

ANNEXURE-2 (REV-00)
PRICE BID FORMAT FOR AIR CONDITIONING AND VENTILATION (HVAC) SYSTEM
PROJECT- 1 X 100MW NAMRUP COMBINED CYCLE REPLACEMENT
POWER PROJECT (PHASE -1) –NAMRUP, ASSAM
SPEC NO: PY51317, Rev 00

I.	AIR CONDITIONING SYSTEM				
S. No.	Item Description	Unit	Quantity	PRICE in INR (Refer Notes Below)	
				Unit Price (INR)	Total Price (INR)
I A.	Supply of Materials for Air Conditioning System				
A.1	Anti-Vibration Pads for Chiller Installation: Rubber Pad Size : 150 x 150 x 12 mm	Nos	24		
A.2	Foundation Bolt for Chiller Installation: Foundation Bolt Size : M22x225L	Nos	12		
A.3	Foundation Bolt for Chilled and Cooling Water Pumps Foundation Bolt Size : M16x250L	Nos	24		
A.4	Level Switch for Expansion Tank and FRP Cooling Towers	Nos	3		
A.5	PUF Insulation material with Aluminium cladding for Chilled Water Pipe PUF Insulation Density : 24Kg/cm3 ; Th: 50 mm)				
5.i	PUF Insulation material with Aluminium cladding for Chilled Water Pipe	Mtrs	140		
5.ii	PUF Insulation material with Aluminium cladding for Chilled Water Pipe	Mtrs	35		
5.ii	PUF Insulation material with Aluminium cladding for Chilled Water Pipe	Mtrs	25		
A.6	Cast Iron wafer type Butterfly Valves - 100 NB	Nos.	2		
A.7	Pressure Gauges with Hook up materials (Thermowell, Socket, Nipples, Adapter required for installation)	Nos.	22		
A.8	Temperature Gauges with Hook up materials (Thermowell, Socket, Nipples, Adapter required for installation)	Nos	10		
	Sub-Total (I A) for Supply of Materials for Air Conditioning System				
I B.	Installation/ Erection of Items / Equipment for Air Conditioning System	Unit	Quantity	Unit Price (INR)	Total Price (INR)
B.1	Balance Air Distribution System:				
i.	Balance Ducting works for Fabrication of duct.	Sqmt	10		
ii.	Balance Ducting works for Installation of duct.	Sqmt	60		
iii.	Balance Acoustic Insulation for Ducts.	Sqmt	10		
iv.	Thermal Insulation for Ducts of 60 Sq.m. inside AHU room.	Sqmt	60		

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v.	Fixing of Supply and Return Air Diffusers in Air Ducting / false ceiling; Size: 350x350mm	Nos	120		
vi.	Installation of Motorised Fire Damper with Actuators in Duct Plenum.	Nos	2		
vii.	Fine Filters Installation in Air Ducting.	No	1		
viii.	Duct Heater Installation in Duct.	No	1		
ix.	Humidistat Installation inside AHU Room.	Nos	2		
x.	Thermostat installation in Air Ducting.	Nos	2		
xi.	Manometer Installation across fine filter.	No	1		
B.2	Balance Installation of following Fresh Air Fan Assembly works:	Set	1		
B.3	Balance Installation of Instrumentation works:				
i.	Installation of Pressure Gauges along with Hook up materials.	Nos	22		
ii.	Installation of temperature Gauges along with Hook up materials.	Nos	10		
iii.	Installation of Level Switches along with Hook up materials.	Nos	3		
iv.	Installation of Float valve for expansion tank in AHU room.	No	1		
B.4	Balance Erection of Piping Works for AC system	Mtrs	42		
B.5	Erection of Insulation Works for Chilled Water Pipings :				
i.	Erection of PUF Insulation material with Aluminium cladding for Chilled Water Pipe (100NB) size.	Mtrs	140		
ii.	Erection of PUF Insulation material with Aluminium cladding for Chilled Water Pipe 40 NB size.	Mtrs	35		
iii.	Erection of PUF Insulation material with Aluminium cladding for Chilled Water Pipe 32NB size.	Mtrs	25		
B.6	Valves Installation Works :				
i.	Installation of 100 NB Butterfly valves (Flanged connection).	Nos	18		
ii.	Installation of 80 NB Butterfly valves (flanged connections).	Nos	6		
iii.	Installation of 100 NB Globe Valve (flanged connection).	Nos	3		
iv.	Installation of 100 NB Strainers (flanged connection).	Nos	4		
v.	Installation of 100 NB check valves (flanged connection).	Nos	4		
vi.	Installation of 80 NB Balancing Valves (flanged connections) .	Nos	3		
vii.	Installation of 20 NB Gate Valves.	Nos	8		
viii.	Installation of 32 NB Gate Valves.	Nos	2		
ix.	Installation of 3 way Motorised Valves of 80 NB (flanged connection).	Nos	3		
B.7	Control cables				

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i.	Cabling works for Fire dampers, Humidifiers, Humidistats and Thermostats; Cable Size : 3 C X 2.5 mm2.	Mtrs	540		
B.8	Balance Chilled Water & Condenser Water Pumps Erection and Commissioning works:				
i.	Pocket Grouting for Chilled and Condenser water Pumps Installation	Nos	24		
B.9	Balance Installation for FRP Cooling Towers				
i.	Installation of Cooling Tower Fan Motor Fixing at top of the Cooling Tower Body	Nos	2		
ii.	Fixing or Base Grouting of FRP Cooling Tower by Anchor Fastener.	Nos	2		
B.10	Balance Erection work for Expansion Tank(1M3)				
i.	Base Frame Fixing of Expansion Tank on expansion tank Foundation.	Nos	1		
ii.	Application of Thermal Insulation on the Surface of Expansion Tank.	Sqmt	10		
iii.	Installation Air Vent at top of Expansion Tank.	No	1		
B.11	Balance Water Cooled Chillers works:				
i.	Installation of Anti-Vibration pads (AVP) for 2 nos. of chiller skids.	Nos	24		
ii.	Grouting works after installation of Vibration Pads. 6 Nos. of foundation bolts are envisaged for each chiller.	Nos	12		
	Sub-Total (I B) for Installation works for Air Conditioning System				

II.	VENTILATION SYSTEM				
S. No.	Item Description	Unit	Quantity	PRICE in INR (Refer Notes Below)	
				Unit Price (INR)	Total Price (INR)
II A	Supply of Materials for Ventilation System				
1	Fixing Bolt for Motors of Centrifugal Blowers Bolt Size : M16x75L	Nos.	8		
2	Outlet Canvas connection (At fan outlet) with Nuts& Bolts Size : 1296x2067 mm ; Length 200 mm (approx.)	Nos.	2		
3	Anti-Vibration Pads for Centrifugal Blower Installation Rubber Pad Size : 150 x 150 x 12 mm	Nos.	32		
4	Foundation Bolt for Blower Installation Fan Foundation Bolt Size : M16 x 200L	Nos.	16		
5	ISA 40x40x5 (MS) for duct support structures	M	250		
6	Air Pressure Switch	No.	1		

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7	Isolating Switch for Roof Exhausters	Nos	25		
8	Propeller Fans with motors ; Capacity : 1000 cmh Complete assembly of propeller fans.	Nos.	8		
	Sub-Total (II A) for Supply of Materials for Ventilation System				
II B	Installation of Items / Equipments for Ventilation System	Unit	Quantity	Unit Price (INR)	Total Price (INR)
B.1	Erection of Centrifugal Blowers in Ventilation Fan Room				
B.1.1	Centrifugal Fan of 85000 CMH & 50mm St. Press.				
B.1.1.1	Blower Base Alignment for Centrifugal Fans	Set	2		
B.1.1.2	V Belt Fixing and Belt Cover attachement	Set	2		
B.1.1.3	Installation of Anti-Vibration pads (AVP)	Nos.	32		
B.1.1.4	Installation of Elec. Motors for Centrifugal Fans	Nos.	2		
B.1.2	Erection of air intake louvers with filter assembly	Set	1		
B.1.3	Erection of canvas Connection piece (At fan outlet) with Nuts& Bolts Size : 1296x2067 mm & 200mm length.	Nos.	2		
B.1.4	Erection of Outlet Damper (1987x1216mm) with Nuts& Bolts for each blower.	Nos.	2		
B.2	Fabrication and Erection of Air Distribution Ducts :				
B.2.1	Ducting works for Fabrication of duct.	Sqmt	110		
B.2.2	Installation of Duct works (Plenum & Branch Duct) in the Switchgear Room	Sqmt	190		
B.2.3	Installation of Supply Air Grills with Volume Control Dampers in Ducts :	Nos.	35		
B.2.4	Installation of Volume Control Dampers in Duct; Size : 1300x1100 mm	Nos.	2		
B.2.5	Installation of Motorised Fire Damper with Actuators in Duct Plenum.	Nos	2		
B.2.6	Installation of Gravity Damper in Switchgear Room ; Gravity Damper Size : 550x550 mm	Nos.	7		
B.2.7	Installation of Air Pressure Switch along with Hook up materials.	No.	1		
B.2.9	Installation of Inclined tube manometer.	Nos.	2		
B.3	Installation of Roof Exhauster Fans				
B.3.1	Fixing of Rain Protection Hoods at top of the Roof Exhausters for STG Building; Capacity: 40000 CMH.	Nos	15		

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B.3.2	Installing roof exhausters with Rain protection hoods on the roof of GTG Building; 30000 CMH capacity.	Nos	10		
B.4	Installation of Wall Mounted Exhauster Fans				
B.4.1	Installation of Exhaust Fan ; Capacity of each fan: 5000 cmh	Nos	11		
B.4.2	Installation of following Exhaust Fan along with motor assembly ; Capacity of each fan : 10000 cmh	Nos	11		
B.4.3	Installation of Propeller Fan each of Capacity: 1000 cmh.	Nos	8		
B.5	Fixing of Rain Protection Cowl (Anchoring)				
B.5.1	Fixing of Rain Protection Cowl for fan capacity of 5000 cmh;	Nos	18		
B.5.2	Rain Protection Cowls for fans capacity of 10000 cmh;	Nos	39		
B.5.3	Rain Protection Cowls for fans each of capacity 1000 cmh ;	Nos	8		
B.6	Balance Electrical Works				
B.6.1	Installation of Local control Panel for pressurized Ventilation System	No	1		
B.6.2	Installation of Isolating Switch	Nos	25		
B.6.3	Laying of Control Cable 3C x 2.5 sq.mtr.	M	200		
B.7	Testing and Commissioning of Ventilation Blowers; Capacity : 85000 CMH & 50mm St.	Nos	2		
	Sub-Total (II B) for Installation works for Ventilation System				
	GRAND TOTAL (I A+I B + II A+II B)				

Notes:

- Bidder to quote for all the items as per price bid format. Incomplete/partial offer shall make bidder's offer liable for rejection.
- Price bid evaluation will be based on total price quoted as per Sl. No. I A+I B + II A+II B of the above. Offer will be evaluated based on total price for Sl. No. I A+I B + II A+II B of price format w.r.t the finalized technical scope and commercial conditions including the applicable tax components.
- Bidder to quote the base rates only. Applicable taxes and duties to be indicated separately.
- The unit rates of all the items quoted by the bidder shall remain firm till the execution of contract.
- The above items shall be quoted as per tender specification. Responsibility of ensuring correctness & completeness of scope of supply as per spec. requirement solely lies with bidder.
- The BOQ indicated in this Price Format are for tender evaluation only. However the BOQ shall be finalized during detailed engineering stage and shall be binding on the bidder as per the firm Unit rate.
- Bidder to note that the variation in quantities of any item shall be limited to **(-) 30 % to (+) 30 %**.
- Bidder is required to furnish confirmation to this priced bid format in their technical offer by indicated 'Quoted' against all the items listed above, failing which their offer may be liable for rejection.

BIDDER'S SIGNATURE

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NAME:

DATE

COMPANY SEAL