

Generator voltages, current, line voltages and number of transmission lines

Sl no.	Station	No. of units X unit capacity in MW	Generator voltage- kV	Rated current gen.terminals Amp/unit	Line voltage kV	Rating of Gen. Tr. MVA	No. of line bays	Lines to substation
1	Thermal							
	RTPS							
	Unit-1,2,3	210 MW each	15.75	9056	220	3 phase 250MVA for each unit	220 kV = 9	3 to Lingasur
	Unit-4	210 MW	15	9511	400	3 phase 250 MVA		2 to Sadem
	Unit-5,6,7	210 MW each	15.75	9054	400	3 phase 250MVA for each unit		2 to Raichur
	Unit-8	250 MW	16.5	10291	400	3 phase 315 MVA		2 to Shapur
						2 ICT's: 220/400kV 315 MVA each		
						1 ICT(3): 500 MVA to be commissioned	400kV = 5	2 to PGCIL (Raichur)
						Reactor: 63MVA, 400kV yard, Bus-2		1 to Munirabad
								1 to BTPS
								1 to Mehaboobnagar
2	BTPS							
		1 X 500	21	16166	400	1 phase 207 MVA for each phase i.e. 3X207=621MVA	400kV = 4	1 to RTPS
		1 X 500	21	16166	400	2 phase 207 MVA for each phase i.e. 3X207=621MVA		1 to Jindal
								2 to Hiriyur
						1 ICT: 400/220kV 315MVA	220kV = 2	1 to Allipura
								1 to Lingasur
						Bus reactor: 16.67 MVA for each phase on 400kV Bus		

II	Hydel							
1	Sharavathy	10 X 103.5	11	6036	220	3 phase 115 MVA for each unit	9	4 to Shimoga
								2 to Sirsi
								2 to Talaguppa
								1 to Belligavi
2	Linganamakki	2 X 27.5	11	1600	110	3 phase 30MVA for each unit	4	2 to Shimoga (LST 3 & 4)
								2 to MGHE (JLT 3 & 4)
3	Bhadra-LB	2 X 12 + 1 X 2	11	745 / 123	66	3 phase 15 MVA for each unit + 3 phase 2.5MVA	3	2 to Shimoga (S1 & S2)
4	Bhadra-RB	1 X 7.2 + 1 X 6	11	445 / 370	66	3 phase 9 MVA + 3 phase 8 MVA		1 to Lingadahalli
5	Nagjhari	6 X 150	11	8650	220	3 phase 175 MVA for each unit	8	2 to Hubli
								2 to Kodsalli
								2 to Bidnal
								2 to Ambevadi
6	Supa	2 X 50	11	2916	110	3 phase 55 MVA for each unit	3	1 to Anmod (Goa)
								2 to Ambevadi (1 & 2)
7	Varahi UGPH	4 X 115	11	6707	220	3 phase 130 MVA for each unit	4	2 to Mangalore 2 to Shimoga
8	Mani DPH	2 X 4.5	11	262	110	3 phase 11 MVA	1	1 to SK line
9	Ghataprabha	2 X 16	11	1050	110	3 phase 20MVA / 22MVA	2	1 to Ghataprabha (out)
								1 to Belgaum (in)
10	Kadra	3 X 50	11	2915	220	3 phase 55 MVA for each unit	4	2 to Karwar
								1 to Kaiga
								1 to Kodsalli
11	Kodsalli	3 X 40	11	2333	220	3 phase 45 MVA for each unit	4	2 to NPH
								1 to Kadra
								1 to Kaiga
12	Gerusoppa	4 X 60	11	3499	220	3 phase 67 MVA for each unit	2	2 to Talguppa
13	Almatti	1 X 15	11	1050	220	3 phase 20 MVA	4	2 to Basavanabagewadi
		5 X 55		3250		3 phase 67 MVA for each unit		2 to Bagalkot