

KARNATAKA POWER CORPORATION LTD

WATER CONSUMPTION: MCF/MU: DESIGN DISCHARGE/UNIT AT VARIOUS POWER HOUSES

Sl. No.	Station	No. of units X unit capacity in MW	Type of turbine	Design head (m) H	Rated turbine speed rpm	Mcf/MU (approx.)	Design discharge (approx.) (at design head)	
							Cumecs/unit = Q	Cusecs/unit
1	SGS	10 x 103.5	Vertical Pelton	443.18	300.00	33.33	28.5	1006
2	LPH	2 x 27.5	Vertical Kaplan	29.50	200.00	467	101	3567
3	NPH	3x135 + 3x150	Vertical Francis	347.00	375.00	46 46	43.5 48.33	1536 1707
4	SPH	2x50	Vertical Francis	72.00	200.00	196	77	2719
5	Varahi UGPH	2x115	Vertical Pelton	460.00	250.00	32	28.5	1006
6	Mani DPH	2x4.5	Vertical Kaplan	22.50	375.00	636	22.5	795
7	Kadra	3x50	Vertical Kaplan	32.00	142.86	446	175.5	6198
8	Kodasalli	3x40	Vertical Kaplan	37.00	166.67	391	123	4344
9	Gerusoppa	4 x 60	Vertical Francis	47.50	150.00	303	143	5050
10	Almatti	1 x 15 5 x 55	Vertical Kaplan Vertical Kaplan	24.09 26.69	187.50 115.40	600 540	71 233	2490 8242
11	Ghataprabha	2 x 16	Vertical Kaplan	32	214.30	492	62	2172
12	Bhadra LB	2 x 12 1 x 2	Vertical Kaplan Horizontal Francis	41.91 34.75	250.00 500.00	353 439	33 7	1176 244
	Bhadra RB	1 x 7.2 1 x 6	Vertical Kaplan Vertical Kaplan	17.60 17	214.00 214.30	872 841	49 44.9	1744 1586
13	SHIVA	Total: 10 Units (4x6+6x3)=42 MW	Horizontal Francis	127.71	6 MW Units 500.00 3 MW Units 375.00	126	5.95 2.97	210 105
14	MGHE	Total: 8 Units (4x13.2+4x21.6)=139.2 MW	Pelton Wheel	356.31	13.2 MW Units 428.00 26.1 MW Units 428.00	45	4.67 7.645	165 270
		Total: 2 Units (2x8.6)=17.2 MW	Horizontal Francis	181.97	500.00	90	6.09	215
15	SHIMSHA	Total 3 Units (2x9 + 1x10)=28 MW	Vertical Kaplan	19.81	9 MW Units 214.00 10 MW Unit 214.00	760	53.83	1900
16	MUNIRABAD					709	55.83	1972