PUNE METROPOLITAN REGION DEVLOPMENT AUTHORITY
Sub- Requirement of Non Clog submersible Sewage Pumps sets

Sr No	Description of Non Clog Submericible Pumps	Unit	Qty	Rate	Amount
1	Supply, erection & commissioning & Non Clog submersible Sewage Pumps set model suitable as per below parameters. Submersible sewage pump designed as single-stage block unit for pumping sewage with solids content of municipal, commercial and industrial rages. The motor must be dimensioned in a way that the traction power is guaranteed by a sufficient power reserve at duty point to avoid a clogging in the impeller. In case of a power input of Pl. I <30kW, this corresponds to a power reserve of 10%. In case of~ 30kW, a power reserve of 5% must be provided. When using a frequency converter the power reserve must be additionally increased by 5%.Submersible motor for vertical wet sump installation and fully submerged or intermittent service. Cooling via the surrounding liquid Or Internal cooling Jacket. The pumping values must be guaranteed as per DIN EN ISO 9906 class 2. Motor Ratingand Speed : As per manufacturers Design. Operating Liquid Temp. : Maximum Temp. Of 45 OC. Liquid Sp. Gravity : 1.05 Motor : High efficiency class IE 3/ IE 4 as three-phase asynchronous motor as per DIN EN ISO 60034 I BEE minimum 3 star rated., other accessories - Foot bend with support, SS breaded cable with required D shacklle & hooking arrangement for lifting & shifting of pump in Pump well, Flexible copper cable of 1.1 KV rating with waterproof termination of pump motor having 30 Mtr run for each pump set As per Pump details mentioned below Motor Protection Type : IP-68, Insulation Class : H, Shaft Sealing · : Double Mechanical seal, Power Supply: 415 V (±10%) I 50(±5%) I 3 Phase. Power and Control cable : Heavy Duty Rubber Flexible Cables suitable for DOL I Star Delta I VFD compatiblel A TS starting methods as per the respective				
1	Flow 200 -250 CUM/ Hr @ 20 Mtr to 25 Mtr Head	Each	1		
2	Flow 250 -300 CUM/ Hr @ 20 to 25 Mtr Head	Each	1		
3	Flow 300 -350 CUM/ Hr @ 20 to 25 Mtr Head	Each	1		
4	Flow 350 -400 CUM/ Hr @ 20 to 25 Mtr Head	Each	1		
5	Flow 400 -450 CUM/ Hr @ 20 to 25 Mtr Head	Each	1		
6	Flow 450 -500 CUM/ Hr @ 20 to 25 Mtr Head	Each	1		
7	Flow 500 -550 CUM/ Hr @ 20 to 25 Mtr Head	Each	1		
8	Flow 550 -600 CUM/ Hr @ 20 to 25 Mtr Head	Each	1		
9	Flow 200 -250 CUM/ Hr @ 25 Mtr to 30 Mtr Head	Each	1		
10	Flow 250 -300 CUM/ Hr @ 25 to 30 Mtr Head	Each	1		
11	Flow 300 -350 CUM/ Hr @ 25 to 30 Mtr Head	Each	1		
12	Flow 350 -400 CUM/ Hr @ 25 to 30 Mtr Head	Each	1		
13	Flow 400 -450 CUM/ Hr @ 25 to 30 Mtr Head	Each	1		
14	Flow 450 -500 CUM/ Hr @25 to 30 Mtr Head	Each	1		
15	Flow 500 -550 CUM/ Hr @ 25 to 30 Mtr Head	Each	1		
	Total Cost for Pumps				
	Factory Testing Charges				
	Packing & forwarding charges				
	Transport with in 80 KM Distance from PMRDA Office				
	Total Cost for Pumps				
	GST applicable Extra				
	Grand total With Taxes				

Approved make of pump
Kirloskar
Wilo
Aqua Pump
Deccan/ Karvel
Grundfoss
KSB