



भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS

Address : 'Pushpak', Nurmohamed Shaikh Marg,
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Ahmedabad Branch Office

ATTACHMENT TO LICENCE NO. CM/L- 7226667

<u>CML NO</u>	<u>NAME OF THE LICENSEE WITH ADDRESS</u>	<u>PRODUCT</u>	<u>IS NO</u>
7226667	M/S. MAHAVIR SUBMERSIBLE PVT. LTD. KALIKUND KHEDA HIGHWAY, OPP. WESTERN INDIA PETROL PUMP, DHOLKA, DISTT : AHMEDABAD-387810 GUJARAT	Submersible pumpsets-	IS 8034: 2002

ENDORSEMENT NO. 14

Dated 16 OCT 2009

Renewed for a further period of one year from Seventh October Two Thousand and Nine to Sixth October Two Thousand and Ten.

Other terms and conditions of Licence remain the same.



For, Mahavir Submersibles Pvt. Ltd.

Director

Authorised Signatory

Director, BIS

बंगाली बाबू

BENGALI BABOO

निदेशक

Director

भारतीय मानक ब्यूरो

Bureau of Indian Standards

अहमदाबाद-380001

Ahmedabad-380001



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7226667	M/s. MAHAVIR SUBMERSIBLE PVT LTD. KALIKUND KHEDA HIGHWAY, OPP. WESTERN INDIA PETROL PUMP, DHOLKA, DISTT: AHMEDABAD- 387810 GUJARAT	Submersible pumpsets	IS 8034 : 2002

ENDORSEMENT NO. 15

Dated

7 APR 2010

The following additional varieties have been included in Columns (2) of the first schedule and column (1) of the Second Schedule of the Licence along with the Standard Mark in Column (1) of First Schedule with immediate effect.

One Hundred (100) models of submersible pumpsets as per attached annexure, as per IS 8034:2002

Other terms and conditions of Licence remain the same.


Director, BIS

बंगाली बाबू
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निदेशक
Director
भारतीय मानक ब्यूरो
Bureau of Indian Standards
अहमदाबाद-380001
Ahmedabad-380001

7 APR 2010

ANNEXURE TO ENDORSEMENT NO. 15 CML- 7226667
 PERFORMANCE DECLARATION OF SUBMERSIBLE PUMPSET AS PER IS 8034-02

Sr. No.	MODEL	No Of stage	SIZE		Duty Point Declaration			Op. Head Range		Motor Rating (Kw)	Rated speed (rpm)	Current Max (Amp)	Leakage Current (mA)	Winding connection	
			BORE (mm)	Deli. (mm)	Min Sub. (m)	Nomi Head (m)	Nomi. Disch. (ps)	Nomi. Overall. Effi (%)	H1 (Mtr)						H2 (Mtr)
1	6DR008AA-20	20	150mm	50mm	1.50	160.0	2.21	44.24%	176.00	120.00	7.50	2800	19.50	50	S/D
2	6DR008AA-22	22	150mm	50mm	1.50	176.0	2.21	44.24%	193.60	132.00	7.50	2800	19.50	50	S/D
3	6DR008AA-25	25	150mm	50mm	1.50	200.0	2.21	44.24%	220.00	150.00	7.50	2800	19.50	50	S/D
4	6DR010AA-20	20	150mm	50mm	1.50	154.0	2.76	46.95%	169.40	115.50	7.50	2800	19.50	50	S/D
5	6DR010AA-22	22	150mm	50mm	1.50	169.4	2.76	47.58%	186.34	127.05	9.30	2820	25.00	50	S/D
6	6DR010AA-25	25	150mm	50mm	1.50	192.5	2.76	47.58%	211.75	144.30	9.30	2820	25.00	50	S/D
7	6DR010AA-28	28	150mm	50mm	1.50	215.6	2.76	48.21%	237.16	161.70	11.00	2820	29.00	50	S/D
8	6DR010AA-30	30	150mm	50mm	1.50	231.0	2.76	48.21%	254.10	173.25	11.00	2820	29.00	50	S/D
9	6DR012AA-14	14	150mm	50mm	1.50	105.0	3.33	48.75%	115.50	78.75	7.50	2800	19.50	50	S/D
10	6DR012AA-16	16	150mm	50mm	1.50	120.0	3.33	48.75%	132.00	90.00	7.50	2800	19.50	50	S/D
11	6DR012AA-18	18	150mm	50mm	1.50	135.0	3.33	48.75%	148.50	101.25	7.50	2800	19.50	50	S/D
12	6DR012AA-20	20	150mm	50mm	1.50	150.0	3.33	49.41%	165.00	112.50	9.30	2820	25.00	50	S/D
13	6DR012AA-22	22	150mm	50mm	1.50	165.0	3.33	49.41%	181.50	123.75	9.30	2820	25.00	50	S/D
14	6DR012AA-25	25	150mm	50mm	1.50	187.5	3.33	50.07%	206.25	140.60	11.00	2820	29.00	50	S/D
15	6DR012AA-29	29	150mm	50mm	1.50	217.5	3.33	50.73%	239.25	163.00	13.00	2840	34.00	50	S/D
16	6DR015AA-12	12	150mm	50mm	1.50	102.0	4.16	50.56%	112.20	76.50	7.50	2800	19.50	50	S/D
17	6DR015AA-16	16	150mm	50mm	1.50	136.0	4.16	51.24%	149.60	102.00	9.30	2820	25.00	50	S/D
18	6DR015AA-18	18	150mm	50mm	1.50	153.0	4.16	51.92%	168.30	114.75	11.00	2820	29.00	50	S/D
19	6DR015AA-20	20	150mm	50mm	1.50	170.0	4.16	52.61%	187.00	127.50	13.00	2840	34.00	50	S/D
20	6DR015AA-22	22	150mm	50mm	1.50	187.0	4.16	52.61%	205.70	140.25	13.00	2840	34.00	50	S/D
21	6DR015AA-25	25	150mm	50mm	1.50	213.0	4.16	53.29%	234.30	159.75	15.00	2840	39.00	50	S/D
22	6DR018AA-10	10	150mm	50mm	1.50	85.0	5.00	51.46%	93.50	63.75	7.50	2800	19.50	50	S/D
23	6DR018AA-12	12	150mm	50mm	1.50	102.0	5.00	52.16%	112.20	76.50	9.30	2820	25.00	50	S/D
24	6DR018AA-15	15	150mm	50mm	1.50	127.5	5.00	52.85%	140.25	95.60	11.00	2820	29.00	50	S/D
25	6DR018AA-18	18	150mm	50mm	1.50	153.0	5.00	53.55%	168.30	114.75	13.00	2840	34.00	50	S/D
26	6DR018AA-20	20	150mm	50mm	1.50	170.0	5.00	54.24%	187.00	127.50	15.00	2840	39.00	50	S/D
27	6DM026AA-10	10	150mm	65mm	1.50	75.0	7.25	55.07%	82.50	56.25	7.50	2800	19.50	50	S/D
28	6DM026AA-12	12	150mm	65mm	1.50	90.0	7.25	55.82%	99.00	67.50	9.30	2820	25.00	50	S/D
29	6DM026AA-14	14	150mm	65mm	1.50	105.0	7.25	56.56%	115.50	78.75	11.00	2820	29.00	50	S/D
30	6DM026AA-17	17	150mm	65mm	1.50	128.0	7.25	54.58%	140.80	96.00	13.00	2840	34.00	50	S/D



BENGALI BABOO
 Director & GL, ABQ

ANNEXURE TO ENDORSEMENT NO. 15 CM/L- 7226667
PERFORMANCE DECLARATION OF SUBMERSIBLE PUMPSET AS PER IS 8034-02

7 APR 2010


Sr. No.	MODEL	No Of stage	SIZE		Min Sub. (m)	Duty Point Declaration				Op. Head Range		Motor 3phase, 415 V, 50Hz, CAT B, Wet type(water filled), Duty S1			
			BORE (mm)	Deliv. (mm)		Nomi. Head (m)	Nomi. Disch. (lps)	Nomi. Overall. Effi (%)	H1 (Mtr)	H2 (Mtr)	Motor Rating (Kw)	Rated speed (rpm)	Current Max (Amp)	Leakage Current (mA)	Winding connection
31	6DM030AA-08	8	150mm	65mm	1.50	60.0	8.00	55.97%	66.00	45.00	7.50	2800	19.50	50	S/D
32	6DM030AA-10	10	150mm	65mm	1.50	75.0	8.00	56.73%	82.50	56.25	9.30	2820	25.00	50	S/D
33	6DM030AA-12	12	150mm	65mm	1.50	90.0	8.00	57.49%	99.00	67.50	11.00	2820	29.00	50	S/D
34	6DM030AA-14	14	150mm	65mm	1.50	105.0	8.00	58.24%	115.50	78.75	13.00	2840	34.00	50	S/D
35	6DM030AA-16	16	150mm	65mm	1.50	120.0	8.00	59.00%	132.00	90.00	15.00	2840	39.00	50	S/D
36	6DM035AA-07	7	150mm	65mm	1.50	59.5	8.50	56.88%	65.45	44.60	7.50	2800	19.50	50	S/D
37	6DM035AA-09	9	150mm	65mm	1.50	76.5	8.50	57.65%	84.15	57.30	9.30	2820	25.00	50	S/D
38	6DM035AA-10	10	150mm	65mm	1.50	85.0	8.50	55.54%	93.50	63.75	11.00	2820	29.00	50	S/D
39	6DM035AA-12	12	150mm	65mm	1.50	102.0	8.50	56.27%	112.20	76.50	13.00	2840	34.00	50	S/D
40	6DM035AA-14	14	150mm	65mm	1.50	119.0	8.50	56.02%	130.90	89.25	15.00	2840	39.00	50	S/D
41	6DM054AA-06	6	150mm	75mm	1.50	43.8	15.00	60.39%	48.18	32.85	9.30	2820	25.00	50	S/D
42	6DM054AA-07	7	150mm	75mm	1.50	51.1	15.00	61.20%	56.21	38.30	11.00	2820	29.00	50	S/D
43	6DM054AA-09	9	150mm	75mm	1.50	65.7	15.00	62.00%	72.27	49.20	13.00	2840	34.00	50	S/D
44	6DM054AA-10	10	150mm	75mm	1.50	73.0	15.00	62.81%	80.30	54.75	15.00	2840	39.00	50	S/D
45	6DM066AA-04	4	150mm	75mm	1.50	32.0	17.00	57.51%	35.20	24.00	7.50	2800	19.50	50	S/D
46	6DM066AA-05	5	150mm	75mm	1.50	40.0	17.00	57.79%	44.00	30.00	9.30	2820	25.00	50	S/D
47	6DM066AA-06	6	150mm	75mm	1.50	48.0	17.00	57.03%	52.80	36.00	11.00	2820	29.00	50	S/D
48	6DM066AA-07	7	150mm	75mm	1.50	56.0	17.00	57.26%	61.60	42.00	13.00	2840	34.00	50	S/D
49	6DM066AA-08	8	150mm	75mm	1.50	64.0	17.00	57.67%	70.40	48.00	15.00	2840	39.00	50	S/D
50	6DM075AA-03	3	150mm	100mm	1.50	22.5	20.00	61.39%	25.50	19.50	7.50	2800	19.50	50	S/D
51	6DM075AA-04	4	150mm	100mm	1.50	30.0	20.00	62.22%	33.00	22.50	9.30	2820	25.00	50	S/D
52	6DM075AA-05	5	150mm	100mm	1.50	37.5	20.00	63.05%	41.25	28.00	11.00	2820	29.00	50	S/D
53	6DM075AA-06	6	150mm	100mm	1.50	45.0	20.00	63.88%	49.50	33.75	13.00	2840	34.00	50	S/D
54	6DM075AA-07	7	150mm	100mm	1.50	52.5	20.00	64.71%	57.75	39.30	15.00	2840	39.00	50	S/D
55	8DM045AA-03	3	200mm	100mm	1.50	51.0	12.33	57.77%	56.10	38.25	9.30	2820	25.00	50	S/D
56	8DM045AA-04	4	200mm	100mm	1.50	68.0	12.33	58.52%	74.80	51.00	11.00	2820	29.00	50	S/D
57	8DM045AA-05	5	200mm	100mm	1.50	85.0	12.33	60.02%	93.50	63.75	15.00	2840	39.00	50	S/D
58	8DM057AA-02	2	200mm	100mm	1.50	34.0	15.83	58.88%	37.40	25.50	7.50	2800	19.50	50	S/D
59	8DM057AA-03	3	200mm	100mm	1.50	51.0	15.83	60.43%	56.10	38.25	11.00	2820	29.00	50	S/D
60	8DM057AA-04	4	200mm	100mm	1.50	68.0	15.83	61.98%	74.80	51.00	15.00	2840	39.00	50	S/D
61	8DM066AA-02	2	200mm	100mm	1.50	34.0	18.33	61.06%	37.40	25.50	9.30	2820	25.00	50	S/D


BENGALI BABOO
Director & G.L. ABO

ANNEXURE TO ENDORSEMENT NO 15 CM/L- 7226667
PERFORMANCE DECLARATION OF SUBMERSIBLE PUMPSET AS PER IS 8034-02

7 APR 2010

Sr. No.	MODEL	No Of stage	SIZE		Min Sub. (m)	Duty Point Declaration			Op. Head Range		Motor 3phase, 415 V, 50Hz, CAT B, Wet type(water filled), Duty S1				
			BORE (mm)	Del. (mm)		Nomi. Head (m)	Nomi. Disch. (lps)	Nomi. Overall. Effi (%)	H1 (Mtr)	H2 (Mtr)	Motor Rating (Kw)	Rated speed (rpm)	Current Max (Amp)	Leakage Current (mA)	Winding connection
62	8DM078AA-02	2	200mm	100mm	1.50	28.0	20.50	59.07%	31.00	21.00	7.50	2800	19.50	50	S/D
63	8DM078AA-03	3	200mm	100mm	1.50	42.0	20.50	60.62%	46.20	31.50	11.00	2820	29.00	50	S/D
64	8DM096AA-02	2	200mm	100mm	1.50	28.0	25.00	60.74%	31.00	25.00	9.30	2820	25.00	50	S/D
65	8DM096AA-03	3	200mm	100mm	1.50	41.0	25.00	62.32%	45.10	30.75	13.00	2840	34.00	50	S/D
66	8DM108AA-02	2	200mm	100mm	1.50	28.0	29.40	61.53%	31.00	25.00	11.00	2820	29.00	50	S/D
67	8DM108AA-03	3	200mm	100mm	1.50	41.0	29.40	63.10%	45.10	30.75	15.00	2840	39.00	50	S/D


बंगाली बाबू
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 Ahmedabad-380001

7 APR 2010

ANNEXURE TO ENDORSEMENT NO 15 CMIL - 7226667 IS 8034:2002

Sr. No	MODEL	No Of stage	SIZE		Duty Point Declaration		Op Head Range		Motor Rating (Kw)	Rated speed (rpm)	Current Max (Amp)	Leakage Current (mA)	Motor Eff (Min.) %	Min Starting Torque %	Start Capacitor Value mfd	Run Capacitor Value mfd
			BORE (mm)	Deliv (mm)	Min Sub. (m)	Nom. Head (m)	Nom. Discn. (ps)	Norml. Overall Eff (%)								
68	4GR001AA-08 SP	8	100mm	32mm	1.50	33.60	0.41	17.15%	25.20	36.96	5.00	50	38%	50%	60-80 mfd	36 mfd
69	4GR001AA-12 SP	12	100mm	32mm	1.50	50.40	0.41	18.06%	37.80	55.44	7.00	50	40%	50%	80-100 mfd	36 mfd
70	4GR001AA-16 SP	16	100mm	32mm	1.50	67.20	0.41	23.02%	73.92	50.40	8.50	50	51%	55%	100-120 mfd	45 mfd
71	4GR001AA-21 SP	21	100mm	32mm	1.50	88.20	0.41	23.02%	97.02	66.15	11.50	50	51%	60%	100-120 mfd	60mfd
72	4GR001AA-27 SP	27	100mm	32mm	1.50	113.40	0.41	25.73%	124.74	85.05	14.50	50	57%	60%	120-150 mfd	72mfd
73	4GR001EE-06 SP	6	100mm	32mm	1.50	34.20	0.44	17.15%	37.62	25.65	5.00	50	38%	50%	60-80 mfd	36 mfd
74	4GR001EE-09 SP	9	100mm	32mm	1.50	51.30	0.44	18.06%	56.43	38.40	7.00	50	40%	50%	80-100 mfd	36 mfd
75	4GR001EE-13 SP	13	100mm	32mm	1.50	74.10	0.44	23.02%	81.51	55.50	8.50	50	51%	55%	100-120 mfd	45 mfd
76	4GR001EE-19 SP	19	100mm	32mm	1.50	108.30	0.44	23.02%	119.13	81.20	11.50	50	51%	60%	100-120 mfd	60mfd
77	4GR002EE-05 SP	5	100mm	32mm	1.50	28.50	0.61	17.62%	31.50	25.50	5.00	50	38%	50%	60-80 mfd	36 mfd
78	4GR002EE-07 SP	7	100mm	32mm	1.50	40.60	0.61	18.54%	44.66	30.45	7.00	50	40%	50%	80-100 mfd	36 mfd
79	4GR002EE-10 SP	10	100mm	32mm	1.50	58.00	0.61	23.64%	63.80	43.50	8.50	50	51%	55%	100-120 mfd	45mfd
80	4GR002EE-14 SP	14	100mm	32mm	1.50	81.20	0.61	23.64%	89.32	60.90	11.50	50	51%	60%	100-120 mfd	60mfd
81	4GR002EE-19 SP	19	100mm	32mm	1.50	110.20	0.61	26.43%	121.22	82.85	14.50	50	57%	60%	120-150 mfd	72mfd
82	4GR002AA-06 SP	6	100mm	38mm	1.50	24.00	0.68	17.62%	27.00	21.00	5.00	50	38%	50%	60-80 mfd	36 mfd
83	4GR002AA-09 SP	9	100mm	38mm	1.50	36.00	0.68	18.54%	39.60	27.00	7.00	50	40%	50%	80-100 mfd	36 mfd
84	4GR002AA-12 SP	12	100mm	38mm	1.50	48.00	0.68	23.64%	52.80	36.00	8.50	50	51%	55%	100-120 mfd	45 mfd
85	4GR002AA-18 SP	18	100mm	38mm	1.50	72.00	0.68	23.64%	79.20	54.00	11.50	50	51%	60%	100-120 mfd	60mfd
86	4GR004AA-05 SP	5	100mm	38mm	1.50	20.00	1.00	20.40%	23.00	17.00	5.00	50	38%	50%	60-80 mfd	36 mfd
87	4GR004AA-07 SP	7	100mm	38mm	1.50	29.40	1.00	21.47%	32.40	26.40	7.00	50	40%	50%	80-100 mfd	36 mfd
88	4GR004AA-08 SP	8	100mm	38mm	1.50	33.60	1.00	27.38%	36.96	25.20	8.50	50	51%	55%	100-120 mfd	45mfd
89	4GR004AA-09 SP	9	100mm	38mm	1.50	37.80	1.00	27.38%	41.58	28.35	10.50	50	51%	55%	100-120 mfd	45 mfd
90	4GR004AA-10 SP	10	100mm	38mm	1.50	41.00	1.00	27.38%	45.10	30.75	11.50	50	51%	55%	100-120 mfd	45mfd
91	4GR004AA-15 SP	15	100mm	38mm	1.50	60.00	1.00	27.38%	66.00	45.00	14.50	50	51%	60%	100-120 mfd	60mfd
92	4GR004AA-19 SP	19	100mm	38mm	1.50	79.80	1.00	30.60%	87.78	59.85	17.50	50	57%	60%	120-150 mfd	72mfd
93	4GR004AA-22 SP	22	100mm	38mm	1.50	92.40	1.00	31.67%	101.64	69.30	20.00	50	59%	60%	150-200 mfd	100mfd
94	4GR011AA-07 SP	7	100mm	50mm	1.50	26.60	3.50	36.94%	29.60	19.95	14.50	50	57%	60%	120-150 mfd	72mfd
95	4GR011AA-09 SP	9	100mm	50mm	1.50	34.20	3.50	40.31%	37.62	25.65	20.00	50	59%	60%	150-200 mfd	100mfd
96	4GR011AA-10 SP	10	100mm	50mm	1.50	38.00	3.50	40.31%	41.80	28.50	20.00	50	59%	60%	150-200 mfd	100mfd
97	4GM018AA-05 SP	5	100mm	50mm	1.50	17.50	4.50	38.72%	20.50	14.50	14.50	50	57%	60%	120-150 mfd	72mfd
98	4GM018AA-06 SP	6	100mm	50mm	1.50	21.00	4.50	38.72%	24.00	18.00	14.50	50	57%	60%	120-150 mfd	72mfd
99	4GM018AA-07 SP	7	100mm	50mm	1.50	24.50	4.50	41.12%	27.50	21.50	20.00	50	58%	60%	150-200 mfd	100mfd
100	4GM018AA-08 SP	8	100mm	50mm	1.50	28.00	4.50	41.12%	31.00	25.00	20.00	50	58%	60%	150-200 mfd	100mfd

संभाली बाबू
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