

NAME OF PROJECT: VENTILATION SYSTEM TECHNICAL SPECIFICATION: PE-TS-423-554-A001 ENQ. NO		Doc No:	PE-PF-423-554-A001	
		Rev No:	1	
		Date of Issue	13.11.17	
1X800 MW TANGEDCO NORTH CHENNAI ST. III BTG (Annexure-B)				
PE/PG/NC3/E-5781/2017 Dt. 28.11.2017				

S. No.	DESCRIPTION	UNIT	QTY	HSN Code / Service Activity No	Imported content						Indigenous content				E&C			Grand Total (Foreign currency + Indian currency)
					Unit C & F - PRICE (Currency)	Total C & F - PRICE (Currency)	Custom Duty (INR)	Inland Freight (INR)	Total (Foreign currency + Indian currency)	Unit Ex-works (INR)	Total Ex-works (INR)	Type of GST (IGST/CGST + SGST/UTGST)	Freight (INR)	Total for Indigenous content (INR)	Unit E & C (incl. PG test, Demo, etc.)	Total E & C (incl. PG test, Demo, etc.)	Type of GST (IGST/CGST + SGST/UTGST)	
1	2	3	4	5	6	7=4*6	8	9	10=7+8+9	11	12	13	14	15=12+14	16	17=16*4	18	19=10+15+18
1.0	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for Supply part, Services part and Mandatory spares comprising of design (i.e.preparation and submission of drawing/documents including 'As Built' drawings and O&M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles fill of lubricants & consumables, mandatory spares alongwith spares for erection, startup and commissioning as required, forwarding, proper packing, shipment and delivery at site, unloading, handling, transportation & storage at site, in-site transportation, assembly, erection & commissioning, final painting at site, minor civil work, trial run at site, preparation of layout drawings 3D (as applicable) 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 inclusive of all prevailing taxes, duties and other levies for Supply part comprising of design (i.e.preparation and submission of drawing documents including 'As Built' drawings and O&M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles, fill of lubricants & consumables alongwith spares for erection as required, startup and commissioning spares as required, forwarding, proper packing, shipment and delivery at site, preparation of layout drawings 3D (as applicable) 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	8414 59 30												NA		
2.2	Total lumpsum firm prices inclusive of all prevailing taxes, duties and other levies for Services part comprising of service part for unloading, handling, transportation & storage at site, in-site transportation, assembly, erection & commissioning, final painting at site, minor civil work, trial run at site and carrying out Performance guarantee / Functional / Demonstration tests at site (As applicable), training of customer/client O&M staff and handover in flawless condition of the package to the end customer complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification as specified above, amendment & agreements till placement of order. (Break-up as per Annexure-I)	Lot	1	8414 90 90					NA									
2.3	Total lumpsum firm price inclusive of all prevailing taxes, duties and other levies for Mandatory spares comprising of manufacture, fabrication, assembly, inspection / testing (as applicable) at vendor's & 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	8414 59 30												NA		

Notes

- 1.PRICES SHALL BE FIRM UNLESS OTHERWISE SPECIFICALLY INDICATED IN NIT .
2. CGST/SGST/UGST shall be paid at actuals against documentary evidence but restricted to the amount and percentage in the order /contract.
3. In case, any GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry to timeline prescribed in the relevant Act for availing such ITC, or any other reasons not attributable to BHEL, tax amount shall be recoverable from the vendor/contractor along with interest levied/leviable on BHEL.
4. All taxes and duties other than CGST/SGST/UGST shall be deemed to be included in the Ex-Works prices unless specified otherwise by the bidder in the price bid. No variation in other taxes and duties shall be payable by Purchaser.
5. Evaluation shall be done one the basis of total lump sum prices for complete supply and services but excluding GST.
6. Vendor to quote prices in words also.
- 7.Nature of GST on Services at project site shall not be allowed to change after bidding.
8. Bidder to quote Guaranteed Power Consumption for Ventilation System as per Annexure-III.

Particulars of bidder / authorised representative

Name	Designation	Signature	Date	Company Seal



PRICE FORMAT ANNEXURE - I PRICE BREAKUP (FOR MAIN PLANT, ESP AND OTHER AUX BUILDINGS)		Doc No:		PE-PF-423-554-A001			
		Rev No:		1			
		Date of issue		Nov-17			
NAME OF PROJECT:		1X800 TANGEDCO NORTH CHENNAI TPP					
NAME OF PACKAGE:		VENTILATION SYSTEM					
TECHNICAL SPECIFICATION No:		PE-TS-423-554-A001					
ENQ NO		PE/PG/NC3/E-5781/2017 Dt. 28.11.2017					
				Supply		E&C	
SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	Qty	UNIT	Unit Ex-works duly packed (INR) / Unit C&F	Total Ex-works duly packed (INR) / Unit C&F	Unit E&C Price (INR) / Unit C&F	Total E&C Price (INR) / Unit C&F
1	2	3	4	5	6=3*5	5	6=3*5
1	Sheet metal type air washer unit with centrifugal fan (DIDW) with motor, pumps with motors, filters, air washer internals, inlet air louvers, piping as per IS:1239, Part-I (heavy class galvanised), valves, nozzles, back wash arrangement, galvanised drain piping, etc as per specification of capacity 250000 CMH. Each air washer has 2 no centrifugal fan (2 x 50% duty) of capacity 1,25,000 CMH at min. 95 mm SP. Each centrifugal fan shall be provided with VFD driven motor alongwith VFD and other accessories as required for VFD shall also be included in the price.	4	NO				
2	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 110,000 CMH. Each UAF has 1 no centrifugal fan (1 x 100% duty) of capacity 110,000 CMH at min. 80 mmWC SP. Each centrifugal fan shall be provided with VFD driven motor alongwith VFD and other accessories as required for VFD shall also be included in the price.	1	NO				
3*	Supply air ducting (finished) for above area complete with dampers, grills (with VCD & without VCD), supports (painted) and all accessories as specified.						
3.1*	Finished GSS (zinc coating 275 gms/sq.m) Ducting with support structure etc.						
a)*	18 G	2500	SQM*				
b)*	20 G	2700	SQM*				
c)*	22 G	2700	SQM*				
d)*	24 G	3500	SQM*				
3.2*	MS Duct With Epoxy paint for battery room.	200	SQM*				
3.3*	Extruded Aluminium Grilles with VCD	100	SQM*				
3.4*	Extruded Aluminium Grilles without VCD	8	SQM*				
3.5*	Thermal insulation alongwith finish as per specification for supply air duct	1000	SQM*				
3.6*	Wall mounted dampers (gravity operated) for different areas.	30	SQM*				
3.7*	Inlet Louvres	50	SQM*				
3.8*	VOLUME CONTROL DAMPERS in GI construction as per specifications	20	SQM*				
4*	FIRE DAMPER						
a)*	Fire damper	20	SQM*				
b)*	Motorized Actuator with single phase power supply for the above Fire damper with auto resetting, limit switches, indication lamps etc	25	NO*				
c)*	Fusible Link type Fire Damper	5	SQM*				
5*	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 50,000 CMH with Motor rating 5.5 KW	24	Nos.*				
b)*	Capacity 40,000 CMH with Motor rating 5.5 KW	5	Nos.*				
c)*	Capacity 20,000 CMH with Motor rating 2.2 KW	2	Nos.*				
6*	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 32 mmwc static pressure.						

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PRICE FORMAT ANNEXURE - I PRICE BREAKUP (FOR MAIN PLANT, ESP AND OTHER AUX BUILDINGS)		Doc No:		PE-PF-423-554-A001			
		Rev No:		1			
		Date of issue		Nov-17			
NAME OF PROJECT:		1X800 TANGEDCO NORTH CHENNAI TPP					
NAME OF PACKAGE:		VENTILATION SYSTEM					
TECHNICAL SPECIFICATION No:		PE-TS-423-554-A001					
ENQ NO		PE/PG/NC3/E-5781/2017 Dt. 28.11.2017					
				Supply		E&C	
SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	Qty	UNIT	Unit Ex-works duly packed (INR) / Unit C&F	Total Ex-works duly packed (INR) / Unit C&F	Unit E&C Price (INR) / Unit C&F	Total E&C Price (INR) / Unit C&F
a)*	Capacity 10,000 CMH with Motor rating 2.2 KW	4	Nos.*				
b)*	Capacity 7,500 CMH with Motor rating 1.5 KW	4	Nos.*				
c)*	Capacity 6,000 CMH with Motor rating 1.1 KW	10	Nos.*				
d)*	Capacity 4,000 CMH with Motor rating 0.75 KW	6	Nos.*				
7*	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) as specified. Following fan shall have 20 mmwc static pressure.						
a)*	Capacity 10,000 CMH with Motor rating 1.5 KW	8	Nos.*				
b)*	Capacity 7,500 CMH with Motor rating 1.1 KW	8	Nos.*				
c)*	Capacity 6,000 CMH with Motor rating 1.1 KW	4	Nos.*				
d)*	Capacity 4,000 CMH with Motor rating 0.75 KW	4	Nos.*				
8*	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) as specified. Following fan shall have 15 mmwc static pressure.						
a)*	Capacity 15,000 CMH with Motor rating 2.2 KW	6	Nos.*				
b)*	Capacity 10,000 CMH with Motor rating 1.5 KW	5	Nos.*				
c)*	Capacity 7,500 CMH with Motor rating 1.1 KW	12	Nos.*				
d)*	Capacity 4,000 CMH with Motor rating 0.75 KW	2	Nos.*				
e)*	Capacity 2,000 CMH with Motor rating 0.55 KW	6	Nos.*				
9*	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.						
a)*	Capacity 15,000 CMH with Motor rating 1.1 KW	6	Nos.*				
b)*	Capacity 10,000 CMH with Motor rating 0.75 KW	6	Nos.*				
c)*	Capacity 7,500 CMH with Motor rating 0.55 KW	20	Nos.*				
d)*	Capacity 6,000 CMH with Motor rating 0.55 KW	6	Nos.*				
e)*	Capacity 4,000 CMH with Motor rating 0.55 KW	2	Nos.*				
f)*	Capacity 2,000 CMH with Motor rating 0.37 KW	5	Nos.*				
10*	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 with Motor rating 100 watts	60	Nos.*				
11*	Handling arrangement for ventilation equipments						
(a)*	Manually operated, platform trolley of 1 Ton capacity with base area 2m x 1.5m	2	NO*				
(b)*	1T Chain pulley block	2	NO*				
(c)*	1T Chain pulley block with travelling trolley	2	NO*				
12*	Online Non chemical scale preventer, with all accessories for as required to meet system requirements						
a*	For a combination of two Air washer placed at A row and BC bay	2	NO*				
b*	For a combination of two UAF	1	NO*				

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PRICE FORMAT ANNEXURE - I PRICE BREAKUP (FOR MAIN PLANT, ESP AND OTHER AUX BUILDINGS)		Doc No:		PE-PF-423-554-A001			
		Rev No:		1			
		Date of issue		Nov-17			
NAME OF PROJECT:		1X800 TANGEDCO NORTH CHENNAI TPP					
NAME OF PACKAGE:		VENTILATION SYSTEM					
TECHNICAL SPECIFICATION No:		PE-TS-423-554-A001					
ENQ NO		PE/PG/NC3/E-5781/2017 Dt. 28.11.2017					
		Supply				E&C	
SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	Qty	UNIT	Unit Ex-works duly packed (INR) / Unit C&F	Total Ex-works duly packed (INR) / Unit C&F	Unit E&C Price (INR) / Unit C&F	Total E&C Price (INR) / Unit C&F
13	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			NA	
14	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				
15	Cable tray, condutes, junction box, Local control panel and Field instruments like pressure gauge, temperature gauge, temperature and pressure transmitters, DP transmitters, flow transmitters, flow indicator, etc. as required for the complete system	1	LOT				

NOTE

- 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.
- Any other item not indicated above, but required to make the system complete in all respects, as per the technical specification, shall be supplied without any cost implication to BHEL.

Particulars of bidder / authorised representative

Name	Designation	Signature	Date

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PRICE FORMAT APPENDIX-A Special tools & tackles for maintenance				Doc No:	PE-PF-423-554-A001
				Rev No:	1
				Date of issue	Nov-17
NAME OF PROJECT:		1X800 TANGEDCO NORTH CHENNAI TPP			
NAME OF PACKAGE:		VENTILATION SYSTEM			
TECHNICAL SPECIFICATION No:		PE-TS-423-554-A001			
ENQ NO		PE/PG/NC3/E-5781/2017 Dt. 28.11.2017			
SL NO	DESCRIPTION	UNIT	Qty	Unit Ex-works duly packed (INR) / Unit C&F	Total Ex-works duly packed (INR) / Unit C&F
1	2	3	4	5	6=4*5
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 / TACKEL 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

PRICE FORMAT APPENDIX-B Commissioning spares				Doc No:	PE-PF-423-554-A001
				Rev No:	1
				Date of issue	Nov-17
NAME OF PROJECT:				1X800 TANGEDCO NORTH CHENNAI TPP	
NAME OF PACKAGE:				VENTILATION SYSTEM	
TECHNICAL SPECIFICATION No:				PE-TS-423-554-A001	
ENQ NO				PE/PG/NC3/E-5781/2017 Dt. 28.11.2017	
SL NO	DESCRIPTION	UNIT	Qty	Unit Ex-works duly packed (INR) / Unit C&F	Total Ex-works duly packed (INR) / Unit C&F
1	2	3	4	5	6=4*5
1	FAN BELTS	SET	1		
2	PRESSURE GAUGE	NO	1		
3	TEMPERATURE GAUGE	NO	1		
4	FILTER	SET	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.				
Particulars of bidder / authorised representative					
	Name	Designation	Signature	Date	Company Seal

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PRICE FORMAT ANNEXURE - II LIST OF MANDATORY SPARES		Doc No:	PE-PF-423-554-A001		
		Rev No:	1		
		Date of issue	Nov-17		
NAME OF PROJECT:		1X800 TANGEDCO NORTH CHENNAI TPP			
NAME OF PACKAGE:		VENTILATION SYSTEM			
TECHNICAL SPECIFICATION No:		PE-TS-423-554-A001			
ENQ NO		PE/PG/NC3/E-5781/2017 Dt. 28.11.2017			
S. No.	Description	UNIT	Qty	Unit Ex-works duly packed (INR) / Unit C&F	Total Ex-works duly packed (INR) / Unit C&F
1	2	3	4	5	6=4*5
A	C&I portion				
	The quantity of following spares includes a minimum of 20 % spares for replacement of each type of lamps, PBs, ILPBs, fuse, MCB, MCCB used in the equipment/system offered by him even if this is not detailed below.				
i)	Measuring Instruments - Indicators, Recorders, Electrical Metering and Skid Mounted Instruments	Lot	1		
1	10% of the number of indicators, recorders and meters offered from each model for the project or a minimum of one number per model, whichever is more. These instruments shall be supplied with three sets of blank scales.				
2	For skid mounted instruments (if any) - 10% of total number of instruments for each model and type for the project or a minimum of one number for each model and type, whichever is more.				
ii)	Temperature Elements and Thermowells	Lot	1		
1	10% spare thermocouple/RTD elements, suitable for replacement for each type and length of element furnished with thermocouple/RTD assemblies, or a minimum of one number of each type & length, whichever is more.	%	10%		
2	10% thermo wells for each type of temperature sensors or a minimum of one for each type, whichever is more	%	10%		
3	Temperature Transmitters and Electronic Transmitters (For Pressure, DP, Temp, Flow, Level), Temperature, Pressure, Flow & Level Switch, safety switches, Gauges, meters, Transducer or any other instrument etc.				
	10% of total number of instruments/transducers offered for each model and type for the project or a minimum of one number, whichever is more.	Lot	1		
iii)	Relay Based Control Panels	Set	1		
1	10% LEDs for indicating lights shall be furnished.				
2	Three times, the one hundred percent (300% of installed) spare replacement control circuit fuses/MCB/MCCB of each current rating required shall be furnished.				
3	20% spare replacement relays modules & contactors of each type.				
iv)	Alarm Annunciation System	Set	1		
1	20% spares of each type installed shall be provided for logic modules, group card modules, power supply modules, Hooters and any other electronic module.				
2	5% spares of each size shall be provided for un-engraved window boxes complete with LED etc.				
3	20% of installed LEDs for annunciation facia windows and LEDs box assemblies offered for the project shall be provided as mandatory spares.				
4	One (1) spare annunciator hooter of each type.				
v)	Erection hardware	Set	1		

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PRICE FORMAT		Doc No:		PE-PF-423-554-A001	
ANNEXURE - II		Rev No:		1	
LIST OF MANDATORY SPARES		Date of issue		Nov-17	
NAME OF PROJECT:		1X800 TANGEDCO NORTH CHENNAI TPP			
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TECHNICAL SPECIFICATION No:		PE-TS-423-554-A001			
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S. No.	Description	UNIT	Qty	Unit Ex-works duly packed (INR) / Unit C&F	Total Ex-works duly packed (INR) / Unit C&F
1	2	3	4	5	6=4*5
1	Ten (10) percent of each type & Size installed instrument valve, manifold for each type, rating, model number and size of devices supplied for the project.				
2	Ten (10) percent of total number of condensate pots or four numbers whichever is higher of each type & Size installed.				
3	Ten (10) percent of each type & Size installed Fittings				
vi)	Bidder to supply 10% or 1 no. (whichever is more) of each type of sensor/instrument, analyzers /special instruments/Electronic card, instrumentation/mechanical fittings etc. for any other electronic system, feeder control cabinets, hydra step (EWLI), Vibration Monitoring System, CCTV, C&I Lab Instruments, On line Carbon in Ash analyzer system, On line Coal mass flow/speed easurement system, On line secondary air flow measurement system Mass Flow meter, Solid flow meter, 3 D Acoustic type level transmitters, Nucleonic & non nucleonic density transmitter etc.				
B	Electrical portion				
1	415V Motors				
1.1	Terminal plates	Nos.	10 Nos. each for small motors upto 30 KW & 4 Nos. each for more than 30 KW		
1.2	Heaters	Set	2 sets		
1.3	Greasing arrangements	Set	4 sets each type of motor		
1.4	Motor of each type and rating	Nos.	10% of the installed quantity or minimum 1 number whichever more		
1.5	Bearings (DE and NDE) for each type and rating of motor	Set	4 set		
NOTE					
1 Mandatory spares listed above is bare minimum requirement. In case any additional mandatory spares requirement is covered elsewhere in the tender					
Particulars of bidder / authorised representative					
	Name	Designation	Signature	Date	Company Seal

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PRICE FORMAT ANNEXURE - III Guaranteed Power Consumption For Ventilation System				Doc No:	PE-PF-423-554-A001	
				Rev No:	1	
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TECHNICAL SPECIFICATION No:		PE-TS-423-554-A001				
ENQ NO		PE/PG/NC3/E-5781/2017 Dt. 28.11.2017				
S.NO.	DESCRIPTION OF EQUIPMENT	NO OF EQUIPMENT		TOTAL GUARANTEED POWER CONSUMPTION FOR EACH	DUTY FACTOR	TOTAL KW
		WORKING 3A	STANDBY 3B			
1	2	3A	3B	4	5	6=3Ax4x5
1	VENTILATION SYSTEM FOR TG BUILDING					
1.1	Centrifugal Fan of air washers.	8	0		1	
1.2	Pumps for circulation of water in spray chamber of above air washer	4	4		1	
1.3	RE Units 50,000 CMH	16	0		1	
1.4	Centrifugal Fan of UAF for ESP bld.	1	0		1	
1.5	Pump for above UAF.	1	1		1	
		TOTAL (KW)				
Note:	Estimated power consumption (EPC) figure for the system (for working drives only) has been considered as 691 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 @ Rs 588401/- per KW of additional power over EPC.					
Particulars of bidder / authorised representative						
	Name	Designation	Signature	DATE	Company Seal	

VINIT
KUMAR
VERMA

Digitally signed by VINIT KUMAR VERMA
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