹ -	₹	-
3*	MONSOON REHEATING / WINTER HEATING KIT comprising strip heaters, safety controls, airstat, contactors, frame work, thermostat & humidistat/ sensors etc. for above mentioned AC system (min 36KW)	1	No.		₹ -	₹	-
4*	HUMIDIFIER for above mentioned AC System complete with humidistat, safety controls, make up water piping from make up tank /nearest source of water, valves fittings etc (min 3 KW)	1	No.		₹ -	₹	-
5*	Fresh air fan (axial flow type), complete with motor, inlet cone, air filters (pre and fine), dampers etc. along with support structure and other accessories for above mentioned AC System (min 1350CFM)	1	No.		₹ -	₹	-
6*	Drain piping with and without insulation from various equipment upto nearest available drain point with necessary fittings like tees, reducers, expanders, elbows, flanges, valves with flanges, U trap etc as per specifications.						
a)*	50mm with insulation and cladding	30	Rmt*		₹ -	₹	-
b)*	50mm without insulation and cladding	30	Rmt*		₹ -	₹	-
7*	AIR COOLED CASSETTE/SPLIT UNITS consisting of outdoor unit (having compressor condenser coils with fan and motor), indoor unit (having evaporator coil, filter, fan with motor), interconnecting refrigerant piping, drain piping as per site requirement & fittings with insulation, cordless remote, electrical power cord up to the nearest available point along with isolator / MCB, fixing frame for indoor and outdoor unit, Stabilizer, etc. with latest BEE						
a)*	4.0 TR capacity (non-ductable Cassette type) with isolation switch, i.e. MCB of suitable rating as specified, voltage stabilizer, cabling, all supporting structure and refrigerant piping to suite actual site condition, drain piping upto nearest drain etc. Cassette AC shall be of best rating as per latest BEE based on ISEER	6	Nos.*		₹ -	₹	-

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NAME OF PACKAGE:				HVAC FOR FGD			
TECHNICAL SPECIFICATION No:				PE-TS-485- (571-13000-A)-A002			
SL NO	DESCRIPTION	Qty	UNIT	SUPPLY		E&C	
				Unit Ex-Works Price (INR)	Total Ex-Works Price (INR)	Unit E&C Price (INR)	Total Ex-Works Price (INR)
b)*	2.0 TR capacity non-ductable type Split Air Conditioner (240 V, 1-phase), complete with indoor and outdoor units, ISImarked isolation switch (MCB of suitable rating with MCB box), voltage stabilizer, ISI-marked power accessories for each single-phase Split AC (1 No. 5-pin power socket of min. 20A rating, 1 No. 3-pin power plug of min. 20A rating, and 1 No. MCB with MCB box), refrigerant piping with insulation as per site requirement, drain piping up to nearest drain point, electrical cabling from power source to AC units including interconnecting cable, supporting structures/brackets, clamps, fasteners, and all materials and works required to complete the installation in all respects as per specification.”	12	Nos.*		₹ -	₹	-
c)*	1.5 TR capacity non-ductable type Split Air Conditioner (240 V, 1-phase), complete with indoor and outdoor units, ISImarked isolation switch (MCB of suitable rating with MCB box), voltage stabilizer, ISI-marked power accessories for each single-phase Split AC (1 No. 5-pin power socket of min. 20A rating, 1 No. 3-pin power plug of min. 20A rating, and 1 No. MCB with MCB box), refrigerant piping with insulation as per site requirement, drain piping up to nearest drain point, electrical cabling from power source to AC units including interconnecting cable, supporting structures/brackets, clamps, fasteners, and all materials and works required to complete the installation in all respects as per specification.”	4	Nos.*		₹ -	₹	-
B	VENTILATION SYSTEM						
1*	Modular type Unitary air filtration unit with centrifugal fan with motor, pumps (2x100%) with motors, filters, UAF internals, inlet air louvers, piping as per IS: 1239 pt I (heavy class galvanised), valves, nozzles, back wash arrangement, galvanised drain piping etc. as per specification of capacity total 90,000 CMH . Each UAF has 1 no centrifugal fan (1 x 100% duty) of capacity 90,000 CMH at min. 65 mmWC SP.	1	Nos.*		₹ -	₹	-
2*	Axial flow supply fans with pre and fine filter (wall mounted) complete with casing, TEFC sq cage induction motors & mounting frame, MS rain protection cowl, bird screen along with support structure and all other accessories (suitable for 415V/3-phase supply) as specified. Following fan shall have 30 mmwc static pressure.						
a)*	Capacity 10,000 CMH	1	Nos.*		₹ -	₹	-
b)*	Capacity 6,000 CMH	1	Nos.*		₹ -	₹	-
3*	Axial flow supply fans with pre filter (wall mounted) complete with casing, TEFC sq cage induction motors & mounting frame, MS rain protection cowl, bird screen along with support structure and all other accessories (suitable for 415V/3-phase supply) as specified. Following fan shall have 20 mmwc static pressure.						
a)*	Capacity 10,000 CMH	40	Nos.*		₹ -	₹	-
b)*	Capacity 7,500 CMH	5	Nos.*		₹ -	₹	-
c)*	Capacity 4,000 CMH	1	Nos.*		₹ -	₹	-
4*	Axial flow exhaust fans (Bifurcated type, spark proof construction, wall mounted) complete with casing, flame proof motor & mounting frame, MS rain protection cowl, bird screen along with support structure and all other accessories epoxy painted (suitable for 415V/3-phase supply) as specified. Following fan shall have 15 mmwc static pressure.						
a)*	Capacity 15,000 CMH	2	Nos.*		₹ -	₹	-

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SL NO	DESCRIPTION	Qty	UNIT	SUPPLY		E&C	
				Unit Ex-Works Price (INR)	Total Ex-Works Price (INR)	Unit E&C Price (INR)	Total Ex-Works Price (INR)
b)*	Capacity 10,000 CMH	2	Nos.*		₹ -		₹ -
c)*	Capacity 4,000 CMH	1	Nos.*		₹ -		₹ -
5*	Axial flow exhaust fans (Wall mounted) complete with casing,TEFC sq cage induction motor & mounting frame, MS rain protection cowl, bird screen along with support structure and all other accessories epoxy painted (suitable for 415V/3-phase supply) as specified. Following fan shall have 10 mmwc static pressure.						
a)*	Capacity 15,000 CMH	10	Nos.*		₹ -		₹ -
c)*	Capacity 7,500 CMH	11	Nos.*		₹ -		₹ -
d)*	Capacity 6,000 CMH	8	Nos.*		₹ -		₹ -
e)*	Capacity 4,000 CMH	1	Nos.*		₹ -		₹ -
f)*	Capacity 2,000 CMH	2	Nos.*		₹ -		₹ -
6*	Exhaust fan (propeller type) complete with induction motor & mounting frame MS rain protection cowl, bird screen and all other accessories as specified (suitable for 240V/ 1 phase). Following fan shall have 5 mmwc static pressure.						
a)*	Capacity 1000 CMH	7	Nos.*		₹ -		₹ -
7*	Air Curtains complete with instruments as per the Specification	2	Sets*		₹ -		₹ -
C	COMMON FOR AC AND VENTILATION SYSTEM				₹ -		₹ -
1*	Supply air ducting (finished) for above area complete with dampers, grills (with VCD & without VCD), supports (painted) and all accessories as specified.						
1.1*	Finished (Actual quantity of duct erected at site, excluding the scrap) GSS (zinc coating 275gms/sq.m) Ducting with support structure etc.						
a)*	18 G	30	SQM*		₹ -		₹ -
b)*	20 G	230	SQM*		₹ -		₹ -
c)*	22 G	420	SQM*		₹ -		₹ -
d)*	24 G	330	SQM*		₹ -		₹ -
1.2*	Thermal insulation along with finish as per specification for AC Supply and exposed ventilation Supply air duct	620	SQM*		₹ -		₹ -
1.3*	Supply air Grill/diffuser with VCD (Extruded Aluminium).	5	SQM*		₹ -		₹ -
1.4*	Return air Grill/diffuser without VCD (Extruded Aluminium).	5	SQM*		₹ -		₹ -
1.5*	Supply air Grill/diffuser with VCD (MS, POWDER COATED).	9	SQM*		₹ -		₹ -
1.6*	Return air Grill/diffuser without VCD (MS, POWDER COATED).	1	SQM*		₹ -		₹ -
1.7*	Volume control damper in GI construction as per specification	10	SQM*		₹ -		₹ -
1.8*	Wall mounted dampers (gravity operated) for different areas.	5	SQM*		₹ -		₹ -
1.9*	Inlet Louvres	6	SQM*		₹ -		₹ -
1.10*	MS Duct With Epoxy paint for battery room.	10	SQM*		₹ -		₹ -
1.11*	ACOUSTIC INSULATION (AS PER THE SPECIFICATION)	60	SQM*		₹ -		₹ -
2*	FIRE DAMPER						
a)*	Fire damper	6	SQM*		₹ -		₹ -

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SL NO	DESCRIPTION	Qty	UNIT	SUPPLY		E&C	
				Unit Ex-Works Price (INR)	Total Ex-Works Price (INR)	Unit E&C Price (INR)	Total Ex-Works Price (INR)
b*)	Fusible Link type Fire Damper	2	Nos*		₹ -		₹ -
3*	Motorized Actuator with single phase power supply for Fire damper and Volume control damper with auto resetting, limit switches, indication lamps etc.	10	Nos*		₹ -		₹ -
4	Cable tray, conduits, junction box, lugs and glands, Local control panel and Field instruments like pressure gauge, temperature gauge, switches and transmitters for pressure, flow and temperature measurement, differential pressure switch across filters, RH and Temperature sensor and other required instruments as per specifications, including necessary control panel form hook up with main DDCMIS as per specifications						
4.1.1	Air Line Pressure Switch	2	Nos.		₹ -		₹ -
4.1.2	Air Differential Pressure switch	2	No.		₹ -		₹ -
4.1.3	AIR STAT	1	No.		₹ -		₹ -
4.1.4	Combined Temperature cum Humidity Sensor	1	No.		₹ -		₹ -
4.1.5	Water Line Pressure Switch	1	Nos.		₹ -		₹ -
4.1.6	Water Differential Pressure switch	1	No.		₹ -		₹ -
4.1.7	Water Level Switch	2	No.		₹ -		₹ -
4.1.8	Pressure Gauge	2	No.		₹ -		₹ -
4.1.9	Temperature Gauge	1	No.		₹ -		₹ -
4.2	Junction Box	1	Lot		₹ -		₹ -
4.3	Any other item as per Scope Matrix including Cable tray, conduits, junction box, lugs and glands etc. required to complete the system	1	Lot		₹ -		₹ -
5*	Providing full support during FAT of DDCMIS, preparation of control scheme, and commissioning of DDCMIS as per relevant specification.	20	Mandays*	NA	NA		₹ -
6	Total lumpsum price for special tools & tackles for maintenance inclusive of packing forwarding, transportation up to site, etc. (Break up of to be furnished as per Appendix- A)	1	LOT	₹ -	₹ -	NA	NA
7	Total lumpsum price for commissioning spares inclusive of packing forwarding, transportation up to site, etc. (Break up of to be furnished as per Appendix- B)	1	LOT	₹ -	₹ -	NA	NA
	Total				₹ -		₹ -
NOTES							
1	The bidder shall furnish unit rates for variable item (marked *) for necessary adjustment (plus or minus) variation during detailed engg. stage. The unit rates quoted above shall be considered and no separate unit rates shall be quoted. Unit rates shall be valid throughout the contract.						
2	Any cell left blank in the unpriced schedule shall be treated as “Quoted” and is included in total price. Only yellow highlighted cells to be filled.						
3	Bidder to note that above BOQ for this tender has to be read in conjunction with tender specification. Any item, if not mentioned in above BOQ but indicated in tender specification and required for completion of the system shall deemed to be included in above price.						
Particulars of bidder / authorised representative							
	Name		Designation				Company Seal

SUGGESTED PRICE FORMAT APPENDIX - A Maintenance tools & tackles				Doc No:	PE-PF-485- (571-13000-A)-A002
				Rev No:	0
NAME OF PROJECT:			1 x 800 MW NCTPP Stage-III - FGD		
NAME OF PACKAGE:			HVAC FOR FGD		
TECHNICAL SPECIFICATION No:			PE-TS-485- (571-13000-A)-A002		
SL NO	DESCRIPTION	UNIT	Qty	Unit (Ex-Works)	Total (Ex-Works)
1	FLAT D WRENCH - 6 MM TO 32 MM (12 Pcs)	SET	1		₹ -
2	BOX WRENCHES - 6 MM TO 22 MM (14 Pcs)	SET	1		₹ -
3	RING SPANNER - 6 MM TO 32 MM (12 Pcs)	SET	1		₹ -
4	ALLEN KEYS - 2 MM TO 10 MM	SET	1		₹ -
5	CRESCENT SCREW SPANNER	NO.	1		₹ -
6	SCREW DRIVER	NO.	1		₹ -
7	OFFSET SCREW DRIVER	NO.	1		₹ -
8	INSULATED PLIER	NO.	1		₹ -
9	TORCH LIGHT (SUITABLE FOR 2 CELL)	NO.	1		₹ -
10	HAMMER 1 LB	NO.	1		₹ -
11	OIL CAN	NO.	1		₹ -
12	POCKET THERMOMETER - 0 TO 50 DEG. C	NO.	1		₹ -
13	INSULATION TAPE ROLL	NO.	1		₹ -
14	STEEL FOOT RULE - 12"	NO.	1		₹ -
15	FEELER GAUGE 9 BLADES	NO.	1		₹ -
16	PIPE WRENCH	NO.	1		₹ -
17	FLARE NUT (1/4")	NOS.	6		₹ -
18	FLARING TOOL	NO.	1		₹ -
19	TUBE CUTTER	NO.	1		₹ -
20	GAS CHARGING PIPE	NO.	1		₹ -
21	NITROGEN CHARGING ADAPTER	NO.	1		₹ -
22	PRESSURE GAUGE (2 1/2" DIA DIAL) 0 - 300 PSI	NO.	1		₹ -
23	PRESSURE GAUGE (2 1/2" DIA DIAL) 0 - 500 PSI	NO.	1		₹ -
24	COMPOUND GAUGE (2 1/2" DIA DIAL) (-)30" to 150 PSI	NO.	1		₹ -
25	PSYCHRO METER	NO.	1		₹ -
26	LOCK WITH KEY FOR TOOL BOX	NO.	1		₹ -
27	RATCHET 1/4"	NO.	1		₹ -
28	MS TOOL BOX	NO.	1		₹ -
29	Measuring tape	NO	1		₹ -
30	Tachometer	NO	1		₹ -
31	Double ended spanner	SET	1		₹ -
32	Gasket punch	NO.	1		₹ -
33	Centre punch	NO.	1		₹ -
34	Scissors for sheet metal cutting	NO.	1		₹ -
35	Multimeter	NO.	1		₹ -
36	Anemometer	NO.	1		₹ -
37	Slide wrench 8"	NO.	1		₹ -
38	Slide wrench 10"	NO.	1		₹ -
39	Slide wrench 6"	NO.	1		₹ -
40	Box spanner set	SET	1		₹ -
Total					₹ -
NOTES					
1	ABOVE IS THE MINIMUM LIST. ANY OTHER TOOL / TACKEL REQUIRED FOR THE SYSTEM SHALL ALSO BE PROVIDED BY THE VENDOR WITHOUT ANY COST IMPLICATION.				
2	SUPPLY OF SPECIAL TOOLS AND TACKLE INCLUDING TOOLBOX REQUIRED FOR OPERATION, MAINTENANCE AND OVERHAULING OF THE SYSTEM IS IN THE SCOPE OF THE BIDDER. Only yellow highlighted cells to be filled.				
Particulars of bidder / authorised representative					
	Name	Designation	Signature	Date	Company Seal

SUGGESTED PRICE FORMAT APPENDIX - B Commissioning spares				Doc No:		PE-PF-485- (571-13000-A)-A002	
				Rev No:		0	
				Date of issue		12.08.2026	
NAME OF PROJECT:			1 x 800 MW NCTPP Stage-III - FGD				
NAME OF PACKAGE:			HVAC FOR FGD				
TECHNICAL SPECIFICATION No:			PE-TS-485- (571-13000-A)-A002				
SL NO	DESCRIPTION	UNIT	Qty	Unit Price (Ex-Works)	Total (Ex-Works)		
1	FAN BELTS	SET	1		₹	-	
2	PRESSURE GAUGE	NO.	1		₹	-	
3	TEMPERATURE GAUGE	NO.	1		₹	-	
4	FILTER	SET	1		₹	-	
5	REFRIGERANT	Lot	2		₹	-	
			Total			₹	-
NOTES							
1	Above is the minimum list. Any other commissioning spare required for System w.r.t. Mechanical, Electrical and C&I part shall also be provided by the Bidder as per system / customer requirement without any commercial & Delivery implication to BHEL. Only yellow highlighted cells to be filled.						
Particulars of bidder / authorised representative							
	Name	Designation	Signature	Date	Company Seal		

MANDATORY SPARES ANNEXURE - II		Doc No:	PE-PF-485- (571-13000-A)-A002
		Rev No:	0
		Date of issue	12.08.2026
NAME OF PROJECT:		1 x 800 MW NCTPP Stage-III - FGD	
NAME OF PACKAGE:		HVAC FOR FGD	
TECHNICAL SPECIFICATION No:		PE-TS-485- (571-13000-A)-A002	
SL NO	DESCRIPTION	Qty	AMOUNT (Ex-Works)
	AIR CONDITIONING AND VENTILATION SYSTEM		
1	Air handling unit (for each model)		
1.1	V-belts for AHU Blower	2 Sets	
1.2	AHU Blower bearing	1 Set	
1.3	Blower motor bearing	1 Set	
1.4	Filters at suction and discharge of all AHUs	25% of installed population	
2	Unitary air filtration unit		
2.1	Supply Air fans		
2.1.1	V-belts for supply air fans	2 Sets	
2.1.2	Supply air fan bearings	1 Set	
2.2	UAF Pump		
2.2.1	Pump bearings	1 Set	
2.2.2	Impeller for pump	1 no.	
2.2.3	Pump Shaft	1 no.	
2.2.4	Shaft sleeves	1 Set	
2.2.5	Gland Packings for pumps	1 Set	
2.3	Nylon Filter	1 Set	
2.4	Spray nozzles	5% of total population or 50 Numbers whichever is higher.	
2.5	Water strainer	1 No.	
2.6	Brass suction screen/strainer for unitary air filtration tank.	1 Set	
2.7	Motor for Centrifugal fan for UAF	1 No	
3	Control & Instrumentation		
	(I) Air-Conditioning System		
3.1	Electronic Transmitters		
3.1.1	Transmitters of all types and model no. (for the measurement of Pressure, differential pressure flow, level, temperature etc.)	5% or 1 No. of each type and model whichever is more. (to be divided into various ranges in proportion to main population)	
3.2	Temperature elements		
3.2.1	RTD's	5% or 1 No. which ever is more **	
3.2.2	Thermo well * (With head assembly, terminal block and nipple)	5% or 1 No. which ever is more ** ** (to be divided into various insertion lengths in proportion to main population)	
3.2.3	All types of Local Indicators	5% or 1 No. of each make, model and type whichever is more (to be divided to various ranges in proportion to main population of all make, model and type)	
3.2.4	Process Actuated Switch Devices Includes all types of Pressure, differential pressure, flow, and temperature, and differential temperature, level switch Devices.	5% or 1No. of each type and model whichever is more.	
3.2.5	Relative Humidity Sensors	1 No.	
3.2.6	Geyserstat	1 No.	
3.2.7	Local Humidity/Temperature indicators	2 Nos. each	
4	Process Connection Piping (for Impulse Piping / Tubing, Sampling Piping / Tubing and Air Supply Piping as Applicable)		
4.1	Valves	10% or 1 No. of each type, class, size and model whichever is more	
4.2	2 way, 3way, 5way valve manifolds	10% or 1 No. of each type, class, size and model whichever is more	
4.3	Fittings	10% or 1 No. of each type, class, size and model whichever is more	
	(II) Ventilation System		
5	Measuring Instruments		
5.1	Pressure gauge	1 No. (for centrifugal pumps of UAF units).	
5.2	Level transmitter	1 No. (for UAF units)	
5.3	Pressure transmitter	1 No. (for UAF Units)	

6	Process Connection Piping (for Impulse Piping / Tubing, Sampling Piping / Tubing and Air Supply Piping as Applicable)		
6.1	Valves	1 no. of each type, class, size and Model	
6.2	2 way valve manifold	1 no. of each type, class, size and model	
6.3	Fittings	1 no. of each type, class, size and model	
Total			₹ -
NOTES			
1	Mandatory spares listed in Price Schedule are 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 bidder's scope of supply.		
2	Wherever "set" is indicated, it shall mean complete replacement for one main equipment of similar size & capacity.		
3	All Spares shall be supplied as per the requirement of the specifications. In case any spare indicated in the specification is "not applicable" for particular equipment, then suitable applicable alternate spare has been offered / shall be supplied by the bidder without any financial implication.		
4	Bidder to write "Quoted / Not Applicable" against all items. Any item which is quoted as "not applicable" by the bidder in the above list and is found to be "applicable" at a later date shall be supplied by the bidder without any commercial and delivery implication.		
5	For quantities indicated in percentage, fractions are to be rounded-off to next higher integer.		
6	Any cell left blank in the unpriced schedule shall be treated as "Quoted" and is included in total price. Only yellow highlighted cells to be filled.		
7	Bidder to note that even though there may be some spares which are repetitive at various sl.no mentioned above, bidder to ensure that prices are quoted against each sl.no. In case any cell is left blank in the unpriced schedule shall be treated as "quoted" and included in total price.		
8	List of above mandatory spares shall be finalized during detail engineering. In case of deletion/increase in quantity of any particular item during detail engineering, prices quoted by the bidder against such item shall be reduced/adjusted (wrt unit rate quoted by the bidder) from the overall prices quoted by the bidder.		
	Name	Designation	Signature

ANNEXURE-IV DEVIATION SHEET (COST OF WITHDRAWAL)									
					PROJECT:- 1 x 800 MW NCTPP Stage-III - FGD				
					PACKAGE :- HVAC FOR FGD				
					TECHNICAL SPECIFICATION: PE-TS-485- (571-13000-A)-A002				
					NAME OF THE BIDDER M/s				
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 BOP GCC, Rev-00 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.
14. In case of NIL deviation, write "NIL" for both tech and commercial deviation and submit along with part-1.