

**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) of the generating station		
4	Type	Coal /Lignite	
5	Installed capacity and configuration (number of units		
(i)	Unit –I	MW	
(ii)	Unit-II	MW	
(iii)	.....	MW	
iv)	.....	MW	
6	Actual/expected dates of commercial operation, Unit-	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 Steam Temperature 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		
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 driven / Electrical 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 relevant information or any site specific information in respect of thermal generating station may also be furnished.
b	“beneficiary” shall have the meaning as specified in Madhya Pradesh Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulation, 2009.
c	“Installed capacity” shall have the meaning as specified in Madhya Pradesh Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulation, 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.

**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/storage	
5	Installed capacity and configuration (number of units)		
(i)	Unit -I	MW	
(ii)	Unit-II	MW	
(iii)	.....	MW	
iv)	.....	MW	
6	Actual/expected dates of commercial operation, Unit-	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) (in different phases)	(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 relevant information or any site specific information in respect of hydro generating station may also be furnished.
B	“beneficiary” shall have the meaning as specified in Madhya Pradesh Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulation, 2009.
C	“design energy” shall have the meaning as specified in Madhya Pradesh Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulation, 2009
d	“Installed capacity” shall have the meaning as specified in Madhya Pradesh Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulation, 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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ELECTRICITY ACT, 2003**

Renewable Sources of Energy Generating Stations (Bio-mass/Biogas/Bagasse based co-generation)

1	Name and address of the generating company		
2	Name of the generating station		
3	Location (District) of the generating station		
4	Type of renewable sources of energy	Bio-mass/Biogas/co-generation/others(specify)	
5	Installed capacity and configuration (number of units x MW) of existing/ under execution project :		
(i)	Unit -I	MW/KW	
(ii)	Unit-II	MW/KW	
(iii)	.....	MW/KW	
iv)	.....	MW/KW	
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. In case of captive use, capacity intended to be used for captive purpose may be indicated.		
(i)	Beneficiary - 1	(%)	
(ii)	Beneficiary - 2	(%)	
(iii)	.....	(%)
8	Associated transmission system or proposed evacuation arrangement		

9	Name of manufacturer:		
10	Main fuel and Source		
11	Gross Calorific Value (GCV) of fuel used/to be used	(Kcal/Kg)	
12	Secondary Fuel used/proposed to be used		
13	Rated Main Steam Pressure at inlet to turbine	kg/cm ² (abs.)	
14	Rated Main Steam Temperature at inlet to turbine	Centigrade	
15	Design auxiliary power consumption as percentage of unit rating	%	
16	Design capacity at Generator Terminal	MW/KW	
17	Range of Design fuel specified		
i)	Gross Calorific Value (GCV)	(Kcal/Kg)	Max. Min.
ii	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	Source of cooling water		
23	Type of cooling cycle used	Once Through / Close cycle	
24	Type of cooling Tower	Natural Draft / Induced Draft	

Note:

A	Any other relevant information in respect of generating station may also be furnished.
B	“beneficiary” shall have the meaning as specified in Madhya Pradesh Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulation, 2009.
c	“Installed capacity” shall have the meaning as specified in Madhya Pradesh Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulation, 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.
g	Some of the above information may not be applicable in respect of some category of generating units. Information as applicable may be provided.

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Renewable Sources of Energy Generating Stations (Generation from Wind Energy)

01	Name and address of the generating company	
02	Name of the generating station	
03	Location of the generating station and District	
04	Installed capacity and configuration (number of units x MW) of existing / under execution project	MW
i)		
ii)	.....
05	Actual/expected dates of commercial operation, Unit- wise :	DD / MM / YYYY
i)		
ii)	.....
06	Energy Utilization (Sale to utility/Captive use/Third party sale)	
07	Associated transmission system or proposed evacuation arrangement	
08	Average wind speed (m/s)	
09	Average Capacity Utilization Factor (%)	
10	Details of the wind electric generators	
i)	Name of manufacturer:	
ii)	Kw Rating	
iii)	Type of machine	Install / pitch regulated
iv)	Type of generator	(low speed/high speed)
v)	Rotor Diameter	(mtr)
vi)	Hub height	(mtr)
11	Total Actual yearly generation for the financial year as per following parameters	
i)	Installed capacity	
ii)	Total net generation exported to grid	
iii)	Capacity Utilization Factor (%)	
iv)	Average Machine availability (%)	
v)	Average Grid availability (%)	
vi)	Total Kvarh consumption as percentage of exported generation	

Note:

A	Any other relevant information in respect of generating station may also be furnished.
b	“Installed capacity” shall have the meaning as specified in Madhya Pradesh Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulation, 2009

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ELECTRICITY ACT, 2003
Small 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 and name of the River.		
4	Type	Run of River/Storage	
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	
6	Actual/expected dates of commercial operation, Unit- wise :	DD / MM / YYYY	
(i)	Unit -I	MW	
(ii)	Unit-II	MW	
(iii)	.....	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)	.....	(%)
8	Associated transmission system or proposed evacuation arrangement		

9	Name of manufacturer:		
(i)	Turbine (Francis/Kaplan/Pelton)		
(ii)	Generator		
	Generator rated voltage		
10	Design Energy (Phase wise) (MU)	(MU)	
11	Gross/Average Head	(M)	
12	Rated Head	(M)	
13	Full Reservoir Level (FRL)	(M)	
14	Minimum Draw Down Level (MDDL)	(M)	
15	Total volume of the dam	(cu-mtr)	
16	Surge Shaft (Type/Diameter/Height)		
17	Variation in machine output at different levels between Full Reservoir Level and Minimum Draw Down Level	MW	
18	Design Silt Levels for de-silting chamber:		
i)	Maximum at inlet	(ppm)	
ii)	Maximum at outlet	(ppm)	
19	Expected annual energy generation	(MU)	
20	Design guaranteed efficiency of turbine (%)		

Note:

a	Any other relevant information or any site specific information in respect of hydro generating station may also be furnished.
B	“beneficiary” shall have the meaning as specified in Madhya Pradesh Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulation, 2009.
c	“design energy” shall have the meaning as specified in Madhya Pradesh Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulation, 2009
d	“Installed capacity” shall have the meaning as specified in Madhya Pradesh Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulation, 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;

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Solar PV power 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 or Technology used	
5	Installed capacity and configuration (number of units x MW) of existing/ under execution project	
(i)	Unit -I	
(ii)	Unit-II	
(iii)	.....
6	Actual/expected dates of commercial operation, Unit- wise :	
(i)	Unit -I	
(ii)	Unit-II	
(iii)	.....
7	Energy Utilization (Sale to utility/Captive use/Third party sale)	
8	Associated transmission system or proposed evacuation arrangement	
9	Total land area in acre.	
10	Annual effective sun shine hours	
11	Power Output (Watt/mtr sq.)	
12	Estimated Annual generation (MU's)	
13	No. of modules	

i)	No. of modules in series	
ii)	No. of parallel combination	
14	PV Module type	
15	Physical dimensions	
i)	Length of PV module (mm)	
ii)	Width of PV module (mm)	
iii)	Thickness of PV module (mm)	
16	Rotational angle	Max. Min.
17	Operating temp. range	
18	Estimated Project Cost (Rs. Cr.)	

Note:

a	Any other relevant information in respect of generating station may also be furnished.
b	“Installed capacity” shall have the meaning as specified in Madhya Pradesh Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulation, 2009

**TECHNICAL DETAILS TO BE FILED BY THE GENERATING COMPANIES
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ELECTRICITY ACT, 2003**

Solar Thermal power 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	
5	Installed capacity and configuration (number of units x MW) of existing/ under execution project	
(i)	Unit -I	
(ii)	Unit-II	
(iii)	.....
6	Actual/expected dates of commercial operation, Unit- wise :	
(i)	Unit -I	
(ii)	Unit-II	
(iii)	.....
7	Energy Utilization (Sale to utility/Captive use/Third party sale)	
8	Associated transmission system or proposed evacuation arrangement	
9	Total land area in acre.	
10	Annual effective sun shine hours	
11	Power Output (Watt/mtr sq.)	
12	Estimated Annual generation (MU's)	

13	Capacity Utilisation Factor (%)	
14	Estimated Project Cost (Rs. Cr.)	
15	Technical details	
i	Technology used	Concentrated solar power (CSP) technologies / line focusing /point focusing,
ii	Details of other major equipments	
a		
b		
c		
d		
e		

Note:

a	Any other relevant information in respect of generating station may also be furnished.
b	Installed capacity” shall have the meaning as specified in Madhya Pradesh Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff) Regulation, 2009