



Gokulam Industries LLP

Rajkot

Test Report No TR/2026/167

Page No

Tested on Date 10/07/2026

TEST REPORT FOR SUBMERSIBLE PUMPSETS

Name Plate Data

Rated Speed	2850 RPM	Sl.No.	MAHIR R.O. WATER SAMPLE AM SE220-1P V4		
Rated Current	10.000 A	Model/Type	MAHIR R.O. WATER SAMPLE AM SE220-1P SR-23009914 V4		
Rated Voltage	220 V	Motor Rating	1.5/1.1 HP/kW	No. Of Stages	20
Delivery Size	32 mm	Bore Size(mm)	100	Catagory	B
Method Of Start	Cap-Start	Rated Freq	50 Hz	Connection	CSCR
Min.Submergence	1 m	Phase	1-Phase	Head Range	56.25 to 82.5 m
----- DUTY POINT -----					
Head (Hg)	75 m	Discharge (Qg)	0.70 lps	Overall Effi. (%)	31.4 %

Table 1 (Observed Values)

Sl. No.	Gauge Distance (m)	Delivery gauge reading (m)	Flow (lps)	Volt (V)	Current (A)			Input Power (kW)	Frequency (Hz)	Obv. Speed (rpm)
					R	Y	B			
1	1.50	2.30	1.19	221	7.990	---	---	1.716	49.94	2.739
2	1.50	32.10	1.04	220	7.900	---	---	1.695	49.94	2.741
3	1.50	54.60	0.86	220	7.900	---	---	1.690	49.92	2.740
4	1.50	73.90	0.67	220	7.660	---	---	1.637	49.94	2.756
5	1.50	80.70	0.60	220	7.510	---	---	1.606	49.92	2.764
6	1.50	91.60	0.45	220	7.170	---	---	1.526	49.92	2.785
7	1.50	99.00	0.33	220	6.820	---	---	1.443	49.90	2.805
8	1.50	103.10	0.24	221	6.490	---	---	1.362	49.90	2.825
9	1.50	106.10	0.00	220	5.780	---	---	1.179	49.88	2.855

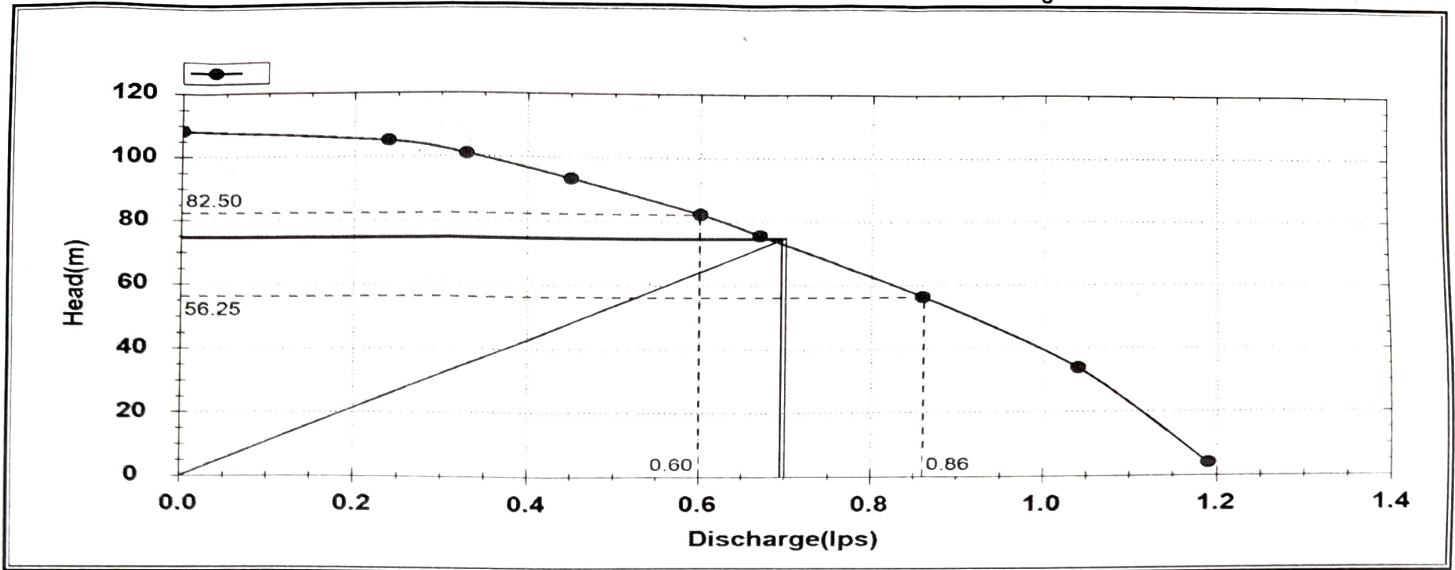
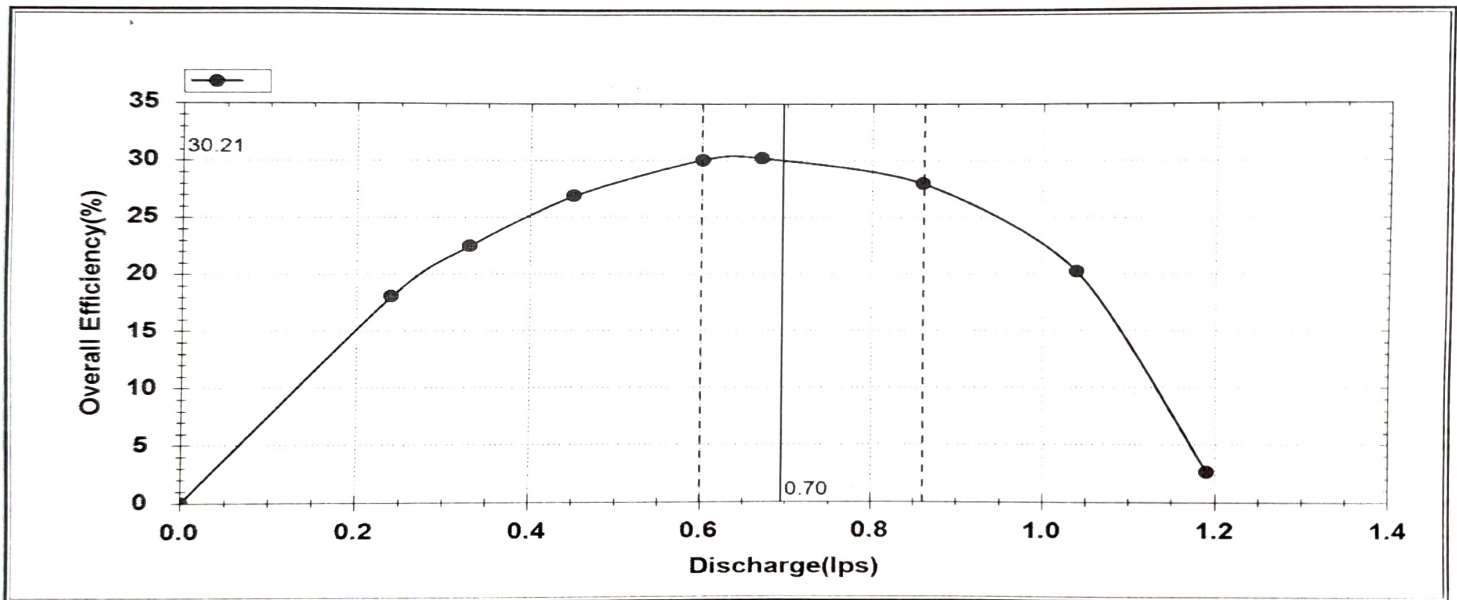
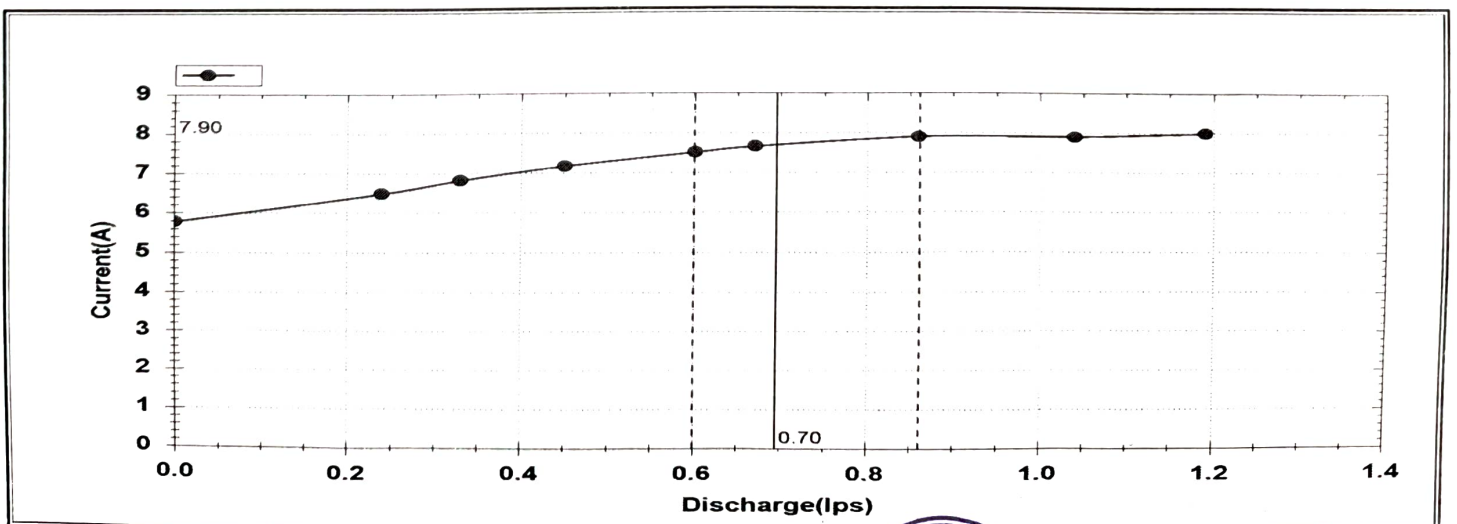
Table 2

Sl. No.	Velocity Head Corr. (m)	Total Head (m)	Flow (lps)	Current (A)	Motor Input (kW)	Performance Corrected @50 Rated Frequency			Pump Output (kW)	Overall Effi.(%)
						H (m)	Q (lps)	IP (kW)		
1	0.11	3.91	1.19	7.990	1.716	3.92	1.19	1.722	0.046	2.66
2	0.09	33.69	1.04	7.900	1.695	33.77	1.04	1.701	0.344	20.25
3	0.06	56.16	0.86	7.900	1.690	56.34	0.86	1.698	0.475	27.98
4	0.04	75.44	0.67	7.660	1.637	75.62	0.67	1.643	0.497	30.24
5	0.03	82.23	0.60	7.510	1.606	82.49	0.60	1.614	0.485	30.08
6	0.02	93.12	0.45	7.170	1.526	93.42	0.45	1.533	0.412	26.89
7	0.01	100.51	0.33	6.820	1.443	100.91	0.33	1.452	0.326	22.50
8	0.00	104.60	0.24	6.490	1.362	105.02	0.24	1.370	0.247	18.04
9	0.00	107.60	0.00	5.780	1.179	108.12	0.00	1.188	0.000	0.00

Conclusion (As Per Graph)

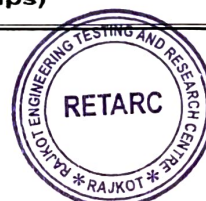
DECLARED VALUES		OBSERVED VALUES		CONCLUSION	
Discharge	0.70 lps	Discharge	0.70 lps	Conforms to H and Q Requirement.	
Overall Effi	31.4 %	Overall Effi	30.21 %	Conforms to Overall Efficiency Requirement.	
Current	10.000 A	Current	7.900 A	Conforms to Max. Current Requirement.	
Head	75 m	Head	74.49 m	$\Delta H : 2.42, \Delta Q : 0.02, \text{GuarantyFactor} : 7.54$	
Tested By		Remarks		Authorized By	





Tested By

[Signature]



Authorized By

[Signature]