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കേരള സർക്കാർ
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KERALA STATE ELECTRICITY REGULATORY COMMISSION

NOTIFICATION

No. 2158/CT/2010/KSERC. *Dated, Thiruvananthapuram, 21st December, 2010.*

In exercise of the powers conferred under Section 181 read with sub-section (3) of Section 10 of the Electricity Act, 2003 (36 of 2003) and of all other powers enabling it in this behalf, and after previous publication, the Kerala State Electricity Regulatory Commission hereby makes the following Regulations, namely:—

1. *Short title and commencement.*—(1) These regulations may be called the Kerala State Electricity Regulatory Commission (Furnishing of Technical details by the Generating Companies) Regulations, 2010.

(2) These Regulations shall come into force from the date of their publication in the Official Gazette.

2. *Submission of Information.*—Every generating company which, on the date of commencement of these regulations is operating or setting up a generating station reffered to in clause (a) or clause (b) of sub-section (1) of Section 86 of the Electricity Act, 2003 (36 of 2003) shall furnish to the Commission, up-to-date details prescribed in the Forms A, B and C appended to these regulations, as applicable to the type of the generating station, separately for each stage of the generating station owned by it, indicating the status as on 1st April of the year, by 30th April of every year along with soft copy of the such details:

Provided that in case of a generating company proposing to set up a generating station after commencement of these regulations, the first report with the specified details shall be submitted at least three years before the projected date of commercial operation of the first unit of the generating station, proposed to be set up by it.

(Sd.)
Member (F).

(Sd.)
Chairman.

By order of the Commission,
K. S. PREMACHANDRA KURUP,
Secretary.

33/67/2011/DTP.

FORM A

TECHNICAL DETAILS TO BE FILED BY THE GENERATING COMPANIES IN COMPLIANCE OF SUB-SECTION (3) OF SECTION 10 OF THE ELECTRICITY ACT, 2003.

COAL/LIGNITE FIRED THERMAL GENERATING STATIONS

1.	Name and address of the generating company		
2.	Name of the generating station		
3.	Location (District and State) of the generating station		
4.	Type	Coal/Lignite	
5.	Installed capacity and configuration (number of units x MW) of existing/under execution project :		
	(i) Unit-I	MW	
	(ii) Unit-II	MW	
	(iii)	MW	
	(iv)	MW	
6.	Actual/expected dates of commercial operation, Unit-wise	DD/MM/YYYY	
	(i) Unit-I		
	(ii) Unit-II		
	(iii)		
	(iv)		
7.	Details of tied up beneficiaries/target beneficiaries/ merchant capacity along with percentage share with reference to the installed capacity for each beneficiary/category :		
	(i) Beneficiary-1	(%)	
	(ii) Beneficiary-2	(%)	
	(iii)	(%)	
	(iv)	(%)	
8.	Associated transmission system or proposed evacuation arrangement		

9.	Name of manufacturer :		
	(i) Steam generator		
	(ii) Steam turbine		
	(iii) Generator		
10.	Main fuel and Source :	Indigenous/imported	
	(i) Linked Mine		
	(ii) Mode of Transport	MGR/Rail/Road/Sea/Rail-cum-Sea	
11.	Gross Calorific Value (GCV) of fuel used/to be used	(Kcal./Kg.)	
12.	Secondary Fuel used/proposed to be used	LSHS/HFO/HSD/others—specify	
13.	Rated Main Steam Pressure at inlet to turbine	kg./cm² (abs.)	
14.	Rated Main SteamTemperature at inlet to turbine	Centigrade	
15.	Rated Reheat Steam Pressure at inlet to turbine	Kg./cm² (abs.)	
16.	Rated Reheat Steam Temperature at inlet to turbine	Centigrade	
17.	Range of Design Fuel specified :		
	(i) Ash	(%)	Max. Min.
	(ii) Moisture	(%)	Max. Min.
	(iii) Gross Calorific Value (GCV)	(Kcal./Kg.)	Max. Min.
	(iv) Volatile Matter (VM)	(%)	Max. Min.
18.	Guaranteed Turbine Cycle Heat Rate under reference conditions	(Kcal./kWh.)	
19.	Reference conditions for Guaranteed Turbine Cycle Heat Rate :		
	(i) Make up	(%)	
	(ii) MCR	(%)	
	(iii) Design inlet cooling water temperature	Centigrade	
20.	Guaranteed Boiler Efficiency (on GCV Basis)	(%)	

21.	Reference Fuel as specified for guaranteed Boiler efficiency :	
	(i) Ash	(%)
	(ii) Moisture	(%)
	(iii) Gross Calorific Value (GCV)	(Kcal./Kg.)
	(iv) Volatile Matter (VM)	(%)
22.	Number and Type of Boiler Feed Pumps	Steam Turbine driven/Electrical Motor driven
23.	Source of Cooling Water	
24.	Type of Cooling Cycle used	Once Through/Close Cycle
25.	Type of Cooling Tower	Natural Draft/Induced Draft

Note:—

(a)	Any other relavent information or any site specific information in respect of generating station e.g. FGD etc. may also be furnished;
(b)	"beneficiary" shall have the meaning as specified in Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2009;
(c)	"installed capacity" shall have the meaning as specified in Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2009;
(d)	"merchant capacity" means the quantum of power proposed to be sold, other than that sold through long-term power supply agreement;
(e)	"Target beneficiary" means an agency who is likely to be entering into a long-term power purchase agreement with the generating company;
(f)	A soft copy of above details (Electronic form) shall also be furnished.

FORM B

TECHNICAL DETAILS TO BE FILED BY THE GENERATING COMPANIES IN COMPLIANCE OF SUB-SECTION (3) OF SECTION 10 OF THE ELECTRICITY ACT, 2003

GAS/LIQUID/DIESEL GENERATING STATIONS

1.	Name of the generating station		
2.	Location (District and State) of the generating station		
3.	Type	Gas/Liquid fuel/Diesel	
4.	Installed capacity and configuration (number of units x MW) of existing/under execution project :	(Capcity of GT and ST to be given separately)	
	(i) GT-I	MW	
	(ii) GT-II	MW	
	(iii) ST & Block-I	MW	
	(iv)	MW	
5.	Actual/expected dates of commercial operation, Unit-wise:	DD/MM/YYYY	
	(i) GT-I		
	(ii) GT-II		
	(iii) ST & Block-I		
	(iv)		
6.	Details of tied up beneficiaries/target beneficiaries/ merchant capacity along with percentage share with reference to the installed capacity for each beneficiary/ category :		
	(i) Beneficiary-1	(%)	
	(ii) Beneficiary-2	(%)	
	(iii)	(%)	
	(iv)	(%)	
7.	Associated transmission system or proposed evacuation arrangement		

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8.	Name of manufacturer :		
	(i) Gas Turbine		
	(ii) Steam Turbine		
	(iii) Heat Recovery Steam Generator (HRSG)		
	(iv) Generator		
9.	Main Fuel and Source :	(Indigenous/imported)	
	(i) Linked Source		
	(ii) Mode of Transport	Rail/Road/Sea/Rail-cum-Sea/Pipe line	
10.	(a) Gross Calorific Value (GCV) of fuel used/ to be used	Kcal./SCM or Kcal./litre	
	(b) Net Calorific Value (NCV) of fuel used/to be used	Kcal./SCM or Kcal./litre	
11.	(i) Alternate Fuel (specify)		
	(ii) Gross Calorific Value (GCV) of alternate fuel	Kcal./SCM or Kcal./litre	
	(iii) Net Calorific Value (NCV) of alternate fuel	Kcal./SCM or Kcal./litre	
12.	Rated Gas Pressure at inlet to gas turbine	kg./cm^2 (abc)	
13.	Rated Temperature at inlet to gas turbine (tit)	Centigrade	
14.	Rated Steam Pressure at inlet to steam turbine	kg./cm^2 (abs)	
15.	Rated Steam Temperature at inlet to steam turbine	Centigrade	
16.	Source of Cooling Water		
17.	Type of Water Cooling Cycle used	Once Through/Closed Cycle	
18.	Type of Cooling Tower	Natural Draft or Induced Draft	
19.	Guaranteed Gross Station Heat Rate :		
	(i) Combined Cycle mode	(Kcal./kWh.)	
	(ii) Open Cycle mode	(Kcal./kWh.)	

20.	Reference condition for Guaranteed Gross Station Heat Rate :		
(i)	Make up	(%)	
(ii)	MCR	(%)	
(iii)	Design Inlet Cooling Water Temperature	Centigrade	
(iv)	Ambient Air Temperature	Centigrade	
(v)	Ambient Air Pressure	(kg/cm^2)	
(vi)	Relative Humidity	(%)	
21.	Specified Site Ambient Air Conditions:		
(i)	Temperature	Centigrade	
(ii)	Pressure	(kg/cm^2)	
(iii)	Humidity	(%)	

Note:

(a)	Any other relavent information or any site specific information in respect of generating station may also be furnished;
(b)	"beneficiary" shall have the meaning as specified in Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2009;
(c)	"installed capacity" shall have the meaning as specified in Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2009;
(d)	"merchant capacity" means the quantum of power proposed to be sold, other than that sold through long-term power supply agreement;
(e)	"Target beneficiary" means an agency who is likely to be entering into a long-term power purchase agreement with the generating company;
(f)	A soft copy of above details (Electronic form) shall also be furnished.

FORM C

TECHNICAL DETAILS TO BE FILED BY THE GENERATING COMPANIES IN COMPLIANCE OF SUB-SECTION (3) OF SECTION 10 OF THE ELECTRICITY ACT, 2003

HYDRO ELECTRIC GENERATING STATIONS

1.	Name and address of the generating company		
2.	Name of the generating station		
3.	Location (District and State) of the generating station		
4.	Type	Run of River/Pondage	
5.	Installed capacity and configuration (number of units x MW) of existing/under execution project :		
(i)	Unit-I	MW	
(ii)	Unit-II	MW	
(iii)	.....	MW	
(iv)	.....	MW	
6.	Actual/expected dates of commercial operation, Unit-wise:	DD/MM/YYYY	
(i)	Unit-I	MW	
(ii)	Unit-II	MW	
(iii)	.....	MW	
(iv)	.....	MW	
7.	Details of tied up beneficiaries/target beneficiaries/ merchant capacity along with percentage share with reference to the installed capacity for each beneficiary/category :		
(i)	Beneficiary-1	(%)	
(ii)	Beneficiary-2	(%)	
(iii)	.....	(%)	
(iv)	.....	(%)	
8.	Associated transmission system or proposed evacuation arrangement		

9.	Name of manufacturer:		
(i)	Turbine (Francis/Kaplan/Pelton)		
(ii)	Generator		
10.	Design Energy (MU)	(MU)	
11.	Average Head	(M)	
12.	Rated Head	(M)	
13.	Full Reservoir Level (FRL)	(M)	
14.	Minimum Draw Down Level (MDDL)	(M)	
15.	Variation in machine output at different levels between Full Reservoir Level and Minimum Draw Down Level	MW	
16.	Design Silt Levels for desilting chamber:		
(i)	Maximum at inlet	(ppm)	
(ii)	Maximum at outlet	(ppm)	
17.	Expected annual energy generation	(MU)	
18.	Design guaranteed efficiency of turbine		

Note:

(a)	Any other relavent information or any site specific information in respect of generating station may also be furnished;
(b)	"beneficiary" shall have the meaning as specified in Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2009;
(c)	"design energy" shall have the meaning as specified in Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2009;
(d)	"installed capacity" shall have the meaning as specified in Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2009;
(e)	"merchant capacity" means the quantum of power proposed to be sold, other than that sold through long-term power supply agreement;
(f)	"Target beneficiary" means an agency who is likely to be entering into a long-term power purchase agreement with the generating company;
(g)	A soft copy of above details (Electronic form) shall also be furnished.

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