

BRIHANMUMBAI MUNICIPAL CORPORATION

Sub: Supply, Installation, Testing, and Commissioning work to upgrade the existing hydraulic system installed at Shahaji Raje Bhosale kreeda Sankul Andheri. (Tender Id - 2024_MCGM_1114337_1)

Technical Data Sheet

Sr. No.	Description	BMC's Requirement	To be filled by the tenderer
PUMP			
1	Type	Vertical Inline	
2	Configuration:-	3+1	
3	Capacity (Lpm)	5100	
4	Total Head (Mwc):		
	a) Static head difference	36 M	
	b) Suction lift	5 M	
	c) Friction loss	6 M	
	d) Terminal pressure:	8 M	
	e) Others	5 M	
	Total	60 Mtr	
5	NPSH Available	0 Mtr	
6	NPSH Required	3.37 mtr	
7	No. Delivery Head (M)	95 Mtr	
8	Casing Pressure (M)	120 Mtr	
9	Min. Combined Efficiency With Vfd	70%	
10	Maximum Speed	2900 RPM	
CONSTRUCTION			
11	Body / Housing	CI	
12	Shaft	SS	
13	Impeller	SS	
14	Internals	SS	
15	Seal	MECH.	
16	Insulation Class	F	
17	Stages	3	
18	Max. Operating Pressure	16 BAR	
19	Approval	CE,EAC,UKCA,SEPRO	
MOTOR			
20	Motor Standards	IEC	
21	IEC Eff. Class	IE 3	

22	Enclosure	IP 55	
23	Rated Power	22 KW (30 HP)	
24	Rate Current	MAX. 40 AMPS	
25	Type	VERTICAL INLINE	
26	Speed (Rpm)	2900	
27	Drive	VFD	
28	Electric Supply	415 V	
29	Pole	2 POLE	
30	Motor Efficiency (Full Load)	92 %	
	PUMP PANEL		
31	CRCA Sheet Thickness	14 SWG	
32	Degree Of Protection	IP 52	
33	CRCA Sheet Coating	POWDER COAT	
34	Input	PLC / HMI	
35	Type Of Control Panel	FORM 3 B	
36	No. Of Exhaust Fan For Vfd	4	
37	Compatible With	BMS	
38	Power Supply	415 V	
39	Indicating Lamps	3 NOS. (RYB)	
	VFD TYPE		
40	Capacity For	30 HP MOTOR	
41	Communication Port	RS 485	
42	Control Power Supply	24V DC TO CIRCUIT	
43	Control	V/F CONTROL	
44	Display	LCD	
45	Enclosure Rating	UL TYPE 1	
46	Phase Rating	3 PHASE INPUT & OUTPUT	
47	In case of VFD failure the panel should be in a position to run the pump in bypass mode		
48	bypass mode should have type 2 coordination to minimize the rate current		
49	auto manual controller shall be there on the panels		
50	all auxiliaries and contactors shall be set for rated currents.		
51	provision for plug points and lights shall be there inside the panel		
52	lights shall be connected with no/nc contacts		

Yours Faithfully
Authorized Signatory, Name and Designation, Company Rubber Stamp