



Since 1969

Unnati®
SUBMERSIBLE PUMP



The key to growth in disperse is simple

*“Together we can do it
Together we have always done it”*

कम वॉल्टेज पर
चलने वाला पंप



**U
77
99**

**PERFORMANCE VALUE
AT A GLANCE**

**PRODUCT RANGE U-77 (V3) & U-99 (V4) & UL-5/4
PER STAGE PERFORMANCE VALUE AT A GLANCE
PRICE LIST NO : 54**



Sr. No.	Pump Type	Model	Duty Point Head Per Stage	Duty Point Discharge			Head Range in Meter	Available HP Range
				LPS	LPM	M ³ /H		
1	U-77(OC/WF) SINGLE PHASE PREMIUM/KLASSIC	R3 - 5	3-Mtr	0.48	29	1.74	15 to 108	0.50 to 1.50
2		R3 - 7	3-Mtr	0.72	43	2.58	11 to 72	0.50 to 1.50
3		R3 - 10	3.5-Mtr	1.00	60	3.60	9 to 63	0.50 to 1.50
4	U-99 R/MF - SERIES (OC/WF) SINGLE PHASE PREMIUM/KLC	R - 6	4-Mtr	0.43	26	1.56	14 to 225	0.50 to 3.00
5		R - 8	4-Mtr	0.73	44	2.64	12 to 200	0.50 to 3.00
6		R - 11	4-Mtr	1.13	68	4.08	14 to 210	0.75 to 5.00
7		R - 16	4-Mtr	1.72	103	6.18	10 to 150	0.75 to 5.00
8		R - 20	4-Mtr	2.37	142	8.52	10 to 125	1.00 to 5.00
9		MF - 25	3.5-Mtr	2.52	151	9.06	11 to 88	1.50 to 5.00
10		MF - 35	4-Mtr	4.42	265	15.90	10 to 77	2.00 to 5.00
11		MF - 50	4-Mtr	4.72	283	16.98	8 to 50	2.00 to 5.00
12	U-99 (HR-SERIES) (OC / WF) SINGLE PHASE PREMIUM	HR - 7	5-Mtr	0.60	36	2.16	18 to 280	0.50 to 3.00
13		HR - 11	5-Mtr	0.90	54	3.24	21 to 238	0.75 to 4.00
14		HR - 13	5-Mtr	1.08	65	3.90	12 to 238	0.50 to 5.00
15		HR - 16	5-Mtr	1.53	92	5.52	9 to 210	0.50 to 5.00
16		HR - 20	5-Mtr	1.73	104	6.24	12 to 168	0.75 to 5.00
17	U-99 R/MF-SERIES (OC/WF) THREE PHASE PREMIUM/KLC	R - 6	4-Mtr	0.43	26	1.56	32 to 250	1.00 to 3.00
18		R - 8	4-Mtr	0.73	44	2.64	24 to 300	1.00 to 5.00
19		R - 11	4-Mtr	1.13	68	4.08	18 to 210	1.00 to 5.00
20		R - 16	4-Mtr	1.72	103	6.18	10 to 230	1.00 to 7.50
21		R - 20	4-Mtr	2.37	142	8.52	10 to 185	1.00 to 7.50
22		MF - 25	3.5-Mtr	2.52	151	9.06	7 to 132	1.00 to 7.50
23		MF - 35	4-Mtr	4.42	265	15.90	6 to 154	1.00 to 10.0
24		MF - 50	4-Mtr	4.72	283	16.98	8 to 77	2.00 to 7.50
25	U-99 (HR-SERIES) (OC / WF) THREE PHASE PREMIUM	HR - 7	5-Mtr	0.60	36	2.16	42 to 238	1.00 to 3.00
26		HR - 11	5-Mtr	0.90	54	3.24	27 to 350	1.00 to 6.00
27		HR - 13	5-Mtr	1.08	65	3.90	24 to 385	1.00 to 7.50
28		HR - 16	5-Mtr	1.53	92	5.52	18 to 308	1.00 to 6.00
29		HR - 20	5-Mtr	1.73	104	6.24	15 to 238	1.00 to 7.50

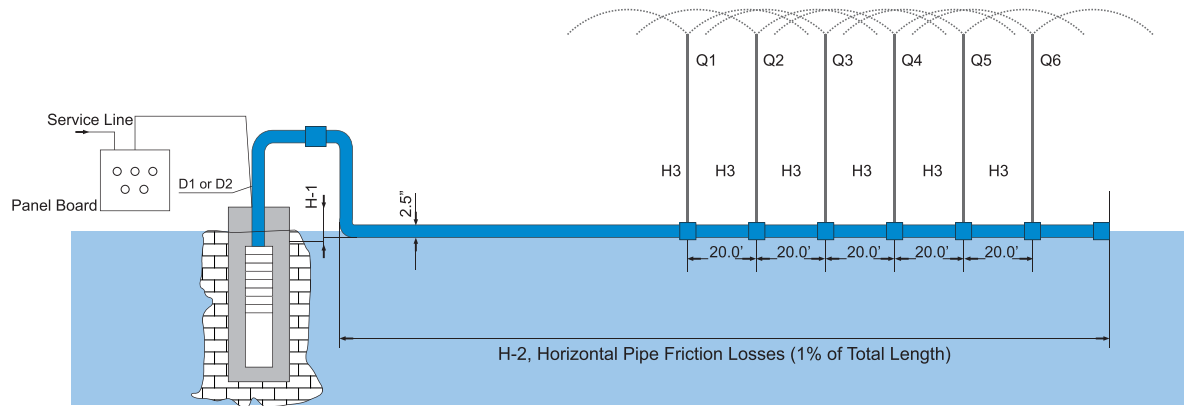
*Above 7.5 HP to 10.0 HP and above 60 Stage to 90 Stage in V4 is available on special requirement.

**PRODUCT RANGE U-77 (V3) & U-99 (V4) & UL-5/4
PER STAGE PERFORMANCE VALUE AT A GLANCE
PRICE LIST NO : 54**



Sr. No.	Pump Type	Model	Duty Point Head Per Stage	Duty Point Discharge			Head Range in Meter	Available HP Range
				LPS	LPM	M ³ /H		
30	V-5/4 R/MF - SERIES WF SINGLE PHASE PREMIUM	R - 11	4-Mtr	1.13	68	4.08	78 to 210	5.00
31		R - 16	4-Mtr	1.72	103	6.18	60 to 150	5.00
32		R - 20	4-Mtr	2.37	142	8.52	50 to 125	5.00
33		MF - 25	3.5-Mtr	2.52	151	9.06	35 to 88	5.00
34		MF - 35	4-Mtr	4.42	265	15.90	24 to 77	5.00
35		MF - 50	4-Mtr	4.72	283	16.98	16 to 50	5.00
36	V-5 / 4 HR-SERIES WF SINGLE PHASE PREMIUM	HR - 13	5-Mtr	1.08	65	3.90	96 to 238	5.00
37		HR - 16	5-Mtr	1.53	92	5.52	81 to 210	5.00
38		HR - 20	5-Mtr	1.73	104	6.24	66 to 168	5.00
39	V-5/4 R/MF - SERIES WF THREE PHASE PREMIUM	R - 8	4-Mtr	0.73	44	2.64	120 to 300	5.00
40		R - 11	4-Mtr	1.13	68	4.08	78 to 210	5.00
41		R - 16	4-Mtr	1.72	103	6.18	60 to 230	5.00 to 7.50
42		R - 20	4-Mtr	2.37	142	8.52	50 to 185	5.00 to 7.50
43		MF - 25	3.5-Mtr	2.52	151	9.06	35 to 132	5.00 to 7.50
44		MF - 35	4-Mtr	4.42	265	15.90	26 to 154	5.00 to 7.50
45		MF - 50	4-Mtr	4.72	283	16.98	8 to 70	5.00 to 7.50
46	V-5 / 4 HR-SERIES WF THREE PHASE PREMIUM	HR - 11	5-Mtr	0.90	54	3.24	126 to 350	5.00 to 6.00
47		HR - 13	5-Mtr	1.08	65	3.90	102 to 385	5.00 to 7.50
48		HR - 16	5-Mtr	1.53	92	5.52	84 to 308	5.00 to 7.50
49		HR - 20	5-Mtr	1.73	104	6.24	66 to 238	5.00 to 7.50
50	U-99 R/MF - SERIES WF PHASE TO PHASE PREMIUM/KLC	R - 11	4-Mtr	1.13	68	4.08	32 to 125	2.00 to 3.00
51		R - 16	4-Mtr	1.72	103	6.18	24 to 100	2.00 to 3.00
52		R - 20	4-Mtr	2.37	142	8.52	20 to 80	2.00 to 3.00
53		MF - 25	3.5-Mtr	2.52	151	9.06	14 to 57	2.00 to 3.00
54		MF - 35	4-Mtr	4.42	265	15.90	10 to 50	2.00 to 3.00
55		MF - 50	4-Mtr	4.72	283	16.98	8 to 39	2.00 to 3.00

*Above 7.5 HP to 10.0 HP and above 60 Stage to 90 Stage in V4 is available on special requirement.



CONVERSION FACTORS

1 Imperial Gallon	= 4.546 Litres	1 Kg / Cm ²	= 10 MWC
1 Cubic foot (CFT)	= 28.32 Litres	1 Atmosphere	= 1.033 Kg / Cm ²
1 Cusec / 28.32 lps	= 1699 Litres / Minutes	1 Foot	= 0.3048 Metre
1 Cubic - Metres (M ³) / HR	= 16.67 LPM	1 Metre	= 3.28 Feet
1 Cumec	= 60000 Litres / Minutes	1 H.P. (Metric)	= 735.5 Watts
1 LPM	= 60 LPS	1 kW	= 1000 W
		1 Kg	= 1000 Gms

HEAD CALCULATION

- H-1 = Pumping water level (in mtrs)
- H-2 = 1% friction loss (horizontal distance from bend to terminal points of pipes in mtrs)
- H-3 = 1 mtr x number of sprinklers (nozzles) to be operated
- H = Total head in mtrs (H-1 + H-2 + H-3)

DISCHARGE CALCULATION

- Q = total discharge of sprinklers (nozzles) 30 LPM x number of sprinklers (nozzles)

HYPOTHETICAL ILLUSTRATION

- H-1 = 61 mtrs (200 ft)
- H-2 = 1% x 610 mtrs (200 ft) (horizontal distance) = 6.1 mtrs
- H-3 = 1 mtr x 17 sprinklers (nozzles) = 17 mtrs
- H = Total Head in mtrs (61 + 6.1 + 17) = (84.1 mtrs)
- Q = 30 LPM x 17 sprinklers (nozzles) = (510 LPM)

Pumps has to be selected at duty point of 84 mtrs with discharge of 510 LPM.

“Unnati” performance chart shows that UL-6 15 HP SB-12/12 stage is suitable for given application.

Note: This is only guideline. Actual selection will be based upon field conditions.



- It is recommended to use correct size cable of reliable brand/make to ensure performance capability and durability of the pumpset.

CABLE SELECTION CHART FOR SINGLE PHASE MOTOR

Sr. No.	HP	TOTAL LENGTH IN MTRS																				
		10	20	30	40	50	60	70	80	90	100	120	140	160	180	200	250	300	350	400	450	500
		CABLES SIZE IN SQ. MM																				
1	0.50	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0
2	0.75	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0
3	1.00	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0
4	1.25	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0
5	1.50	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0
6	2.00	1.5	1.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0
7	3.00	1.5	1.5	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0
8	4.00	1.5	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0	16.0	16.0	16.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0	35.0
9	5.00	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	25.0	35.0	35.0	50.0	50.0	50.0

CABLE SELECTION CHART FOR THREE PHASE MOTOR

Sr. No.	HP	TOTAL LENGTH IN MTRS																				
		10	20	30	40	50	60	70	80	90	100	120	140	160	180	200	250	300	350	400	450	500
		CABLES SIZE IN SQ. MM																				
1	1.00	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5
2	1.50	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0
3	2.00	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0
4	3.00	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	6.0	4.0	4.0	6.0	6.0	6.0
5	4.00	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	4.0	4.0	6.0	6.0	6.0	6.0	10.0	10.0
6	5.00	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0
7	6.00	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0
8	7.50 SD	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0
9	7.50DOL	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0
10	10.00	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U-99 (V4) R/MF-SERIES OIL/WATER FILLED PREMIUM LP54 SINGLE PHASE



Since 1969
Unnati
SUBMERSIBLE PUMP



Outlet Size 25mm (1")							
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark		Star Rating	
				O.C.	W.F.	O.C.	W.F.
24	0.50	0.37	R-6/07	-	ISI		
25	0.50	0.37	R-6/08	-	-		
26	0.50	0.37	R-6/10	-	-		
27	0.75	0.55	R-6/12	-	ISI		

28	1.00	0.75	R-6/15	ISI	ISI		
29	1.00	0.75	R-6/16	ISI	ISI		
30	1.00	0.75	R-6/18	ISI	ISI		
31	1.50	1.10	R-6/20	ISI	ISI		

32	1.50	1.10	R-6/22	ISI	ISI		
33	1.50	1.10	R-6/25	ISI	ISI		
34	2.00	1.50	R-6/28	ISI	ISI		
35	2.00	1.50	R-6/30	ISI	ISI		

36	2.00	1.50	R-6/33	ISI	ISI		
37	3.00	2.20	R-6/35	-	ISI		
38	3.00	2.20	R-6/40	-	ISI		
39	3.00	2.20	R-6/45	-	ISI		

Outlet Size 25mm (1")							
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark		Star Rating	
				O.C.	W.F.	O.C.	W.F.
40	0.50	0.37	R-8/06	-	ISI		
41	0.50	0.37	R-8/07	-	ISI		
42	0.50	0.37	R-8/08	-	-		
43	0.75	0.55	R-8/09	-	ISI		
44	0.75	0.55	R-8/10	-	ISI		

TOTAL HEAD IN METERS	Discharge										Recom'ded Cable in Sq. mm
	M ³ /H	0.00	0.48	0.78	1.26	1.56	2.22	2.58	2.94	3.36	
	LPM	0	8	13	21	26	37	43	49	56	
37	37	35	34	31	28	21	14	7	0	1.5	
42	42	40	38	35	32	24	16	8	0	1.5	
53	53	50	48	44	40	30	20	10	0	1.5	
63	63	60	58	53	48	36	24	12	0	1.5	
79	79	75	72	66	60	45	30	15	0	1.5	
84	84	80	77	70	64	48	32	16	0	1.5	
95	95	90	86	79	72	54	36	18	0	2.5	
105	105	100	96	88	80	60	40	20	0	2.5	
116	116	110	106	97	88	66	55	22	0	2.5	
131	131	125	120	110	100	75	50	25	0	2.5	
147	147	140	134	123	112	84	56	28	0	4.0	
158	158	150	144	132	120	90	60	30	0	4.0	
173	173	165	158	145	132	99	66	33	0	4.0	
184	184	175	168	154	140	105	70	35	0	4.0	
210	210	200	192	176	160	120	80	40	0	4.0	
236	236	225	216	198	180	135	90	45	0	4.0	

TOTAL HEAD IN METERS	Discharge										Recom'ded Cable in Sq. mm
	M ³ /H	0.00	1.44	1.80	2.34	2.64	3.36	3.84	4.20	4.62	
	LPM	0	24	30	39	44	56	64	70	77	
33	33	30	29	26	24	18	12	6	0	1.5	
39	39	35	34	31	28	21	14	7	0	1.5	
44	44	40	38	35	32	24	16	8	0	1.5	
50	50	45	43	40	36	27	18	9	0	1.5	
55	55	50	48	44	40	30	20	10	0	1.5	

*Single Phase Motor of Starting Water filled - CSCR, Oil Filled - CSR

Best Working Zone

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U-99 (V4) R/MF-SERIES OIL/WATER FILLED PREMIUM LP54 SINGLE PHASE



Since 1969
Unnati
SUBMERSIBLE PUMP



Outlet Size 25mm (1")							
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark		Star Rating	
				O.C.	W.F.	O.C.	W.F.
45	1.00	0.75	R-8/12	ISI	ISI		
46	1.50	1.10	R-8/16	ISI	ISI		
47	1.50	1.10	R-8/18	ISI	ISI		
48	1.50	1.10	R-8/20	ISI	ISI		
49	2.00	1.50	R-8/22	ISI	ISI		

50	2.00	1.50	R-8/25	ISI	ISI		
51	2.00	1.50	R-8/28	ISI	ISI		
52	3.00	2.20	R-8/30	-	ISI		
53	3.00	2.20	R-8/35	-	ISI		
54	3.00	2.20	R-8/40	-	ISI		

Outlet Size 32mm (1.25")							
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark		Star Rating	
				O.C.	W.F.	O.C.	W.F.
55	0.75	0.55	R-11/07	-	ISI		
56	0.75	0.55	R-11/08	-	-		
57	1.00	0.75	R-11/08	-	-		
58	1.00	0.75	R-11/09	ISI	ISI		

59	1.00	0.75	R-11/10	ISI	ISI		
60	1.50	1.10	R-11/12	-	-		
61	1.50	1.10	R-11/13	ISI	ISI		
62	1.50	1.10	R-11/14	ISI	-		

63	1.50	1.10	R-11/15	-	-		
64	2.00	1.50	R-11/16	ISI	ISI		
65	2.00	1.50	R-11/18	ISI	ISI		
66	2.00	1.50	R-11/20	ISI	ISI		
67	2.00	1.50	R-11/22	ISI	ISI		

TOTAL HEAD IN METERS	Discharge									Recom'ded Cable in Sq. mm	
	M ³ /H	0.00	1.44	1.80	2.34	2.64	3.36	3.84	4.20		4.62
	LPM	0	24	30	39	44	56	64	70		77
66	60	58	53	48	36	24	12	0	1.5		
88	80	77	70	64	48	32	16	0	1.5		
99	90	86	79	72	54	36	18	0	2.5		
110	100	96	88	80	60	40	20	0	2.5		
121	110	106	97	88	66	44	22	0	4.0		
138	125	120	110	100	75	50	25	0	4.0		
154	140	134	123	112	84	56	28	0	4.0		
165	150	144	132	120	90	60	30	0	6.0		
193	175	168	154	140	105	70	35	0	6.0		
220	200	192	176	160	120	80	40	0	6.0		

TOTAL HEAD IN METERS	Discharge									Recom'ded Cable in Sq. mm	
	M ³ /H	0.00	2.40	2.88	3.54	4.08	5.22	5.76	6.42		6.84
	LPM	0	40	48	59	68	87	96	107		114
40	35	34	31	28	21	14	7	0	1.5		
46	40	38	35	32	24	16	8	0	1.5		
46	40	38	35	32	24	16	8	0	1.5		
52	45	43	40	36	27	18	9	0	1.5		
58	50	48	44	40	30	20	10	0	1.5		
69	60	58	53	48	36	24	12	0	2.5		
75	65	62	57	52	39	26	13	0	2.5		
81	70	67	62	56	42	28	14	0	2.5		
86	75	72	66	60	45	30	15	0	2.5		
92	80	77	70	64	48	32	16	0	2.5		
104	90	86	79	72	54	36	18	0	4.0		
115	100	96	88	80	60	40	20	0	4.0		
127	110	106	97	88	66	44	22	0	4.0		

*Single Phase Motor of Starting Water filled - CSCR, Oil Filled - CSR

Best Working Zone

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U-99 (V4) R/MF-SERIES OIL/WATER FILLED PREMIUM LP54 SINGLE PHASE



Since 1969
Unnati
SUBMERSIBLE PUMP



Outlet Size 32mm (1.25")							
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark		Star Rating	
				O.C.	W.F.	O.C.	W.F.
68	3.00	2.20	R-11/25	-	ISI		
69	3.00	2.20	R-11/26	-	ISI		
70	3.00	2.20	R-11/28	-	-		
71	4.00	3.00	R-11/30	-	-		
72	4.00	3.00	R-11/35	-	-		
73	5.00	3.70	R-11/39	-	-		
74	5.00	3.70	R-11/42	-	-		

Outlet Size 38mm (1.5")							
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark		Star Rating	
				O.C.	W.F.	O.C.	W.F.
75	0.75	0.55	R-16/05	-	ISI		
76	1.00	0.75	R-16/06	ISI	ISI		
77	0.75	0.55	R-16/07	-	-		
78	1.00	0.75	R-16/07	ISI	-		

79	1.00	0.75	R-16/08	-	-		
80	1.50	1.10	R-16/08	-	-		
81	1.00	0.75	R-16/09	-	-		
82	1.50	1.10	R-16/09	ISI	ISI		

83	1.50	1.10	R-16/10	ISI	ISI		
84	1.50	1.10	R-16/12	-	-		
85	2.00	1.50	R-16/12	ISI	ISI		
86	2.00	1.50	R-16/14	ISI	-		

87	2.00	1.50	R-16/15	-	-		
88	3.00	2.20	R-16/15	-	ISI		
89	3.00	2.20	R-16/18	-	ISI		
90	3.00	2.20	R-16/20	-	ISI		

*Single Phase Motor of Starting Water filled - CSCR, Oil Filled - CSR

TOTAL HEAD IN METERS	Discharge										Recom'ded Cable in Sq. mm
	M ³ /H	0.00	2.40	2.88	3.54	4.08	5.22	5.76	6.42	6.84	
	LPM	0	40	48	59	68	87	96	107	114	
144	125	120	110	100	75	50	25	0	6.0		
150	130	125	114	104	78	52	26	0	6.0		
161	140	134	123	112	84	56	28	0	6.0		
173	150	144	132	120	90	60	30	0	10.0		
201	175	168	154	140	105	70	35	0	10.0		
224	195	187	172	156	117	78	39	0	10.0		
242	210	202	185	168	126	84	42	0	10.0		

TOTAL HEAD IN METERS	Discharge										Recom'ded Cable in Sq. mm
	M ³ /H	0.00	3.96	4.56	5.46	6.18	7.56	8.70	9.72	10.68	
	LPM	0	66	76	91	103	126	145	162	178	
30	25	24	22	20	15	10	5	0	1.5		
36	30	29	26	24	18	12	6	0	1.5		
42	35	34	31	28	21	14	7	0	1.5		
42	35	34	31	28	21	14	7	0	1.5		
48	40	38	35	32	24	16	8	0	1.5		
48	40	38	35	32	24	16	8	0	1.5		
59	45	43	40	36	27	18	9	0	1.5		
59	45	43	40	36	27	18	9	0	1.5		
60	50	48	44	40	30	20	10	0	1.5		
72	60	58	53	48	36	24	12	0	2.5		
72	60	58	53	48	36	24	12	0	2.5		
84	70	67	62	56	42	28	14	0	2.5		
90	75	72	66	60	45	30	15	0	2.5		
90	75	72	66	60	45	30	15	0	2.5		
108	90	86	79	72	54	36	18	0	4.0		
120	100	96	88	80	60	40	20	0	4.0		

Best Working Zone

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U-99 (V4) R/MF-SERIES OIL/WATER FILLED PREMIUM LP54 SINGLE PHASE



Since 1969
Unnati
SUBMERSIBLE PUMP



Outlet Size 38mm (1.5")							
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark		Star Rating	
				O.C.	W.F.	O.C.	W.F.
91	4.00	3.00	R-16/25	-	-		
92	5.00	3.70	R-16/30	-	-		

Outlet Size 38mm (1.5")							
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark		Star Rating	
				O.C.	W.F.	O.C.	W.F.
93	1.00	0.75	R-20/05	ISI	ISI		
94	1.50	1.10	R-20/07	ISI	ISI		
95	1.50	1.10	R-20/08	ISI	-		
96	1.50	1.10	R-20/09	-	-		

97	2.00	1.50	R-20/10	ISI	ISI		
98	2.00	1.50	R-20/11	-	-		
99	2.00	1.50	R-20/12	ISI	-		
100	3.00	2.20	R-20/12	-	ISI		

101	3.00	2.20	R-20/15	-	ISI		
102	3.00	2.20	R-20/16	-	-		
103	4.00	3.00	R-20/20	-	-		
104	5.00	3.70	R-20/25	-	-		

Outlet Size 50mm (2")							
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark		Star Rating	
				O.C.	W.F.	O.C.	W.F.
105	1.50	1.10	MF-25/06	-	ISI		
106	2.00	1.50	MF-25/08	-	ISI		
107	3.00	2.20	MF-25/10	-	ISI		
108	3.00	2.20	MF-25/12	-	ISI		

109	3.00	2.20	MF-25/13	-	-		
110	4.00	3.00	MF-25/16	-	-		
111	5.00	3.70	MF-25/20	-	-		

*Single Phase Motor of Starting Water filled - CSCR, Oil Filled - CSR

TOTAL HEAD IN METERS	Discharge									Recom'ded Cable in Sq. mm	
	M ³ /H	0.00	3.96	4.56	5.46	6.18	7.56	8.70	9.72		10.68
	LPM	0	66	76	91	103	126	145	162		178
150	125	120	110	100	75	50	25	0	10.0		
180	150	144	132	120	90	60	30	0	10.0		

TOTAL HEAD IN METERS	Discharge									Recom'ded Cable in Sq. mm	
	M ³ /H	0.00	6.78	7.26	7.98	8.52	9.72	10.74	11.70		12.60
	LPM	0	113	121	133	142	162	179	195		210
33	25	24	22	20	15	10	5	0	1.5		
46	35	34	31	28	21	14	7	0	1.5		
52	40	38	35	32	24	16	8	0	1.5		
59	45	43	40	36	27	18	9	0	2.5		
65	50	48	44	40	30	20	10	0	2.5		
72	55	53	48	44	33	22	11	0	2.5		
78	60	58	53	48	36	24	12	0	2.5		
78	60	58	53	48	36	24	12	0	2.5		
98	75	72	66	60	45	30	15	0	2.5		
104	80	77	70	64	48	32	16	0	4.0		
130	100	96	88	80	60	40	20	0	10.0		
163	125	120	110	100	75	50	25	0	10.0		

TOTAL HEAD IN METERS	Discharge									Recom'ded Cable in Sq. mm	
	M ³ /H	0.00	5.52	6.00	7.68	9.06	11.22	13.32	14.34		15.78
	LPM	0	92	100	128	151	187	222	239		263
40	26	25	23	21	16	11	5	0	1.5		
54	35	34	31	28	21	14	7	0	1.5		
67	44	42	39	35	26	18	9	0	2.5		
81	53	50	46	42	32	21	11	0	2.5		
87	57	55	50	46	34	23	11	0	2.5		
107	70	67	62	56	42	28	14	0	6.0		
134	88	84	77	70	53	35	18	0	10.0		

Best Working Zone

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U-99 (V4) R/MF-SERIES OIL/WATER FILLED PREMIUM LP54 SINGLE PHASE



Since 1969

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SUBMERSIBLE PUMP

Outlet Size 65mm (2.5")							
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark		Star Rating	
				O.C.	W.F.	O.C.	W.F.
112	2.00	1.50	MF-35/05	-	ISI		
113	2.00	1.50	MF-35/06	-	ISI		
114	3.00	2.20	MF-35/07	-	ISI		
115	3.00	2.20	MF-35/08	-	ISI		

116	3.00	2.20	MF-35/09	-	ISI		
117	4.00	3.00	MF-35/10	-	-		
118	4.00	3.00	MF-35/11	-	-		

119	5.00	3.70	MF-35/12	-	-		
120	5.00	3.70	MF-35/13	-	-		
121	5.00	3.70	MF-35/14	-	-		

Outlet Size 65mm (2.5")							
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark		Star Rating	
				O.C.	W.F.	O.C.	W.F.
122	2.00	1.50	MF-50/04	-	ISI		
123	3.00	2.20	MF-50/06	-	ISI		
124	3.00	2.20	MF-50/07	-	ISI		

125	5.00	3.70	MF-50/08	-	-		
126	5.00	3.70	MF-50/09	-	-		



	Discharge									Recom'ded Cable in Sq. mm	
	M ³ /H	0.00	3.42	6.84	15.90	18.96	21.96	24.72	28.38		30.66
	LPM	0	57	114	265	316	366	412	473		511
TOTAL HEAD IN METERS	30	28	25	20	18	15	10	5	0	2.5	
	36	33	30	24	21	18	12	6	0	2.5	
	42	39	35	28	25	21	14	7	0	2.5	
	48	44	40	32	28	24	16	8	0	2.5	
	54	50	45	36	32	27	18	9	0	2.5	
	60	55	50	40	35	30	20	10	0	6.0	
	66	61	55	44	39	33	22	11	0	6.0	
	72	66	60	48	42	36	24	12	0	10.0	
	78	72	65	52	46	39	26	13	0	10.0	
	84	77	70	56	49	42	28	14	0	10.0	

	Discharge									Recom'ded Cable in Sq. mm	
	M ³ /H	0.00	4.20	8.40	16.98	20.64	24.24	27.72	31.44		32.04
	LPM	0	70	140	283	344	404	462	524		534
TOTAL HEAD IN METERS	24	22	20	16	14	12	8	4	0	2.5	
	36	33	30	24	21	18	12	6	0	2.5	
	42	39	35	28	25	21	14	7	0	2.5	
	48	44	40	32	28	24	16	8	0	6.0	
	54	50	45	36	32	27	18	9	0	6.0	

*Single Phase Motor of Starting Water filled - CSCR, Oil Filled - CSR

Best Working Zone

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U-99 (V4) HR-SERIES OIL/WATER FILLED PREMIUM LP54 SINGLE PHASE



Since 1969
Unnati
SUBMERSIBLE PUMP



Outlet Size 32mm (1.25")							
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark		Star Rating	
				O.C.	W.F.	O.C.	W.F.
127	0.50	0.37	HR-7/06		ISI		
128	0.50	0.37	HR-7/07		ISI		
129	0.50	0.37	HR-7/08		ISI		
130	0.75	0.55	HR-7/10		ISI		

131	0.75	0.55	HR-7/11		ISI		
132	1.00	0.75	HR-7/12		ISI		
133	1.00	0.75	HR-7/14		ISI		
134	1.00	0.75	HR-7/15		-		
135	1.50	1.10	HR-7/16		ISI		

136	1.50	1.10	HR-7/18		ISI		
137	1.50	1.10	HR-7/20		ISI		
138	1.50	1.10	HR-7/22		ISI		
139	2.00	1.50	HR-7/25		ISI		

140	2.00	1.50	HR-7/28		ISI		
141	2.00	1.50	HR-7/29		ISI		
142	3.00	2.20	HR-7/30		ISI		
143	3.00	2.20	HR-7/34		ISI		
144	3.00	2.20	HR-7/40		ISI		

Outlet Size 32mm (1.25")							
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark		Star Rating	
				O.C.	W.F.	O.C.	W.F.
145	0.75	0.55	HR-11/07		ISI		
146	1.00	0.75	HR-11/09		ISI		
147	1.00	0.75	HR-11/10		ISI		
148	1.50	1.10	HR-11/12		ISI		

*Single Phase Motor of Starting Water filled - CSCR, Oil Filled - CSR

		Discharge										Recom'ded Cable in Sq. mm
M ³ /H	LPM	0.00	0.30	0.72	1.44	2.16	2.58	3.06	3.48	3.78	4.08	
TOTAL HEAD IN METERS	48	42	39	36	30	24	18	12	6	0	1.5	
	56	49	46	42	35	28	21	14	7	0	1.5	
	64	56	52	48	40	32	24	16	8	0	1.5	
	80	70	65	60	50	40	30	20	10	0	1.5	
	88	77	72	66	55	44	33	22	11	0	1.5	
	96	84	78	72	60	48	36	24	12	0	1.5	
	112	98	91	84	70	56	42	28	14	0	1.5	
	120	105	98	90	75	60	45	30	15	0	2.5	
	128	112	104	96	80	64	48	32	16	0	2.5	
	144	126	117	108	90	72	54	36	18	0	2.5	
	160	140	130	120	100	80	60	40	20	0	2.5	
	176	154	143	132	110	88	66	44	22	0	4.0	
	200	175	163	150	125	100	75	50	25	0	4.0	
	224	196	182	168	140	112	84	56	28	0	6.0	
	232	203	189	174	145	116	87	58	29	0	6.0	
	240	210	195	180	150	120	90	60	30	0	6.0	
272	238	221	204	170	136	102	68	34	0	6.0		
320	280	260	240	200	160	120	80	40	0	6.0		

		Discharge										Recom'ded Cable in Sq. mm
M ³ /H	LPM	0.00	0.66	1.80	2.28	3.24	4.02	4.68	5.22	5.76	6.18	
TOTAL HEAD IN METERS	56	49	46	42	35	28	21	14	7	0	1.5	
	72	63	59	54	45	36	27	18	9	0	1.5	
	80	70	65	60	50	40	30	20	10	0	1.5	
	96	84	78	72	60	48	36	24	12	0	1.5	

Best Working Zone

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U-99 (V4) HR-SERIES OIL/WATER FILLED PREMIUM LP54 SINGLE PHASE



Since 1969
Unnati
SUBMERSIBLE PUMP



Outlet Size 32mm (1.25")							
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark		Star Rating	
				O.C.	W.F.	O.C.	W.F.
149	1.50	1.10	HR-11/13		ISI		
150	1.50	1.10	HR-11/14		ISI		
151	2.00	1.50	HR-11/16		ISI		
152	2.00	1.50	HR-11/18		ISI		

153	3.00	2.20	HR-11/20		ISI		
154	3.00	2.20	HR-11/24		ISI		
155	3.00	2.20	HR-11/26		ISI		
156	3.00	2.20	HR-11/28		-		
157	4.00	3.00	HR-11/30		-		
158	4.00	3.00	HR-11/34		-		

Outlet Size 32mm (1.25")							
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark		Star Rating	
				O.C.	W.F.	O.C.	W.F.
159	0.50	0.37	HR-13/04		ISI		
160	0.75	0.55	HR-13/06		ISI		
161	1.00	0.75	HR-13/07		ISI		
162	1.50	1.10	HR-13/10		ISI		

163	1.50	1.10	HR-13/12		ISI		
164	2.00	1.50	HR-13/15		ISI		
165	3.00	2.20	HR-13/20		ISI		
166	3.00	2.20	HR-13/22		ISI		

167	4.00	3.00	HR-13/25		-		
168	4.00	3.00	HR-13/30		-		
169	5.00	3.70	HR-13/32		-		
170	5.00	3.70	HR-13/34		-		

*Single Phase Motor of Starting Water filled - CSCR, Oil Filled - CSR

TOTAL HEAD IN METERS	Discharge										Recom'ded Cable in Sq. mm	
	M ³ /H	0.00	0.66	1.80	2.28	3.24	4.02	4.68	5.22	5.76		6.18
	LPM	0	11	30	38	54	67	78	87	96		103
104	91	85	78	65	52	39	26	13	0	2.5		
112	98	91	84	70	56	42	28	14	0	2.5		
128	112	104	96	80	64	48	32	16	0	4.0		
144	126	117	108	90	72	54	36	18	0	4.0		
160	140	130	120	100	80	60	40	20	0	4.0		
192	168	156	144	120	96	72	48	24	0	4.0		
208	182	169	156	130	104	78	52	26	0	6.0		
224	196	182	168	140	112	84	56	28	0	6.0		
240	210	195	180	150	120	90	60	30	0	6.0		
272	238	221	204	170	136	102	68	34	0	6.0		

TOTAL HEAD IN METERS	Discharge										Recom'ded Cable in Sq. mm	
	M ³ /H	0.00	1.44	2.46	2.88	3.90	4.62	5.22	5.76	6.24		6.66
	LPM	0	24	41	48	65	77	87	96	104		111
32	28	26	24	20	16	12	8	4	0	1.5		
48	42	39	36	30	24	18	12	6	0	1.5		
56	49	46	42	35	28	21	14	7	0	1.5		
80	70	65	60	50	40	30	20	10	0	1.5		
96	84	78	72	60	48	36	24	12	0	1.5		
120	105	98	90	75	60	45	30	15	0	2.5		
160	140	130	120	100	80	60	40	20	0	6.0		
176	154	143	132	110	88	66	44	22	0	6.0		
200	175	163	150	125	100	75	50	25	0	10.0		
240	210	195	180	150	120	90	60	30	0	10.0		
256	224	208	192	160	128	96	64	32	0	10.0		
272	238	221	204	170	136	102	68	34	0	10.0		

Best Working Zone

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U-99 (V4) HR-SERIES OIL/WATER FILLED PREMIUM LP54 SINGLE PHASE



Outlet Size 38mm (1.5")							
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark		Star Rating	
				O.C.	W.F.	O.C.	W.F.
171	0.50	0.37	HR-16/03		ISI		
172	0.75	0.55	HR-16/04		ISI		
173	1.00	0.75	HR-16/06		ISI		
174	1.50	1.10	HR-16/09		ISI		

175	2.00	1.50	HR-16/13		ISI		
176	3.00	2.20	HR-16/15		ISI		
177	3.00	2.20	HR-16/18		ISI		
178	4.00	3.00	HR-16/22		-		

179	4.00	3.00	HR-16/23		-		
180	4.00	3.00	HR-16/24		-		
181	4.00	3.00	HR-16/25		-		
182	5.00	3.70	HR-16/27		-		
183	5.00	3.70	HR-16/30		-		

Outlet Size 38mm (1.5")							
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark		Star Rating	
				O.C.	W.F.	O.C.	W.F.
184	0.75	0.55	HR-20/04		*		
185	1.00	0.75	HR-20/05		ISI		
186	1.50	1.10	HR-20/07		ISI		
187	2.00	1.50	HR-20/10		ISI		

188	3.00	2.20	HR-20/14		ISI		
189	4.00	3.00	HR-20/18		-		
190	4.00	3.00	HR-20/19		-		
191	5.00	3.70	HR-20/22		-		
192	5.00	3.70	HR-20/24		-		

*Single Phase Motor of Starting Water filled - CSCR, Oil Filled - CSR

TOTAL HEAD IN METERS	Discharge										Recom'ded Cable in Sq. mm	
	M ³ /H	0.00	2.28	3.24	4.38	5.52	6.42	7.26	7.98	8.52		9.18
	LPM	0	38	54	73	92	107	121	133	142		153
24	21	20	18	15	12	9	6	3	0	1.5		
32	28	26	24	20	16	12	8	4	0	1.5		
48	42	39	36	30	24	18	12	6	0	1.5		
72	63	59	54	45	36	27	18	9	0	1.5		
104	91	85	78	65	52	39	26	13	0	2.5		
120	105	98	90	75	60	45	30	15	0	4.0		
144	126	117	108	90	72	54	36	18	0	4.0		
176	154	143	132	110	88	66	44	22	0	6.0		
184	161	150	138	115	92	69	46	23	0	6.0		
192	168	156	144	120	96	72	48	24	0	6.0		
200	175	163	150	125	100	75	50	25	0	10.0		
216	189	176	162	135	108	81	54	27	0	10.0		
240	210	195	180	150	120	90	60	30	0	10.0		

TOTAL HEAD IN METERS	Discharge										Recom'ded Cable in Sq. mm	
	M ³ /H	0.00	2.76	3.60	4.92	6.24	7.08	7.92	8.58	9.24		9.78
	LPM	0	46	60	82	104	118	132	143	154		163
32	28	26	24	20	16	12	8	4	0	1.5		
40	35	33	30	25	20	15	10	5	0	1.5		
56	49	46	42	35	28	21	14	7	0	1.5		
80	70	65	60	50	40	30	20	10	0	2.5		
112	98	91	84	70	56	42	28	14	0	2.5		
144	126	117	108	90	72	54	36	18	0	4.0		
152	133	124	114	95	76	57	38	19	0	6.0		
176	154	143	132	110	88	66	44	22	0	10.0		
192	168	156	144	120	96	72	48	24	0	10.0		

Best Working Zone

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U-99 (V4) R/MF-SERIES WATER FILLED PREMIUM LP54 THREE PHASE



Outlet Size 25mm (1")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
193	1.00	0.75	R-6/16	ISI	
194	1.00	0.75	R-6/18	-	
195	1.50	1.10	R-6/20	ISI	
196	1.50	1.10	R-6/22	ISI	

197	1.50	1.10	R-6/25	ISI	
198	2.00	1.50	R-6/28	ISI	
199	2.00	1.50	R-6/30	ISI	
200	2.00	1.50	R-6/33	ISI	

201	2.00	1.50	R-6/35	-	
202	3.00	2.20	R-6/40	ISI	
203	3.00	2.20	R-6/45	ISI	
204	3.00	2.20	R-6/50	ISI	

Outlet Size 25mm (1")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
205	1.00	0.75	R-8/12	ISI	
206	1.50	1.10	R-8/18	ISI	
207	1.50	1.10	R-8/20	-	
208	2.00	1.50	R-8/25	ISI	

209	2.00	1.50	R-8/26	-	
210	2.00	1.50	R-8/28	-	
211	3.00	2.20	R-8/30	-	

212	3.00	2.20	R-8/33	-	
213	3.00	2.20	R-8/35	ISI	
214	3.00	2.20	R-8/40	-	



TOTAL HEAD IN METERS	Discharge									Method Of Starting	Recom'ded Cable in Sq. mm	
	M ³ /H	0.00	0.48	0.78	1.26	1.56	2.22	2.58	2.94			3.36
	LPM	0	8	13	21	26	37	43	49			56
84	80	77	70	64	48	32	16	0	DOL	1.5		
95	90	86	79	72	54	36	18	0	DOL	1.5		
105	100	96	88	80	60	40	20	0	DOL	1.5		
116	110	106	97	88	66	44	22	0	DOL	1.5		
131	125	120	110	100	75	50	25	0	DOL	1.5		
147	140	134	123	112	84	56	28	0	DOL	2.5		
158	150	144	132	120	90	60	30	0	DOL	2.5		
173	165	158	145	132	99	66	33	0	DOL	2.5		
184	175	168	154	140	105	70	35	0	DOL	2.5		
210	200	192	176	160	120	80	40	0	DOL	2.5		
236	225	216	198	180	135	90	45	0	DOL	4.0		
263	250	240	220	200	150	100	50	0	DOL	4.0		

TOTAL HEAD IN METERS	Discharge									Method Of Starting	Recom'ded Cable in Sq. mm	
	M ³ /H	0.00	1.44	1.80	2.34	2.64	3.36	3.84	4.26			4.62
	LPM	0	24	30	39	44	56	64	71			77
66	60	58	53	48	36	24	12	0	DOL	1.5		
99	90	86	79	72	54	36	18	0	DOL	1.5		
110	100	96	88	80	60	40	20	0	DOL	1.5		
138	125	120	110	100	75	50	25	0	DOL	1.5		
143	130	125	114	104	78	52	26	0	DOL	1.5		
154	140	134	123	112	84	56	28	0	DOL	1.5		
165	150	144	132	120	90	60	30	0	DOL	2.5		
182	165	158	145	132	99	66	33	0	DOL	2.5		
193	175	168	154	140	105	70	35	0	DOL	2.5		
220	200	192	176	160	120	80	40	0	DOL	2.5		

Best Working Zone

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U-99 (V4) R/MF-SERIES WATER FILLED PREMIUM LP54 THREE PHASE



Outlet Size 25mm (1")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
215	4.00	3.00	R-8/45	ISI	
216	4.00	3.00	R-8/50	ISI	
217	5.00	3.70	R-8/60	-	

Outlet Size 32mm (1.25")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
218	1.00	0.75	R-11/09	ISI	
219	1.00	0.75	R-11/10	-	
220	1.50	1.10	R-11/12	-	
221	1.50	1.10	R-11/13	ISI	

222	1.50	1.10	R-11/14	-	
223	2.00	1.50	R-11/16	-	
224	2.00	1.50	R-11/18	ISI	
225	2.00	1.50	R-11/20	-	

226	3.00	2.20	R-11/22	-	
227	3.00	2.20	R-11/25	-	
228	3.00	2.20	R-11/26	ISI	
229	3.00	2.20	R-11/28	-	

230	3.00	2.20	R-11/29	-	
231	4.00	3.00	R-11/30	-	
232	4.00	3.00	R-11/33	-	

233	4.00	3.00	R-11/35	ISI	
234	5.00	3.70	R-11/39	-	
235	5.00	3.70	R-11/42	ISI	



Discharge										Method Of Starting	Recom'ded Cable in Sq. mm
M ³ /H	0.0	1.44	1.80	2.34	2.64	3.36	3.84	4.26	4.62		
LPM	0	24	30	39	44	56	64	71	77		
TOTAL HEAD IN METERS	248	225	216	198	180	135	90	45	0	DOL	4.0
	275	250	240	220	200	150	100	50	0	DOL	4.0
	330	300	288	264	240	180	120	60	0	DOL	4.0

Discharge										Method Of Starting	Recom'ded Cable in Sq. mm
M ³ /H	0.00	2.40	2.88	3.54	4.08	5.22	5.76	6.42	6.84		
LPM	0	40	48	59	68	87	96	107	114		
TOTAL HEAD IN METERS	52	45	43	40	36	27	18	9	0	DOL	1.5
	58	50	48	44	40	30	20	10	0	DOL	1.5
	69	60	58	53	48	36	24	12	0	DOL	1.5
	75	65	62	57	52	39	26	13	0	DOL	1.5
	81	70	67	62	56	42	28	14	0	DOL	1.5
	92	80	77	70	64	48	32	16	0	DOL	1.5
	104	90	86	79	72	54	36	18	0	DOL	1.5
	115	100	96	88	80	60	40	20	0	DOL	1.5
	127	110	106	97	88	66	44	22	0	DOL	1.5
	144	125	120	110	100	75	50	25	0	DOL	1.5
	150	130	125	114	104	78	52	26	0	DOL	1.5
	161	140	134	123	112	84	56	28	0	DOL	2.5
	167	145	139	128	116	87	58	29	0	DOL	2.5
	173	150	144	132	120	90	60	30	0	DOL	2.5
	190	165	158	145	132	99	66	33	0	DOL	2.5
	201	175	168	154	140	105	70	35	0	DOL	2.5
	224	195	187	172	156	117	78	39	0	DOL	4.0
	242	210	202	185	168	126	84	42	0	DOL	4.0

Best Working Zone

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U-99 (V4) R/MF-SERIES WATER FILLED PREMIUM LP54 THREE PHASE



Outlet Size 38mm (1.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
236	1.00	0.75	R-16/05	ISI	
237	1.00	0.75	R-16/06	ISI	
238	1.00	0.75	R-16/07	-	
239	1.50	1.10	R-16/08	ISI	

240	1.50	1.10	R-16/09	ISI	
241	1.50	1.10	R-16/10	-	
242	2.00	1.50	R-16/12	ISI	
243	2.00	1.50	R-16/14	-	

244	3.00	2.20	R-16/15	ISI	
245	3.00	2.20	R-16/16	-	
246	3.00	2.20	R-16/18	ISI	
247	3.00	2.20	R-16/20	ISI	

248	4.00	3.00	R-16/25	ISI	
249	5.00	3.70	R-16/30	ISI	
250	6.00	4.50	R-16/35	ISI	
251	7.50	5.50	R-16/40	ISI	
252	7.50	5.50	R-16/46	ISI	

Outlet Size 38mm (1.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
253	1.00	0.75	R-20/05	ISI	
254	1.50	1.10	R-20/07	ISI	
255	2.00	1.50	R-20/10	ISI	



TOTAL HEAD IN METERS	Discharge									Method Of Starting	Recom'ded Cable in Sq. mm	
	M ³ /H	0.00	3.96	4.56	5.46	6.18	7.56	8.70	9.72			10.68
	LPM	0	66	76	91	103	126	145	162			178
30	25	24	22	20	15	10	5	0	DOL	1.5		
36	30	29	26	24	18	12	6	0	DOL	1.5		
42	35	34	31	28	21	14	7	0	DOL	1.5		
48	40	38	35	32	24	16	8	0	DOL	1.5		
59	45	43	40	36	27	18	9	0	DOL	1.5		
60	50	48	44	40	30	20	10	0	DOL	1.5		
72	60	58	53	48	36	24	12	0	DOL	1.5		
84	70	67	62	56	42	28	14	0	DOL	1.5		
90	75	72	66	60	45	30	15	0	DOL	1.5		
96	80	77	70	64	48	32	16	0	DOL	1.5		
108	90	86	79	72	54	36	18	0	DOL	1.5		
120	100	96	88	80	60	40	20	0	DOL	1.5		
150	125	120	110	100	75	50	25	0	DOL	2.5		
180	150	144	132	120	90	60	30	0	DOL	4.0		
210	175	168	154	140	105	70	35	0	DOL	4.0		
240	200	192	176	160	120	80	40	0	DOL	4.0		
276	230	221	202	184	138	92	46	0	DOL	4.0		

TOTAL HEAD IN METERS	Discharge									Method Of Starting	Recom'ded Cable in Sq. mm	
	M ³ /H	0.00	6.78	7.26	7.98	8.52	9.72	10.74	11.70			12.60
	LPM	0	113	121	133	142	162	179	195			210
33	25	24	22	20	15	10	5	0	DOL	1.5		
46	35	34	31	28	21	14	7	0	DOL	1.5		
65	50	48	44	40	30	20	10	0	DOL	1.5		

Best Working Zone

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U-99 (V4) R/MF-SERIES WATER FILLED PREMIUM LP54 THREE PHASE



Outlet Size 38mm (1.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
256	3.00	2.20	R-20/12	-	
257	3.00	2.20	R-20/15	ISI	
258	3.00	2.20	R-20/16	-	

259	4.00	3.00	R-20/20	ISI	
260	5.00	3.70	R-20/25	ISI	
261	6.00	4.50	R-20/30	ISI	
262	7.50	5.50	R-20/35	ISI	
263	7.50	5.50	R-20/37	ISI	

Outlet Size 50mm (2")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
264	1.00	0.75	MF-25/04	ISI	
265	1.50	1.10	MF-25/06	ISI	
266	2.00	1.50	MF-25/08	ISI	
267	3.00	2.20	MF-25/10	-	

268	3.00	2.20	MF-25/12	ISI	
269	3.00	2.20	MF-25/13	-	
270	4.00	3.00	MF-25/15	-	

271	4.00	3.00	MF-25/16	ISI	
272	5.00	3.70	MF-25/20	ISI	
273	7.50	5.50	MF-25/30	-	



TOTAL HEAD IN METERS	Discharge									Method Of Starting	Recom'ded Cable in Sq. mm	
	M ³ /H	0.00	6.78	7.26	7.98	8.52	9.72	10.74	11.70			12.60
	LPM	0	113	121	133	142	162	179	195			210
78		60	58	53	48	36	24	12	0	DOL	1.5	
98		75	72	66	60	45	30	15	0	DOL	1.5	
104		80	77	70	64	48	32	16	0	DOL	1.5	
130		100	96	88	80	60	40	20	0	DOL	2.5	
163		125	120	110	100	75	50	25	0	DOL	2.5	
195		150	144	132	120	90	60	30	0	DOL	2.5	
228		175	168	154	140	105	70	35	0	DOL	4.0	
241		185	178	163	148	111	74	37	0	DOL	4.0	

TOTAL HEAD IN METERS	Discharge									Method Of Starting	Recom'ded Cable in Sq. mm	
	M ³ /H	0.00	5.52	6.00	7.68	9.06	11.22	13.32	14.34			15.78
	LPM	0	92	100	128	151	187	222	239			263
27		18	17	15	14	11	7	4	0	DOL	1.5	
40		26	25	23	21	16	11	5	0	DOL	1.5	
54		35	34	31	28	21	14	7	0	DOL	1.5	
67		44	42	39	35	26	18	9	0	DOL	1.5	
80		53	50	46	42	32	21	11	0	DOL	1.5	
87		57	55	50	46	34	23	11	0	DOL	1.5	
101		66	63	58	53	39	26	13	0	DOL	1.5	
107		70	67	62	56	42	28	14	0	DOL	1.5	
134		88	84	77	70	53	35	18	0	DOL	2.5	
201		132	126	117	105	78	54	27	0	DOL	4.0	

Best Working Zone

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U-99 (V4) R/MF-SERIES WATER FILLED PREMIUM LP54 THREE PHASE



Outlet Size 65mm (2.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
274	1.00	0.75	MF-35/03	-	
275	1.50	1.10	MF-35/04	ISI	
276	2.00	1.50	MF-35/05	ISI	
277	2.00	1.50	MF-35/06	ISI	
278	3.00	2.20	MF-35/07	ISI	

279	3.00	2.20	MF-35/08	ISI	
280	3.00	2.20	MF-35/09	ISI	
281	4.00	3.00	MF-35/11	ISI	

282	5.00	3.70	MF-35/13	-	
283	5.00	3.70	MF-35/14	ISI	
284	6.00	4.50	MF-35/16	ISI	
285	6.00	4.50	MF-35/17	-	

286	7.50	5.50	MF-35/20	ISI	
287	7.50	5.50	MF-35/21	ISI	
288	10.00	7.50	MF-35/22	-	
289	10.00	7.50	MF-35/24	-	



TOTAL HEAD IN METERS	Discharge									Method Of Starting	Recom'ded Cable in Sq. mm	
	M ³ /H	0.00	3.42	6.84	15.90	18.96	21.96	24.72	28.38			30.66
	LPM	0	57	114	265	316	366	412	473			511
18	17	15	12	11	9	6	3	0	DOL	1.5		
24	22	20	16	14	12	8	4	0	DOL	1.5		
30	28	25	20	18	15	10	5	0	DOL	1.5		
36	33	30	24	21	18	12	6	0	DOL	1.5		
42	39	35	28	25	21	14	7	0	DOL	1.5		
48	44	40	32	28	24	16	8	0	DOL	1.5		
54	50	45	36	32	27	18	9	0	DOL	1.5		
66	61	55	44	39	33	22	11	0	DOL	1.5		
78	72	65	52	46	39	26	13	0	DOL	1.5		
84	77	70	56	49	42	28	14	0	DOL	1.5		
96	88	80	64	56	48	32	16	0	DOL	2.5		
102	94	85	68	60	51	34	17	0	DOL	2.5		
120	110	100	80	70	60	40	20	0	DOL	2.5		
126	116	105	84	74	63	42	21	0	DOL	2.5		
132	121	110	88	77	66	44	22	0	DOL	4.0		
144	132	120	96	84	72	48	24	0	DOL	4.0		

Best Working Zone

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U-99 (V4) R/MF-SERIES WATER FILLED PREMIUM LP54 THREE PHASE



Outlet Size 65mm (2.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
290	10.00	7.50	MF-35/25	ISI	
291	10.00	7.50	MF-35/26	-	
292	10.00	7.50	MF-35/27	-	
293	10.00	7.50	MF-35/28	ISI	

Outlet Size 65mm (2.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
294	2.00	1.50	MF-50/04	ISI	
295	3.00	2.20	MF-50/06	ISI	
296	3.00	2.20	MF-50/07	-	
297	4.00	3.00	MF-50/07	ISI	

298	5.00	3.70	MF-50/08	ISI	
299	5.00	3.70	MF-50/09	ISI	
300	5.00	3.70	MF-50/10	ISI	
301	6.00	4.50	MF-50/11	ISI	
302	7.50	5.50	MF-50/14	ISI	



Discharge										Method Of Starting	Recom'ded Cable in Sq. mm
M ³ /H	0.00	3.42	6.84	15.90	18.96	21.96	24.72	28.38	30.66		
LPM	0	57	114	265	316	366	412	473	511		
TOTAL HEAD IN METERS	150	138	125	100	88	75	50	25	0	DOL	4.0
	156	143	130	104	91	78	52	26	0	DOL	4.0
	162	149	135	108	95	81	54	27	0	DOL	4.0
	168	154	140	112	98	84	56	28	0	DOL	4.0

Discharge										Method Of Starting	Recom'ded Cable in Sq. mm
M ³ /H	0.00	4.20	8.40	16.98	20.64	24.24	27.72	31.44	32.04		
LPM	0	70	140	283	344	404	462	524	534		
TOTAL HEAD IN METERS	24	22	20	16	14	12	8	4	0	DOL	1.5
	36	33	30	24	21	18	12	6	0	DOL	1.5
	42	39	35	28	25	21	14	7	0	DOL	1.5
	42	39	35	28	25	21	14	7	0	DOL	1.5
	48	44	40	32	28	24	16	8	0	DOL	1.5
	54	50	45	36	32	27	18	9	0	DOL	1.5
	60	55	50	40	35	30	20	10	0	DOL	1.5
	66	61	55	44	39	33	22	11	0	DOL	1.5
	84	77	70	56	49	42	28	14	0	DOL	2.5

Best Working Zone

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U-99 (V4) HR-SERIES WATER FILLED PREMIUM LP54 THREE PHASE



Outlet Size 32mm (1.25")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
303	1.00	0.75	HR-7/14	ISI	
304	1.00	0.75	HR-7/15	-	
305	1.50	1.10	HR-7/18	ISI	
306	1.50	1.10	HR-7/20	ISI	

307	1.50	1.10	HR-7/21	ISI	
308	2.00	1.50	HR-7/25	ISI	
309	2.00	1.50	HR-7/28	ISI	
310	3.00	2.20	HR-7/30	ISI	
311	3.00	2.20	HR-7/34	ISI	

Outlet Size 32mm (1.25")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
312	1.00	0.75	HR-11/09	ISI	
313	1.50	1.10	HR-11/13	ISI	
314	2.00	1.50	HR-11/15	-	
315	2.00	1.50	HR-11/18	ISI	

316	3.00	2.20	HR-11/20	ISI	
317	3.00	2.20	HR-11/25	ISI	
318	3.00	2.20	HR-11/28	ISI	
319	4.00	3.00	HR-11/30	-	

320	4.00	3.00	HR-11/34	-	
321	5.00	3.70	HR-11/42	ISI	
322	6.00	4.50	HR-11/50	ISI	



TOTAL HEAD IN METERS	Discharge										Method Of Starting	Recom'd-ed Cable inSq. mm	
	M ³ /H	0.00	0.30	0.72	1.44	2.16	2.58	3.06	3.48	3.78			4.08
	LPM	0	5	12	24	36	43	51	58	63			68
112	98	91	84	70	56	42	28	14	0	DOL	1.5		
120	105	98	90	75	60	45	30	15	0	DOL	1.5		
144	126	117	108	90	72	54	36	18	0	DOL	1.5		
160	140	130	120	100	80	60	40	20	0	DOL	1.5		
168	147	137	126	105	84	63	42	21	0	DOL	1.5		
200	175	163	150	125	100	75	50	25	0	DOL	2.5		
224	196	182	168	140	112	84	56	28	0	DOL	2.5		
240	210	195	180	150	120	90	60	30	0	DOL	2.5		
272	238	221	204	170	136	102	68	34	0	DOL	4.0		

TOTAL HEAD IN METERS	Discharge										Method Of Starting	Recom'd-ed Cable inSq. mm	
	M ³ /H	0.00	0.66	1.80	2.28	3.24	4.02	4.68	5.22	5.76			6.18
	LPM	0	11	30	38	54	67	78	87	96			103
72	63	59	54	45	36	27	18	9	0	DOL	1.5		
104	91	85	78	65	52	39	26	13	0	DOL	1.5		
120	105	98	90	75	60	45	30	15	0	DOL	1.5		
144	126	117	108	90	72	54	36	18	0	DOL	1.5		
160	140	130	120	100	80	60	40	20	0	DOL	1.5		
200	175	163	150	125	100	75	50	25	0	DOL	2.5		
224	196	182	168	140	112	84	56	28	0	DOL	4.0		
240	210	195	180	150	120	90	60	30	0	DOL	4.0		
272	238	221	204	170	136	102	68	34	0	DOL	4.0		
336	294	273	252	210	168	126	84	42	0	DOL	6.0		
400	350	325	300	250	200	150	100	50	0	DOL	6.0		

Best Working Zone

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U-99 (V4) HR-SERIES WATER FILLED PREMIUM LP54 THREE PHASE



Outlet Size 32mm (1.25")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
323	1.00	0.75	HR-13/08	ISI	
324	1.50	1.10	HR-13/11	ISI	
325	2.00	1.50	HR-13/15	ISI	
326	3.00	2.20	HR-13/18	ISI	

327	3.00	2.20	HR-13/20	ISI	
328	3.00	2.20	HR-13/22	ISI	
329	3.00	2.20	HR-13/23	ISI	
330	4.00	3.00	HR-13/25	ISI	

331	4.00	3.00	HR-13/30	ISI	
332	5.00	3.70	HR-13/34	ISI	
333	6.00	4.50	HR-13/42	ISI	
334	7.50	5.50	HR-13/50	ISI	
335	7.50	5.50	HR-13/55	ISI	

Outlet Size 38mm (1.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
336	1.00	0.75	HR-16/06	ISI	
337	1.50	1.10	HR-16/09	ISI	
338	2.00	1.50	HR-16/12	ISI	
339	3.00	2.20	HR-16/15	ISI	

340	3.00	2.20	HR-16/18	ISI	
341	3.00	2.20	HR-16/20	-	
342	4.00	3.00	HR-16/22	ISI	
343	4.00	3.00	HR-16/24	ISI	

TOTAL HEAD IN METERS	Discharge										Method Of Starting	Recom'd- ed Cable inSq. mm	
	M ³ /H	0.00	1.44	2.46	2.88	3.90	4.62	5.22	5.76	6.24			6.66
	LPM	0	24	41	48	65	77	87	96	104			111
64	56	52	48	40	32	24	16	8	0	DOL	1.5		
88	77	72	66	55	44	33	22	11	0	DOL	1.5		
120	105	98	90	75	60	45	30	15	0	DOL	1.5		
144	126	117	108	90	72	54	36	18	0	DOL	1.5		
160	140	130	120	100	80	60	40	20	0	DOL	2.5		
176	154	143	132	110	88	66	44	22	0	DOL	2.5		
184	161	150	138	115	92	69	46	23	0	DOL	2.5		
200	175	163	150	125	100	75	50	25	0	DOL	2.5		
240	210	195	180	150	120	90	60	30	0	DOL	4.0		
272	238	221	204	170	136	102	68	34	0	DOL	4.0		
336	294	273	252	210	168	126	84	42	0	DOL	6.0		
400	350	325	300	250	200	150	100	50	0	DOL	6.0		
440	385	358	330	275	220	165	110	55	0	DOL	10.0		

TOTAL HEAD IN METERS	Discharge										Method Of Starting	Recom'd- ed Cable inSq. mm	
	M ³ /H	0.00	2.28	3.24	4.38	5.52	6.42	7.26	7.98	8.52			9.18
	LPM	0	38	54	73	92	107	121	133	142			153
48	42	39	36	30	24	18	12	6	0	DOL	1.5		
72	63	59	54	45	36	27	18	9	0	DOL	1.5		
96	84	78	72	60	48	36	24	12	0	DOL	1.5		
120	105	98	90	75	60	45	30	15	0	DOL	1.5		
144	126	117	108	90	72	54	36	18	0	DOL	1.5		
160	140	130	120	100	80	60	40	20	0	DOL	2.5		
176	154	143	132	110	88	66	44	22	0	DOL	2.5		
192	168	156	144	120	96	72	48	24	0	DOL	2.5		

Best Working Zone

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U-99 (V4) HR-SERIES WATER FILLED PREMIUM LP54 THREE PHASE



Outlet Size 38mm (1.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
344	5.00	3.70	HR-16/28	ISI	
345	5.00	3.70	HR-16/30	ISI	
346	6.00	4.50	HR-16/34	ISI	

347	6.00	4.50	HR-16/35	ISI	
348	7.50	5.50	HR-16/40	ISI	
349	7.50	5.50	HR-16/44	ISI	

Outlet Size 38mm (1.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
350	1.00	0.75	HR-20/05	ISI	
351	1.50	1.10	HR-20/08	ISI	
352	2.00	1.50	HR-20/10	ISI	
353	3.00	2.20	HR-20/14	ISI	

354	3.00	2.20	HR-20/15	ISI	
355	4.00	3.00	HR-20/18	ISI	
356	4.00	3.00	HR-20/20	ISI	
357	5.00	3.70	HR-20/22	ISI	
358	5.00	3.70	HR-20/24	ISI	

359	5.00	3.70	HR-20/25	ISI	
360	6.00	4.50	HR-20/28	ISI	
361	6.00	4.50	HR-20/30	-	
362	7.50	5.50	HR-20/32	ISI	
363	7.50	5.50	HR-20/34	-	



TOTAL HEAD IN METERS	Discharge										Method Of Starting	Recom'd-ed Cable inSq. mm	
	M ³ /H	0.00	2.28	3.24	4.38	5.52	6.42	7.26	7.98	8.52			9.18
	LPM	0	38	54	73	92	107	121	133	142			153
224	196	182	168	140	112	84	56	28	0	DOL	4.0		
240	210	195	180	150	120	90	60	30	0	DOL	4.0		
272	238	221	204	170	136	102	68	34	0	DOL	6.0		
280	245	228	210	175	140	105	70	35	0	DOL	6.0		
320	280	260	240	200	160	120	80	40	0	DOL	6.0		
352	308	286	264	220	176	132	88	44	0	DOL	6.0		

TOTAL HEAD IN METERS	Discharge										Method Of Starting	Recom'd-ed Cable inSq. mm	
	M ³ /H	0.00	2.76	3.60	4.92	6.24	7.08	7.92	8.58	9.24			9.78
	LPM	0	46	60	82	104	118	132	143	154			163
40	35	33	30	25	20	15	10	5	0	DOL	1.5		
64	56	52	48	40	32	24	16	8	0	DOL	1.5		
80	70	65	60	50	40	30	20	10	0	DOL	1.5		
112	98	91	84	70	56	42	28	14	0	DOL	1.5		
120	105	98	90	75	60	45	30	15	0	DOL	1.5		
144	126	117	108	90	72	54	36	18	0	DOL	2.5		
160	140	130	120	100	80	60	40	20	0	DOL	2.5		
176	154	143	132	110	88	66	44	22	0	DOL	2.5		
192	168	156	144	120	96	72	48	24	0	DOL	4.0		
200	175	163	150	125	100	75	50	25	0	DOL	4.0		
224	196	182	168	140	112	84	56	28	0	DOL	4.0		
240	210	195	180	150	120	90	60	30	0	DOL	4.0		
256	224	208	192	160	128	96	64	32	0	DOL	6.0		
272	238	221	204	170	136	102	68	34	0	DOL	6.0		

Best Working Zone

V5/4

Borewell Size	127 mm
Pump O.D.	98 mm
Motor O.D.	122 mm

V5/V4 R/MF-SERIES WATER FILLED PREMIUM LP54 SINGLE PHASE

Outlet Size 32mm (1.25")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
364	5.00	3.70	R-11/39		
365	5.00	3.70	R-11/42		

Outlet Size 38mm (1.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
366	5.00	3.70	R-16/30		

Outlet Size 38mm (1.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
367	5.00	3.70	R-20/25		



Discharge										
M ³ /H	0.00	2.40	2.88	3.54	4.08	5.22	5.76	6.42	6.84	Recom'ded Cable in Sq. mm
LPM	0	40	48	59	68	87	96	107	114	
HEAD	224	195	187	172	156	117	78	39	0	10.0
	242	210	202	185	168	126	84	42	0	10.0

Discharge										
M ³ /H	0.00	3.96	4.56	5.46	6.18	7.56	8.70	9.72	10.68	Recom'ded Cable in Sq. mm
LPM	0	66	76	91	103	126	145	162	178	
HEAD	180	150	144	132	120	90	60	30	0	10.0

Discharge										
M ³ /H	0.00	6.78	7.26	7.98	8.52	9.72	10.74	11.70	12.60	Recom'ded Cable in Sq. mm
LPM	0	113	121	133	142	162	179	195	210	
HEAD	165	125	120	110	100	75	50	25	0	10.0

*Single Phase Motor of Starting Water filled - CSCR, Oil Filled - CSR

Best Working Zone

V5/4

Borewell Size	127 mm
Pump O.D.	98 mm
Motor O.D.	122 mm



V5/V4 R/MF-SERIES WATER FILLED PREMIUM LP54 SINGLE PHASE



Outlet Size 50mm (2")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
368	5.00	3.70	MF-25/20		

Discharge										Recom'ded Cable in Sq. mm
M ³ /H	0.00	5.52	6.00	7.68	9.06	11.22	13.32	14.34	15.78	
LPM	0	92	100	128	151	187	222	239	263	
HEAD	134	88	84	77	70	53	35	18	0	10.0

Outlet Size 65mm (2.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
369	5.00	3.70	MF-35/12		
370	5.00	3.70	MF-35/13		
371	5.00	3.70	MF-35/14		

Discharge										Recom'ded Cable in Sq. mm
M ³ /H	0.00	3.42	6.84	15.90	18.96	21.96	24.72	28.38	30.66	
LPM	0	57	114	265	316	366	412	473	511	
HEAD	72	66	60	48	42	36	24	12	0	10.0
	78	72	65	52	46	39	26	13	0	10.0
	84	77	70	56	49	42	28	14	0	10.0

Outlet Size 65mm (2.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
372	5.00	3.70	MF-50/08		
373	5.00	3.70	MF-50/09		

Discharge										Recom'ded Cable in Sq. mm
M ³ /H	0.00	4.20	8.40	16.98	20.64	24.24	28.68	31.50	32.04	
LPM	0	70	140	283	344	404	478	525	534	
HEAD	48	44	40	32	28	24	16	8	0	6.0
	54	50	45	36	32	27	18	9	0	6.0

*Single Phase Motor of Starting Water filled - CSCR, Oil Filled - CSR

Best Working Zone

V5/4

Borewell Size	127 mm
Pump O.D.	98 mm
Motor O.D.	122 mm



V5/V4 HR-SERIES WATER FILLED PREMIUM LP54 SINGLE PHASE



Outlet Size 32mm (1.25")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
374	5.00	3.70	HR-13/32		
375	5.00	3.70	HR-13/34		

Outlet Size 38mm (1.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
376	5.00	3.70	HR-16/27		
377	5.00	3.70	HR-16/30		

Outlet Size 38mm (1.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
378	5.00	3.70	HR-20/22		
379	5.00	3.70	HR-20/24		

Discharge											Recom'ded Cable in Sq. mm
M ³ /H	0.00	1.44	2.46	2.88	3.90	4.62	5.22	5.76	6.24	6.66	
HEAD	0	24	41	48	65	77	87	96	104	111	10.0
HEAD	256	224	208	192	160	128	96	64	32	0	10.0
HEAD	272	238	221	204	170	136	102	68	34	0	10.0

Discharge											Recom'ded Cable in Sq. mm
M ³ /H	0.00	2.28	3.24	4.38	5.52	6.42	7.26	7.98	8.52	9.18	
LPM	0	38	54	73	92	107	121	133	142	153	10.0
HEAD	216	189	176	162	135	108	81	54	27	0	10.0
HEAD	240	210	195	180	150	120	90	60	30	0	10.0

Discharge											Recom'ded Cable in Sq. mm
M ³ /H	0.00	2.76	3.60	4.92	6.24	7.08	7.92	8.58	9.24	9.78	
LPM	0	46	60	82	104	118	132	143	154	163	10.0
HEAD	176	154	143	132	110	88	66	44	22	0	10.0
HEAD	192	168	156	144	120	96	72	48	24	0	10.0

*Single Phase Motor of Starting Water filled - CSCR, Oil Filled - CSR

Best Working Zone

V5/4

Borewell Size	127 mm
Pump O.D.	98 mm
Motor O.D.	122 mm

V5/V4 R/MF-SERIES WATER FILLED PREMIUM LP54 THREE PHASE



Outlet Size 32mm (1.25")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
380	5.00	3.70	R-8/60		

Outlet Size 32mm (1.25")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
381	5.00	3.70	R-11/39		
382	5.00	3.70	R-11/42		

Outlet Size 38mm (1.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
383	5.00	3.70	R-16/30		
384	6.00	4.50	R-16/35		
385	7.50	5.50	R-16/40		
386	7.50	5.50	R-16/46		

Outlet Size 38mm (1.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
387	5.00	3.70	R-20/25		
388	6.00	4.50	R-20/30		
389	7.50	5.50	R-20/35		
390	7.50	5.50	R-20/37		

Discharge										Method Of Starting	Recom'ded Cable in Sq. mm
M ³ /H	0.00	1.44	1.80	2.34	2.64	3.36	3.84	4.20	4.62		
LPM	0	24	30	39	44	56	64	70	77		
HEAD	330	300	288	264	240	180	120	60	0	DOL	4.0

Discharge										Method Of Starting	Recom'ded Cable in Sq. mm
M ³ /H	0.00	2.40	2.88	3.54	4.08	5.22	5.76	6.42	6.84		
LPM	0	40	48	59	68	87	96	107	114		
HEAD	224	195	187	172	156	117	78	39	0	DOL	4.0
	242	210	202	185	168	126	84	42	0	DOL	4.0

Discharge										Method Of Starting	Recom'ded Cable in Sq. mm
M ³ /H	0.00	3.96	4.56	5.46	6.18	7.56	8.70	9.72	10.68		
LPM	0	66	76	91	103	126	145	162	178		
HEAD	180	150	144	132	120	90	60	30	0	DOL	4.0
	210	175	168	154	140	105	70	35	0	DOL	4.0
	240	200	192	176	160	120	80	40	0	DOL	4.0
	276	230	221	202	184	138	92	46	0	DOL	4.0

Discharge										Method Of Starting	Recom'ded Cable in Sq. mm
M ³ /H	0.00	6.78	7.26	7.98	8.52	9.72	10.74	11.70	12.60		
LPM	0	113	121	133	142	162	179	195	210		
HEAD	163	125	120	110	100	75	50	25	0	DOL	2.5
	195	150	144	132	120	90	60	30	0	DOL	2.5
	228	175	168	154	140	105	70	35	0	DOL	4.0
	241	185	178	163	148	111	74	37	0	DOL	4.0

 Best Working Zone

V5/4

Borewell Size	127 mm
Pump O.D.	98 mm
Motor O.D.	122 mm



V5/V4 R/MF-SERIES WATER FILLED PREMIUM LP54 THREE PHASE



Outlet Size 50mm (2")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
391	5.00	3.70	MF-25/20		
392	7.50	5.50	MF-25/30		

Outlet Size 65mm (2.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
393	5.00	3.70	MF-35/13		
394	5.00	3.70	MF-35/14		
395	6.00	4.50	MF-35/16		
396	6.00	4.50	MF-35/17		
397	7.50	5.50	MF-35/20		
398	7.50	5.50	MF-35/21		
399	10.00	7.50	MF-35/22		
400	10.00	7.50	MF-35/24		
401	10.00	7.50	MF-35/25		
402	10.00	7.50	MF-35/26		
403	10.00	7.50	MF-35/27		
404	10.00	7.50	MF-35/28		

Outlet Size 65mm (2.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
405	5.00	3.70	MF-50/08		
406	5.00	3.70	MF-50/09		
407	5.00	3.70	MF-50/10		
408	6.00	4.50	MF-50/11		
409	7.50	5.50	MF-50/14		

Discharge										Method Of Starting	Recom'ded Cable in Sq. mm
M ³ /H	0.00	5.52	6.00	7.68	9.06	11.22	13.32	14.34	15.78		
LPM	0	92	100	128	151	187	222	239	263		
HEAD	134	88	84	77	70	53	35	18	0	DOL	2.5
	201	132	126	117	105	78	54	27	0	DOL	4.0

Discharge										Method Of Starting	Recom'ded Cable in Sq. mm
M ³ /H	0.00	3.42	6.84	15.90	18.96	21.96	24.72	28.38	30.66		
LPM	0	57	114	265	316	366	412	473	511		
HEAD	78	72	65	52	46	39	26	13	0	DOL	1.5
	84	77	70	56	49	42	28	14	0	DOL	1.5
	96	88	80	64	56	48	32	16	0	DOL	2.5
	102	94	85	68	60	51	34	17	0	DOL	2.5
	120	110	100	80	70	60	40	20	0	DOL	2.5
	126	116	105	84	74	63	42	21	0	DOL	2.5
	132	121	110	88	77	66	44	22	0	DOL	4.0
	144	132	120	96	84	72	48	24	0	DOL	4.0
	150	138	125	100	88	75	50	25	0	DOL	4.0
	156	143	130	104	91	78	52	26	0	DOL	4.0
	162	149	135	108	95	81	54	27	0	DOL	4.0
168	154	140	112	98	84	56	28	0	DOL	4.0	

Discharge										Method Of Starting	Recom'ded Cable in Sq. mm
M ³ /H	0.00	8.40	16.98	20.64	24.24	28.68	31.50	32.04	0.00		
LPM	0	140	283	344	404	478	525	534	0		
HEAD	48	40	32	28	24	16	8	0	0	DOL	1.5
	54	45	36	32	27	18	9	0	0	DOL	1.5
	60	50	40	35	30	20	10	0	0	DOL	1.5
	66	55	44	39	33	22	11	0	0	DOL	1.5
	84	70	56	49	42	28	14	0	0	DOL	2.5

Best Working Zone

V5/4

Borewell Size	127 mm
Pump O.D.	98 mm
Motor O.D.	122 mm

V5/V4 HR-SERIES WATER FILLED PREMIUM LP54 THREE PHASE



Outlet Size 32mm (1.25")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
410	5.00	3.70	HR-11/42		
411	6.00	4.50	HR-11/50		

Outlet Size 32mm (1.25")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
412	5.00	3.70	HR-13/34		
413	6.00	4.50	HR-13/42		
414	7.50	5.50	HR-13/50		
415	7.50	5.50	HR-13/55		



Discharge											Method Of Starting	Recom'ded Cable in Sq. mm
M ³ /H	0.00	0.66	1.80	2.28	3.24	4.02	4.68	5.22	5.76	6.18		
LPM	0	11	30	38	54	67	78	87	96	103		
HEAD	336	294	273	252	210	168	126	84	42	0	DOL	6.0
	400	350	325	300	250	200	150	100	50	0	DOL	6.0

Discharge											Method Of Starting	Recom'ded Cable in Sq. mm
M ³ /H	0.00	1.44	2.16	2.88	3.90	4.62	5.22	5.76	6.24	6.66		
LPM	0	24	36	48	65	77	87	96	104	111		
HEAD	272	238	221	204	170	136	102	68	34	0	DOL	4.0
	336	294	273	252	210	168	126	84	42	0	DOL	6.0
	400	350	325	300	250	200	150	100	50	0	DOL	10.0
	440	385	358	330	275	220	165	110	55	0	DOL	10.0

Best Working Zone

V5/4

Borewell Size	127 mm
Pump O.D.	98 mm
Motor O.D.	122 mm



V5/V4 HR-SERIES WATER FILLED PREMIUM LP54 THREE PHASE

Outlet Size 38mm (1.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
416	5.00	3.70	HR-16/28		
417	5.00	3.70	HR-16/30		
418	6.00	4.50	HR-16/34		
419	6.00	4.50	HR-16/35		
420	7.50	5.50	HR-16/40		
421	7.50	5.50	HR-16/44		

Outlet Size 38mm (1.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
422	5.00	3.70	HR-20/22		
423	5.00	3.70	HR-20/24		
424	5.00	3.70	HR-20/25		
425	6.00	4.50	HR-20/28		
426	6.00	4.50	HR-20/30		
427	7.50	5.50	HR-20/32		
428	7.50	5.50	HR-20/34		



Discharge											Method Of Starting	Recom'ded Cable in Sq. mm
M ³ /H	0.00	2.28	3.36	4.38	5.52	6.42	7.26	7.98	8.52	9.18		
LPM	0	38	56	73	92	107	121	133	142	153		
HEAD	224	196	182	168	140	112	84	56	28	0	DOL	4.0
	240	210	195	180	150	120	90	60	30	0	DOL	4.0
	272	238	221	204	170	136	102	68	34	0	DOL	6.0
	280	245	228	210	175	140	105	70	35	0	DOL	6.0
	320	280	260	240	200	160	120	80	40	0	DOL	6.0
	352	308	286	264	220	176	132	88	44	0	DOL	6.0

Discharge											Method Of Starting	Recom'ded Cable in Sq. mm
M ³ /H	0.00	2.76	3.84	4.92	6.24	7.08	7.92	8.58	9.24	9.18		
LPM	0	46	64	82	104	118	132	143	154	163		
HEAD	176	154	143	132	110	88	66	44	22	0	DOL	2.5
	192	168	156	144	120	96	72	48	24	0	DOL	4.0
	200	175	163	150	125	100	75	50	25	0	DOL	4.0
	224	196	182	168	140	112	84	56	28	0	DOL	4.0
	240	210	195	180	150	120	90	60	30	0	DOL	4.0
	256	224	208	192	160	128	96	64	32	0	DOL	6.0
272	238	221	204	170	136	102	68	34	0	DOL	6.0	

Best Working Zone

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U99 (V4) R/MF-SERIES WATER FILLED PREMIUM LP54 PHASE 2 PHASE



Outlet Size 32mm (1.25")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
429	2.00	1.50	R-11/16		
430	2.00	1.50	R-11/18		
431	2.00	1.50	R-11/20		
432	3.00	2.20	R-11/25		

Outlet Size 38mm (1.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
433	2.00	1.50	R-16/12		
434	2.00	1.50	R-16/14		
435	3.00	2.20	R-16/15		
436	3.00	2.20	R-16/16		
437	3.00	2.20	R-16/18		
438	3.00	2.20	R-16/20		

Outlet Size 38mm (1.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
439	2.00	1.50	R-20/10		
440	3.00	2.20	R-20/12		
441	3.00	2.20	R-20/15		
442	3.00	2.20	R-20/16		

Discharge										Recom'ded Cable in Sq. mm
M ³ /H	0.00	2.40	2.88	3.54	4.08	5.22	5.76	6.42	6.84	
LPM	0	40	48	59	68	87	96	107	114	
HEAD	92	80	77	70	64	48	32	16	0	2.5
	104	90	86	79	72	54	36	18	0	4.0
	115	100	96	88	80	60	40	20	0	4.0
	144	125	120	110	100	75	50	25	0	6.0

Discharge										Recom'ded Cable in Sq. mm
M ³ /H	0.00	3.96	4.56	5.46	6.18	7.56	8.70	9.72	10.68	
LPM	0	66	76	91	103	126	145	162	178	
HEAD	72	60	58	53	48	36	24	12	0	2.5
	84	70	67	62	56	42	28	14	0	2.5
	90	75	72	66	60	45	30	15	0	2.5
	96	80	77	70	64	48	32	16	0	4.0
	108	90	86	79	72	54	36	18	0	4.0
120	100	96	88	80	60	40	20	0	4.0	

Discharge										Recom'ded Cable in Sq. mm
M ³ /H	0.00	6.78	7.26	7.98	8.52	9.72	10.74	11.70	12.60	
LPM	0	113	121	133	142	162	179	195	210	
HEAD	65	50	48	44	40	30	20	10	0	2.5
	78	60	58	53	48	36	24	12	0	2.5
	98	75	72	66	60	45	30	15	0	2.5
	104	80	77	70	64	48	32	16	0	4.0

Best Working Zone

**U
99**

Borewell Size	100 mm
Pump O.D.	98 mm
Motor O.D.	98 mm

U99 (V4) R/MF-SERIES WATER FILLED PREMIUM LP54 PHASE 2 PHASE



Outlet Size 50mm (2")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
443	2.00	1.50	MF-25/08		
444	3.00	2.20	MF-25/10		
445	3.00	2.20	MF-25/12		
446	3.00	2.20	MF-25/13		

Discharge										Recom'ded Cable in Sq. mm
M ³ /H	0.00	5.52	6.00	7.68	9.06	11.22	13.32	14.34	15.78	
LPM	0	92	100	128	151	187	222	239	263	
HEAD	54	35	34	31	28	21	14	7	0	1.5
	67	44	42	39	35	26	18	9	0	2.5
	81	53	50	46	42	32	21	11	0	2.5
	87	57	55	50	46	34	23	11	0	2.5

Outlet Size 65mm (2.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
447	2.00	1.50	MF-35/05		
448	2.00	1.50	MF-35/06		
449	3.00	2.20	MF-35/07		
450	3.00	2.20	MF-35/08		
451	3.00	2.20	MF-35/09		

Discharge										Recom'ded Cable in Sq. mm
M ³ /H	0.00	3.42	6.84	15.90	18.96	21.96	24.72	28.38	30.66	
LPM	0	57	114	265	316	366	412	473	511	
HEAD	30	28	25	20	18	15	10	5	0	2.5
	36	33	30	24	21	18	12	6	0	2.5
	42	39	35	28	25	21	14	7	0	2.5
	48	44	40	32	28	24	16	8	0	2.5
	54	50	45	36	32	27	18	9	0	2.5

Outlet Size 65mm (2.5")					
Sr. No.	H.P.	Kw.	Pump Type/ Stage	ISI Mark	Star Rating
452	2.00	1.50	MF-50/04		
453	3.00	2.20	MF-50/06		
454	3.00	2.20	MF-50/07		

Discharge										Recom'ded Cable in Sq. mm
M ³ /H	0.00	4.20	8.40	16.98	20.64	24.24	27.72	31.44	32.04	
LPM	0	70	140	283	344	404	462	524	534	
HEAD	24	22	20	16	14	12	8	4	0	2.5
	36	33	30	24	21	18	12	6	0	2.5
	42	39	35	28	25	21	14	7	0	2.5

■ Best Working Zone

- Prices of model not mentioned here in will be furnished on request if found technically viable.
- Order will be accepted on receipt of advance payment.
- GST will be charge extra as applicable at the time of dispatch.
- Freight and insurance to be borne by the Buyer.
- Company has right to revise the pricelist and include /withdraw any model without prior information.
- It is recommended to select the pumpset within a highlighted working zone.
- Images, Design, MOC and Discharge Data indicated in this booklet are for general information and may differ with supplied models due to site condition and continuous upgradation.
- V3, V4 Performance Characteristic cum Price List No.54 is effective from 1st Feb., 2022 and supersedes previous pricelist & circulars.
- Customers are advised to use quality accessories, panels and cable etc. of appropriate values.
- All disputes subject to Ahmedabad jurisdiction.

CONVERSION FACTORS

1 Imperial Gallon	= 4.546 Litres	1 Kg / Cm ²	= 10 MWC
1 Cubic foot (CFT)	= 28.32 Litres	1 Atmosphere	= 1.033 Kg / Cm ²
1 Cusec / 28.32 lps	= 1699 Litres / Minutes	1 Foot	= 0.3048 Metre
1 Cubic - Metres (M ³) / HR	= 16.67 LPM	1 Metre	= 3.28 Feet
1 Cumec	= 60000 Litres / Minutes	1 H.P. (Metric)	= 735.5 Watts
1 LPM	= 60 LPS	1 KW	= 1000 W
		1 Kg	= 1000 Gms

V4(U-99) WATER FILLED - USE CAPACITOR FOR H.P. WISE PANEL LIST

SR. NO.	H.P	STARTING CAP.	RUNNING CAP.	M.C.B.	Max Current Limit At Standard Voltage Condition
1	0.50	100-120 μ fd	36 μ fd	10 Amp.	5.00 Amp.
2	0.75	100-120 μ fd	50 μ fd	10 Amp.	6.00 Amp.
3	1.00	120-150 μ fd	50 μ fd	10 Amp.	7.00 Amp.
4	1.50	120-150 μ fd	36+36 μ fd	16 Amp.	10.50 Amp.
5	2.00	200-250 μ fd	50+50 μ fd	20 Amp.	14.00 Amp.
6	3.00	200-250 μ fd	50+50 μ fd	25 Amp.	19.50 Amp.
7	4.00	200-250 μ fd	50+50 μ fd	32 Amp.	28.00 Amp.
8	5.00	200-250 μ fd	50+50+50 μ fd	32 Amp.	32.00 Amp.

V4(U-99) OIL FILLED - USE CAPACITOR FOR H.P. WISE PANEL LIST

SR. NO.	H.P	STARTING CAP.	RUNNING CAP.	M.C.B.	Max Current Limit At Standard Voltage Condition
1	0.50		36 μ fd	10 Amp.	5.00 Amp.
2	0.75		36 μ fd	10 Amp.	6.00 Amp.
3	1.00		36 μ fd	10 Amp.	6.70 Amp.
4	1.50		50 μ fd	16 Amp.	9.50 Amp.
5	2.00		50 μ fd	20 Amp.	12.50 Amp.
6	3.00		36+36 μ fd	25 Amp.	19.50 Amp.

PANEL BOARD'S RATE, TERMS & CONDITIONS:

- Discount: Nil - Not Applicable.
- Taxes & Duties : Extra as applicable to Buyer A/c.
- It is advisable to use STD. STR. CON. ACC. provided by the company for the better performance and durability.



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