

Airports Authority of India
Swami Vivekananda Airport, Raipur
COMPARATIVE STATEMENT

1) Name of Work:- "Provision of standby hydro-pneumatic water pumping system at S.V. Airport, Raipur."

2) Tender ID:- 2021_AAI_76747

3) Date & Time of Opening : - 22.06.2021, 13:00 Hrs.

S. N.	Item Description	Qty	Unit	Estimated/Justified cost		1/2 'M/s Deepsikha Enterprises, Raipur		2/2 'M/s Om Jyoti Engineering Enterprises, Noida	
				RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)
1	Supply, Installation, Testing and Commissioning of factory made (at the mother plant) package type skid mounted hydro pneumatic system comprising of: (a) Vertical inline single/multistage centrifugal pumping set with stainless steel SS stage casing and SS impellers with stainless steel shaft, cast iron suction & discharge casing, connected to suitable capacity TEFC ventilated induction motor 2 pole, 2900rpm, suitable for 415±10% Volt, 3 phase, 50 Hz A.C. supply. (b) Pressure vessel of non-corrosive FRP composite construction lined with NSF and/or FDA listed material, like high density polyethylene with fully replaceable polyurethane. Air cell burst pressure of minimum of 5 times the vessel. Operating pressure and cycle tested for 2,50,000 cycles. No. and capacity of Pressure Vessel - 01 No. X 100Ltrs. (c) Electrical Control Panel including provision for cyclic operation of Pumps-Pump working sequence should change after every operation. Control panel with programmable logic controller (PLC) with inbuilt PID controller, digital display with fluorescent screen, one no. 3 ph, 415±10%V, AC variable speed drive of suitable capacity rating with inbuilt EN55011 class A RFI filters, having standard function of BI loop, energy saving catching a spinning load with speed search, auto hunting jog preset speeds, controlled stop on loss of supply power loss side through, DDC injection breaking fast stop. Drive should have selectable rated Input frequency 50/60 Hz and output frequency range of 0.5-32 Hz, contactors, overload relays and MCBs should conform to. IEC 898- 1995 standards Ammeter, voltmeter. All trip indications should blink in case of trip and panels should only be accessible through an access code. (d) Electronic Pressure switches having maximum pressure and differential scale should be confirming BS-6134 standards and IP55 protection class. (e) Complete set system to be mounted on a common MS Epoxy painted base frame and shall follow following duty. (f) The cost will include making necessary flanges suction and delivery headers in SS 316/MS Galvanized, providing ball/butterfly valves at suction and delivery side, non-return valves in delivery side and SS/ Brass Y strainers, SS Needle Valve, SS Pressure Gauge, Brass Pressure Release valve, Pressure transmitter with each pump etc. (g) With proper foundation bolt holding the base frame with PCC foundation i/c minor piping work (Aprox. Upto 10 Meter, 80 mm Dia GI Piping Work) etc. (Vendor to submit performance curves and technical catalog of the proposed modal for review & information) The pump shall be selected for performance at best efficiency point. However, the pump selection shall be suitable for performance with set point @ + 20% of the rated head.								
1.1	Domestic Water Capacity: 250 LPM Each Pump (1 Working + 1 Standby) @ 36 M head. Similar to Wilo Helix FIRST V 1605-5/16/E/S/400-50 or Kirloskar HYPN KCIL15-3 or equivalent.	1	Job	3,85,113.00	385113.00	384092.00	384092.00	321000.00	321000.00
1.2	Flushing Water Capacity: 450 LPM Each Pump (1 Working + 1 Standby) @ 40 M head. Similar to Wilo Helix FIRST V 3602-5/16/E/S/400-50 or Kirloskar HYPN KCIL32-3-2 or equivalent.	1	Job	5,28,432.00	528432.00	431830.00	431830.00	457000.00	457000.00

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S. N.	Item Description	Qty	Unit	Estimated/Justified cost		1/2 'M/s Deepsikha Enterprises, Raipur		2/2 'M/s Om Jyoti Engineering Enterprises, Noida		
				RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	
2	Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) in foundation of pump, DG set etc including form work etc as required.	2	Cum	6,579.14	13158.28	11250.00	22500.00	7500.00	15000.00	
3	Supply of following sizes Aluminium Armoured conductor XLPE insulated, PVC tape inner sheathed Cable for working voltage 1.1 KV grade & as per IS: 7098 (Part- I) 1988 with up to date ammendments, complete etc as required. 4 core X 16 Sqmm	75	mtr.	146.45	10983.75	250.66	18799.50	180.00	13500.00	
4	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required. Upto 35 sq. mm (clamped with 1mm thick saddle)	75	mtr.	29.29	2196.75	47.60	3570.00	80.00	6000.00	
5	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 4 core X 16 Sqmm	4	Set	223.21	892.84	357.50	1430.00	800.00	3200.00	
6	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	75	mtr.	32.32	2424.00	49.33	3699.75	60.00	4500.00	
				Say Rs.	9,43,201.00		8,65,921.25		8,20,200.00	
							Below	-8.19	Below	-13.04
							Lowest bidder	L2		L1
Certified that I have personally conducted check of the tenders duly computed checked and satisfied myself, that the checking work has been propely done and the rates quoted by the contractor i.e. totals are carried over correctly in the comparative statement.										

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Signature Not Verified

Digitally signed by PRAMOD SONI

Date: 2021.07.19 12:47:57 IST

Location: eProcurement System for Central PSUs

