

PRICE FORMAT Rev01 (For Indian Bidders)

Enquiry Number		PE/PG/EN1/E-5490/2016											
NAME OF PROJECT:		2x660 MW ENNORE SEZ POWER PROJECT											
NAME OF PACKAGE:		VENTILATION SYSTEM											
TECHNICAL SPECIFICATION No:		PE-TS-412-554-A001 Rev (1)											
S. No.	Description	UNIT	Qty	Price for Supply portion				Price for SERVICES portion			Grand TOTAL		
				Total ex-works price (INR)	ED including cess @...% (for self manufactured items only) (INR)	CST @% Against C-form & E1/E2 or VAT @....% Whichever is applicable (INR)	FREIGHT CHARGES INCLUDING SERVICE TAX) @.....% OF TOTAL EX-WORKS (INR)	TOTAL FOR site price SUPPLY (INR)	Total price for Services (INR)	Service Tax@ ... % (INR)		TOTAL PRICE (For Services including Service tax) (INR)	Total Price Supply FOR site and Services including service tax (INR)
				1	2	3	4	5=1+2+3+4	6	7		8=6+7	9=5+8
1	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for Supply part, Services part and Mandatory spares comprising of design (i.e.preparation and submission of drawing /documents including 0As Built0 drawings and O&M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor0 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, preperation of layout drawings 3D (as applicable) and carrying out Performance guarantee / Functional / Demonstration tests at site, 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 0As Built0 drawings and O&M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor0 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, preperation 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								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, 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			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 at vendor's & sub-vendor0 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								NA		
Note: 1. Bidder to quote Guaranteed Power Consumption for Ventilation System as per Annexure-III. 2. Evaluation shall be done one the basis of total lump sump prices for complete supply and services. Total price indicated above at Column (9) minus service tax quoted at Column (7) of 1.0 shall be considered for evaluation & hence must be completed in all respect for the full scope defined & considering all terms and conditions agreed. Further Swachh Bharat Cess i.e.0.5% of Service tax rate is not cenvatable. Hence, this 0.5% component of cess shall be considered for Evaluation.													
Particulars of bidder / authorised representative													
	Name	Designation	Signature	Date	Company Seal								

PRICE FORMAT REV01 (Indian Vendors) ANNEXURE - I PRICE BREAKUP (FOR MAIN PLANT, ESP AND OTHER AUX BUILDINGS)
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[illegible]

PRICE BREAKUP (FOR MAIN PLANT, ESP AND OTHER AUX BUILDINGS)	
1. Main Plant	100.00
2. ESP	50.00
3. Other Aux Buildings	20.00
Total	170.00

[illegible]

PRICE BREAKUP (FOR MAIN PLANT, ESP AND OTHER AUX BUILDINGS)

ENQUIRY NUMBER		PE/PG/EN1/E-5490/2016													
NAME OF PROJECT:		2x660 MW ENNORE SEZ POWER PROJECT													
NAME OF PACKAGE:		VENTILATION SYSTEM													
TECHNICAL SPECIFICATION No:		PE-TS-412-554-A001													
SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	Qty	UNIT	PRICE FOR SUPPLY PORTION						PRICE FOR SERVICES PORTION				GRAND TOTAL	
				Unit Ex-works Price (Rs)	Total ex-works price (Rs)	ED including cess @....% (for self manufactured items only) (INR)	CST @% Against C-form & E1/E2 or VAT @.....% Whichever is applicable (INR)	FREIGHT CHARGES INCLUDING SERVICE TAX) @% OF TOTAL EX-WORKS (INR)	TOTAL FOR site price SUPPLY (Rs)	Unit Price (Rs)	Total price (Rs)	Service Tax@ ... % (Rs)	TOTAL PRICE (Erection and commissioning including Service tax)		Total Price Supply FOR site and E&C including service tax (Rs)
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	130	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 with travelling trolley	4	NO*												
12	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-As per Appendix A).	1	LOT												
13	Total lumpsum price for commissioning spares inclusive of packing forwarding, transportation up to site, etc. (Bidder shall submit item-wise price break-up-As per Appendix B).	1	LOT												
14	FIELD INSTRUMENTS like pressure gauge, temperature gauge, pressure switch, differential pressure switch, velocity sensor/static pressure sensor, flow switch and other instrument required for Ventilation System etc.	1	LOT												
15	Any other item not indicated above, but required to make the system complete in all respects.	1	LOT												
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.															
Particulars of bidder / authorised representative															
Name	Designation			Signature		Date		Company Seal							

PRICE FORMAT REV01 (Indian Vendors)**APPENDIX-A****PRICE BREAKUP (FOR MAIN PLANT, ESP AND OTHER AUX BUILDINGS)**

NAME OF PROJECT:	2x660 MW ENNORE SEZ POWER PROJECT
NAME OF PACKAGE:	VENTILATION SYSTEM
TECHNICAL SPECIFICATION No:	PE-TS-412-554-A001

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	Unit	Qty	SUPPLY	
				Unit Price (Rs)	Total price (Rs)
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 8ô	NO.	1		
14	Slide wrench 10ô	NO.	1		
15	Slide wrench 6ô	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 REV01 (Indian Vendors)
APPENDIX-B
PRICE BREAKUP (FOR MAIN PLANT, ESP AND OTHER AUX BUILDINGS)

NAME OF PROJECT:		2x660 MW ENNORE SEZ POWER PROJECT			
NAME OF PACKAGE:		VENTILATION SYSTEM			
TECHNICAL SPECIFICATION No:		PE-TS-412-554-A001			
SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	Unit	Qty	SUPPLY	
				Unit Price (Rs)	Total price (Rs)
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	

PRICE FORMAT REV01 (Indian Vendors)								
ANNEXURE - II								
PRICE BREAKUP (FOR MAIN PLANT, ESP AND OTHER AUX BUILDINGS)								
LIST OF MANDATORY SPARES								
ENQUIRY NUMBER			PE/PG/EN1/E-5490/2016					
NAME OF PROJECT:			2x660 MW ENNORE SEZ POWER PROJECT					
NAME OF PACKAGE:			VENTILATION SYSTEM					
TECHNICAL SPECIFICATION No:			PE-TS-412-554-A001					
S. No.	Description	QTY	PRICE FOR SUPPLY					
			Unit Ex-works Price (Rs)	Total ex-works price (Rs)	ED including cess @...% (for self manufactured items only) (INR)	CST @% Against C-form & E1/E2 or VAT @% Whichever is applicable (INR)	FREIGHT CHARGES INCLUDING SERVICE TAX) @% OF TOTAL EX-WORKS (INR)	TOTAL FOR site price SUPPLY (Rs)
A	MECHANICAL AND GENERAL		1	2	3	4	5	6=2+3+4+5
1	CENTRIFUGAL FANS							
1.1	V-BELTS	2 SETS OF EACH TYPE						
1.2	BLOWER BEARING SETS	2 SETS OF EACH TYPE						
1.3	BLOWER MOTOR BEARINGS	2 SETS OF EACH TYPE						
1.4	SEAL GASKET AND OTHER WEAR OUT PARTS IN SETS	2 SETS OF EACH TYPE						
1.5	VIBRATION ISOLATORS	2 SETS OF EACH TYPE						
2.	AXIAL FANS							
2.1	FAN BEARINGS	2 SETS OF EACH TYPE						
2.2	FAN MOTOR BEARING	2 SETS OF EACH TYPE						
2.3	DRY FILTERS	2 SETS OF EACH TYPE AND SIZE						
3	AIR WASHER SYSTEM							
3.1	WATER STRAINERS	2 SETS OF EACH SIZE						
3.2	SPRAY NOZZLES	2 SETS OF EACH SIZE						
3.3	WATER REPELLANT TYPE FILTERS	2 SETS OF EACH SIZE						
4	HORIZONTAL CENTRIFUGAL PUMP							
4.1	IMPELLER FOR EACH OF PUMP SET	2 SETS OF EACH TYPE						
4.2	BEARINGS	2 SETS OF EACH TYPE						
4.3	SHAFT SLEEVES	2 SETS OF EACH TYPE						
4.4	BEARINGS MOTOR	2 SETS OF EACH TYPE						
B	ELECTRICAL							
1	Terminal plates							
a	For motors upto 30 KW	10 NOS. EACH FOR SMALL MOTORS UPTO 30 KW						
b	For motors above 30 KW	4 NOS. EACH FOR MORE THAN 30 KW						
2	Heaters	2 SETS						
3	Greasing arrangements	4 SETS OF EACH TYPE OF MOTOR.						
4	Motor of each type and rating	10% OF THE INSTALLED QUANTITY OR MINIMUM 1 NUMBER WHICHEVER BE HIGHER						
5	Bearings (DE and NDE) for each type and rating of motor	4 SETS						
C	CONTROL AND INSTRUMENTATION							
	Each type of lamps, PBs, ILPBs, fuse, MCB, MCCB used in the equipment/system.	20% OF QTY INSTALLED.						
a)	Measuring Instruments							
1	Indicators, Recorders, Electrical Metering and Skid Mounted Instruments	20% OF INSTALLED OF EACH TYPE.						
1.1	Indicators, recorders and meters offered from each model for the project. These instruments shall be supplied with three sets of blank scales.	10% OF INSTALLED OF EACH TYPE/MODEL OR A MINIMUM OF ONE NUMBER FOR EACH MODEL AND TYPE, WHICHEVER IS MORE						
1.2	For skid mounted instruments	10% OF INSTALLED OF EACH TYPE/MODEL OR A MINIMUM OF ONE NUMBER FOR EACH MODEL AND TYPE, WHICHEVER IS MORE						
2	Temperature Elements and Thermowells							
2.1	Thermocouple/RTD elements	10% OF INSTALLED OF EACH TYPE/MODEL OR A MINIMUM OF ONE NUMBER FOR EACH MODEL AND TYPE, WHICHEVER IS MORE						
2.2	Thermowells	10% OF INSTALLED OF EACH TYPE/MODEL OR A MINIMUM OF ONE NUMBER FOR EACH MODEL AND TYPE, WHICHEVER IS MORE						
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 INSTALLED OF EACH TYPE/MODEL OR A MINIMUM OF ONE NUMBER FOR EACH MODEL AND TYPE, WHICHEVER IS MORE						
b)	Relay based Control Panels							
1	LEDs for indicating lights	10% OF QTY INSTALLED.						
2	Control circuit fuses/MCB/MCCB/ Semiconductor Fuses	300% OF INSTALLED OF EACH TYPE, CURRENT RATING.						
3	Relays modules & contactors.	20% SPARE OF QTY INSTALLED OF EACH TYPE & RATING						

PRICE FORMAT REV01 (Indian Vendors)									
ANNEXURE - II									
PRICE BREAKUP (FOR MAIN PLANT, ESP AND OTHER AUX BUILDINGS)									
c)	Alarm Annunciation System								
1	logic modules, group card modules, power supply modules, Hooters and any other electronic module.			20% SPARES OF EACH TYPE INSTALLED					
2	un-engraved window boxes complete with LED etc.			5% SPARES OF EACH TYPE INSTALLED					
3	LEDs for annunciation facia windows and LEDs box assemblies offered for the project			20% OF QTY INSTALLED					
4	Annunciator hooter			ONE (1) NO. OF EACH TYPE					
d)	Erection hardware								
1	Instrument valves			10% OF EACH TYPE & SIZE INSTALLED					
2	Condensate pots of each type & Size installed			10% OF TOTAL NUMBER OF INSTALLED OR FOUR NUMBERS WHICHEVER IS HIGHER.					
3	Manifold			10% OF EACH TYPE & SIZE INSTALLED					
4	Fittings			10% OF EACH TYPE & SIZE INSTALLED					
e)	Mandatory Spares for Control valves, Power Cylinder, Control Dampers, Actuators and Accessories								
1	Following spares shall be furnished for control valves, Power Cylinder, Control Dampers as applicable.								
2	One set of spare control valve stem packing for each control valve.								
3	Two moulded rubber diaphragms for each control valve.								
4	One sets of each of O-rings and rubber gaskets for each control valve.								
5	100 percent qty. of lubricants for gaskets for each control valve on one year consumption basis.								
6	2 sets of limit switches and 1 set of valve positioner for each control valve.								
7	20 percent of position transmitter (4-20mA) for total qty. of control valve.								
8	One (1) set of valve trims (such as plug, stem, seat ring /cage, guide bushing, stem lock pin, packing retaining ring, etc) for each control valve.								
9	One completes actuator of each type or min 10% for each type and size whichever is more.								
10	20 percent of Solenoid valves or min 2 no. of each type for total qty. of control valves.								
11	20% of I to P converters, Pressure regulators.								
f)	Mandatory spares not covered above								
	Bidder to supply 10% or 1 no. (whichever is more) of each type of sensor/instrument, instrumentation/mechanical fittings etc for any other electronic system, feeder control cabinets, hydrastep (EWLI), Vibration Monitoring System, CCTV, C&I Lab Instruments, On line Carbon in Ash analyser system, On line Coal mass flow/speed measurement 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.								
Note: Mandatory spares listed above is bare minimum requirement. In case any additional mandatory spares requirement is covered elsewhere in the tender specification as specified above, same shall be deemed to have been covered in bidders scope of supply.									
Particulars of bidder / authorised representative									
Name	Designation	Signature	Date						

PRICE FORMAT REV 01 (FOR INDIAN BIDDERS)
ANNEXURE - III
PRICE BREAKUP (FOR MAIN PLANT, ESP AND OTHER AUX BUILDINGS)

Guaranteed Power Consumption For Ventilation System						
NAME OF PROJECT:		2x660 MW ENNORE SEZ POWER PROJECT				
NAME OF PACKAGE:		VENTILATION SYSTEM				
TECHNICAL SPECIFICATION No:		PE-TS-412-554-A001				
S.NO.	DESCRIPTION OF EQUIPMENT	NO OF EQUIPMENT		TOTAL GUARANTEED POWER CONSUMPTION FOR EACH EQUIPMENT AT	DUTY FACTOR	TOTAL KW
		WORKING	STANDBY			
		3A	3B	4	5	6=3Ax4x5
1	VENTILATION SYSTEM FOR TG BUILDING					
1.1	Centrifugal Fan of cap. 83, 500 CMH at 75 mmwc static pr for air Washers.	24	0		1	
1.2	Pumps for circulation of water in spray chamber of above air washer	8	8		1	
1.3	RE Units 50,000 cmh at 15mmwc	28	0		1	
2	VENTILATION SYSTEM FOR ESP BUILDING					
2.1	Centrifugal Fan of cap. 75,000 CMH at 75 mmwc static pr for UAF.	2	0		1	
2.2	Pump for above UAF.	2	2		1	
				TOTAL (KW)		1050
Note:	Estimated power consumption (EPC) figure for the system (for working drives only) has been considered as 1050 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 3,56,607/- per KW of additional power over EPC. 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 @ Rs 3,56,607/- per KW shall be levied on vendor.					
Particulars of bidder / authorised representative						
Name	Designation	Signature	DATE	Company Seal		