

PRICE FORMAT (For Indian Bidders)													
Enquiry Number		PE/PG/MG1/E-5564/2017											
NAME OF PROJECT:		4x270 MW BHADRADRI TPS											
NAME OF PACKAGE:		VENTILATION SYSTEM											
TECHNICAL SPECIFICATION No:		PE-TS-411-554-A001_Rev 01											
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 “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, preperation 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, 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 (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				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								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					

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

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

ENQUIRY NUMBER		PE/PG/MG1/E-5564/2017												
NAME OF PROJECT:		4x270 MW BHADRADRI TPS												
NAME OF PACKAGE:		VENTILATION SYSTEM												
TECHNICAL SPECIFICATION No:		PE-TS-411-554-A001_Rev 01												
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)
14	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 (Indian Vendors)
APPENDIX-A
Special tools & tackles for maintenance

ENQUIRY NO.:	PE/PG/MG1/E-5564/2017
NAME OF PROJECT:	4x270 MW BHADRADRI TPS
NAME OF PACKAGE:	VENTILATION SYSTEM
TECHNICAL SPECIFICATION No:	PE-TS-411-554-A001_Rev 01

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 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 (Indian Vendors)
APPENDIX-B
Commissioning spares

Enquiry No.		PE/PG/MG1/E-5564/2017			
NAME OF PROJECT:		4x270 MW BHADRADRI TPS			
NAME OF PACKAGE:		VENTILATION SYSTEM			
TECHNICAL SPECIFICATION No:		PE-TS-411-554-A001_Rev 01			
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 (Indian Vendors) ANNEXURE - II LIST OF MANDATORY SPARES									
ENQUIRY NUMBER			PE/PG/MG1/E-5564/2017						
NAME OF PROJECT:			4x270 MW BHADRADRI TPS						
NAME OF PACKAGE:			VENTILATION SYSTEM						
TECHNICAL SPECIFICATION No:			PE-TS-411-554-A001_Rev 01						
S. No.	Description	Unit	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)
1.0	VENTILATION SYSTEM			1	2	3	4	5	6=2+3+4+5
1.1	Centrifugal fans								
1.1.1	Set of bearings for Air washer fans	1Set for each Type of Fan							
1.1.2	Set of bearings for U.A.F. fans	1Set for each Type of Fan							
1.2	Centrifugal pumps								
1.2.1	Set of bearings for Air washer pumps	1Set for each Type and rating of Pump							
1.2.2	Set of bearings for U.A.F. pumps	1Set for each Type and rating of Pump							
1.2.3	Mechanical seal / gland packing as applicable, shaft sleeve & casing wearing rings and lantern rings for shaft and impeller	1Set for each Type and rating of Pump							
1.2.4	Complete Impeller Assembly	1Set for each application and ratings of Pumps							
1.2.5	Key for impeller	1No. for each application and ratings of Pumps							
1.2.6	Pump shaft	1No. for each application and ratings of Pumps							
1.2.7	Coupling	1No. for each application and ratings of Pumps							
1.3	Spray Nozzles								
1.3.1	Spray nozzles for air washer unit	5%							
1.3.2	Spray nozzles for U.A.F. unit	5%							
1.4	SS Filters								
1.4.1	SS Filters for Air washer	10%							
1.4.2	SS Filter for Unitary air filtration unit	10%							
1.5	Basket for POT Strainer								
1.5.1	Strainer Basket for Air Washer	1No. for each type and size							
1.5.2	Strainer Basket for Unitary Air Filtration unit	1No. for each type and size							
1.6	Valves								
1.6.1	Gate valve for Air washer	10% or Minimum 1No. Whichever is higher							
1.6.2	NR Valve for Air Washer	10% or Minimum 1No. Whichever is higher							
1.6.3	Gate valve for Unitary Air Filtration Unit	10% or Minimum 1No. Whichever is higher							
1.6.4	NR valve for Unitary Air Filtration Unit	10% or Minimum 1No. Whichever is higher							
1.6.5	Gate Valve for Make-up Drain of Air washer	10% or Minimum 1No. Whichever is higher							
1.6.6	Gate valve for UAF	20% or Minimum 2Nos. Whichever is higher							
1.6.7	Other LP Piping valves & traps - Complete assembly	5% or min. 1 no. (whichever is more) for each size, type & rating for total population							
1.7	Wall mounted supply/ Exhaust fan								
1.7.1	Fan-motor Bearing	1 set for each rating of fan							
1.7.2	Vibration Isolators	1 set for each fan							
1.8	Electrical Spares for Motors								
1.8.1	Motor bearing set for Air washer fan motor	1 set for each type of fan motor							
1.8.2	Motor bearing set for UAF fan motor	1 set for each type of fan motor							
1.8.3	Motor bearing set for axial flow supply fan motor	1 set for each rating of fan motor							
1.8.4	Motor bearing set for axial flow exhaust fan motor	1 set for each rating of fan motor							
1.9	Mandatory Spares for Temperature Elements and Thermowells								
1.9.1	Thermocouple / RTD elements (10% of each type and length of elements , or a minimum of one number, whichever is more.)	2 Lot							

PRICE FORMAT (Indian Vendors)									
ANNEXURE - II									
LIST OF MANDATORY SPARES									
1.9.2	Thermowells for each type of temperature sensors (10% or a minimum of one for each type, whichever is more.)	2 Lot							
1.10	Mandatory Spares for Electronic Transmitters (for pressure, DP, Flow, level, Temperature) and Electrical Transducers.								
1.10.1	Transmitters and Electrical Transducers (10% of total number of offered for each model and type for the project or a minimum of one number, whichever is more)	2 Lot							
1.11	Mandatory spares for local gauges/switch (for Pressure, DP, Temperature, Flow, level , etc.)								
1.11.1	Local gauges/ Switch (for Pressure, DP, Temperature, Flow, level , etc.) (10% of total number of instruments offered for each model and type for the project or a minimum of one number, whichever is more.)	2 Lot							
NOTE									
1 Mandatory spares listed above 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 bidders scope of supply.									
2 Unless stated otherwise, a "set" or "Lot" means items required for complete replacement in one equipment of each type / size / range.									
3 Wherever quantity has been specified as percentage (%), it shall mean percentage (%) of the population of the item required for one unit of 270 MW in the station (project), unless specified otherwise.									
4 In case of Bought Out items, itemised spares list may be vendor specific and may differ from the list of spares mentioned above. In such cases, The quoted price shall be considered for applicable items only without any change in the contract price.									
Particulars of bidder / authorised representative									
Name	Designation	Signature	Date						

PRICE FORMAT (FOR INDIAN BIDDERS)
ANNEXURE - III

Guaranteed Power Consumption For Ventilation System

NAME OF PROJECT:		4x270 MW BHADRADRI TPS					
NAME OF PACKAGE:		VENTILATION SYSTEM					
TECHNICAL SPECIFICATION No:		PE-TS-411-554-A001_Rev 01					
S.NO.	DESCRIPTION OF EQUIPMENT	NO OF EQUIPMENT		TOTAL GUARANTEED POWER CONSUMPTION FOR EACH EQUIPMENT AT MOTOR INPUT TERMINAL AND CONTROL PANEL (IN	DUTY FACTOR		TOTAL KW
		WORKIN G	STANDBY				
		3A	3B	4	5		6=3Ax4x5
1	VENTILATION SYSTEM FOR TG BUILDING						
1.1	Centrifugal Fan of cap. 1,30,000 CMH at 75 mmwc static pr for air washers.	17	0		1		
1.2	Pumps for circulation of water in spray chamber of above air washer	17	17		1		
1.3	RE Units 50,000 cmh at 15mmwc	26	0		1		
1.4	Centrifugal Fan of cap. 75,000 CMH at 60 mmwc static pr for UAF.	2	0		1		
1.5	Pump for above UAF.	2	2		1		
		TOTAL (KW)					1105
Note:	Estimated power consumption (EPC) figure for the system (for working drives only) has been considered as 1105 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 2,52,000/- 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 2,52,000/- per KW shall be levied on vendor.						
Particulars of bidder / authorised representative							
Name	Designation	Signature	DATE	Company Seal			