

Tender Inviting Authority: ITPO Pragati Maidan New Delhi-110001.

Name of Work: Supply, Installation, testing and commissioning of cooling towers along with connecting accessories of HVAC Plant for hall No.8-11 and 12,12A at Pragati Maidan New Delh

Contract No: 169-ITPO(1)/E-E/20-21/2073

Name of the Bidder/ Bidding						
PRICE SCHEDULE						
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )						
Sl. No.	Item Description	Quantity	Units	BASIC RATE with all taxes including GST In Figures To be entered by the Bidder	TOTAL AMOUNT with all taxes including GST	TOTAL AMOUNT In Words
1	Supply Installation Testing and Commissioning of Induced draught counter flow FRP Cooling Tower of 562.5 TR for 450 TR Chiller capacity with cooling tower components, FRP casing, FRP basin, base frame (galvanized), Fills, fittings with intact Louvers dynamically balanced Arial flow type fan direct driven TEFC/TEAO induction motor, suitable Inspection Ladder, Electrical cable and tray and connections to the panel including of emergency push button, starter(star-delta),Vibration Isolator, Anti Vibration Mountings etc complete with connection to the old existing system along with dismantling and buy-back of existing cooling tower etc. as required. Cooling towers shall be certified by CTI (Cooling Tower Institute). The new cooling tower must have following specifications:- Heat Rejection Capacity : 562.5TR, Water Flow rate: 1800 USGPM Hot water Temp.: 97.5°F, Cold water Temp. : 90°F,Wet Bulb approach: 7°F, Wet Bulb temperature: 83°F,Evaporation Loss: Not more than 0.7%, Drift Loss: Not more than 0.001%, Total water loss: Not more than 0.7%, Fan Material: Cast Aluminum alloy blades with MSHRD Hub, Motor rating : Appropriate Motor make: ABB/Havells/Hindustan/New India, Motor Type: Squirrel Cage (IP55), TEFC/TEAO, Premium Efficiency(IE3), Fills: High efficiency PVC fills with UV stabilization Tower Structure- Casing: FRP,Basin: FRP, Fill Support: HOT DIPPED GALVANISED FRAME, Bird Screen: HOT DIPPED GALVANISED FRAME Distribution Support: HOT DIPPED GALVANISED FRAME HARDWARE: Stainless Steel,Ladder: MSHDG, Base frame: Galvanized (mini. 632 gsm) Cooling Tower Make: BELL/ MIHIR/PAHARPUR/DELTA	7.000	Each		0.00	INR Zero Only

2	Supplying, fixing, testing and commissioning of condenser water pipes of following sizes of MS 'C' class along with necessary clamps, vibration isolators and fittings such as bends, tees etc. but excluding valves, strainers, gauges etc. adequately supported on rigid supports duly painted/buried in ground excavation and refilling etc. as per specification and as required complete with painting in all respect including dismantling and buyback of existing damaged pipe etc. as reqd. Note:-The Pipes size 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes up to 350 mm dia. And from minimum 7mm thick MS sheet for pipes of 400 mm dia. and above. <b>MAKE: TATA/SAIL/JINDAL</b>					
2.01	500 mm dia	40.000	Meter		0.00	INR Zero Only
2.02	400 mm dia	72.000	Meter		0.00	INR Zero Only
2.03	300 mm dia	120.000	Meter		0.00	INR Zero Only
2.04	250 mm dia	80.000	Meter		0.00	INR Zero Only
2.05	200 mm dia	20.000	Meter		0.00	INR Zero Only
2.06	150 mm dia	65.000	Meter		0.00	INR Zero Only
2.07	80 mm dia	42.000	Meter		0.00	INR Zero Only
2.08	65 mm dia	105.000	Meter		0.00	INR Zero Only
2.09	40 mm dia	35.000	Meter		0.00	INR Zero Only
3	Supplying, fixing, testing and commissioning BUTTERFLY VALVE (MANUAL) of following size for condenser water circulation as per specifications. with C I body SS disc nitrile sheet & O - ring & PN 16 pressure rating as specified along with fittings, Gasket, Nut-Bolts, Flanges etc. complete as required after dismantling and buyback of existing damaged valve etc. as reqd. <b>MAKE: CASTLE/ADVANCE/AUDCO</b>					
3.01	300 mm dia	28.000	Each per		0.00	INR Zero Only
3.02	250 mm dia	4.000	Each per		0.00	INR Zero Only
3.03	200 mm dia	3.000	Each per		0.00	INR Zero Only
3.04	80 mm dia (Drain Valve)	14.000	Each per		0.00	INR Zero Only
3.05	40mm dia (Gate valve)	14.000	Each per		0.00	INR Zero Only
3.06	40mm dia (Float valve)	14.000	Each per		0.00	INR Zero Only
4	Supply, Installation, Testing & Commissioning of Balancing valves of 300 mm dia., C.I. Body Bonnet SG Iron IS : 1865 GR 420/7 Disc : EN 3 along with fittings, Gasket, Nut-Bolts, Flanges etc. complete as required after dismantling and buyback of existing damaged valve etc. as reqd. <b>MAKE: CASTLE/ADVANCE/AUDCO</b>	8.000	Each		0.00	INR Zero Only
5	Supply, Installation, Testing & Commissioning of Balancing valves of 250 mm dia., C.I. Body Bonnet SG Iron IS : 1865 GR 420/7 Disc : EN 3 along with fittings, Gasket, Nut-Bolts, Flanges etc. complete as required after dismantling and buyback of existing damaged valve etc. as reqd.. <b>MAKE: CASTLE/ADVANCE/AUDCO</b>	6.000	Each		0.00	INR Zero Only
6	Designing, Providing and Construction of RCC vertical column suitable for installation of cooling towers on roof top of halls complete with shuttering, reinforcement, plastering, whitewashing etc. as required including dismantling and disposing off the existing damaged columns as per the direction of engineer in-charge.	15.750	Cu. Mtr		0.00	INR Zero Only

Total in Figures			0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only		