

KARNATAKA POWER CORPORATION LIMITED

WATER CONSUMPTION Mcft/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	Mcft/MU (approx.)	Design discharge (approx.) (at design head)	
							Cumecs/ Unit = Q	Cusecs/ Unit
1	S G S	10 x 103.5	Vertical Pelton	443.18	300.00	33.33	28.5	1006
2	L P H	2 x 27.5	Vertical Kaplan	29.50	200.00	467	101	3567
3	N P H	1x135	Vertical Francis	347.00	375.00	46	43.5	1536
		5x150				46	48.33	1707
4	S P H	2 x 50	Vertical Francis	72.00	200.00	196	77	2719
5	Varahi UGPH	2x115 +	Vertical Pelton	460.00	250.00	32	28.5	1006
		2x115			300.00	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	4x60	Vertical Francis	47.50	150.00	303	143	5050
10	Almatti	1x15	Vertical Kaplan	24.09	187.50	600	71	2490
		5x55	Vertical Kaplan	26.69	115.40	540	233	8242
11	Ghataprabha	2x16	Vertical Kaplan	32	214.30	492	62	2172
12	Bhadra LB	2x12	Vertical Kaplan	41.91	250.00	353	33	1176
		1 x 2	Horizontal Francis	34.75	500.00	439	7	244
13	Bhadra RB	1x72	Vertical Kaplan	17.60	214.00	872	49	1744
		1x6	Vertical Kaplan	17	214.30	841	44.9	1586
14	Shiva	Total: 10 Units (4x6+6x3) =42 MW	Horizontal Francis	127.71	6 MW Unit 500.00	126	5.95	210
					3 MW Units 375.00		2.97	105
15	MGHE	Total : 8 Units (4x13.2 +4x21.6) =139.2 MW	Pelton Wheel	356.31	13.2 MW Units 428.00	45	4.67	165
					26.1 MW Units 428.00		7.645	270
16	SHIMSHA	Total: 2 Units (2x8.6) =17.2 MW	Horizontal Francis	181.97	500.00	90	6.09	215
17	MUNIRABAD	Total 3 units (2x9 + 1x10) =28 MW	Vertical Kaplan	19.81	9 MW Unit 214.00	760	53.83	1900
					10 MW Unit 214.00		709	55.83