

Government eProcurement System Created By: Pramod Soni Created Date/Time: 22-Jun-2021 01:17 PM Tender Title: Provision of standby hydro-pneumatic water pumping system at S.V. Airport, Raipur. Tender ID: 2021_AAI_76747_1
Tender Inviting Authority: Sr. Manager (E-E), Airports Authority of India, S.V. Airport, Raipur
Name of Work: Provision of standby hydro-pneumatic water pumping system at S.V. Airport, Raipur.
Contract No: 2021_AAI_76747

SCHEDULE OF WORK / ITEM(S)									
SI.N o	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	OM JYOTI ENGINEERING ENTERPRISES(GST N-NA)		DEEPSIKHA ENTERPRISES(GST N-NA)		
					Rate	Amount	Rate	Amount	
1.00	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.								

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SCHEDULE OF WORK / ITEM(S)								
Sl.No	Description of Work / Item(s)	No. of Qty	Units	Estimated Rate	OM JYOTI ENGINEERING ENTERPRISES(GST N-NA)		DEEPSIKHA ENTERPRISES(GST N-NA)	
					Rate	Amount	Rate	Amount
1.10	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.	1.00	Job	385113.00	321000.00	321000.00	384092.00	384092.00
1.20	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.	1.00	Job	528432.00	457000.00	457000.00	431830.00	431830.00
2.00	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.	2.00	Cum	6579.14	7500.00	15000.00	11250.00	22500.00
3.00	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	75.00	mtr.	146.45	180.00	13500.00	250.66	18799.50
4.00	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)	75.00	mtr.	29.29	80.00	6000.00	47.60	3570.00
5.00	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	4.00	Set	223.21	800.00	3200.00	357.50	1430.00
6.00	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.	75.00	mtr.	32.32	60.00	4500.00	49.33	3699.75

L1 Amount	L1 Vendor
321000.00	OM JYOTI ENGINEERING ENTERPRISES
431830.00	DEEPSIKHA ENTERPRISES
15000.00	OM JYOTI ENGINEERING ENTERPRISES
13500.00	OM JYOTI ENGINEERING ENTERPRISES
3570.00	DEEPSIKHA ENTERPRISES
1430.00	DEEPSIKHA ENTERPRISES
3699.75	DEEPSIKHA ENTERPRISES

Total in Figures

820200.00

865921.25

Lowest Amount Quoted BY: OM JYOTI ENGINEERING ENTERPRISES(820200.00)

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BOQ Summary Details				
Tender Title: Provision of standby hydro-pneumatic water pumping system at S.V. Airport, Raipur.				
Tender ID: 2021_AAI_76747_1				
Sheet Name	Sl.No	Bidder Name	Amount	Bid Rank
BoQ1	1	OM JYOTI ENGINEERING ENTERPRISES	820200.00	L1
	2	DEEPSIKHA ENTERPRISES	865921.25	L2

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Mgt (EE)

Signature Not Verified

Digitally signed by PRAMOD SONI
Date: 2021.07.19 12:42:58 IST
Location: eProcurement System for Central PSUs