

UNPRICED FORMAT						
ENQUIRY NO.:		PE/PG/NK1/E-5515/2016 Dt: 18-03-2017				
NAME OF PROJECT:		2x800 MW NTPC KARIMNAGAR TELANGANA SG TPS				
NAME OF PACKAGE:		VENTILATION SYSTEM				
TECHNICAL SPECIFICATION No:		PE-TS-424-554-A001				
S. No.	DESCRIPTION	UNIT	QTY	TOTAL AMOUNT (INR)	Remarks	
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 (as applicable) 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		Total of 2.1 +2.2+ 2.3	
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 (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, 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		Total F.O.R. site supply price as per Annexure-I	
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		Total E&C charges incl. service tax as per Annexure-I	
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		Total F.O.R. site price as per Annexure-II	
Note: 1.) Bidder to quote Guaranteed Power Consumption for Ventillation System as per Annexure-III.						
Particulars of bidder / authorised representative						
	Name	Designation	Signature	Date	Company Seal	

UNPRICED FORMAT	
ANNEXURE - I	

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ENQUIRY NO.:			PE/PG/NK1/E-5515/2016 Dt: 18-03-2017											
NAME OF PROJECT:			2x800 MW NTPC KARIMNAGAR TELANGANA SG TPS											
NAME OF PACKAGE:			VENTILATION SYSTEM											
TECHNICAL SPECIFICATION No:			PE-TS-424-554-A001											
SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	Qty	UNIT	SUPPLY						ERECTION AND COMMISSIONING				Total
				Unit Ex-Works Price duly packed (Rs)	Total Ex-Works Price duly packed (Rs)	Excise Duty incl. Cess @ __% (Rs)	CST/VAT @ __% against Form'C' & 'E1' (Rs)	Freight incl. service tax @ __% of Total Ex-Works Price (Rs)	Total F.O.R. Site price (Rs)	Unit Price (Rs)	Total price (Rs)	Service Tax @ __% (Rs)	Total price incl service tax (Rs)	Total price (Rs) (Supply + E&C)
d)*	Capacity 4,000 CMH with Motor rating 0.75 KW	1	Nos.*											
6*	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	2	Nos.*											
b)*	Capacity 7,500 CMH with Motor rating 1.1 KW	2	Nos.*											
c)*	Capacity 6,000 CMH with Motor rating 1.1 KW	1	Nos.*											
d)*	Capacity 4,000 CMH with Motor rating 0.75 KW	2	Nos.*											
7*	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 10,000 CMH with Motor rating 1.5 KW	1	Nos.*											
b)*	Capacity 7,500 CMH with Motor rating 1.1 KW	1	Nos.*											
c)*	Capacity 4,000 CMH with Motor rating 0.55 KW	1	Nos.*											
d)*	Capacity 2,000 CMH with Motor rating 0.55 KW	2	Nos.*											
8*	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	2	Nos.*											
b)*	Capacity 10,000 CMH with Motor rating 0.75 KW	4	Nos.*											
c)*	Capacity 7,500 CMH with Motor rating 0.55 KW	1	Nos.*											
d)*	Capacity 6,000 CMH with Motor rating 0.55 KW	1	Nos.*											
e)*	Capacity 4,000 CMH with Motor rating 0.55 KW	1	Nos.*											
f)*	Capacity 2,000 CMH with Motor rating 0.37 KW	2	Nos.*											
9*	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 1000 CMH with Motor rating 100 watts	9	Nos.*											
10	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							NA	NA	NA	NA	

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NAME OF PACKAGE:		VENTILATION SYSTEM													
TECHNICAL SPECIFICATION No:		PE-TS-424-554-A001													
SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	Qty	UNIT	SUPPLY						ERECTION AND COMMISSIONING				Total Total price (Rs) (Supply + E&C)	
				Unit Ex-Works Price duly packed (Rs)	Total Ex-Works Price duly packed (Rs)	Excise Duty incl. Cess @ ___% (Rs)	CST/VAT @___% against Form 'C' & 'E1' (Rs)	Freight incl. service tax @___% of Total Ex-Works Price (Rs)	Total F.O.R. Site price (Rs)	Unit Price (Rs)	Total price (Rs)	Service Tax @___% (Rs)	Total price incl service tax (Rs)		
11	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								NA	NA	NA	NA	
12	FIELD INSTRUMENTS Field instruments like pressure gauge, temperature gauge, pressure transmitter, differential pressure transmitter, flow switch, flow meter etc, including necessary control panel form hook up with main DDCMIS as per specifications.	1	LOT												
13	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	Date		Company Seal	

UNPRICED FORMAT
APPENDIX-A
LIST OF TOOLS AND TACKLES

ENQUIRY NO.:	PE/PG/NK1/E-5515/2016 Dt: 18-03-2017
NAME OF PROJECT:	2x800 MW NTPC KARIMNAGAR TELANGANA SG TPS
NAME OF PACKAGE:	VENTILATION SYSTEM
TECHNICAL SPECIFICATION No:	PE-TS-424-554-A001

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	Qty	UNIT	SUPPLY					
				Unit Ex-Works Price duly packed (Rs)	Total Ex-Works Price duly packed (Rs)	Excise Duty incl. Cess @ __% (Rs)	CST/VAT @ __% against Form 'C' & 'E1' (Rs)	Freight incl. service tax @ __% of Total Ex-Works Price (Rs)	Total F.O.R. Site price (Rs)
1	Measuring tape	1	NO						
2	Tachometer	1	NO						
3	Double ended spanner	1	SET						
4	Ring spanners	1	SET						
5	Gasket punch	1	NO.						
6	Center punch	1	NO.						
7	Hammer with wooden handles	1	NO.						
8	Scissors for sheet metal cutting	1	NO.						
9	Torch light (suitable for 2 cells)	1	NO.						
10	Multimeter	1	NO.						
11	Anemometer	1	NO.						
12	Compound pressure gauge	1	NO.						
13	Slide wrench 8"	1	NO.						
14	Slide wrench 10"	1	NO.						
15	Slide wrench 6"	1	NO.						
16	Box spanner set	1	SET						
17	Screw driver set	1	SET						
18	Align key set	1	SET						
19	MS tool box	1	NO						
				TOTAL					

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

UNPRICED FORMAT APPENDIX-B LIST OF COMMISSIONING SPARES									
ENQUIRY NO.:		PE/PG/NK1/E-5515/2016 Dt: 18-03-2017							
NAME OF PROJECT:		2x800 MW NTPC KARIMNAGAR TELANGANA SG TPS							
NAME OF PACKAGE:		VENTILATION SYSTEM							
TECHNICAL SPECIFICATION No:		PE-TS-424-554-A001							
SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	Qty	UNIT	SUPPLY					
				Unit Ex-Works Price duly packed (Rs)	Total Ex-Works Price duly packed (Rs)	Excise Duty incl. Cess @ __% (Rs)	CST/VAT @__% against Form'C' & 'E1' (Rs)	Freight incl. service tax @__% of Total Ex-Works Price (Rs)	Total F.O.R. Site price (Rs)
1	FAN BELTS	1	SET						
2	PRESSURE GAUGE	1	NO						
3	TEMPERATURE GAUGE	1	NO						
4	FILTER	1	SET						
				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.								
Particulars of bidder / authorised representative									
	Name	Designation	Signature	Date					Company Seal

UNPRICED FORMAT
ANNEXURE - II
LIST OF MANDATORY SPARES

ENQUIRY NO.:		PE/PG/NK1/E-5515/2016 Dt: 18-03-2017						
NAME OF PROJECT:		2x800 MW NTPC KARIMNAGAR TELANGANA SG TPS						
NAME OF PACKAGE:		VENTILATION SYSTEM						
TECHNICAL SPECIFICATION No:		PE-TS-424-554-A001						
NTPC Sr. No.	Description	QTY	SUPPLY					
			Unit Ex-Works Price duly packed (Rs)	Total Ex-Works Price duly packed (Rs)	Excise Duty incl. Cess @ __% (Rs)	CST/VAT @ __% against Form'C' & 'E1' (Rs)	Freight incl. service tax @ __% of Total Ex-Works Price (Rs)	Total F.O.R. Site price (Rs)
2.00.00	VENTILATION SYSTEM							
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 Set						
2.2	UAF Pump							
2.2.1	Pump bearings	1 Set						
2.2.2	Impeller for pump	1 no.						
2.2.3	Pump Shaft	1 no.						
2.2.4	Shaft sleeves	1 Set						
2.2.5	Gland Packings for pumps	1 Set						
2.2.6	Nylon Filter	1 Set						
2.2.7	Spray nozzles	5% of total population or 50 Numbers whichever is higher.						
2.2.8	Water strainer	1 no.						
2.2.9	Brass suction screen/strainer for unitary air filtration tank.	1 Set						
2.2.10	Motor for Centrifugal fan for UAF	1 no.						
3	CONTROL AND INSTRUMENTATION							
(II)	Ventilation System							
6	Measuring Instruments							
6.1	Pressure Gauge	1 No. (for centrifugal pumps of UAF units).						
6.2	Level transmitter	1 No.						
6.3	Pressure transmitter	1 No. (for UAF units)						
7	Process Connection Piping (for Impulse Piping / Tubing, Sampling Piping / Tubing and Air Supply Piping as Applicable)							
7.1	Valves	1 no. of each type, class, size and model						
7.2	2 way valve manifold	1 no. of each type, class, size and model						

NTPC Sr. No.	Description	QTY	SUPPLY													
			Unit Ex-Works Price duly packed (Rs)	Total Ex-Works Price duly packed (Rs)	Excise Duty incl. Cess @ __% (Rs)	CST/VAT @__% against Form'C' & 'E1' (Rs)	Freight incl. service tax @__% of Total Ex-Works Price (Rs)	Total F.O.R. Site price (Rs)								
7.3	Fittings	1 no. of each type, class, size and model														
		TOTAL														
Note:																
Mandatory spares listed above is bare minimum requirement. In case any additional mandatory spares requirement is covered elsewhere in the tender specification and not specified above, same shall be deemed to have been covered in bidders scope of supply.																
Particulars of bidder / authorised representative																
	Name	Designation	Signature	Date				Company Seal								

UNPRICED FORMAT						
ANNEXURE - III						
Guaranteed Power Consumption For Ventilation System						
ENQUIRY NO.:		PE/PG/NK1/E-5515/2016 Dt: 18-03-2017				
NAME OF PROJECT:		2x800 MW NTPC KARIMNAGAR TELANGANA SG TPS				
NAME OF PACKAGE:		VENTILATION SYSTEM				
TECHNICAL SPECIFICATION No:		PE-TS-424-554-A001				
S.NO.	DESCRIPTION OF EQUIPMENT	NO OF EQUIPMENT		TOTAL GUARANTEED POWER CONSUMPTION FOR EACH EQUIPMENT AT MOTOR INPUT TERMINAL AND CONTROL PANEL (IN KW)	DUTY FACTOR	TOTAL KW
		WORKING	STANDBY			
		3A	3B	4	5	6=3Ax4x5
1	ESP Building- UNIT- 1.					
1.1	UAF fan	1	0		1	
1.2	UAF pump	1	1		1	
2	ESP Building- UNIT- 2.					
2.1	UAF fan	1	0		1	
2.2	UAF pump	1	1		1	
				TOTAL (KW)		55
Note:	Estimated power consumption (EPC) figure for the system (for working drives only) has been considered as 55 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 @ US \$ 4314 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 @ US \$ 4314 per KW shall be levied on vendor. If the contract currency is other than US \$, then the liquidated damages shall be in equivalent amount in contract currency based on Bill selling exchange rate of State Bank of India prevailing in the date of Award of Contract i.e. 05.02.2016.					
Particulars of bidder / authorised representative						
Name	Designation	Signature	DATE	Company Seal		