

NAME OF WORK : Supply, Delivery and erection of Vertical Turbine pump 12500 LPM X 22 M head and 75HP Motor for Collector well - II and unit No 2 at Edaikudi under Vedaranyam CWSS.

Sl. No.	Description of item of Work	Quantity		Specifications	Unit	Rate		Amount Rs. P.	
						In Fig	In Word		
1	Supply and delivery of Vertical water/oil lubricated statically, dynamically, hydraulically balanced turbine pump capable of discharging the following duty condition as given below due to all causes with surface discharge head confirming to IS 1710 and as amended as on date with accessories as per IS 5120/1977 (Reaffirmed 2011) to suit the site condition.	0.00		IS 1710, IS 5120/1977 and as amended time to time				0.00	
	The speed, No. of stages, sizes of column pipes and line shaft indicated is based on site condition prevailing during investigation. The pump should be supplied with non reversible ratchet pin housing safety clutch, suction strainer etc. The Pump Bowl assembly shall be with bronze impeller running at 1450 rpm.								
	The pump includes suitable head shaft, suitable 1.5 metre long SS line shaft required Nos. to suit the well depth, Rubber line shaft bearing of required Nos., C.I Bearing retainer of required Nos., 100 litre HDPE Pre-lubricating tank with 20mm PVC Rigid pipe connection along with GM gate valves, Suitable ERW column pipe of each 1.5m long of required Nos. to suit the well depth, Suction bell mouth of suitable size, M.S. clamps suitable for column pipe/line shaft -2 set and Spanner - 1 set etc complete. The rates are inclusive of transportation and handling charges.								
	12500 lpm X 22 m head pump	1.00	No.		Each	14,98,000.00	Rupees fourteen lakhs ninety eight thousands only	1498000.00	

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						In Fig	In Word	
2	Supply and delivery of vertical Hollow shaft Squirrel cage induction motor (IS 325) suitable for the above pump continuous rated SPDP type with Class 'F' insulation for operation in AC, 3 Phase/50 HZ ($\pm 5\%$), 415V ($\pm 10\%$) running with a speed of pump noted above and with inbuilt thrust bearing assembly capable of taking up the entire load and non - reverse ratchet assembly etc., complete.			As per IS 325 Special specification				
	The motor rating noted above is the minimum and shall be such that it should never be over loaded when the pump works at MWL condition and shall be 10% over and above the maximum HP absorbed by the pump. The motor offered should be energy efficiency motors to have maximum efficiency at high power factor. Separate thrust bearing assembly could also be supplied to take up the down load. The rates are Basic with inclusive of handling charges and as directed by Twad Bd officers.							
c	75 HP Motor	1.00	No.		Each	3,71,126.00	Rupees three lakhs seventy one thousands one hundred twenty six only	371126.00
3	Removal of existing 80 HP Vertical Turbine pumpset from common sump Thiruvaikavur as directed by TWAD board officer.	1.00	No.	Special specification	Each	18,716.00	Rupees eighteen thousands seven hundreds sixteen only	18716.00

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						In Fig	In Word	
4	Labour charges for erection of turbine pumpset including fixing and jointing and also fixing of raiser pipes to a required length with valves, pressure gauges and erection of panel board consisting of TPICN switches ,starters, voltmeter, ammeter,three pilot indicating lamp, capacitors, single facing preventor, water level guard as per IE rules etc., complete and testing the pumpset and trial run for 10 days including signing of completion of reports as required by EB authorities & civil works. For 75 HP	1.00	No.	As per IE Rules & Special specification IS1554 Part I	Each	35,092.00	Rupees thirty five thousands ninety two only	35092.00
5	Supply delivery of 450mm Non return valve of reputed make WAFER TYPE (DUAL PLATE CHECK VALVE)with ISI mark heavy to be used in pump houses. Construction confirming to standard API 594. Body should confirm cast iron grade FG 260, IS 210, Disc plates confirming to ASTM A 216, HINCH PIN/STOP PIN/SPRING SHOULD BE of SS to AISI 410/304. BODY SHEET SHOULD BE of EDPM rubber. The body should be tested to 15kg/sq cm and seat should be tested to 10kg/sq cm. The rates are basic rates with inclusive of Transportation charges.	1.00	No.	As per IE Rules & Special specification IS1554 Part I	Each	85,283.00	Rupees eighty five thousands two hundreds eighty three only	85283.00
6	Supply and delivery of 450mm X 300mm CI DF TAPPER (1 X 56)	56.00	Kg.		one Kilogram	92.00	Rupees ninety two only	5152.00
							Total :	2013369.00

Rupees twenty lakhs thirteen thousands three hundreds sixty nine only

I / WE

AGREE TO EXECUTE THE ABOVE ITEMS OF WORK AT
PERCENTAGE EXCESS / LESS OVER THE DEPARTMENTAL VALUE MENTIONED ABOVE.