


BHEL-PEM-MAUX
PRE-QUALIFICATION CRITERIA

	PACKAGE: HVAC FOR FGD PROJECT: 3 X 200MW +3X500MW RAMAGUNDAM STPP (FGD SYSTEM PACKAGE) PRE-QUALIFICATION REQUIREMENT	PE-PQ-467-(571-13000-A)-A001	
		DATE	04/04/2022
		REV NO	00

1.	<p>Supplier should have designed, supplied, erected and commissioned at least one (1) number of both the following systems: -</p> <ul style="list-style-type: none"> • AC system: - Minimum installed capacity of AC system shall be 50 TR (Chiller/Precision package AC/Condensing unit/Package AC/ Ductable Split AC). • Ventilation System: - Minimum installed capacity of single UAF / Air Washer / Fan Filtration (With Centrifugal Fan) unit shall be 50,000 CMH for complete Ventilation system along with ducting.
2.	<p>The supplier has to submit following supporting documents meeting above mentioned pre-qualifying requirement.</p> <p>Copy of minimum one(1) performance certificate (in English) 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) specifying that the product is running successfully for one (1) year from date of commissioning as on date of bid opening in support of PQR clause at S. No. 1.0 above.</p>
3.	<p>Bidder shall submit design documents to substantiate technical parameters specified in PQR, if the same is not mentioned in performance certificate / purchase order.</p>
4.	<p>Bidder to submit all supporting documents in English. If documents submitted by bidder are in language other than English, a self-attested English translated document should also be submitted.</p>
5.	<p>Notwithstanding anything stated above, CUSTOMER/BHEL reserves the rights to satisfy himself on the provenness of the equipment and capability and capacity of the manufacturers.</p>
6.	<p>Notwithstanding anything stated above, CUSTOMER/BHEL reserves the right to assess the capabilities and capacity of the Bidder to perform the contract, should the circumstances warrant such assessment in the overall interest of the Employer.</p>
7.	<p>Consideration of offer shall be subject to customer's approval of bidders, if applicable.</p>
8.	<p>After satisfactory fulfilment of all the above criteria / requirement, offer shall be considered for further evaluation as per NIT and all the other terms of the tender.</p>
9.	<p>Bidder shall provide all necessary data such as type, design make, capacity, duty, conditions, date of commissioning operation etc.</p>

NAME OF PROJECT: 3x200MW + 3X500MW RAMAGUNDAM STPP (FGD SYSTEM PACKAGE)				Vendor Name							
NAME OF PACKAGE: HVAC FOR FGD				ENQUIRY NO :							
TECHNICAL SPECIFICATION No: PE-TS-467-(571-13000-A)-A001				Supply				Services		Total Scope (Supply + Services)	
S. No.	DESCRIPTION	UNIT	QTY	Unit Ex-Works Price (INR)	Total Ex-Works Price (INR)	Freight %	Freight in INR	Total FOR Site Price Excluding GST	Unit Price (INR)		Total Price (INR)
2.4	Total lumpsum firm price for Mandatory Spares 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	-	-	-	-	-	-	-	
2.5	Total lumpsum firm price for providing OPERATION AND MAINTENANCE SERVICE (24x7) including manpower, supervision, consumables etc. for operation & maintenance of HVAC System after commissioning of HVAC system & before final handing over to end customer in flawless condition for the scope defined as per technical specification.	Months*	6	-	-	-	-	-	-	-	

Note:

- 1) Lumpsum price quoted at Sl.no 1.0 shall be considered for evaluation.
- 2) For detailed scope of Operation and Maintenance Services, Technical Specification (PE-TS-467-(571-13000-A)-A001) 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.
- 3) The Design and Engineering charges as mentioned above in S.No. 2.1* shall be 2% of the contract value for HVAC System (including main supply, E&C, Mandatory Spares i.e Total of Sl.no.2.2, 2.3 & 2.4 only). Further, out of this total 2% amount for Design and Engineering, 1% shall be payable after submission of basic engineering drawings / documents (as mentioned in relevant chapter of technical specification) whereas remaining 1% shall be payable after approval of basic engineering drawings / documents as per tender specification. In case Design and Engineering prices quoted by bidder are less than 2% of total contract value, Design and Engineering prices shall be adjusted from supply prices quoted by bidder, to make the same as 2% of total contract value.

**SUGGESTED PRICE FORMAT
ANNEXURE - I**

NAME OF PROJECT: 3x200MW + 3X500MW RAMAGUNDAM STPP (FGD SYSTEM PACKAGE)							
NAME OF PACKAGE: HVAC FOR FGD							
TECHNICAL SPECIFICATION No: PE-TS-467-(571-13000-A)-A001							
SL NO	DESCRIPTION	Qty	UNIT	SUPPLY		E&C	
				Unit Ex-Works Price (INR)	Total Ex-Works Price (INR)	Unit E&C Price (INR)	Total E&C Price (INR)
A	AC SYSTEM						
1a*	DX type, air cooled condensing unit of minimum 65 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.	4	Nos	₹	-	₹	-
1b*	Sheet metal cabinet type air handling units (double skin as per specification) The draw through horizontal AHUs (min. 60 mmWC SP) shall comprise of Dampers, pre filter, fine filters, DX-cooling coil, Fan section with fan & TEFC sq cage induction motor, VFD, 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.	4	Nos	₹	-	₹	-
1c*	Monsoon reheating / winter heating kit comprising strip heaters, safety controls, air-stat, contactors, frame work, thermostat etc.	1	LOT	₹	-	₹	-
1d*	Pan type humidifier, comprising geyser stat, for each AHU room.	1	LOT	₹	-	₹	-
1e*	Fresh air fan (axial flow type), complete with motor, inlet cone, air filters (pre and fine), dampers etc.	1	LOT	₹	-	₹	-
2*	MS medium class drain piping upto nearest drain point with insulation & cladded and without insulation						
a*	50mm with insulation and cladding	10	Rmt*	₹	-	₹	-
b*	40mm with insulation and cladding	10	Rmt*	₹	-	₹	-
c*	50mm without insulation and cladding	10	Rmt*	₹	-	₹	-
d*	40mm without insulation and cladding	10	Rmt*	₹	-	₹	-
3*	Air-cooled split type AC units consisting of condensing unit & evaporating unit including refrigerant pipes & fittings with insulation etc.						
(a)*	2.0 TR capacity (non-ductable type, 240 V, 1 phase) 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.	12	Nos*	₹	-	₹	-
(b)*	1.5 TR capacity (non-ductable type, 240 V, 1 phase) 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.	12	Nos*	₹	-	₹	-
B	VENTILATION SYSTEM						
1a*	Modular type Unitary air filtration unit with centrifugal fan with motor, pumps 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 .	2	No	₹	-	₹	-
2*	Roof extractor units (axial flow type) with hood, disconnect switch and all accessories as specified. Following fan shall have 15 mmwc static pressure.						
a)*	Capacity 40,000 CMH	2	Nos.*	₹	-	₹	-
b)*	Capacity 20,000 CMH	2	Nos.*	₹	-	₹	-
3*	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). Following fan shall have 30 mmwc static pressure.						
a)*	Capacity 10,000 CMH	14	Nos.*	₹	-	₹	-
b)*	Capacity 7,500 CMH	8	Nos.*	₹	-	₹	-
c)*	Capacity 6,000 CMH	10	Nos.*	₹	-	₹	-
d)*	Capacity 4,000 CMH	6	Nos.*	₹	-	₹	-
4*	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	28	Nos.*	₹	-	₹	-
b)*	Capacity 7,500 CMH	24	Nos.*	₹	-	₹	-
c)*	Capacity 6,000 CMH	16	Nos.*	₹	-	₹	-
d)*	Capacity 4,000 CMH	14	Nos.*	₹	-	₹	-
5*	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 10,000 CMH	4	Nos.*	₹	-	₹	-

**SUGGESTED PRICE FORMAT
ANNEXURE - I**

NAME OF PROJECT: 3x200MW + 3X500MW RAMAGUNDAM STPP (FGD SYSTEM PACKAGE)								
NAME OF PACKAGE: HVAC FOR FGD								
TECHNICAL SPECIFICATION No: PE-TS-467-(571-13000-A)-A001								
SL NO	DESCRIPTION	Qty	UNIT	SUPPLY		E&C		
				Unit Ex-Works Price (INR)	Total Ex-Works Price (INR)	Unit E&C Price (INR)	Total E&C Price (INR)	
b)*	Capacity 7,500 CMH	4	Nos.*	₹	-	₹	-	
c)*	Capacity 4,000 CMH	2	Nos.*	₹	-	₹	-	
d)*	Capacity 2,000 CMH	2	Nos.*	₹	-	₹	-	
6*	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	16	Nos.*	₹	-	₹	-	
b)*	Capacity 10,000 CMH	10	Nos.*	₹	-	₹	-	
c)*	Capacity 7,500 CMH	12	Nos.*	₹	-	₹	-	
d)*	Capacity 6,000 CMH	10	Nos.*	₹	-	₹	-	
e)*	Capacity 4,000 CMH	10	Nos.*	₹	-	₹	-	
f)*	Capacity 2,000 CMH	6	Nos.*	₹	-	₹	-	
7*	Exhaust fan (propeller type) completes 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 1200 CMH	20	Nos.*	₹	-	₹	-	
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 275 gms/sq.m) Ducting with support structure etc.							
a)*	18 G	400	SQM*	₹	-	₹	-	
b)*	20 G	500	SQM*	₹	-	₹	-	
c)*	22 G	750	SQM*	₹	-	₹	-	
d)*	24 G	850	SQM*	₹	-	₹	-	
1.2*	Thermal insulation along with finish as per specification for AC Supply,Return air and exposed Vent. Supply air duct	1500	SQM*	₹	-	₹	-	
1.3*	Supply air Grill/diffuser with VCD (Extruded Aluminium).	15	SQM*	₹	-	₹	-	
1.4*	Return air Grill/diffuser without VCD (Extruded Aluminium).	25	SQM*	₹	-	₹	-	
1.5*	Supply air Grill/diffuser with VCD (MS, POWDER COATED).	30	SQM*	₹	-	₹	-	
1.6*	Return air Grill/diffuser without VCD (MS, POWDER COATED).	40	SQM*	₹	-	₹	-	
1.7*	Volume control damper in GI construction as per specification	12	SQM*	₹	-	₹	-	
1.8*	Wall mounted dampers (gravity operated) for different areas.	15	SQM*	₹	-	₹	-	
1.9*	Inlet Louvres	15	SQM*	₹	-	₹	-	
1.10*	MS Duct With Epoxy paint for battery room.	80	SQM*	₹	-	₹	-	
2*	ACOUSTIC INSULATION (AS PER THE SPECIFICATION)	250	SQM*	₹	-	₹	-	
3*	FIRE DAMPER							
a)*	Fire damper	18	SQM*	₹	-	₹	-	
b)*	Fusible Link type Fire Damper	5	Nos*	₹	-	₹	-	
4*	Motorized Actuator with single phase power supply for the above Fire damper and Volume control damper with auto resetting, limit switches, indication lamps etc.	18	Nos*	₹	-	₹	-	
5*	Handling arrangement							
a)*	Manually operated, platform trolley of 1Ton capacity	1	Nos*	₹	-	₹	-	
b)*	1T Chain pulley block with travelling trolley	1	Nos*	₹	-	₹	-	
c)*	1T chain pulley block without travelling trolley	1	Nos*	₹	-	₹	-	
6	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, flow meters, RH and Temperature sensor and other required instruments as per specifications, including necessary control panel form hook up with main DDCMIS as per specifications	1	LOT	₹	-	₹	-	
7*	Providing full support during FAT of DDCMIS, preparation of control scheme, and commissioning of DDCMIS as per relevant specification.	20	Mandays*	NA	NA	₹	-	
8	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	₹	-	₹	-	
9	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	₹	-	₹	-	
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.							
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.							

**SUGGESTED PRICE FORMAT
ANNEXURE-II
LIST OF MANDATORY SPARES**

NAME OF PROJECT: 3x200MW + 3X500MW RAMAGUNDAM STPP (FGD SYSTEM)				
NAME OF PACKAGE: HVAC FOR FGD				
TECHNICAL SPECIFICATION No: PE-TS-467-(571-13000-A)-A001				
SI. No.	ITEM DESCRIPTION	QTY.	UNIT	Total Ex-Works Price (INR)
AIR CONDITINING AND VENTIALTION SYSTEM				
1	Air handling unit (for each model)			
1.1	V-belts for AHU Blower	2	Sets	
1.2	AHU Blower bearing	1	Sets	
1.3	Blower motor bearing	1	Sets	
1.4	Filters at suction and discharge of all AHUs	25% of installed population	Nos.	
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	Sets	
2.2	UAF Pump			
2.2.1	Pump bearings	1	Sets	
2.2.2	Impeller for pump	1	Nos.	
2.2.3	Pump Shaft	1	Nos.	
2.2.4	Shaft sleeves	1	Sets	
2.2.5	Gland Packings for pumps	1	Sets	
2.2.6	Nylon Filter	1	Sets	
2.2.7	Spray nozzles	5% of total population or 50 Numbers whichever is higher.	Nos.	
2.2.8	Water strainer	1	Nos.	
2.2.9	Brass suction screen/strainer for unitary air filtration tank.	1	Sets	
2.2.10	Motor for Centrifugal fan for UAF	1	Nos.	
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)	Nos.	
3.2	Temperature elements			
3.2.1	RTD's*	5% or 1 No. which ever is more **	Nos.	
3.2.2	Thermo well*	5% or 1 No. which ever is more **	Nos.	
3.3	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)	Nos.	
3.4	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.	Nos.	
3.5	Relative Humidity Sensors	1	Nos.	
3.6	Geyser stat	1	Nos.	
3.7	Local Humidity/Temperature indicators	2Nos. each.	Nos.	
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.	Nos.	
4.2	2 way, 3way, 5way valve manifolds	10% or 1 No. of each type, class, size and model whichever is more.	Nos.	
4.3	Fittings	10% or 1 No. of each type, class, size and model whichever is more.	Nos.	
(II)	Ventilation System			
5	Measuring Instruments			
5.1	Pressure Gauge	1 No. (for centrifugal pumps of UAF units).	Nos.	
5.2	Level transmitter	1 No.	Nos.	
5.3	Pressure transmitter	1 No. (for UAF units)	Nos.	

Sl. No.	ITEM DESCRIPTION	QTY.	UNIT	Total Ex-Works Price (INR)
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	Nos.	
6.2	2 way valve manifold	1 no. of each type, class, size and model	Nos.	
6.3	Fittings	1 no. of each type, class, size and model	Nos.	
TOTAL				₹ -
Notes:				
1	Mandatory spares listed in Price Schedule 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 bidder's scope of supply.			
2	A 'set' means items or sub-items required for each type/size range of the assembly/ sub-assembly, required for replacement in one main equipment. It is further intended that the assembly/ sub-assembly which have different orientation (like left hand or right hand, top or bottom), different direction of rotation or mirror image positioning or any other reasons which result in maintaining two different sets of the spares to be used for the subject assembly/ sub-assembly, these shall be considered as different types of assembly/ sub-assembly.			
3	All mandatory spares shall be supplied as per the requirement of the tender specifications. In case spares indicated in the list are not applicable to the particular design offered by the bidder, the bidder should offer spares applicable to offered design with quantities generally in line with the approach followed in the above list, without any commercial implication.			
4	Whenever the quantities have been indicated for each type, size, thickness, material, radius, range etc., these shall cover all the items supplied and installed			
5	Wherever rubber part viz: coupling, V belt, flexible hose etc. have been used ,minimum quantity as specified above is to be supplied and any item which is not covered above minimum 10% or 01 no whichever is higher is to be supplied.			
6	Wherever non-metallic fabric/paper filter etc. have been used ,minimum quantity as specified above is to be supplied and any item which is not covered above minimum 10% or 01 no whichever is higher is to be supplied			
7	Wherever quantity has been specified as percentage (%), the quantity of mandatory spares to be provided by contractor shall be the specified percentage (%) of the total population of the plant. In case the quantity so calculated happens to be a fraction, the same shall be rounded off to next higher whole number.			
8	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.			
9	Any special tool required for maintenance of any of the equipment being supplied is to be included in mandatory T&P along with the equipment.			
10	Any cell left blank in the unpriced schedule shall be treated as "Quoted" and is included in total price.			
11	* With head assembly, terminal block and nipple			
12	** to be divided into various insertion lengths in proportion to main population			

SUGGESTED PRICE FORMAT
APPENDIX - A
Maintenance tools & tackles

NAME OF PROJECT: 3x200MW + 3X500MW RAMAGUNDAM STPP (FGD SYSTEM PACKAGE)

NAME OF PACKAGE: HVAC FOR FGD

TECHNICAL SPECIFICATION No: PE-TS-467-(571-13000-A)-A001

SL NO	DESCRIPTION	UNIT	Qty	Unit Ex-Works Price (INR)	Total Ex-Works Price (INR)
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 / TACKLE 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.

SUGGESTED PRICE FORMAT
APPENDIX - B
Commissioning spares

NAME OF PROJECT: 3x200MW + 3X500MW RAMAGUNDAM STPP (FGD SYSTEM PACKAGE)					
NAME OF PACKAGE: HVAC FOR FGD					
TECHNICAL SPECIFICATION No: PE-TS-467-(571-13000-A)-A001					
SL NO	DESCRIPTION	UNIT	Qty	Unit Ex-Works Price (INR)	Total Ex-Works Price (INR)
1	FAN BELTS	SET	1		₹ -
2	PRESSURE GAUGE	NO.	1		₹ -
3	TEMPERATURE GAUGE	NO.	1		₹ -
4	FILTER	SET	1		₹ -
5	COMPRESSOR OIL	Lot	1		₹ -
6	REFRIGERANT	Lot	1		₹ -
7	LUBRICANT (EACH TYPE)	Lot	1		₹ -
Total					₹ -
NOTES					
1	ABOVE IS THE MINIMUM LIST. ANY OTHER COMMISSIONING SPARE REQUIRED FOR THE SYSTEM SHALL ALSO BE PROVIDED BY THE VENDOR WITHOUT ANY COST IMPLICATION.				

**SUGGESTED PRICE FORMAT
ANNEXURE-III:
GUARANTEED POWER CONSUMPTION FORMAT**

NAME OF PROJECT:		3x200MW + 3X500MW RAMAGUNDAM STPP (FGD SYSTEM PACKAGE)				
NAME OF PACKAGE:		HVAC FOR FGD				
TECHNICAL SPECIFICATION No:		PE-TS-467-(571-13000-A)-A001				
GUARANTEED POWER CONSUMPTION FORMAT						
Sl.No.	Description / Item	Working	Standby	Power Consumption (KW) (at motor input terminal)	Duty Factor	Power Consumption (KW)
1	2	3	4	5	6	7 = 3 x 5 x 6
1	AC SYSTEM					
1.1	AIR COOLED CONDENSING UNIT					
1.1.1	OUTDOOR UNIT	3	3			
1.1.2	AHU FAN	3	3		1	
2	VENTILATION SYSTEM					
2.1	UAF					
2.1.1	UAF FAN	2	0		1	
				Total Guaranteed power (KW)		

Notes

1	<p>Estimated power consumption (EPC) figure for the system (for working drives only) has been considered as 252 KW. So long bidder's quoted guaranteed power consumption (GPC) above remains within this EPC, there will be no technical loading of bid on power consumption for evaluation. However, if bidder's quoted GPC exceeds EPC, there shall be technical loading of bid for evaluation @ INR 249478/- (INR Two Hundred Forty Nine Thousand Four Hundred Seventy Eight only) per KW of additional power over EPC.</p> <p>Bidder's guaranteed power consumption at motor input terminals (not shaft power) as furnished in relevant schedule shall be demonstrated by the successful bidder during performance testing at works/ site. In case power consumption is noted higher than EPC / bidder's quoted GPC whichever is higher, during inspection/ PG test, penalty @ INR 249478/- (INR Two Hundred Forty Nine Thousand Four Hundred Seventy Eight only) per KW shall be levied on vendor.</p> <p>Above guaranteed power consumption value shall be at 20 deg. C for centrifugal fans for AHUs and 30 deg. C for centrifugal fans of UAF units and at an elevation of RL of site for both AHUs and UAF centrifugal fans.</p>
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ANNEXURE-II DEVIATION SHEET (COST OF WITHDRAWAL)									
PROJECT:-					3x200MW + 3X500MW RAMAGUNDAM STPP (FGD SYSTEM PACKAGE)				
PACKAGE :-					HVAC FOR FGD				
TENDER ENQUIRY :-									
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:

- Cost of Withdrawal of deviation will be applicable on the basic price (i.e. excluding taxes, duties & freight) only.
- All the bidders have to list out all their technical & commercial deviations (if any) in details in the above format.
- Any deviation not mentioned above and shown separately or found hidden in offer, will not be taken cognizance of.
- Bidder shall submit duly filled unpriced copy of above format indicating "quoted" in "cost of withdrawl 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.
- Bidder shall furnish price copy of above format along with price bid.
- The final decision of acceptance/ rejection of the deviations quoted by the bidder shall be at discretion of the Purchaser.
- Bidders to note that any deviation (technical/commercial) not listed in above and asked after Part-I opening shall not be considered.
- For deviations w.r.t. Credit Period, Liquidated damages, Firm prices if a bidder chooses not to give any cost of withdrawl 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 withdrawl of deviation shall be taken as NIL.
- Any deviation mentioned in priced copy of this format, but not mentioned in the un-priced copy, shall not be accepted.
- 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.
- Cost of withdrawl is to be given separately for each deviation. In no event bidder should club cost of withdrawl of more than one deviation else cost of withdrawl of such deviations which have been clubbed together shall be considered as NIL.
- In case nature of cost of withdrawl (positive/negative) is not specified it shall be assumed as positive.
- In case of discrepancy in the nature of impact (positive/ negative), positive will be considered for evaluation and negative for ordering.



These Conditions shall be read and construed along with General Conditions of Contract (GCC) rev.07 dated 10.01.2020 to be enclosed along with the tender enquiry. In case of any conflict or inconsistency, the conditions given in SCC shall prevail over the GCC.

SI No.	Title	Description
1.	Project Name	3 X 200 + 3 X 500 MW NTPC RAMAGUNDAM TPP STAGE I & II- FGD (LOT-3)
2.	Nature of project & Type of Bidding	Competitive Bidding
3.	Customer Order Ref No	CS-3120/3130-109(3)-9-FC-NOA-6845 dtd. 22.08.2019 CS-3120/3130-109(3)-9-SC-NOA-6846 dtd. 22.08.2019
4.	BHEL's Customer	NATIONAL THERMAL POWER CORPORATION (NTPC)
5.	NTPC site GST No.	36AAACN0255D1ZZ
6.	Customer Consultants	No consultant
7.	Consignee Address (Bill To)	For supply package: BHEL, Power Sector-Project Engineering Management, Power Project Engineering Institute, Plot No. 25, Sector-16A, Noida, Uttar Pradesh-201301. GSTIN: 09AAACB4146P2ZC For turnkey packages (where BHEL-PEM will issue only the LOA and Purchase Order shall be issued by BHEL-PSWR): Construction Manager, BHEL site office, 3 X 200 + 3 X 500 MW NTPC RAMAGUNDAM TPP STAGE I & II- FGD (LOT-3), Ramagundam, Distt. Pedapalli, Telangana 505215 BHEL PSWR GSTIN No.- 36AAACB4146P4ZD
8.	Delivery Address (Ship To)	Construction Manager, BHEL site office, 3 X 200 + 3 X 500 MW NTPC RAMAGUNDAM TPP STAGE I & II- FGD (LOT-3), Ramagundam, Distt. Pedapalli, Telangana 505215
9.	BHEL Site Office Address	Construction Manager, BHEL site office, 3 X 200 + 3 X 500 MW NTPC RAMAGUNDAM TPP STAGE I & II- FGD (LOT-3), Ramagundam, Distt. Pedapalli, Telangana 505215
10.	Location of Plant	Site is located in the Peddapalli district of the Indian state of Telangana. about 60 kms from Karimnagar town and 100 kms from Warangal. Ramagundam Railway station is on the Delhi - Chennai main line. Ramagundam is well connected to Hyderabad by Rajiv Rahadani state highway. The aerial distance from Ramagundam to Hyderabad is 178 km while the road distance between Ramagundam to Hyderabad is 209 km and by train it is 224 Km. Nearest commercial airport is Rajiv Gandhi International Airport, Hyderabad at about 250 km.
11.	Mode of Dispatch	For indigenous supplies: By Road on door delivery and freight pre-paid basis. For imported supplies: On C&F basis
12.	BHEL GSTIN Details	For supply packages: BHEL-PEM is registered in the State of Uttar Pradesh with GSTIN 09AAACB4146P2ZC For Turnkey packages: BHEL PSWR GSTIN No.- 36AAACB4146P4ZD
13.	Transit Insurance	In BHEL Scope. For each dispatch, vendor shall inform the following to the Underwriter under intimation to BHEL-PEM and BHEL Site office: (i) Policy No. (ii) Consignee Name. (iii) Consignment Details (items with their weights and value (in INR). (iv) Project Name and P.O. No. (v) LR No. and date, Dispatch origin and destination details, Invoice No. Vendors to intimate the underwriters quoting the insurance Policy No. as mentioned in PO

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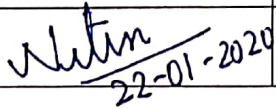
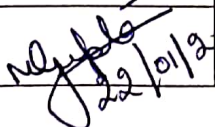
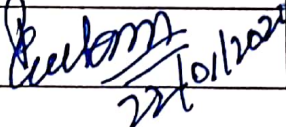
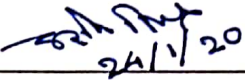
14.	Dispatch intimation	Yes, in writing, not less than 30 (Thirty) days prior to date of shipment and dispatch details to be sent to: BHEL Site office (address as mentioned at Sl. No. 9) BHEL PEM Noida (address as mentioned in NIT for PO issued by PEM) BHEL PSWR Nagpur (For PO Issued by BHEL PSWR)
15.	Document required for Vendor's payment.	For claiming the payment, documents as mentioned in GCC rev 07 shall be submitted by vendor to BHEL. Packing List must comply to Clause No. 19.3 of General Commercial Terms & Conditions of GCC rev.07. Description of items in packing list shall be as per PO such that proper correlation between PO & packing list must be furnished. Soft copy of documents for claiming payment shall be submitted by vendor as advance copy.
16.	Buyer and Paying Authority	For packages where PEM will issue the Purchase Order: BHEL PEM will be the paying authority. For packages where BHEL-PEM will issue only the LOA and Purchase Order shall be issued by BHEL PSWR, 3 X 200 + 3 X 500 MW NTPC RAMAGUNDAM TPP STAGE I & II- FGD (LOT-3) Site will be the paying Authority.
17.	Demurrage charges	Demurrage charges shall be paid by supplier/ vendor only to the transporter. No claim shall be acceptable to BHEL in this regard.
18.	Unloading, Storage & Movement of material at site	a.) By BHEL site office for supply packages (where only supply is in vendor's scope). b.) By vendors for Turnkey (where Supply and E&C is in vendor scope) Note: The Supplier shall furnish LR wise Gross Wt. of the consignment for the purpose of handling the consignment by BHEL Site Contractor. Please note that unloading of materials at Site shall sometimes may take 3-4 days. As such, transporters to be advised suitably before dispatch of materials in this regards. Also, no claim on a/c of delay in unloading before this period shall be entertained. Prior intimation as mentioned in sl. no. 14 above is solicited
19.	Concessional custom duty against Essentiality certificate (EC)	The project has been qualified through Project Import route. Accordingly, the benefits applicable to PI project would be granted for this project. In this regard applicable documents such as Essentiality certificate will be issued by NTPC (ultimate customer). Under this, Concessional rate of Customs Duty shall be applicable on the Import Contents of the supplier respectively. Based on the above EC, Customs Duty Benefits will be passed on to the vendor. The Bidder to indicate the Import contents i.e. list of the item, Currency of Import and Country of Import including CIF value in their offers. BHEL shall inform, the availability of CIF value for a particular package, if any, at the time of NIT. The benefits availed in Concessional Customs Duty must be passed on to BHEL in their offer. Vendor shall inform BHEL and provide the necessary documents to obtain required certificates from BHEL to avail exemption. Obtaining custom duty benefit in line with the Essentiality Certificate issued shall be in vendor's scope.
20.	Taxes & Duties (For Domestic Vendor)	As per General Conditions of Contract (GCC rev 07)
21.	Taxes & Duties (For Order Directly to Foreign Bidders)	In case of foreign vendors, quoted prices & Dispatches shall be on C & F Indian (Chennai) port basis and the Taxes & duties in the country of dispatch shall be borne by Foreign vendor. All the Taxes & duties and other charges applicable in India shall be borne by BHEL-PEM for the direct order placed by PEM to the foreign bidder and by BHEL-PSWR for the orders placed by PSWR.
22.	Inspection Agency	Inspection of packages shall be carried out by agency as per below Inspection category of packages: 1) Cat-I: Inspection shall be done jointly or separately by NTPC and BHEL or BHEL's TPIA 2) Cat-II: Inspection shall be done by BHEL only. 3) Cat-III: Certificate of Compliance shall be furnished by Vendor. Note: Please note, for Cat I & II items BHEL reserve the right to carry inspection by themselves or through nominated third party inspection agency (TPIA). For Inspecting Agency for various items, vendor may refer to Quality Plan. Third party inspection agency, if any, shall be informed after award of contract.

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22/10/2020

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23.	Inspection procedure	<p><u>For Domestic supplies</u></p> <p>Please refer clause no. 14.0 of GCC Rev 07. Vendor to furnish photographs pertaining to packing of materials before despatch. MDCC shall be issued on the basis of clear inspection report (CQIR).</p> <p><u>For Foreign supplies</u></p> <p>In case of Foreign supplies, if NTPC approved 3rd party inspection agency does not participate in the inspection, test certificates & inspection reports duly accepted by the agreed inspection agency shall be submitted in soft copy to BHEL-PEM. The same shall be reviewed by PEM and then, sent to NTPC for clearance. Vendor to furnish photographs pertaining to packing of materials before despatch. The dispatch clearance (MDCC) by NTPC/ BHEL as applicable shall be given to the foreign supplier or representative in India after acceptance of above test certificates.</p>
24.	Material Dispatch Clearance Certificate (MDCC) Issuing Agency	<p>For Cat-I item, MDCC shall be issued by NTPC and it's the responsibility of vendor to arrange MDCC from them and furnish original MDCC to BHEL.</p> <p>For Cat- II & Cat-III items, MDCC shall be issued by BHEL, which shall be valid for the vendor payment. However, the vendor shall furnish all requisite documents like Material Test Certificates, Inspection Reports etc. required for obtaining of NTPC MDCC by BHEL.</p>
25.	Submission of Final Drgs/Docs alongwith O&M Manual, Type Test Certificates (if any)	<p><u>No. of O&M Manuals</u></p> <p>As per GCC rev.07/ Technical Specification/Kick-off meeting.</p> <p>If not specified anywhere, Vendor to submit final approved O&M Manual in 12 Hard copies and 4 No of CD ROMs/DVDs/Portable Hard Disk.</p>

	Prepared by	Checked by	Reviewed by	Approved by
Name	Nitin Kumar	Manisha Gupta	P.K. Gautam	Asim Mishra
Designation	Dy. Mgr./ PG III	Manager/ PG III	SDGM/ PG III	AGM & DH/ PG III
Signature	 22-01-2020	 22/01/20	 22/01/2020	 24/1/20

Annexure-A

2.00.00	CONSTRUCTION FACILITIES The following are also in the Bidder's scope of work: <ol style="list-style-type: none">1. Providing drinking and service water for Bidder's labour, staff and other personnel working for Bidder at the work site and in his staff/ labour colony. He shall install necessary bore wells with associated pumping or water tankers and treatment facilities to supply quality water as per standards.2. Developing temporary staff colony and labour colony along with fencing etc. Land if required shall be arranged by the Bidder himself. However space required for bidder's office, storage, pre assembly and fabrication areas shall be provided by owner free of charge within the plant premises. The area to be allocated to the Bidder shall be discussed & finalized with the bidder after the award, keeping in view the availability of free space & similar requirement of other agencies.3. Providing all arrangements for distribution of construction power at various locations as per his requirements from the supply point of Owner.4. Providing all arrangements for the supply of construction water including bore-wells, water tankers etc.5. Providing temporary construction office, construction stores (open / covered), workshops, material / field testing laboratory, any other temporary buildings6. Providing all construction equipment, labour and materials. The Bidder shall provide all the tools and tackles required for the work.7. Development of the pre-assembly and storage yard with fencing, drainage, internal roads, boulder soling, etc.8. Access roads to his work sites, offices, stores, preassembly / fabrication yard, etc. as required for providing approach/access for men, materials, equipment, cranes, traylor, construction/erection activities etc., what so ever are required by the bidder, shall be constructed and maintained by the bidder. Bidder shall provide permanent access to all facilities/structures from the nearby existing roads of the Owner. Roads shall be in concrete as per IRC standards, with minimum thickness of pavement (PQC) as 250mm (in M 35 grade) and DLC of 150 thick (in M 10 grade). Double lane road (width 12m having 7.5m wide pavement & 2.25m wide shoulders on both sides) shall be provided.9. Area lighting at the construction / erection site, pre-assembly and storage yard, office areas and labour / staff colony.10. Providing all necessary fire-fighting devices / equipment / fire tender etc. required during the project execution stage. He shall maintain all such equipment / devices in proper working conditions throughout the period of work.
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	<p>7) Contractor shall provide Straight-through jointing kits for HT XLPE power cable, LT power and control cables, Cable termination kits for HT XLPE power cables, Welding receptacles, Trefoil cable clamps, Junction boxes.</p> <p>8) Contractor shall provide Galvanised steel pipes/HDPE/hume pipes/PVC pipes, Miscellaneous items like M.S sections etc as required,</p> <p>9) Contractor shall provide Fire proof cable penetration sealing system of Type-A and Type-B for cable galleries, cable exits etc</p> <p>10) In addition to other drawings, Contractor shall also prepare complete equipment layout drawings, lighting layout drawings including cable tray layout, routing, Power and control cable schedules etc</p> <p>11) Control interconnection charts shall also be prepared by Contractor</p>
1.11.00	<p>LIGHTING</p> <p>Complete lighting system for internal and external areas for the FGD system buildings, chimney and equipment in the bidder's scope. Lighting fixtures complete with lamps & accessories, LED lighting fixture complete with driver circuit & accessories Lighting Panels, Chimney aviation light, Receptacles, Switch boxes. Conduits. Lighting Wires, Ceiling fans with regulators, Lighting poles. Lighting masts, Earth wires and rods, Junction boxes, Battery operated automatic self contained lighting fixture, Maintenance ladders as required are included in the bidder's scope.</p> <p>Mandatory spare parts and maintenance equipment as required.</p>
1.12.00	<p>EARTHING AND LIGHTNING PROTECTION</p> <p>Complete below ground earth mat and above ground equipment earthing system and lightning protection for the plant and equipment under contractors scope along with its interconnection to the nearest employers earth grid at two points.</p>
1.13.00	<p>PAINTING FOR ELECTRICAL EQUIPMENT</p> <p>The painting of all electrical equipment shall be epoxy based with suitable additives. The thickness of finish coat shall be minimum 50 microns (minimum total DFT shall be 100 microns). However in case electrostatic process of painting is offered for any electrical equipment, minimum paint thickness of 50 microns shall be acceptable for finish coat. The Contractor shall furnish the complete painting details during detailed engineering stage.</p>
1.14.00	<p>CONSTRUCTION POWER</p> <p>To meet the construction power requirement of the FGD and associated systems, the Employer shall provide Two Number 415V feeders in LT switchgears. The Contractor shall extend supply from these Construction power feeders to meet the construction power requirements at the various locations included in the Contractor's scope through suitably rated Isolation Transformers along with LT</p>

	<p>distribution boards as per requirement. LT Packaged Sub-stations with isolation transformers may also be used for this purpose. Suitable metering arrangement along with associated Instrument transformers and Metering Cubicles meeting the DISCOM requirements shall be provided by the Contractor at each Construction power feeder, for the measurement of actual energy consumed by the Contractor. The charges only for the actual energy consumed by the Contractor shall be recovered by the Employer based on prevalent rate of DISCOM.</p> <p>Supply, erection, testing and commissioning of all equipments as required for further distribution for meeting the construction power requirements shall be in the Contractor's scope. All necessary statutory requirements for charging construction power of Contractor's network shall be in the Contractor's scope. Construction power supply network is a temporary arrangement which shall be used during the project construction phase. To meet this requirement, the equipments may be arranged by Contractor either by shifting their existing equipments at other installation or by fresh procurement, which may be taken back after commissioning of the project.</p> <p>Even though the Employer shall make all efforts to maintain a continuous supply of construction power, the same is not guaranteed and Employer shall not be responsible for any loss or delays which the contractor may suffer on this account. Also the Employer shall not entertain any claim for exemption/reduction of liquidated damages for delay in execution of the contract due to irregular power supply. Contractor shall arrange/provide necessary backup arrangement on his own for uninterrupted power supply.</p> <p>The Contractor shall maintain a minimum drawl power factor as per DISCOM regulations for their substations, and all such devices for maintaining power factor shall be under the scope of contractor. All temporary wiring must comply with local regulations and will be subject to Employer's inspection and approval before connection to supply. Power supply shall not be provided for use in labor and staff colony.</p>
1.15.00	<p>TYPE TEST</p> <p>Contractor shall carry out all type tests on electrical equipment's as stipulated in relevant chapters of Part-B of technical specifications.</p>
1.16.00	<p>MANDATORY SPARES</p> <p>Contractors scope shall include Mandatory Spares of all equipment as mentioned in the relevant portion of Technical Specification.</p>

**CORRIGENDA 01
TO
GENERAL CONDITIONS OF CONTRACTS (GCC)
Rev No. 07 wef 05.03.2022**

CORRIGENDA 01 TO GCC REV 07
ANNEXURE VIII REV 01

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BHARAT HEAVY ELECTRICALS LIMITED

PROJECT ENGINEERING MANAGEMENT

PPEI BUILDING, HRDI & ESI COMPLEX
PLOT NO. 25, SECTOR – 16A
NOIDA – 201301 (U.P.), INDIA

Not for Publication

For Official Use



**PROJECT ENGINEERING
MANAGEMENT**

**CORRIGENDA 01
TO
GENERAL CONDITIONS OF
CONTRACT (GCC) Revision no. 07**

SI No.	Clause Ref	Existing Clause as:	Replaced/ New Clause as:
1	19.3 of Instructions to Bidder (ITB)	New Clause	"In the course of evaluation, if more than one bidder happens to occupy L-1 status, effective L-1 will be decided by soliciting discounts from the respective L-1 bidders. In case more than one bidder happens to occupy the L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss / draw of lots, in the presence of the respective L-1 bidder(s) or their representative(s). Ranking will be done accordingly. BHEL's decision in such situations shall be final and binding."
2	26.1 of Instructions to Bidder (ITB)	New Clause	"Self-declarations/ auditor's/ accountant's certificates submitted by the manufacturer/ supplier may be verified randomly by the committee constituted as per MoP Order 28-07- 2020. In case of false documents/misrepresentation of the facts requisite action against such manufacturer/ supplier will be taken based on the recommendation of the Committee."
3	31 of Instructions to Bidder (ITB)	New Clause	<p>Restrictions under Rule 144(xi) of the General Financial Rules (GFRs), 2017.</p> <p>I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.</p> <p>II. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.</p> <p>III. "Bidder from a country which shares a land border with India" for the purpose of this Order means</p> <p>a. An entity incorporated, established or registered in such a country; or</p> <p>b. A subsidiary of an entity Incorporated. established or registered in such a country; or</p> <p>c. An entity substantially controlled through entities incorporated, established or registered in such a country; or</p> <p>d. An entity whose beneficial owner is situated in such a country: or</p>



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e. An Indian (or other) agent of such an entity; or

f. A natural person who is a Citizen of such a country; or

g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

IV. The beneficial owner for the purpose of (iii) above will be as under:

1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership Interest or who exercises control through other means, Explanation-

2 a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent. of shares or capital or profits of the company;

b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions Including by virtue of their shareholding or management rights or shareholder's agreements or voting agreements;

2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together. or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;

3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of Individuals;

4. Where no natural person is Identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;

5. In case of a trust, the identification of beneficial owner(s) shall Include identification of the author of the trust. the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person



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			Note- The above clause shall not be applicable for the bidders from those countries (even if sharing a land order with India) to which the Government of India (GoI) has extended lines of credit or in which the GoI is engaged in development work.
4	19.4 of Instructions to Bidder (ITB)	New Clause	The evaluation currency for this tender shall be INR.
5	19.5 of Instructions to Bidder (ITB)	New Clause	Bidders to ensure that Third party/customer issued certificates being submitted as proof of PQR qualification should have verifiable details of document/certificate issuing authority such as name & designation of Issuing Authority and its organization contact number and e-mail Id etc. In case the same found not available, Purchaser has right to reject such document from evaluation
6	32 of Instructions to Bidder (ITB)	New Clause	The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines
7	14 A of General Commercial Terms and Conditions (GCTC)	New Clause	All Bidders to comply Govt. of India, Ministry of Power, Order No-25/11/2018-PG dtd 02/07/2020 regarding mandatory testing of all the imported items/equipment's/components.
8	33 of Instructions to Bidder (ITB)	New Clause	For order exceeding Rs 25 lakhs, Successful L1 bidder to submit mandatorily the GeM Seller ID before placement of Order/Award of contract
9	34 of Instructions to Bidder (ITB)	New Clause	Wherever Service charges like Supervision, Inspection, etc. consequent or incidental to supply are envisaged in tender, such charges should not exceed 2% of the total contract value. It is recommended that such charges be sought on per visit / per day basis, and the evaluation of the tender is to be done including the cost of the service charges



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10	11.10 of General Commercial Terms and Conditions (GCTC)	New Clause	Bidder to submit performance security required for execution of the contract within the time period mentioned. In case of delay in submission of performance security, enhanced performance security which would include interest (SBI rate + 6%) for the delayed period, shall be submitted by the bidder. Further, if performance security is not submitted till such time the first bill becomes due, the amount of performance security due shall be recovered as per terms defined in NIT I contract, from the bills along with due interest
11	Annexure VIII Rev 01	Annexure VIII (Page 14 of 31 to 17 of 31)	<p>Annexure VIII of Annexures to GCC Rev 07 for Integrity Pact has been revised and replaced with Annexure VIII Rev 01 annexed with Corrigenda 01 to GCC Rev 07</p> <p>Annexure VIII mentioned at clause number 12.0 of "Instruction to Bidders" of GCC Rev 07 shall be read as Annexure VIII Rev 01 which is annexed with Corrigenda 01 to GCC Rev 07.</p>

	<p style="text-align: center;">PROJECT ENGINEERING MANAGEMENT</p>	<p style="text-align: center;">GENERAL CONDITIONS OF CONTRACT (GCC)</p> <p style="text-align: center;">Revision no. 07</p>	<p style="text-align: center;">ANNEXURES</p>
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ANNEXURE– VIII (Rev 01)

INTEGRITY PACT

Between

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi - 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

And

_____, (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

Preamble

The Principal intends to award, under laid-down organizational procedures, contract/s for _____ (hereinafter referred to as "Contract"). The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).


In order to achieve these goals, the Principal will appoint panel of Independent External Monitor(s) (IEMs), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1- Commitments of the Principal

- 1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 - 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
 - 1.1.3 The Principal will exclude from the process all known prejudiced persons.
- 1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder(s)/ Contractor(s)

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. The Bidder(s)/ Contractor(s) commits himself to observe the following principles during participation in the tender process and during the contract execution.
 - 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.

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- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant Indian Penal Code (IPC) and Prevention of Corruption Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and shall await their decision in the matter.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process, terminate the contract, if already awarded, exclude from future business dealings and/ or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 4 - Compensation for Damages


- 4.1 If the Principal has disqualified the Bidder (s) from the tender process before award / order acceptance according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal is entitled to terminate the Contract according to Section 3, or terminates the Contract in application of Section 3 above, the Bidder(s)/ Contractor (s) transgression through a violation of Section 2 above shall be construed breach of contract and the Principal shall be entitled to demand and recover from the Contractor an amount equal to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee, whichever is higher, as damages, in addition to and without prejudice to its right to demand and recover compensation for any other loss or damages specified elsewhere in the contract.

Section 5 - Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 (three) years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason or action can be taken as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 6 - Equal treatment of all Bidder (s)/ Contractor (s) / Sub-contractor (s)

- 6.1 The Principal will enter into Integrity Pacts with identical conditions as this Integrity Pact with all Bidders and Contractors.
- 6.2 In case of Sub-contracting, the Principal Contractor shall take the responsibility of the adoption of Integrity Pact by the Sub-contractor(s) and ensure that all Sub-contractors also sign the Integrity Pact.

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6.3 The Principal will disqualify from the tender process all Bidders who do not sign this Integrity Pact or violate its provisions

Section 7 - Criminal Charges against violating Bidders/ Contractors /Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 -Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible panel of Independent External Monitor (s) (IEMs) for this Integrity Pact. The task of the IEMs is to review independently and objectively, whether and to what extent the parties comply with the obligations under this Integrity Pact.
- 8.2 The IEMs are not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The IEMs shall be provided access to all documents/ records pertaining to the Contract, for which a complaint or issue is raised before them as and when warranted. However, the documents/records/information having National Security implications and those documents which have been classified as Secret/Top Secret are not to be disclosed.
- 8.4 The Principal will provide to the IEMs sufficient information about all meetings among the parties related to the Contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the IEMs the option to participate in such meetings.
- 8.5 The advisory role of IEMs is envisaged as that of a friend, philosopher and guide. The advice of IEMs would not be legally binding and it is restricted to resolving issues raised by a Bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some Bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.
- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process or during execution of Contract, the matter should be examined by the full panel of IEMs jointly, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.
- 8.7 The IEMs would examine all complaints received by them and give their recommendations/ views to the CMD, BHEL at the earliest. They may also send their report directly to the CVO, in case of suspicion of serious irregularities requiring legal/ administrative action. Only in case of very serious issue having a specific, verifiable Vigilance angle, the matter should be reported directly to the Commission. IEMs will tender their advice on the complaints within 30 days.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the IEMs and its terms and conditions.
- 8.9 IEMs should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the Principal should be looked into by the CVO of the Principal.
- 8.10 If the IEMs have reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code / Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the IEMs may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 After award of work, the IEMs shall look into any issue relating to execution of Contract, if specifically raised before them. As an illustrative example, if a Contractor who has been awarded the Contract, during the execution of Contract, raises issue of delayed payment etc. before the IEMs, the same shall be examined by the panel of IEMs. Issues like warranty/ guarantee etc. shall be outside the purview of IEMs.

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8.12 However, the IEMs may suggest systemic improvements to the management of the Principal, if considered necessary, to bring about transparency, equity and fairness in the system of procurement.

8.13 The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

9.1 This Integrity Pact shall be operative from the date this Integrity Pact is signed by both the parties till the final completion of contract for successful Bidder, and for all other Bidders 6 months after the Contract has been awarded. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.

9.2 If any claim is made/ lodged during currency of this Integrity Pact, the same shall be binding and continue to be valid despite the lapse of this Pact as specified above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 - Other Provisions

10.1 This Integrity Pact is subject to Indian Laws and exclusive jurisdiction shall be of the competent Courts as indicated in the Tender or Contract, as the case may be.

10.2 Changes and supplements as well as termination notices need to be made in writing.

10.3 If the Bidder(s)/ Contractor (s) is a partnership or a consortium or a joint venture, this Integrity Pact shall be signed by all partners of the partnership or joint venture or all consortium members.

10.4 Should one or several provisions of this Integrity Pact turn out to be invalid, the remainder of this Integrity Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

10.5 Only those bidders / contractors who have entered into this Integrity Pact with the Principal would be competent to participate in the bidding. In other words, entering into this Integrity Pact would be a preliminary qualification.

10.6 In the event of any dispute between the Principal and Bidder(s)/ Contractor(s) relating to the Contract, in case, both the parties are agreeable, they may try to settle dispute through Mediation before the panel of IEMs in a time bound manner. In case, the dispute remains unresolved even after mediation by the panel of IEMs, either party may take further action as the terms & conditions of the Contract. The fees/expenses on dispute resolution through mediation shall be shared by both the parties. Further, the mediation proceedings shall be confidential in nature and the parties shall keep confidential all matters relating to the mediation proceedings including any settlement agreement arrived at between the parties as outcome of mediation. Any views expressed, suggestions, admissions or proposals etc. made by either party in the course of mediation shall not be relied upon or introduced as evidence in any further arbitral or judicial proceedings, whether or not such proceedings relate to the dispute that is the subject of mediation proceedings. Neither of the parties shall present IEMs as witness in any Alternative Dispute Resolution or judicial proceedings in respect of the dispute that was subject of mediation.

 For & On behalf of the Principal
 (Office Seal)

 For & On behalf of the Bidder/ Contractor
 (Office Seal)

Place-----
 Date-----

Witness: _____
 (Name & Address) _____

Witness: _____
 (Name & Address) _____

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-.....

Name of Package:

Dear Sir,

We hereby certify that items of(Package name)
for.....(Project Name) offered by M/s(bidder's name)
having its works/office at has 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 an M/s..... qualifies as Class-I/Class-II (strike out whichever is not applicable) local supplier.

Details of the location(s) at which the local value addition-

Yours very truly

..... (Signing Authority Name & Sign)

..... (Firm Name)

Company Stamp

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:

Order no-F6/18/2019-PPD dated 23.07.2020 issued by Ministry of Finance.

Tender Enquiry No-.....

Offer No-.....

Name of Package:

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)