

SUGGESTED PRICE FORMAT		Doc No:	PF-PE-407-571-11000-A001				
		Rev No:	0				
		Date of issue	21.05.2019				
NAME OF PROJECT:		2X60 MW VYASI HEP					
NAME OF PACKAGE:		HVAC SYSTEM					
TECHNICAL SPECIFICATION No:		PE-TS-407-571-11000-A001					
S. No.	DESCRIPTION	UNIT	QTY	HSN/SAC CODE			
1	Total lump sum firm price 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, spares alongwith spares for erection, startup and commissioning as required, forwarding, proper packing, shipment and delivery at site, unloading, handling, transportation to stores area & storage, transporation to site (from stores area) & 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.	Lot	1				
2	MAJOR BREAK-UP OF PRICES GIVEN IN 1.0 ABOVE.						
2.1	Total lump sum firm price for Supply part comprising of design (i.e.preparation and submission of drawing /documents including "As Built" drawings and O&M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable), fill of lubricants & consumables alongwith spares for erection as required, startup 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	84158290			
2.2	Total lumpsum firm prices for Services part comprising for unloading, handling, transportation to stores area & storage, transporation to site (from stores area) & 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	995463			
2.3	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	84159000			
2.4	Total lumpsum firm for Operation of HVAC System 24x 7 Hr. (Operation & maintenance). Providing complete O&M service as per scope of tender on monthly basis.	Months*	24	995463			

Note:

- 1.) BOP to consider and suitably incorporate taxes, duties and other commercial aspects.
- 2.) Bidder to quote the Prices in 'figures' along with corresponding 'words'.

Particulars of bidder / authorised representative						
	Name	Designation	Signature	Date		Company Seal

SUGGESTED PRICE FORMAT ANNEXURE - I PRICE BREAKUP (FOR MAIN PLANT AND OTHER AUX BUILDINGS)					Doc No:	PF-PE-407-571-11000-A001
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SL NO	DESCRIPTION	Qty	UNIT			
A	VENTILATION SYSTEM					
1	Sheet metal cabinet type double skin AIR HANDLING UNITS (2x100%) of min. 200000 CMH & 75mm SP capacity consisting of water cooling coil, centrifugal blower, TEFC sq cage induction motor, drive set, filters (pre filter), along with local control panel and other accessories to meet the load of power house building for all floors.	2	NO			
2	CENTRIFUGAL PUMPS (2x100%) for circulation water complete with TEFC motor, local control panel & all accessories as specified..	2	NO*			
3	Cyclone Separator- 200CMH, Cyclone separator, along with instrumentation and associated accessories for cooling water circuit as per specification.	1	SETS			
4*	Sheet metal cabinet type double skin AIR HANDLING UNITS of 50,000CMH & min 75 mm SP capacity consisting of water cooling coil, centrifugal blower, TEFC sq cage induction motor, drive set, filters (pre filter), local control panel and other accessories.	1	NO*			
5	Cabinet type Exhaust air Centrifugal type fans with motor and local control panel (min. 1,40,000 CMH) for exhaust of air from all ventilated areas including Power House Floors, control Block etc.	2	NO			
6*	Cabinet type Exhaust air Centrifugal type fans with motor and local control panel 30,000 CMH for exhaust of air from all ventilated areas including, galleries, approach adits, downstream surge chamber etc.	1	NO*			
7	INSULATED COOLING WATER PIPING with necessary fittings like tees, reducers, expanders, elbows, flanges, all types of valves with flanges, strainers with flanges, air vents etc as per specifications. This item shall cover the entire cooling water piping for all the AHU rooms and the interconnecting pipes between AHUs and Pumps of all the buildings (pipe, valves, strainers, insulation material with all ancillaries for insulation finishing as per specifications.).	1	LOT			
8*	Wall mounted dampers (gravity operated) for different areas.	5	SQM*			
9*	Inlet Louvres/ Non Return Damper	20	SQM*			
10*	Plastic Duct for Battery Room (Plastic, dampers, grills etc)	25	SQM*			
11*	MS Duct With Epoxy paint (grills etc)	25	SQM*			
12	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 and all other accessories (suitable for 415V/3-phase supply). Following fan shall have 30 mmwc static pressure.					
12.1*	Capacity 10,000 CMH with Motor rating 2.2 KW	1	NO*			
12.2*	Capacity 7,500 CMH with Motor rating 1.5 KW	1	NO*			
12.3*	Capacity 4,000 CMH with Motor rating 0.75 KW	1	NO*			
13	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 and all other accessories (suitable for 415V/3-phase supply). Following fan shall have 20 mmwc static pressure.					
13.1*	Capacity 10,000 CMH with Motor rating 1.5 KW	1	NO*			
13.2*	Capacity 7,500 CMH with Motor rating 1.1 KW	1	NO*			
13.3*	Capacity 4,000 CMH with Motor rating 0.75 KW	1	NO*			
14	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 and all other accessories epoxy painted (suitable for 415V/3-phase supply). Following fan shall have 15 mmwc static pressure.					
14.1*	Capacity 10,000 CMH with Motor rating 1.5 KW	4	NO*			
14.2*	Capacity 7,500 CMH with Motor rating 1.1 KW	1	NO*			
14.3*	Capacity 2,000 CMH with Motor rating 0.55 KW	1	NO*			
15	Axial flow exhaust fans (Wall mounted) complete with casing, TEFC sq cage induction motor & mounting frame, MS rain protection cowl, bird screen and all other accessories epoxy painted (suitable for 415V/3-phase supply) as specified. Following fan shall have 10 mmwc static pressure.					
15.1*	Capacity 10,000 CMH with Motor rating 0.75 KW	4	NO*			
15.2*	Capacity 7,500 CMH with Motor rating 0.55 KW	5	NO*			
15.3*	Capacity 2,000 CMH with Motor rating 0.37 KW	1	NO*			

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16	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 10 mmwc static pressure.						
16.1*	Capacity 1500 CMH with Motor rating 100 watts	20	NO*				
17	Axial flow smoke evacuation exhaust fans (Bifurcated type, spark proof construction, wall mounted) complete with casing, flame proof motor & mounting frame, MS rain protection cowl, bird screen and all other accessories epoxy painted (suitable for 415V/3-phase supply). Following fan shall have 25 mmwc static pressure.						
17.1*	Capacity 15,000 CMH	6	NO*				
17.2*	Capacity 10,000 CMH	4	NO*				
B AIR CONDITIONING SYSTEM							
18	Air Cooled PAC-Unit complete with all accessories as specified The package unit shall be complete with all accessories like pre & fine filters, drain piping with insulation upto nearest drain, required instrumentation etc						
18.1*	15 TR net capacity	4	NO*				
18.2*	10 TR net capacity	1	NO*				
18.3	MONSOON REHEATING / WINTER HEATING KIT comprising strip heaters, safety controls, air-stat, contactors, frame work, thermostat & humidistat/ sensors etc.	1	LOT				
18.4	HUMIDIFIER for each PAC room complete with humidistat, safety controls, make up water piping from make up tank / nearest source of water, valves fittings etc	1	LOT				
18.5	FRESH AIR FANS (axial flow type), complete with motor, inlet cone, air filters (pre and fine), dampers, etc for all the PAC's	1	LOT				
18.6	ACOUSTIC INSULATION of the first 6m of ducting from AHU outlets with material and finish as per specifications.	1	LOT				
19	AIR COOLED 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 as per site requirement & fittings with insulation, cordless remote, electrical power cord upto the nearest available point along with isolator / MCB, fixing frame for indoor and outdoor unit, Stabilizer, etc. (Maximum available BEE star Rating)						
19.1*	5.0 TR capacity (ductable type, 415 V, 3 phase with isolation switch).	1	NO*				
19.2*	2.0 TR capacity (non-ductable type, 240 V, 1 phase isolation switch) i.e MCB of suitable rating as specified.	8	NO*				
C COMMON ITEM FOR HVAC SYSTEM							
20	GSS zinc coating 180 gms/ m ² finished ducting complete with hangers/ supports etc.						
20.1*	18G.	1100	SQM*				
20.2*	20G.	1000	SQM*				
20.3*	22G.	1000	SQM*				
20.4*	24G.	1750	SQM*				
21*	Thermal insulation of supply air duct & return air duct with finish as specified.	1500	SQM*				
22	Fire damper.						
22.1*	Fire damper with auto resetting, limit switches, indication lamps etc.	16	SQM*				
22.2*	Motorized actuator with single phase power supply for the above fire damper.	22	NO*				
22.3*	Fusible Link type Fire Damper	5	SQM*				
24*	VOLUME CONTROL DAMPERS in GI construction as per specifications for supply / return ducts complete with fixing arrangement.	10	SQM*				
25	Grills / Diffusers						
25.1*	SUPPLY AIR DIFFUSERS / GRILLS with VCD (Extruded Aluminium powder coated) complete with fixing frames, nuts, bolts, gaskets, washers etc	5	SQM*				
25.2*	RETURN AIR DIFFUSERS / GRILLS without VCD (Extruded Aluminium powder coated) complete with fixing frames, nuts, bolts, gaskets, washers etc	5	SQM*				
25.3*	SUPPLY AIR DIFFUSERS / GRILLS with VCD (G.I) complete with fixing frames, nuts, bolts, gaskets, washers etc	50	SQM*				
25.4*	RETURN AIR DIFFUSERS / GRILLS without VCD (G.I) complete with fixing frames, nuts, bolts, gaskets, washers etc	45	SQM*				
26	PLC BASED CONTROL SYSTEM for HVAC system - with Hot redundant PLC consisting of PLC Panels for AHU room /PAC Room, RIO Panel etc, OWS, Key board, I/O modules, I/O adopter modules, Furniture for PLC (as required), power supply, UPS, Battery and Battery Charger, printer, Connectivity to SCADA for monitoring purpose, etc as specified as per tender specification	1	LOT				
27*	Fibre optic Cable with its accessories from I/O Panel / Racks to Main PLC Panel of HVAC System	100	Mtr*				
28	FIELD INSTRUMENTS like gauges, transmitter, switches for measuring of flow, temperature, pressure, level, humidity and other instrument required for local monitoring & control etc for HVAC System	1	LOT				
29	ELECTRICAL ITEMS						
29.1	LV SWITCHGEAR (Panels, Feeder modules, Cabinet etc.) as per technical specification	1	LOT				

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SL NO	DESCRIPTION	Qty	UNIT				
29.2	Local Push Button Station(LPBS) as per technical specification	1	LOT				
29.3	Local Motor Starter as per technical specification	1	LOT				
29.4	Cabling Items(Cable tray, Tray support, Clamps, Tie, Connector, Glands, Lugs etc.) as per technical specification	1	LOT				
29.5	Above Ground Earthing as per technical specification	1	LOT				
29.6	LT Control Cables including screen control, co-axial cable, any other type of control cable as per technical specification	1	LOT				
29.7	LT Power Cables as per technical specification	1	LOT				
29.8	Instruments Cables as per technical specification	1	LOT				
30*	50NB MS medium class INSULATED DRAIN WATER PIPING from various equipment like AHUs (including equalising line), cooling water pumps etc upto nearest available drain point with necessary fittings like tees, reducers, expanders, elbows, flanges, valves with flanges, U trap etc as per specifications.	50	Rmt*				
31	Total lumpsum price for special tools & tackles for maintenance inclusive of packing forwarding, transportation up to site, etc. (Bidder shall submit item-wise price break-up).	1	LOT				
32	Total lumpsum price for commissioning spares inclusive of packing forwarding, transportation up to site, etc. (Bidder shall submit item-wise price break-up).	1	LOT				
33	Handling arrangement for HVAC equipments						
33.1*	Manually operated, platform trolley of 1 Ton capacity with base area 2m x 1.5m	1	NO*				
33.2*	1T Chain Pulley Block arrangement	1	NO*				

NOTES

- 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 for adjustment and no separate unit rates shall be quoted. Unit rates shall be valid throughout the contract. Final qty. shall be paid as per actual measurement at site for erection for all the variable items.
- Bidder must submit prices in the Pro Forma duly filled in signed and stamped on every page without any ambiguity. The price shall be written against each item. Term such as "refer covering letter" etc. are not acceptable. Extra sheet may be attached if the space provided is not sufficient
- Price format shall not be changed by the bidder as the bidder may get disqualified by doing so.
- The BOQ mentioned above shall be read in conjunction with technical specification requirement. Any item required as per technical specification but not specifically indicated in above BOQ, shall deemed to be included in total prices quoted by bidder. No additional price shall be payable against such items.
- Any other item not indicated above, but required to complete HVAC system as per system requirements.

Particulars of bidder / authorised representative					
	Name	Designation			Company Seal

SUGGESTED PRICE FORMAT APPENDIX-A Special tools & tackles for maintenance				Doc No:		PF-PE-407-571-11000-A001
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NAME OF PACKAGE:				HVAC SYSTEM		
TECHNICAL SPECIFICATION No:				PE-TS-407-571-11000-A001		
SL NO	DESCRIPTION	UNIT	Qty			
1	Measuring tape	NO	1			
2	Tachometer	NO	1			
3	Double ended spanner	SET	1			
4	Ring spanners	SET	1			
5	Gasket punch	NO.	1			
6	Center punch	NO.	1			
7	Hammer with wooden handles	NO.	1			
8	Scissors for sheet metal cutting	NO.	1			
9	Torch light (suitable for 2 cells)	NO.	1			
10	Multimeter	NO.	1			
11	Anemometer	NO.	1			
12	Compound pressure gauge	NO.	1			
13	Slide wrench 8"	NO.	1			
14	Slide wrench 10"	NO.	1			
15	Slide wrench 6"	NO.	1			
16	Box spanner set	SET	1			
17	Screw driver set	SET	1			
18	Align key set	SET	1			
19	MS tool box	NO	1			
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.					
Particulars of bidder / authorised representative						
	Name	Designation	Signature	Date	Company Seal	

SUGGESTED PRICE FORMAT APPENDIX-B Commissioning spares				Doc No:	PF-PE-407-571-11000-A001
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TECHNICAL SPECIFICATION No:			PE-TS-407-571-11000-A001		
SL NO	DESCRIPTION	UNIT	Qty		
1	FAN BELTS	SET	1		
2	PRESSURE GAUGE	NO	1		
3	TEMPERATURE GAUGE	NO	1		
4	FILTER	SET	1		
5	FACTORY BUILT ASSEMBLIES (PCC/MCC/DB)				
5.1	BUSBAR SUPPORTS (HORIZONTAL)	1 SET OF 3	1		
5.2	PRIMARY ISOLATING CONTACTS (BUS SIDE)	1 SET OF 3	1		
5.3	PRIMARY ISOLATING CONTACTS (LOAD SIDE)	1 SET OF 3	1		
5.4	SECONDARY ISOLATING CONTACTS	1 SET OF 3	1		
5.5	GASKETS (EACH SIZE)	SET	1		
5.6	RESISTOR (EACH SIZE)	NOS.	12		
5.7	FIXED TERMINAL BLOCK (CONTROL)	1 WAY	1		
5.8	SHROUDS (ACB O/B TERMINALS)	SET	1		
5.9	WIRE (FOR SECONDARY WIRING)				
5.9.1	2.5 MM2	COIL	1		
5.9.2	1.5 MM2	COIL	1		
5.10	LUGS (FOR SECONDARY WIRING)	NOS.	12		
5.11	FERRULES Set*	PACKET	1		
6	AIR CIRCUIT BREAKER				
6.1	SHUNT TRIP COIL	NOS.	1		
6.2	SPRING CHARGING MOTOR	NOS.	1		
6.3	CLOSING RELEASE COIL	NOS.	1		
6.4	AUXILIARY SWITCH	NOS.	1		
6.5	SOLID STATE TRIP DEVICES (OR SPARES THEROF)	SET	1		
7	ISOLATING SWITCH (FOR EACH RATINGS)				
7.1	COMPLETE UNIT (EACH RATING)	NOS.	1		
7.2	MAIN CONTACT KIT	1 SET OF 3	1		
7.3	ARC CHAMBER	NOS.	1		
8	POWER CONTACTORS				
8.1	COMPLETE UNIT (EACH RATING)	NOS.	1		
8.2	CONTACTOR COIL (EACH SIZE)	NOS.	1		
8.3	CONTACTS KIT (MAIN)	1 SET OF 3	1		
8.4	CONTACTS KIT (AUXILIARY)	SETS OF STANDARD NUMBER OF PAIRS	1		
9	AUXILIARY CONTACTORS				
9.1	COMPLETE UNIT	NOS.	1		
9.2	CONTRACTOR COIL	NOS.	1		
10	HRC FUSE				
10.1	FUSE BASE (EACH RATING)	NOS.	1		
10.2	FUSE LINK (EACH RATING)	NOS.	2		
11	PUSH BUTTONS				
11.1	ACTUATOR CONTACTS	NOS.	1		
11.2	ELEMENTS	SET	1		
12	INDICATING LAMPS				
12.1	COMPLETE UNIT	NOS.	1		
12.3	LENS(ASSORTED)	NOS.	1		
13	OTHERS				
13.1	SELECTOR & CONTROL SWITCH (EACH TYPE)	NOS.	1		
13.2	CONTROL TRANSFORMER (EACH RATING)	NOS.	1		
13.3	MCB	ONE OF EACH RATING	1		
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.				
2	FOR ELECTRICAL ITEMS " SET COMPRISES OF ALL ALPHABETS 100 NOS. EACH AND NUMERALS (0-9) 100 NOS. EACH.				
Particulars of bidder / authorised representative					
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SUGGESTED PRICE FORMAT		Doc No:	PF-PE-407-571-11000-A001	
ANNEXURE - II		Rev No:	0	
LIST OF MANDATORY SPARES		Date of issue	21.05.2019	
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S. No.	Description	UNIT	Qty	AMOUNT (Ex-Works)
A	MECHANICAL			
1	Air Filters of each type and size	Set	4	
2	V-belts of each type and size	Set	2	
3	Circulation cooling water pump-motor set	NO.	1	
4	Pumps			
4.1	Facing Rings of Mechanical Seals	Set	2	
4.2	Protection Sleeve	Set	2	
4.3	Inserts for Filters	Set	2	
4.4	Bearing, Bushings	Set	2	
4.5	Pickings	Set	2	
4.6	Roller Bearings & Seals for Rotating Shafts	Set	2	
5	Seals, Gaskets and Packings	Set	X	
6	Ball Bearings	Set	X	
7	Valves (Manually & electrical driven (including drive))	Set	X	
7.1	Shut-off valve & Cocks	Set	X	
7.2	Globe Valve, Needle Valve & Butterfly valve	Set	X	
7.3	Non-Return Valve	Set	X	
7.4	Pressure Relief Valve	Set	X	
7.5	Safety Valves	Set	X	
7.6	Aeration & Venting Valves	Set	X	
8	All bolts, screws, nuts, washers, spanner rings & cotters	5% of total population or at least 2 pieces of each, whichever is higher		
9	Paint	5% of total population or at least 1 litre of each type, whichever is higher		
B	ELECTRICAL			
1	Air circuit breakers of each type used	Set	1	
2	MCCB each type used	Set	1	
3	Current tranformer of each type used.	Nos.	10	
4	Supporting insulator of each type used.	Nos.	6	
5	Bushing of each type used.	Nos.	1	
6	Arcing chamber assemblies for each type of circuit breaker.	Sets	2	
7	Main contacts for three poles, with spring, bolts, nuts etc. for each type of circuit breaker.	Sets	10	
8	Primary isolating contacts used.	Sets	10	
9	Coils for tripping and closing of each type used.	Nos.	12	
10	Complete motor drives, of each type.	Nos.	4	
11	Complete spring closing mechanism for the breakers. (If applicable)	Nos.	13	
12	Oil & Winding temperature protection relay for the auxiliary transformers of each type used.	Nos.	1	
13	Overload and instantaneous trip mechanism for circuit breakers of each type used.	Nos.	3	
14	Indication lamps used including assemblies	Nos. of each type	10	
15	Fuses of all type used	Nos. of each type	10	
16	Control and instrumentation switches	Nos. of each type	3	
17	Contactors of each type used	Nos. of each type	4	
18	Indicating instruments	Nos. of each type	2	
19	11 kV(SST) &11kV(UAT), 11kV valve house transformer terminal bushing	Nos. each	3	
20	415 V, terminal bushing	Sets	1	
21	Under voltage relays	Nos.	2	
22	Over current and E/F relays	Nos.	2	
23	Motor Starters	Set	X	
C	C&I			
1	Thermometer, manometer, flow meter, level indicator (with and without contacts)	Sets	X	
2	Transducer 4/20 mA for position, pressure, temperature, flow	Sets	X	
3	Lamps, signal lamps, push button and switches	Sets	X	
4	Fuses, clamps	Sets	X	
5	Limit switches, auxiliary relays, pressure switches	Sets	X	
6	Resistance thermometer without indicator	Sets	X	
7	contacts for feeder switches	Sets	X	
8	All solenoid valves	Sets	X	
Notes: a) 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. b) One set corresponds to actual quantity of components and devices as installed for the equipment at Site. c) 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." d) 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. e) Any cell left blank in the unpriced schedule shall be treated as "Quoted" and is included in total price. f) One set shall be defined as the total quantity for one assembly: g) The quantity "X" which shall be furnished is a function of the number "N" of supplied "Assemblies" or "Valves and Gates" identical in type and size. $N < 3 \quad X = 1$ $N < 10 \quad X = 2$ $N > 10 \quad X = N/10 + 1$, rounded&up to the next higher whole number. h) A set is defined as the total number required for one breaker.				
Particulars of bidder / authorised representative				
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