

INDRA HYDRO TECH PUMPS PVT. LTD.
PUMP PERFORMANCE TEST REPORT.



TEST INFORMATION:IHP9201407111260

Pump Type:	Surface Pumps	Motor Type:	Air Cooled
Pump Sl.No:	IHPB3HD0009	Correction Head:	1.6
Number of Poles:	2 poles	Total Head (m):	36
No. Of Stages:	1	Discharge (m ³ /hr):	85
Motor Rating (kW/HP):	11/15	Model Number:	B3HD - M
Motor Sl. No:	IHPB3HD0009	Connection Type:	DOL
Voltage (V):	415	Delivery Size (mm):	100.00
Phase:	3 Phase	Outside Temp (deg):	24.00
Maximum Current (A)	11	Water Temp (deg):	21.00
Rated Speed (rpm):	2940	Suction Pipe Size (mm):	75.00
Frequency (Hz):	50 Hz	Customer Info:	IHP VALIDATIOHN TEST - IMPELLER DIA - 164MM

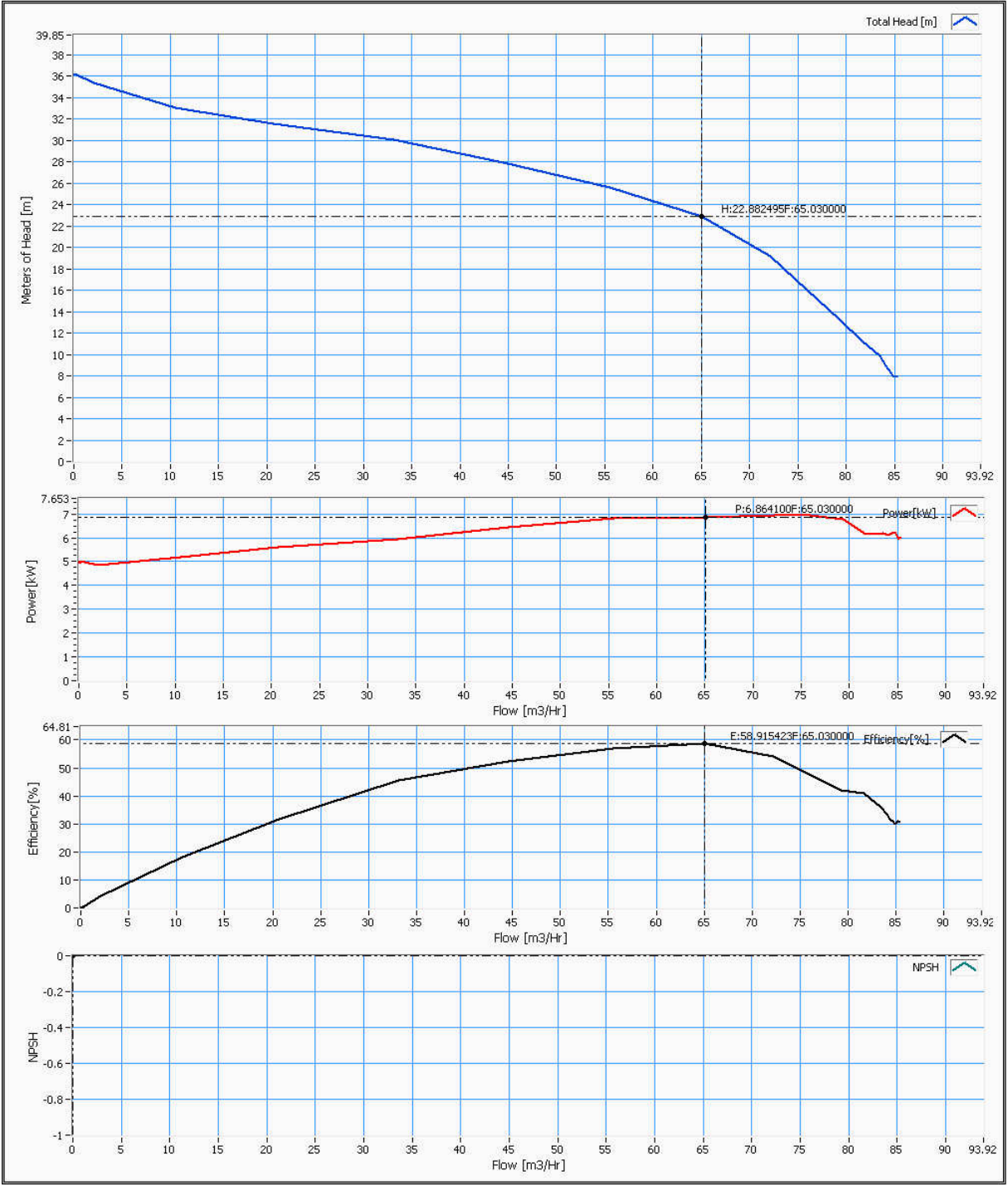
TEST RESULT

Sl NO	Suction Pressure [bar]	Static Head [m]	Total Suction Head [m]	Flow [m ³ /hr]	Delivery Pressure [bar/kg/cm ²]	V.H [m]	Correction Head [m]	Total Delivery Head [m]	Total Head [m]	Output [WHP]	Voltage [V]	Current [A]	SPEED [RPM]	Motor Input [kW]	Output/Shaft Power BHP [P2] [kW]	Power Factor	Pump Efficiency [%]	Motor Efficiency [%]
1.00	-0.24	0.90	5.07	85.38	0.08	0.47	1.60	2.89	7.96	1.85	415.90	11.51	2991.00	6.94	6.04	0.84	30.59	86.97
2.00	-0.24	0.90	5.06	85.15	0.08	0.47	1.60	2.89	7.95	1.84	414.30	11.39	2990.00	6.89	5.96	0.84	30.84	86.53
3.00	-0.24	0.90	5.06	85.17	0.08	0.47	1.60	2.89	7.95	1.84	414.30	11.17	2999.00	6.84	5.93	0.85	31.00	86.73
4.00	-0.24	0.90	5.05	84.86	0.09	0.47	1.60	2.99	8.03	1.85	415.70	11.86	2994.00	6.94	6.18	0.81	29.96	89.10
5.00	-0.24	0.90	5.04	84.65	0.12	0.47	1.60	3.29	8.33	1.92	413.20	11.54	2990.00	6.96	6.17	0.84	31.07	88.63
6.00	-0.24	0.90	5.03	84.41	0.14	0.46	1.60	3.49	8.52	1.96	414.80	11.54	2993.00	7.01	6.20	0.85	31.54	88.44
7.00	-0.24	0.90	5.02	84.07	0.18	0.46	1.60	3.90	8.92	2.04	413.40	11.64	2990.00	7.02	6.11	0.84	33.35	87.02
8.00	-0.23	0.90	4.93	83.45	0.28	0.45	1.60	4.91	9.84	2.23	416.00	11.77	2989.00	7.16	6.19	0.84	36.04	86.46
9.00	-0.23	0.90	4.87	81.67	0.43	0.43	1.60	6.42	11.29	2.51	414.00	12.04	2994.00	7.27	6.14	0.84	40.82	84.43
10.00	-0.22	0.90	4.65	79.29	0.65	0.41	1.60	8.64	13.29	2.86	415.10	12.45	2994.00	7.58	6.79	0.85	42.14	89.64
11.00	-0.21	0.90	4.47	75.93	0.94	0.37	1.60	11.56	16.03	3.31	416.60	12.55	2990.00	7.74	6.92	0.85	47.78	89.45
12.00	-0.20	0.90	4.29	72.19	1.27	0.34	1.60	14.89	19.18	3.76	414.20	12.78	2985.00	7.96	6.96	0.87	54.08	87.40
13.00	-0.18	0.90	3.88	65.03	1.68	0.28	1.60	19.01	22.88	4.04	415.80	12.99	2989.00	7.92	6.86	0.85	58.92	86.67
14.00	-0.16	0.90	3.43	55.52	2.00	0.20	1.60	22.19	25.63	3.87	414.90	12.30	2990.00	7.75	6.81	0.88	56.80	87.84
15.00	-0.13	0.90	2.92	44.53	2.28	0.13	1.60	24.98	27.90	3.38	415.70	12.20	2993.00	7.34	6.45	0.84	52.33	87.91
16.00	-0.12	0.90	2.60	33.13	2.53	0.07	1.60	27.47	30.07	2.71	414.20	11.33	2991.00	6.81	5.93	0.84	45.66	87.07
17.00	-0.11	0.90	2.32	20.67	2.71	0.03	1.60	29.26	31.59	1.77	414.30	10.61	2991.00	6.17	5.62	0.81	31.57	91.10
18.00	-0.10	0.90	2.19	10.55	2.87	0.01	1.60	30.87	33.06	0.95	415.00	10.16	2992.00	5.77	5.18	0.79	18.31	89.73
19.00	-0.10	0.90	2.17	2.10	3.10	0.00	1.60	33.21	35.38	0.20	415.80	9.67	2993.00	5.61	4.85	0.81	4.16	86.50
20.00	-0.09	0.90	2.10	0.09	3.19	0.00	1.60	34.13	36.22	0.01	414.10	9.78	2991.00	5.62	5.01	0.80	0.18	89.10
21.00	-0.09	0.90	2.10	0.11	3.18	0.00	1.60	34.03	36.12	0.01	415.10	9.78	2993.00	5.62	4.92	0.80	0.22	87.50



PERFORMANCE CURVE

Pump Type: Surface Pumps	Motor Rating (kW/HP): 11/15	Model Number: B3HD - M	Total Head (m): 36
Pump Serial Number: IHPB3HD0009	Motor Serial No.: IHPB3HD0009	Maximum Current (A): 11	Discharge (m3/hr): 85
Delivery Size (inch): 2 poles	Voltage (V): 415	Frequency (Hz): 50 Hz	Speed (rpm): 2940
Number of Stges in Pump: 1	Phase: 3 Phase	Motor Type: Air Cooled	Correction Head: 1.6



TESTED BY:

APPROVED BY:

INDRA HYDRO TECH PUMPS PVT. LTD.

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