CENTRAL ELECTRICITY AUTHORITY

NOTIFICATION

New Delhi, the10th April, 2007

F.No. CEA/PLG/LF/9/40/07. --Whereas the draft of the Central Electricity Authority (Furnishing of Statistics, Returns and Information) Regulations, 2006 were published, as required by Sub-section (3) of Section 177 of the Electricity Act, 2003 (36 of 2003), read with rule 3 of the Electricity (Procedure for Previous Publication) Rules, 2005;

Now, therefore, in exercise of the powers conferred by Section177, read with Section 74 and clause (i) of Section 73 of the Electricity Act, 2003, the Central Electricity Authority hereby Makes the following regulations, namely:-

CENTRAL ELECTRICITY AUTHORITY (FURNISHING OF STATISTICS, RETURNS AND INFORMATION) REGULATIONS, 2007.

1. Short title and commencement - (1) These regulations may be called the Central Electricity Authority (Furnishing of Statistics, Returns and Information) Regulations, 2007.

(2) These regulations shall come into force on the date of their publication in the official Gazette.

2. Definitions - unless the context otherwise requires, in these regulations,-

(1) "Act" means the Electricity Act, 2003 (36 of 2003);
(2) "Voltage" means the difference of electric potential measured in volts, between any two conductors or between any part of either conductor and the earth as measured by a suitable voltmeter and is said to be –

(a) "high voltage" where the voltage exceeds 650 volts but does not exceed 33000 volts under normal condition; and

(b) "extra high voltage" where the voltage exceeds 33000 volts under normal condition;

(3) All other words and expressions used and not defined in these regulations but defined in the Act shall have the meanings respectively assigned to them in the Act.

3. Applicability of the regulations - These regulations shall be applicable to all the licensees, generating companies, person(s) generating electricity for its or his own use and person(s) engaged in generation, transmission, distribution, trading and utilization of electricity.

4. Sources of statistics, returns and information - All licensees, generating companies and person(s) mentioned below, but not limited to, shall furnish to the Authority such statistics, returns or other information relating to generation, transmission, distribution, trading and utilization of electricity at such times and in such form and manner as specified under these regulations-

(1) Licensees

(i) Transmission Licensees;
(ii) Distribution Licensees;
(iii) Trading Licensees;
(iv) Central Transmission Utility;
(v) State Transmission Utilities;
(vi) Appropriate Governments who are responsible for transmitting, distributing or trading of electricity;
(vii) Damodar Valley Corporation established under sub-section (1) of section 3 of the Damodar Valley Corporation Act, 1948 (14 of 1948);
(viii) Any person engaged in the business of transmission or supply of electricity under the provisions of the repealed laws or any act specified in the Schedule;
(ix) Any person who intends to generate and distribute electricity in a rural area as notified by the State Government;
(x) State Electricity Boards;
(xi) Local authorities including Cantonment Boards;
(xii) Deemed licensees and entities exempted from licence.
(xiii) Bhakra Beas Management Board.

(2) Generating companies

(i) Generating companies established by appropriate Governments;
(ii) Independent Power Producers;

(iii) Appropriate Governments responsible for generating electricity;
(iv) Bhakra Beas Management Board;
(v) Any person engaged in the business of generating electricity under the provisions of the repealed laws or any act specified in the Schedule;
(vi) Damodar Valley Corporation.

(3) Person(s) generating electricity for own use:
(i) All captive power producers;
(ii) Any other person including Co-operative Society, Association of persons, body of individuals, etc. engaged in generating electricity for its or his own use.

(4) Other entities
(i) National Load Despatch Centre;
(ii) Regional Load Despatch Centre(s);
(iii) State Load Despatch Centre(s);
(iv) Regional Power Committee(s);
(v) High voltage or extra high voltage consumers of electricity.

5. Formats for furnishing of statistics, returns or information - The entities shall furnish the statistics, returns and information as per the formats annexed to these regulations and the list of format is as per Annexure-I titled "List of formats, frequency (ies) and target date(s)". These formats can also be obtained from the website of the Central Electricity Authority. The formats may be sent by mail or media, to the source (s) of the statistics, returns or information, as and when required.

6. Time schedule for furnishing of statistics, returns or information -The time schedule or targets for furnishing of statistics, returns or information shall be as specified by the Authority on its prescribed formats. A consolidated list of time Schedule format-wise is given at Annexure-I titled "List of formats, frequency (ies) and target date (s)".

7. Frequency of submission of statistics, returns or information - The frequency of submission i.e. daily, weekly, monthly, quarterly or annually shall be as specified by the Authority in its prescribed formats. A consolidated list of frequency of submission format-wise is given in Annexure-I titled "List of formats, frequency (ies) and target date(s)".

8. Manner of furnishing the statistics, returns or information – (1) The statistics, returns or information in the prescribed formats shall be furnished to the Authority preferably electronically or by post or courier or fax.

(2) The entities shall supply complete and correct statistics, returns and information to the Authority.

(3) Any provisional data supplied by the entities shall be finalized and furnished within the period communicated by the Authority.

9. Addition and deletion in formats, time schedule, periodicity or furnishing method - (1) The Authority may revise format(s), time schedule(s), frequency (ies) or manner of furnishing the data or may add or delete format(s) as and when necessary to carry out its functions under clause (i) of section 73 of the Electricity Act, 2003.

(2) The Authority shall, before making change(s) in the format(s), time schedule(s), frequency (ies), data furnishing manner or addition or deletion of format(s) prescribed by the Authority under regulation 5 shall place a draft of changes in format(s) in the website of the Central Electricity Authority for the information of persons likely to be affected thereby. A notice in this regard inviting objections or suggestions shall be published in the widely circulated daily news papers specifying the date of expiry of the notice period which shall not be less than thirty days, on or after which the proposed changes will be taken into consideration by the Authority. The Authority shall consider the objections or suggestions received on or before the date so specified, from any person in respect of the proposed addition or deletion or changes in the format (s). After revision (s) / change (s) and completion of above procedure, the format (s) shall be notified by the Authority.

10. Right of access to records or documents - The Authority or any person authorized by it in writing on its behalf shall, for the purposes of the collection of any statistics under these regulations, have access to any relevant record or document in the possession of any person required to furnish any information or return under these regulations and may enter at any reasonable time any premises where he believes such record or documents to be available and may inspect or take copies of relevant records or documents or ask any question necessary for obtaining any information required to be furnished under these regulations.

11. Restriction on publication of information and returns - (1) No information, no individual return and no part thereof with respect to any particular industrial or commercial concern, given for the purposes of these regulations

shall, without the previous consent in writing of the owner for the time being of the industrial or commercial concern in relation to which the information revealing the commercial and technical confidentiality, be published in such manner as would enable any particulars to be identified as referring to a particular concern.

(2) Except for the purposes of these regulations, no person who is not engaged in the collection of statistics under these regulations shall be permitted to see any information or individual return referred to in sub-section (1).

12. Non-compliance and penalty – (1) If any person, -

(a) required to furnish any information or return-

(i) Willfully refuses or without lawful excuse neglects to furnish such information or return as may be required under these regulations; or

(ii) Willfully furnishes or causes to be furnished any information or return which he knows to be false; or

(iii) refuses to answer or willfully gives a false answer to any question necessary for obtaining any information required to be furnished under these regulations;

OR

(b) impedes the right of access to relevant records or documents or the right of entry conferred by these regulations,

shall attract the relevant provisions under section 142 and 146 of the Act.

(2) No proceeding for an offence under these regulations shall be initiated except by or with the approval of the Authority.

B.K. MISHRA, Secy.

[ADVT 111/1V/186 B/2007/Exty.]

ANNEXURE-I

LIST OF FORMATS, FREQUENCY (IES) AND TARGET DATE (S)			
Title of Format	**Frequency of data furnishing**	**Format No.**	**Target Date (By)**
Generation of Electricity	Annual	1	30-Jun
Transmission of Electricity	Annual	2	30-Jun
Distribution of Electricity	Annual	3	30-Jun
Trading of Electricity	Annual	4	30-Jun
Details of actual sale and purchase of Gross Electrical Energy	Annual	5	30-Jun
Installed Electricity Generating Capacity	Annual	6	30-Jun
Details of electricity generating capacity added	Annual	7	30-Jun
Details of electricity generating sets retired from service	Annual	8	30-Jun
Details of derations of electricity generating sets	Annual	9	30-Jun
Details of fuel consumption	Annual	10	30-Jun
Details of step-up transformers in service at the power stations and various sub-stations as on 31.03.20..	Annual	11	30-Jun
Details of step-down transformers in service as on 31.03.20..	Annual	12	30-Jun
Details of distribution transformers in service as on 31.03.20..	Annual	13	30-Jun
Details of transmission and distribution lines as on 31.03.20..	Annual	14	30-Jun
Details of electricity consumers, connected load and consumption	Annual	15	30-Jun
Details of manpower	Annual	16	30-Jun
Training Facilities/Training Capacity in the Power Sector (Man-days of year)	Annual	17	30-Jun
Details of theft of electricity	Annual	18	30-Jun
Statistics on electrical accidents	Annual	19	30-Jun
Reasons for electrical accidents	Annual	20	30-Jun

Title of Format	Frequency of data furnishing	Format No.	Target Date (By)
Annual data of HV/EHV industry having electricity demand of 1 MW or above	Annual	21	30-Jun
Daily Operational Data of Thermal Power Stations and Nuclear Power Stations	Daily	22	1030 hrs
Daily Operational Data of Hydro Power Stations	Daily	23	1030 hrs
Monthly Operational Data of Thermal Power Stations and Nuclear Power Stations	Monthly	24	7th day
Monthly Operational Data of Hydro Power Stations	Monthly	25	7th day
Data for fixation of annual targets of electricity generation for year 20--- 20---	Annual	26	30-Nov
Regional Power Supply Position (Daily Operation Report)	Daily	27	0900 hrs
Provisional Power Supply Position	Monthly	28	5th day
Revised Power Supply Position	Monthly	29	18th day
Daily data regarding loss of generation on account of shortage of coal, gas and unrequisitioned liquid fired capacity	Daily	30	0900 hrs
Monthly Data regarding Loss of Generation on account of shortage of coal, gas, unrequisitioned liquid fired capacity & backing down due to system constraints	Monthly	31	10th day
Data for load generation balance report (LGBR)	Annual	32	End February
Unscheduled Interchange (UI) Status	Monthly	33	10th day
Details of Power Traded by the Trading Company	Monthly	34	10th day
Progress of capacitor installation programme	Monthly	35	20th day
Daily Coal Report	Daily	36	1500hrs.
Coal Report	Monthly	37	15th day
Generation Loss due to fuel shortage	Monthly	38	7th day
Report of Monthly Average Ash percentage	Monthly	39	7th day

Report of Quarterly/Annual Average Ash Percentage (by weight) in coal received	Quarterly	40	30th day after the end of quarter

Title of Format	**Frequency of data furnishing**	**Format No.**	**Target Date (By)**
Proposed Coal Allocation for Short Term Linkages for Thermal Power Stations	Quarterly	41	40 days before the commencement of the quarter
Monthly Fuel Supply Data of Gas Based Thermal Power Stations	Monthly	42	15th day
Monthly Fuel Supply Data of Liquid Fuel Based Thermal Power Stations	Monthly	43	15th day
Monthly Fuel Supply Data of DG Power Stations	Monthly	44	15th day
Fuel-Oil Data	Monthly	45	15th day
Status of Progress of Villages Electrification and Irrigation Pump sets Energisation	Monthly	46	3rd day
District wise status of progress of village electrification and energisation of Pump sets	Monthly	47	3rd day
District wise Monthly Progress of Inhabited Village Electrification	Monthly	48	3rd day
District-Wise Monthly Progress of Energisation of Irrigation Pump sets	Monthly	49	3rd day
Villages electrified in various population groups and the population covered as on……..	Monthly	50	3rd day
Metering Status for the Month---------year---------	Monthly	51	3rd day
Details of Failure of Distribution & Power Transformers in the Month---,Year 20--------	Monthly	52	3rd day
Reliability Index at Customer Level for the Month-----,year------	Monthly	53	3rd day
Reliability Indices(11KV Feeders) for the Month----,Year-----	Monthly	54	3rd day
Financial Turn Around of Power Distribution for the Financial Year---	Annual	55	30th April
Aggregate Technical & Commercial (A T & C) Losses for the Financial Year----------	Annual	56	30th April
Fuel Data of Fossil Fuel Based Thermal Power Stations for the month--------20----	Monthly	57	20th day
Heat Rate Data of Coal/Lignite Based Thermal Power Stations for Month-----Year	Monthly	58	20th day

Heat Rate Data of Combined Cycle Gas Turbine Power Stations for Month-------- 20----------	Monthly	59	20th day
Monthly Environmental Data of Thermal Power Plants	Monthly	60	20th day

Title of Format	**Frequency of data**	**Format No.**	**Target Date (By)**
Monthly Peak Hours Generation Data by Coal/Lignite Based or Combined Cycle Gas Turbine (CCGT) Power Stations	Monthly	61	7th day
Generating Company Data for Financial Study	Annually	62	30th June
Transmission Company Data for Financial Study	Annually	63	30th June
Power Distribution Company Data for Financial Study	Annually	64	30th June
Monthly Abstract of Ash Generation and Utilisation	Monthly	65	20th day.

Annexure-II

Statement of Specific Applicability of formats

Title of Format	Form-at No.	Genco	Transco	Discom	Traders	SEBs / Licensees/Elecy. Deptts.	RLDCs	SLDCs	RPCs	CPPs/ Industries
Generation of Electricity	1	Y				Y				
Transmission of Electricity	2		Y			Y				
Distribution of Electricity	3			Y		Y				
Trading of Electricity	4				Y					
Details of actual sale and purchase of Gross Electrical Energy	5	Y		Y	Y	Y				
Installed Electricity Generating Capacity	6	Y				Y				
Details of electricity generating capacity added	7	Y				Y				
Details of electricity generating sets retired from service	8	Y				Y				
Details of derations of electricity generating sets	9	Y				Y				
Details of fuel consumption	10	Y				Y				
Details of step-up transformers in service at the power stations and various sub-stations as on 31.03.20..	11	Y	Y	Y		Y				
Details of step-down transformers in service as on 31.03.20..	12	Y	Y	Y		Y				
Details of distribution transformers in service as on 31.03.20..	13	Y		Y		Y				
Details of transmission and distribution lines as on 31.03.20..	14	Y	Y	Y		Y				
Details of electricity consumers, connected load and consumption	15			Y		Y				
Details of manpower	16	Y	Y	Y		Y				
Training Facilities/Training Capacity in the Power Sector (Man-days of year)	17	Y	Y	Y		Y				
Details of theft of electricity	18			Y		Y				
Statistics on electrical accidents	19	Y	Y	Y		Y	Y	Y		
Reasons for electrical accidents	20	Y	Y	Y		Y	Y	Y		
Annual data of HV/EHV industry having electricity demand of 1 MW or above	21									Y
Daily Operational Data of Thermal Power Stations and Nuclear Power Stations	22	Y				Y	Y	Y		

Title of Format	Form-at No.	Genco	Transco	Discom	Traders	SEBs / Licensees/Elecy. Deptts.	RLDCs	SLDCs	RPCs	CPPs/ Industries
Daily Operational Data of Hydro Power Stations	23	Y				Y	Y	Y		
Monthly Operational Data of Thermal Power Stations and Nuclear Power Stations	24	Y				Y	Y	Y		
Monthly Operational Data of Hydro Power Stations	25	Y				Y	Y	Y		
Data for fixation of annual targets of electricity generation for year 20---20…..	26	Y				Y			Y	
Regional Power Supply Position (Daily Operation Report)	27						Y			
Provisional Power Supply Position	28						Y		Y	
Revised Power Supply Position	29						Y		Y	
Daily data regarding loss of generation on account of shortage of coal, gas and unrequisitioned liquid fired capacity	30	Y				Y	Y	Y		
Monthly Data regarding Loss of Generation on account of Shortage of Coal, Gas, Unrequisitoned Liquid Fired Capacity & Backing Down due to System Constraints	31	Y				Y				
Data for load generation balance report (LGBR)	32	Y		Y		Y				
Unscheduled Interchange (UI) Status	33						Y		Y	
Details of Power Traded by the Trading Company	34				Y					
Progress of capacitor installation programme	35								Y	
Daily Coal Report	36	Y				Y				
Coal Report	37	Y				Y				
Generation Loss due to fuel shortage	38	Y				Y				
Report of Monthly Average Ash percentage	39	Y				Y				
Report of Quarterly/Annual Average Ash Percentage (by weight) in coal received	40	Y				Y				
Proposed Coal Allocation for Short Term Linkages for Thermal Power Stations	41	Y				Y				

Title of Format	Form-at No.	Genco	Transco	Discom	Traders	Licensees/Elecy. Deptts.	RLDCs	SLDCs	RPCs	CPPs/ Industries
Monthly Fuel Supply Data of Gas Based Thermal Power Stations	42	Y				Y				
Monthly Fuel Supply Data of Liquid Fuel Based Thermal Power Stations	43	Y				Y				
Monthly Fuel Supply Data of DG Power Stations	44	Y				Y				
Fuel-Oil Data	45	Y				Y				
Status of Progress of Villages Electrification and Irrigation Pump sets Energisation	46			Y		Y				
District wise status of progress of village electrification and energisation of Pump sets	47			Y		Y				
District wise Monthly Progress of Inhabited Village Electrification	48			Y		Y			Y	
District-Wise Monthly Progress of Energisation of Irrigation Pump sets	49			Y		Y				
Villages electrified in various population groups and the population covered as on……..	50			Y		Y				
Metering Status for the Month---------year---------	51			Y		Y				
Details of Failure of Distribution & Power Transformers in the Month---,Year 20--------	52			Y		Y				
Reliability Index at Customer Level for the Month-----,year------	53			Y		Y				
Reliability Indices(11KV Feeders) for the Month-----,Year-----	54			Y		Y				
Financial Turn Around of Power Distribution for the Financial Year---	55			Y		Y				
Aggregate Technical & Commercial (A T & C) Losses for the Financial Year----------	56			Y		Y				
Fuel Data of Fossil Fuel Based Thermal Power Stations for the month--------20….	57	Y				Y				
Heat Rate Data of Coal/Lignite Based Thermal Power Stations for Month-----Year…..	58	Y				Y				
Heat Rate Data of Combined Cycle Gas Turbine Power Stations for Month----------20----------	59	Y				Y				
Monthly Environmental Data of Thermal Power Plants	60	Y				Y				

Title of Format	Form-at No.	Genco	Transco	Discom	Traders	SEBs / Licensees/Elecy. Deptts.	RLDCs	SLDCs	RPCs	CPPs/ Industries
Monthly Peak Hours Generation Data by Coal/Lignite Based or Combined Cycle Gas Turbine (CCGT) Power Stations	61	Y				Y				
Generating Company Data for Financial Study	62	Y				Y				
Transmission Company Data for Financial Study	63		Y			Y				
Power Distribution Company Data for Financial Study	64			Y		Y				
Monthly Abstract of Ash Generation and Utilisation	65	Y				Y				

Note: If certain items of a format are not applicable to an Entity, then 'Not Applicable' may be marked at appropriate places.
Y= Yes Applicable

FORMAT-1
PERIODICITY-ANNUAL
DATA OF YEAR 20……20….
Submission by 30th June

GENERATION OF ELECTRICITY

NAME AND ADDRESS OF UTILITY:

Sl. No.	Name of Power Station	Type of Prime-mover*	Installed Capacity of Power Station as at year end			Gross Electricity Generation in MkWh	Electricity Consumption in Unit & Stn. Auxiliaries in MkWh
			Nos. of Units	Unit Size in MW	Stn. Capacity in MW		
(A)	Owned by the Utility						
1	Station-1						
2	Station-2						
3	Station-3						
4	Station-4						
(B)	Jointly Owned by the Utility (in respect of its share)						
1	Station-1						
2	Station-2						

*Hydro turbine, Steam turbine (Coal), Steam turbine (Lignite), Steam turbine (Multifuel), Gas turbine, Diesel engine, Wind turbine, etc.

FORMAT-2
PERIODICITY- ANNUAL
DATA OF YEAR: 20…20….
SUBMISSION-BY 30th JUNE

TRANSMISSION OF ELECTRICITY

Figs. in MkWh

Name & Address of State Transmission Utility/SEB/ED:

1.	Electrical Energy imported from :		
	(a)	Within the State/UT/System – (i) State/Pvt/Jt. Power Stations (ii) Captive Power Plants (CPPs)	
	(b)	Central Generating Stations (Station-wise)	
	(c)	Outside the State/UT/System (i) Utilities – State/Pvt.(Name-wise) – Jt.(Name-wise)	
	(d)	Outside the country	
2.	Total Electrical Energy Imported (1a+1b+1c+1d)		
3.	Electrical Energy exported to :		
	(a)	Licensees within the State/UT/System: (furnish break-up licensee wise)	
	(b)	Other State Electricity Boards/Electricity Departments (Outside the State/System but within the country)-give break-up entity wise	`
	(c)	Outside the country	
	(d)	Any other entity within the State/UT/System- give break-up entity wise	
4.	Total electrical energy exported (3a+3b+3c+3d)		

FORMAT-3
PERIODICITY- ANNUAL
DATA OF YEAR : 20…20…
SUBMISSION-BY 30TH JUNE

DISTRIBUTION OF ELECTRICITY

Figs. in MkWh

Name & Address of the DISCOM/SEB/ED/Licensee :

1.	Electrical Energy imported from :		
	(a)	Within the State/UT/System	
	(b)	Captive power plants(from within or outside the State/UT/System)	
	(c)	Central generating stations (Station-wise)	
	(d)	Outside the State/UT/System(from within the country)	
	(e)	Outside the country	
2.	Total Electrical Energy Imported (1a+1b+1c+1d+1e)		
3.	Electrical Energy sold to :		
	(a)	Directly to consumers within the State/UT/System(Area of operation)	
	(b)	Licensees within the State/UT/system- furnish break-up licensee wise	
	(c)	Any other entity within the State/UT/System-furnish break-up entity wise	
4.	Total electrical energy sold (3a+3b+3c)		

FORMAT-4
PERIODICITY- ANNUAL
DATA OF YEAR 20…. 20….
SUBMISSION-BY 30TH JUNE

TRADING OF ELECTRICITY

Figs. in MkWh

Name & Address of the TRADING COMPANY
Category of Licence:

1.	Electrical Energy purchased from :		
	(a)	State/Private./Joint Utility Power Stations (Station name-wise)	
	(b)	Captive power plants (Name-wise)	
	(c)	Central Generating Stations (Name-wise)	
	(d)	Outside the country (Name-wise)	
2.	Total electrical energy purchased (1a+1b+1c+1d)		
3.	Electrical Energy sold to :		
	(a)	Licensees (Licensee name-wise)	
	(b)	Outside the country (Name-wise)	
	(c)	Any other entity (Entity name-wise)	
4.	Total electrical energy sold (3a+3b+3c+)		

Note: Please furnish break-up of each of above for round the clock, off peak, peak and as & when required trading.

FORMAT-5
Periodicity-Annual
Data of year 20-- 20---
Submission by -30th June

DETAILS OF ACTUAL SALE AND PURCHASE OF GROSS ELECTRICAL ENERGY

Figures in MkWh

Name of Utility/Licensee:

Name of Utility/Non-Utility/Entity (To whom Sold /from whom purchased)	SALES (MkWh)	PURCHASES (MkWh)	REMARKS, IF ANY

Note:-
(i) Gross energy sale/purchase may be indicated utility/non-utility name-wise clearly & separately in this table.
(ii) Purchase of energy from captive power plant if any, may also be indicated.
(iii) Details of energy sold to licensees may be indicated Licensee-name wise.
(iv) Wheeling of energy should not be included in the above data.
(v) Energy imported/exported from /to Central Generating Stations may be given separately for each Power House.

FORMAT-6
Periodicity-Annual
Data of year 20--- 20---
Submission by—30th June

INSTALLED ELECTRICITY GENERATING CAPACITY

Figs. in MW

Name and address of the Utility:

Sl. No.	Type of Prime mover (Fuel base)	AS AT THE BEGINNING OF THE YEAR		New Capacity added (I.C)	Change in capacity during the year due to Re-ration*	Capacity Retired during the year	AT THE END OF THE YEAR		Remarks if any
		Installed Capacity	Re-rated Capacity				Installed Capacity	Re-rated Capacity	
1.	Hydro Turbine								
2.	Steam Turbine								
	Coal -								
	Lignite –								
	Gas/ Multifuel								
3.	Diesel Engine								
4.	Gas Turbine								
5.	Nuclear								
6.	Wind Turbine								
7.	Solar								
8.	Others, if any								

I.C = Installed Capacity
* Use (+) if due to up ration or (-) if due to deration.

FORMAT-7
Periodicity-Annual
Data of year 20---- 20---
Submission by -30th June

DETAILS OF ELECTRICITY GENERATING CAPACITY ADDED

Name and address of the GENCO/Utility:

Sl. No.	Name of Power House	Unit size in MW	Type of Prime mover (Fuel base)	MAKE			Date of Commissioning
				Boiler	Turbine	Generator	

Note: - The details of each unit are to be furnished in this format. Indicate primary fuel within brackets along with type of prime-mover.

FORMAT-8
Periodicity-Annual
Data of year 20--- 20---
Submission by- 30th June

DETAILS OF ELECTRICITY GENERATING SETS RETIRED FROM SERVICE

Name and address of the GENCO/Utility:

Sl. No.	Name of the Power House	Unit size in MW	Type of Prime mover	Date of Commissioning	Date of Retirement	Reason(s) for Retirement

FORMAT-9
Periodicity-Annual
Data of year 20--- 20---
Submission by 30th June

DETAILS OF DERATIONS OF ELECTRICITY GENERATING SETS

Name and address of the GENCO/Utility :

Sl. . No.	Name of the Power House	Unit No.	Date of Commissioning	Type of Prime mover	Rated Capacity (I.C) (MW)	Derated capacity (MW)	Date of Deration	Reason(s) for Deration

I.C. = Installed Capacity

FORMAT-10
Periodicity-Annual
Data of year 20--- 20---
Submission by -30th June

DETAILS OF FUEL CONSUMPTION

Name of the GENCO/Utility:

Sl. . No.	Name of Power House	Fuel Name	FUEL CONSUMED		Kilo calories per unit generated	Overall Thermal Efficiency
			Qty. used mt /kl / MMSCM	Average Calorific value in kilo calories per kg./litre		

Note :- - Fuel consumption details regarding Gas/Diesel stations are to be shown separately.
- Give details of all primary & secondary fuels consumed during the year.
- mt = Metric Tonne
- kl = Kilo Litre
- MMSCM = Million Metric Standard Cubic Metre

FORMAT-11
Periodicity-Annual
Data of year 20--- 20---
Submission by -30th June

DETAILS OF STEP-UP TRANSFORMERS IN SERVICE AT THE POWER STATIONS AND VARIOUS SUB-STATIONS AS ON 31-03-20..

Name of the Utility/Entity :

Sl. . No.	Name of Power House or Sub-station	No. of Transformers	Voltage Class* in use	Voltage Ratio in use	Different Capacity in use (kVA)	No(s). in each capacity size	Aggregate capacity (kVA)
						TOTAL	

* State if voltage class is 400 kV,220kV,132kV,110kV,78kV,66kV,33kV,22kV,13.2kV,11kV,6.6kV,4.4kV,3.3kV and other voltage if any.
Note: - Power House/Sub-stations to be designated by the highest voltage that exists in the station.
Please ensure that only details of step-up transformers are indicated in this proforma.
Please indicate aggregate capacity along with total no. of transformers.

FORMAT-12
Periodicity-Annual
Data of year 20--- 20---
Submission by 30th June

DETAILS OF STEP-DOWN TRANSFORMERS * IN SERVICE AS ON 31-03-20…..

Name of the Undertaking

Sl. No.	Voltage Class	STEP DOWN TRANSFORMERS					Aggregate capacity (kVA)
		Total No. of Sub-stations	Different Voltage - ratio in use	Different Capacities in use (kVA)	No. in each capacity-size	Total No. of Transformers	
1.	400 kV						
2.	220 kV						
3.	132/110 kV						
4.	78/66 kV						
5.	44/33 kV						
6.	22 kV						
7.	13.2 kV						
8.	11 kV						
9.	6.6 kV						
10.	4.4 kV						
11.	3.3 kV						
12.	Any other (specify)						
						TOTAL	

(*) Secondary voltage above 500 volts.

FORMAT-13
Periodicity-Annual
Data of year 20--- 20---
Submission by -30th June

DETAILS OF DISTRIBUTION TRANSFORMERS * IN SERVICE AS ON 31-03-20..

Name of the Utility/Non-Utility/Entity:

Sl. . No.	Voltage Class	Voltage Ratio	Total No. of transformers	Different capacities in use (kVA)	No. in each capacity size	Aggregate capacity (kVA)
				Total :		

* Secondary voltage below 500 Volts.

FORMAT-14
Periodicity-Annual
Data of year 20--- 20---
Submission by -30th June

DETAILS OF TRANSMISSION AND DISTRIBUTION LINES AS ON 31-03-20---

Name and address of the Utility/Non-Utility/Entity:

Sl. No	Nominal Voltage	Length of line in km at the beginning of the year			Length of line added during the year in km at the beginning			Total Length of line in Ckt km at the end of the year			Remarks
		Single Ckt	Double Ckt	Multi Ckt*	Single Ckt	Double Ckt	Multi Ckt*	Single Ckt	Double Ckt	Multi Ckt*	
1.	EHV Lines: above 500kV										
2.	500 kV DC lines										
3.	400 kV										
4.	230 kV										
5.	220kV										
6.	132 kV										
7.	110 kV										
8.	78 kV										
9.	66 kV										
10.	33 kV										
11.	22 kV										
12.	11 kV										
13.	6.6 kV										
14.	4.4 kV										
15.	3.3 kV										
16.	2.2 kV										
17.	440/230 V, 3 phase, single phase if available										
18	* Direct current lines (volts)										
19	Any other (specify)										

. **Note: Give break-up for U.G. (Underground) & O.H. (Overhead).**
Indicate voltage of operation. * Mention no. of Ckts.

FORMAT-15
Periodicity-Annual
Data of year 20--- 20---
Submission by -30th June

DETAILS OF ELECTRICITY CONSUMERS, CONNECTED LOAD AND CONSUMPTION

Name of the Utility

Sl. No.	Consumer Category	NUMBER OF CONSUMERS						CONNECTED LOAD (kW)						Energy Consumption (kWh)		Remarks
		At the beginning of the year		Added during the year		At the end of the year		At the beginning of the year		Added during the year		At the end of the year				
		R	U	R	U	R	U	R	U	R	U	R	U	R	U	
1.	**Domestic**															
2.	**Commercial**															
3.	**Industrial**															
	a. Low & Medium Voltage															
	b. High Voltage with demand less than 1 MW															
	c. HV/EHV with demand of 1MW & above															
4..	**Railways**															
5.	**Irrigation**															
6.	**Public Lighting**															
7.	**Public Water works & Sewage disposal**															
8..	**Any other category**															
9.	**Pvt. Licensees*** (Licensee wise)															
10.	**Entities within State/U.T** (Entity wise)															
11.	**Entities outside State/U.T** (Entity wise)															
12.	**Total**															

Note :- Energy consumed through unmetered connection should be estimated and indicated clearly.
* Dealing in purchase and further sale of energy.
Give separate break-up for LT & HT supply for Item 7 to 11.
Give break-up for Rural (R) & Urban (U) areas separately

FORMAT-16 (page 1 of 2)
Periodicity-Annual
Data of year 20--- 20---
Submission by -30th June

DETAILS OF MANPOWER

Name of Utility:

Class of employment	**NUMBER OF EMPLOYEES**		**Training provided**	**Type of Training**
(A) Regular (i.e. monthly paid)	As on 31-03-20.(Yr.Start)	As on 31-03-20.(Yr.end)	No. of Personnel/Tech/Adm/Others	Induction/Refresher/ Management/Others
1. Managerial and higher executives (Rank of Chief Engineer and above)				
2. Technical & Scientific Officers				
3. Non-technical: Executive, clerical, accounting, revenue collection, meter reading staff & officers, etc.				
4. Technical Supervisory staff in				
(a) Generation				
(b) Transmission				
(c) Distribution				
(d) Trading				
(e) Others				
5. Technicians and Operating Staff in				
(a) Generation				
(b) Transmission				
(c) Distribution				
(d) Trading				
(e) Others				
TOTAL REGULAR (1) to (5) = (A)				
(B) Non-Regular				
(a) Technical : Trainees & Apprentices				
(b) Work Charged Staff				
(Monthly paid basis)				
i. Skilled				
ii. Unskilled				
Total (b) = (i)+(ii)				
(c) Casual (daily paid basis)				
i. Skilled				
ii. Unskilled				
Total (c) = (i)+(ii) (i.e.=c)				
Sub-Total (a)+(b)+(c) = (B)				
Grand Total (A)+(B)				

FORMAT-16 (Contd.)

General Guidelines for filling form for manpower in the electricity supply industry.

1. Managerial and higher executives: All engineering posts of the rank of Chief Engineer and above is to be included.

2. Technical and scientific officers: All engineering posts above the rank of supervisor/Junior Engineer/ Scientific Officer may be included.

3. Non-Technical : All regular non-technical employees i.e. Executive, clerical, accounting, revenue collection, meter reading staff and officers may be included.

4. Technical supervisory staff :

   a) Generation: All technical staff of the rank of supervisor/Section officer/Junior engineer/ Assistant Controller engaged at generating stations and those associated with planning of generation may be included.

   b) & c) Similar staff mentioned above engaged in transmission & distribution system.

   d) & e) Similar staff mentioned above engaged in trading & other activities.

5. a) Technicians and operation staff : All the technical staff below the rank of supervisor/Junior engineer engaged at generating stations.

   b) & c)Similar staff mentioned above engaged in Transmission and Distribution system.

   d) & e)Similar staff mentioned above engaged in other activities.

Format-17
Periodicity-Annual
Submission by -30th June.

Training Facilities / Training Capacity in the Power Sector (Man-Days of Year)

Name of Utility/Organisation

Data of the Financial year 20--- 20---

Name of Institute	Field of Training (Thermal/Hydro/Transmission/ Distribution/ Management)	Induction Level Training (Man Days)					Management Training (Man Days)	Refresher Training (Man Days)	Total training (Man Days)	Total Training Capacity (Man Days)	Utilization of Training Capacity =Col. 10/11*100(%)
1	2	3	4	5	6	7	8	9	10	11	12
		Technical			Non-Technical						
		Engineers	Sup./Operators	Technicians	Executive	Non-Executive					

FORMAT-18
Periodicity-Annual
Data of year 20--- 20---
Submission by -30th June

DETAILS OF THEFT OF ELECTRICITY

Name and Address of Discom/Licensee/SEB/Electricity Deptt. =

i) No. of cases where inspection was carried out**:**

ii) No. of cases where theft of electricity was detected**:**

iii) Estimated quantity of electrical energy considered as theft in above cases for the period:

iv) Estimated cost of such energy**:**

v) No. of cases where penalties were imposed**:**

FORMAT-19
Periodicity Annual
Data of year 20--- 20---
Submission by -30th June …..

STATISTICS ON ELECTRICAL ACCIDENTS

Name of Utility/Non-Utility/Entity:

Sl. No.	INSTALLATIONS	HUMAN		ANIMALS	
		FATAL	NON-FATAL	FATAL	NON-FATAL
1.	Installations of suppliers of electricity including SEBs/Licensees/Generating Companies:				
	(a) Generating Station				
	(b) Transmission System (Lines, sub-stations, towers, etc.)				
	(c) Distribution system (Lines, sub-stations, poles, transformers, etc.)				
2.	Installations of industrial consumers:				
	(a) Owned by Govt./Semi -Govt. bodies/local authorities.				
	(b) Owned by private companies				
3.	Installations of consumers other than industrial consumers e.g. domestic/agriculture/commercial consumers, etc.:				
	(a) Owned by Govt./Semi Govt. bodies/ local authorities.				
	(b) Owned by private companies.				
	(c) Persons(s)				
	TOTAL (excluding suicides)				

N.B. :- Indicate the number of human/animal affected. Also show the corresponding number of accidents within brackets.

FORMAT-20
Periodicity-Annual
Data of year 20--- 20---
Submission by -30th June

R E A S O N S F O R E L E C T R I C A L A C C I D E N T S

Name of Undertaking:

Sl. No.	REASONS	HUMAN		ANIMALS		TOTAL
		FATAL	NON-FATAL	FATAL	NON-FATAL	
(i)	SNAPPING OF CONDUCTORS					
(ii)	ACCIDENTAL CONTACT WITH LIVE ELECTRIC WIRE / EQUIPMENT					
(iii)	VIOLATION / NEGLECT OF SAFETY MEASURES / LACK OF SUPERVISION					
(iv)	DEFECTIVE APPLIANCES/ APPARATUS / TOOLS					
(v)	INADEQUATE / LACK OF MAINTENANCE					
(vi)	UNAUTHORISED WORK					
(vii)	ANY OTHER REASONS					
	TOTAL					

N.B. : Main reasons for accidents mentioned at Sl.No.(vii) are :- (Please specify)

FORMAT-21, Page 1 of 2
Periodicity-Annual
Data of previous year 20--- 20---
Submission by – 30th June

ANNUAL DATA OF HV/EHV INDUSTRY HAVING ELECTRICITY DEMAND OF 1 MW OR ABOVE

1. Name of factory, complete postal address, Distt & State, Telephone Nos. Fax No., and E-mail address
2. Whether the industry is located in rural area Yes/No
3. Is the industry a continuous process industry
4. No. of shifts per day and No. of working days per annum
5. Demand in kVA contracted with electricity supplier; and name of electricity supplying entity
6. Connected Load :

Sl.No.	Particulars	Previous Yr. Beginning	Additions during previous yr.	Additions proposed	Year(s) in which additions expected
6.1	Motors in kW				
6.2	Lighting in kW				
6.3	Furnace in kW/ kVA				
6.4	Rectifier in kW				
6.5	Any other equipment				
6.6	Total in kW				

7. Maximum Electricity Demand (Previous Year)

Sl.No.	**Item**	**Max. Demand in kVA**	**Max. Demand in kW**
7.1	On the utility system		
7.2	On captive generation, if any		
7.3	Simultaneous Max. Demand		

8. Electricity Consumption (Previous Year)

Sl.No.	**Item**	**Consumption in kWh**
8.1	On utility system	
8.2	On captive generation, if any	
8.3	Total	

FORMAT- 21, Page 2 of 2

9. Production – Previous Year

Sl No	Item	**Product-1**	**Product-2**	**And so on**
9.1	Name of product(Include all products)			
9.2	Name of unit used to measure production quantity			
9.3	Installed production capacity (Product wise) at year end			
9.4	Consumption Norm of electrical energy (kWh/Unit of Production)			

10. Brief details of electric power restrictions/cuts, if any during previous year.

11. Loss of production due to power cuts/restrictions (Indicate product wise quantity).

12. <u>Details of Captive Electricity Generating Plants.</u>

12.1

Type of Prime mover	**Unit No.**	**Installed Capacity in kW**	**Name of main fuel used**	**Stand by/ Base Load**	**Gross Generation in kWh**	**Auxiliary Consumption**
Hydro Turbine/ Steam Turbine/Gas Turbine/Diesel Engine/Wind Turbine etc	**1.**					
	2.					
	3.					
	4. & so on					

12.2Other data :

a) Aggregate Installed Electricity Generating Capacity (kVA) of the Plant.
b) Power Factor
c) Electrical energy purchased (kWh) from other sources (Source-Wise)
d) Electrical energy sold (kWh) to other sources (Source–Wise)

13. Energy Conservation:

i. Details of steps taken during previous year for conserving electrical energy.
ii. Annual savings due to above steps in terms of kWh.

Format No - 22 Page1 /2
Periodicity-Daily
Submission by 1030 hrs.

Daily Operational Data of Thermal Power Stations and Nuclear Power Stations
(Generation and Outage data)

Generation data for the date:

Name of the organisation:

(A) UNIT WISE GENERATION

Name Of Station	Unit No.	Unit Capacity in MW	Gross Energy Generated during the day in MkWh	Peak load during the day (MW)	Remarks, if any	
Station 1						
Station 2						
Data for newly commissioned units (if any) *						

(B) UNIT WISE OUTAGES (Planned/Forced)

(i) Details of Units remained out of bars & Units tripped/ taken out of the bar during the day

Name Of Station	Unit No.	Outage Date & Time	Expected date of return	Outage Reason(s)	Reason(s) of extended outage, if any	Remarks
Planned outage						
Forced outage						

(ii) Details of Units revived during the day

Name Of Station	Unit No.	Outage Date & Time	Synchronization Date & Time	Outage Duration in Hours	Outage Reason(s)	Generation Loss MkWh
Planned outage						
Forced outage						

Format No - 22 Page2 /2

(C) UNIT WISE PARTIAL ENERGY LOSS DATA (DAY WISE IN MkWh)

Name Of Station	Unit No.	Unit Capacity in MW	Energy Loss due to fuel shortage	Energy Loss due to low system Demand	Energy Loss due to system constraints	Energy Loss due to Equipment Problems	Remarks, if any
Station 1							
Station 2							

(D) ADDITIONAL INFORMATION IN BRIEF, IF ANY

Partial loss in MkWh = $(Cr_1 \times Hr_1 + Cr_2 \times Hr_2 \ldots + Cr_n \times Hr_{n)} / 1000$

Where $Cr_1 \ldots\ldots\ldots\ldots Cr_n$ are "the reduction in the output of the operating units in MW due to constraints in Auxiliaries/equipments or any other causes." and $Hr_1 \ldots\ldots Hr_n$ are the duration in hours of operation of the units at reduced output during the period considered (day or month).

NOTE: (I) Following categories of capacities of units/stations are monitored:

a. Thermal (Steam) units having station capacity of more than 20 MW.

b. All gas/diesel units supplying committed power to grid.

c. Hydro stations having capacity of 2 MW and above.

(II) Wherever actual auxiliary consumption is not being metered, proportionate auxiliary consumption may be furnished.

(III) *From the date of synchronisation to the date of commercial operation

Format 23 Page1/2
Periodicity-Daily
Submission by- 1030 hrs

Daily Operational Data of Hydro Power Stations
(Generation, outage and reservoir level data)

Generation Data for the date:
Name of the organisation:

(A) UNIT WISE GENERATION

Name Of Station	Unit No.	Unit Capacity in MW	Gross Energy Generated during the day in MkWh	Peak Load during the day (MW)	Remarks, if any	
Station 1						
Station 2						
Data for newly commissioned units (if any)*						

(B) UNIT WISE OUTAGES (Planned/Forced)

(i) Details of Units remained out of bars & Units tripped/ taken out of the bars during the day

Name Of Station	Unit No.	Outage Date & Time	Expected date of return	Outage Reason (s)	Reason (s) of extended outage, if any	Remarks
Planned outage						
Forced outage						

(ii) Details of Units revived during the day

Name Of Station	Unit No.	Outage Date & Time	Synchronization Date & Time	Outage Duration in Hours	Outage Reason (s)	Generation Loss MkWh
Planned outage						
Forced outage						

Format 23 Page2/2

(C) ENERGY LOSS DUE TO REASONS OTHER THAN FORCED OUTAGE AND PLANNED MAINTENANCE (DAY WISE IN MkWh)

Name Of Station	Unit No.	Unit Capacity in MW	Energy Loss due to flood	Energy Loss due to weeding	Energy Loss due to silt flushing	Energy Loss due to high silt content	Energy Loss due to reduced inflows	Energy Loss due to system constraint	Energy Loss due to Equipment Problems	Remarks, if any
Station 1										
Station 2										

(D) Hydro Reservoir levels:

Name Of Station/ Reservoir	Full Reservoir level (FRL)**			Minimum Draw Down level (MDDL)**	Present Reservoir level		
	Metres	Gross Storage in MCM	Live Storage in MCM	Metres	Metres	Live Storage in MCM	Energy Contents in MkWh

(E) Additional information in brief, if any

NOTE: (I) Following categories of capacities of units/stations are monitored:

a. Thermal (Steam) units having station capacity of more than 20 MW.
b. All gas/diesel units supplying committed power to grid.
c. Hydro stations having capacity of 2 Mw or above.

(II) Wherever actual auxiliary consumption is not being metered, proportionate auxiliary consumption may be furnished.

(III) *From the date of synchronisation to the date of commercial operation
** data to be furnished in case of new units/stations and any changes in the existing units

Signature

Format : 24 Page 1/2
Periodicity-Monthly
Submission by-7th day

Monthly Operational Data of Thermal Power Stations and Nuclear Power Stations

(Generation and Outage data)

Data for the Month:

Name of the organization:

(A) UNIT WISE GENERATION, UNIT AUX . & STATION AUX. POWER CONSUMPTION

Name Of Station	Unit No.	Unit Capacity in MW	Gross Energy generated during the Month in MkWh	Unit Aux. Consumption in MkWh	Station Aux. Consumption in MkWh	Unit Peak Load during the month (MW)	Station Peak Load during the month (MW)
Station 1							
Station 2							
Data for newly commissioned units (if any)*							

(B) UNIT WISE OUTAGES (Planned/Forced)

(i) Details of Units remained out of bars & Units tripped/ taken out of the bars during the Month

Name Of Station	Unit No.	Tripping Date & Time	Expected date of return	Outage Reason (s)	Reason (s) of extended outage, if any	Remarks
Planned outage						
Forced outage						

(ii) Details of Units revived during the month

Name Of Station	Unit No.	Tripping Date & Time	Synchronization Date & Time	Outage Duration in Hours- Minutes	Outage Reason (s)	Generation Loss in MkWhs
Planned outage						
Forced outage						

Format : 24 Page 2/2

(C) UNIT WISE PARTIAL ENERGY LOSS DATA (DAY WISE IN MkWh)

Name Of Station	Unit No.	Unit Capacity in MW	Reason(s) for partial energy loss	Generation loss (MkWh)	Remarks, if any
Station 1					
Station 2					

(D) ADDITIONAL INFORMATION IN BRIEF, IF ANY

Partial loss in MkWh = $(Cr_1 \times Hr_1 + Cr_2 \times Hr_2 \ldots + Cr_n \times Hr_{n)} / 1000$

Where $Cr_1 \ldots\ldots\ldots\ldots Cr_n$ are "the reduction in the output of the operating units in MW due to constraints in Auxiliaries/equipments or any other causes." and $Hr_1 \ldots\ldots Hr_n$ are the duration in hours of operation of the units at reduced output during the period considered (day or month).

NOTE: (I) Following categories of capacities of units/stations are monitored:

a. Thermal (Steam) units having station capacity of more than 20 MW.

b. All gas/diesel units supplying committed power to grid.

c. Hydro stations having capacity of 2 MW and above.

(II) Wherever actual auxiliary consumption is not being metered, proportionate auxiliary consumption may be furnished.

(III) *From the date of synchronisation to the date of commercial operation

Format no-25 Page 1/2
Periodicity- Monthly
Submission by- 7th day

Monthly Operational Data of Hydro Power Stations
(Generation, Outage and Reservoir Level data)

Data for the Month:

Name of the organization:

(A) UNIT WISE GENERATION, UNIT AUX. , STATION AUX. POWER CONSUMPTION & TRANSFORMATION LOSS

Name Of Station	Unit No.	Unit Capacity in MW	Gross Energy generated during the Month in MkWh	Unit Aux. Consumption in MkWh	Station Aux. Consumption in MkWh	Unit wise transformation loss in MkWh	Station wise transformation loss in MkWh	Peak Load reached during the month (MW)
Station 1								
Station 2								
Data for newly commissioned units (if any)*								

(B) UNIT WISE OUTAGES (Planned/Forced)

(i) Details of Units remained out of bars & Units tripped/ taken out of the bars during the Month

Name Of Station	Unit No.	Outage Date & Time	Expected date of return	Outage Reason(s)	Reason(s) of extended outage, if any	Remarks		
Planned outage								
Forced outage								

(ii) Details of Units revived during the month

Name Of Station	Unit No.	Outage Date & Time	Synchronization Date & Time	Outage Duration in Hours- Minutes	Outage Reason(s)	Generation Loss in MkWh		
Planned outage								
Forced outage								

(C) ENERGY LOSS DUE TO REASONS OTHER THAN FORCED OUTAGES & PLANNED MAINTENANCE

Name Of Station	Unit No.	Capacity (MW)	Energy Loss in MkWh	Reason(s) of Energy Loss	Remarks, if any
Station 1					
Station 2					

(D) ADDITIONAL INFORMATION IN BRIEF, IF ANY

Format no-25 Page2/2

(E) Hydro Reservoir Inflow data

Reservoir inflow data for the month- year (mm-yy):

Name Of Station/ Reservoir	Full Reservoir level (FRL)			Minimum Draw Down level (MDDL)	Inflows during the month (MCM)	Outflows during the month (MCM)
	Metres	Gross Storage in MCM	Live Storage in MCM	Metres		

(D) ADDITIONAL INFORMATION IN BRIEF, IF ANY

NOTE: (I) Following categories of capacities of units/stations are monitored:

a. Thermal (Steam) units having station capacity of more than 20 MW.
b. All gas/diesel units supplying committed power to grid.
c. Hydro stations having capacity of 2 MW and above.

(II) Wherever actual auxiliary consumption is not being metered, proportionate auxiliary consumption may be furnished.

(III) *From the date of synchronisation to the date of commercial operation

FORMAT-26
Periodicity-Annual
Data for year 20--- 20---
Submission by -30th Nov.

DATA FOR FIXATION OF ANNUAL TARGETS OF ELECTRICITY GENERATION FOR YEAR 20----- 20---

Name of Company:

Name of Station	Unit No.	Capacity (MW)	Station wise & Unit wise monthly and yearly targets for next year (MkWh)	Schedule of Planned Maintenance (Unit wise)	
				Start Date	End Date

FORMAT-27 Page 1/4
PERIODICITY- DAILY
SUBMISSION BY- 0900 HRS

Regional Power Supply Position (Daily Operation Report) in _____ Region for _____ (Date)
Date of Reporting _____ at _____ (Time)

1. Regional Availability/ Demand/ Shortage

Particulars	*PEAK Hrs (_____Hrs) (MW)	**Off-Peak Hrs (_____Hrs) (MW)	DAY ENERGY (MkWh)
Regional Availability			
Regional Demand			
Regional Shortage			

2 A. State Requirement (Net Energy - MkWh)

States	Thermal	Hydro	IPPs	CPPs	Net Sch. (From Grid)	Drawl (From Grid)	Availability	Requirement Met
Total								

2 B. State Demand (MW)

States	PEAK Hrs (_____Hrs)		Off-Peak Hrs (_____Hrs)		Day Peak		
	Demand Met	Shortage at 50.00 Hz	Demand Met	Shortage at 50.00 Hz	Demand Met	Time (Hrs)	Shortage at 50.00 Hz
_____ Region							

FORMAT-27 Page 2/4

3. Inter-Regional Exchanges - Physical Flows [Import(+)/ Export(-)]

Elements	Peak Hrs (_____Hrs) (MW)	Off-Peak Hrs (_____Hrs) (MW)	Maximum Inter-Change Import (MW)	Time (Hrs)	Export (MW)	Time (Hrs)	Net Energy (MkWh)
A. Northern Region Links							
1.							
2.							
Sub Total NR Links							
B. Western Region Links							
1.							
2.							
Sub Total WR Links							
C. Southern Region Links							
1.							
2.							
Sub Total SR Links							
D. Eastern Region Links							
1.							
2.							
Sub Total ER Links							
Total (All Links)							

4. Short-Term Open Access Transaction for the Previous Day (MkWh)

S. No.	From (Including Region)	To (Including Region)	Name of the Trader	Net Exchange
1.				
2.				
4.				
5.				
6.				

5. Frequency Profile

	% of Time						
Frequency Range	< 48.5 Hz	< 49.0 Hz	< 49.5 Hz	49.0 - 50.5 Hz	> 50.0 Hz	> 50.5 Hz	> 51.0 Hz
%							

Instantaneous Maximum		Instantaneous Minimum		15-Minutes Block Maximum		15-Minutes Block Minimum		Day Average	Frequency Variation Index (FVI#)
Hz	Time	Hz	Time	Hz	Time	Hz	Time	Hz	

6. Voltage Level at Critical Sub-Stations@

Sub-Stations	400 kV				22O KV			
	Maximum		Minimum		Maximum		Minimum	
	kV	Time	kV	Time	kV	Time	kV	Time

FORMAT-27 Page3/4

7. Major Reservoir Particulars

Reservoirs	Designed			Present		Last Year		Last Day		Month
	MDDL (metre)	FRL (metre)	Energy (MkWh)	Level (metre)	Energy (MkWh)	Level (metre)	Energy (MkWh)	Inflows (MkWh)	Uses (MkWh)	Programme Usage (MkWh)

8. Grid Disturbance/ Significant Events (If Any)

9. System Constraints (If Any)

10. Weather Conditions Prevailed on the Day of Report & for the Following Day:

11. Generating Units Outage Status in _____ Region

As on Date **Time** **6:00 Hours**

11A. Generating Units Revived During Last 24 Hrs. (06:00 Hrs of (Date) to 06:00 Hrs (Date))

S.No.	Stations	Unit No.	Capacity (MW)	Outage		Revival		Reasons of outage
				Date	Time	Date	Time	
	Central Sector							
1.								
2.								
3.								
4.								
	State Sector							
1.								
2.								
3.								
4.								

11B. Generating Units Under Outage (Status at 06:00 Hrs of (Date))

S.No.	Station	Unit No.	Capacity (MW)	Outage		Revival		Reasons of outage
				Date	Time	Date	Time	
	Central Sector							
1.								
2.								
3.								
4.								
	State Sector							
1.								
2.								
3.								
4.								

	Total		**_____(MW)**				

FORMAT-27 Page4/4

12. Transmission Lines Outage Status in Southern Region

As on Date **Time** **6:00 Hours**

12 A. Transmission Lines Revived During Last 24 Hrs. (06:00 Hrs of (Date) to 06:00 Hrs (Date))

S.No.	Element Name	Element Type	Outage		Revival		Reasons of outage
			Date	Time	Date	Time	
Central Transmission Utility							
1.							
2.							
3.							
4.							
State Transmission Utility							
1.							
2.							
3.							
4.							

12 B. Transmission Lines Under Outage (Status at 06:00 Hrs of (Date))

S.No.	Element Name	Element Type	Outage		Revival		Reasons of outage
			Date	Time	Date	Time	
Central Transmission Utility							
1.							
2.							
3.							
4.							
State Transmission Utility							
1.							
2.							
3.							
4.							

FORMAT-25 RLDCs

@Critical Sub-Station: Sub-Station Where the Steady-State Voltage Lies Outside the Limit of ± 10% of the Normal Value.

***Peak Hours:** The Designated Peak Hour of a Region.

****Off-Peak Hours:** The Designated Off-Peak Hour of a Region.

 # FVI = $\sum_{1}^{n} \frac{\sqrt{(50 - x_n)^2}}{n}$ where n= number of readings

x_n = frequency at n^{th} reading

FORMAT-28 Page 1/3
PERIODICITY- MONTHLY
SUBMISSION BY- 5TH DAY

Provisional Power Supply Position in _____Region for the Month of _____

A Generation Details

S.No.	Constituents	1	2	3	------	N	REGION
(I)	Gross Generation (MkWh)						
	Thermal						
	(i) Coal						
	(ii) Liquid						
	(iii) Gas Open Cycle						
	(iv) Gas Combined Cycle						
	(v) Nuclear						
	Hydro						
	IPPs						
	CPPs						
	Wind Mills						
	Total (MkWh) (I)						
(II)	Dedicated Power Stations#						
	(i)						
	(ii)						
	Total (MkWh) (I)+(II)						
(II)	Actual Demand Met (Gross MW)						

B Energy Availability / Requirement (Ex-Bus) (MkWh)

	Constituents	Constituents # 1	Constituents #2	Constituents # N	Region
1	Own Generation				
	Thermal				
	(i) Coal				
	(ii) Liquid				
	(iii) Gas Open Cycle				
	(iv) Gas Combined Cycle				
	(v) Nuclear				
	Hydro				
	IPPs*				
	CPPs**				
	Wind Mills				
	Total (1)				
2	Dedicated Power Stations#				
2.1					
2.2					
	Total Own Generation, IPPs*, CPPs** & Dedicated				
3	Net Drawl from Grid (including Bilateral)				
4	Total Availability				
5	Unrestricted Requirement (From Table C)				
6	Shortage (5-4)				
7	% Shortage [{(5-4)/5}*100]				

FORMAT-28 Page 2/3

C Details of Calculations

1	Availability				
2	Frequency Correction				
3	Load Shedding				
4	Power Cuts				
5	Unrestricted Requirement (1+2+3+4)				

D Peak Demand/ Demand Met (Ex-Bus) (MW)

1	Peak Demand				
2	Demand Met				
3	Date & Time of Peak Demand Met				
4	Frequency Correction				
5	Load Shedding				
6	Power Cuts				
7	Shortage				
8	% Shortage				
9	Avg. of Daily Max. Shortage				
10	Max. of Daily Max. Shortage				

E Frequency Profile of _____Regional Grid

Frequency Range	Below 48.5 Hz	Between 48.5 Hz & 48.8 Hz	Between 48.8Hz & 49.0 Hz	Between 49.0 Hz & 49.5 Hz	Between 49.5 Hz & 49.8 Hz	Between 49.8 Hz & 50.2 Hz	Between 50.2 Hz & 50.5 Hz	Between 50.5 Hz & 51.0 Hz	Between 51.0 Hz & 51.5 Hz	Above 51.5 Hz
(% of time)										

INSTANTANEOUS MAXIMUM		INSTANTANEOUS MINIMUM		15-MINUTES BLOCK MAXIMUM		15-MINUTES BLOCK MINIMUM		MONTHLY AVERAGE	FREQUENCY VARIATION INDEX
Hz	Time	Hz	Time	Hz	Time	Hz	Time	Hz	

* IPP- Independent Power Producer

** CPP- Captive Power Plant

Dedicated Power Stations: Power Stations whose generation is solely meant for the concerned State(s).

FORMAT-26 RPCs

FORMAT-28 Page3/3

Power Cuts on Industries, Load Shedding & Power Supply to Agricultural Sector in _____ Region During _____(Month/Year)

I Power Cuts/ Restrictions on Industries, Load Shedding in the State:

S. No.	Particulars/ Name of States	Quantum of Power Cut (MW)	Restriction Timing From (Hrs)	Restriction Timing To (Hrs)	Total Energy Cut (MkWh/ Day)
1.	**State**				
(a)	Power Cuts/ Restrictions on HT/ LT Industries				
(b)	Load Shedding				
(c)	Any Other Information				
	(i) Weekly Off				
	(ii) Staggering of Power Supply				
2.	**State**				
(a)	Power Cuts/ Restrictions on HT/ LT Industries				
(b)	Load Shedding				
(c)	Any Other Information				
	(i) Weekly Off				
	(ii) Staggering of Power Supply				
3.	**State**				
(a)	Power Cuts/ Restrictions on HT/ LT Industries				
(b)	Load Shedding				
(c)	Any Other Information				
	(i) Weekly Off				
	(ii) Staggering of Power Supply				
.					
.					

II Power Supply to Agriculture Sector

S. No.	Particulars	From (Date)	To (Date)	Supply Hours /day Maximum (Hrs)	Minimum (Hrs)	Average (Hrs)
1.	**State**					
(a)	Three-Phase Supply					
(b)	Single Phase Supply					
(c)	Remarks/Notes/Any Other					
2.	**State**					
(a)	Three-Phase Supply					
(b)	Single Phase Supply					
(c)	Remarks/Notes/Any Other					
3.	**State**					
(a)	Three-Phase Supply					
(b)	Single Phase Supply					
(c)	Remarks/Notes/Any Other					
.						
.						

FORMAT-29 Page 1/4
PERIODICITY- MONTHLY
SUBMISSION BY- 18TH DAY

Revised Power Supply Position in _____Region for the Month Of _____

A Generation Details

S.No.	Constituents	1	2	3	------	N	REGION
(I)	Gross Generation (MkWh)						
	Thermal						
	(i) Coal						
	(ii) Liquid						
	(iii) Gas Open Cycle						
	(iv) Gas Combined Cycle						
	(v) Nuclear						
	Hydro						
	IPPs						
	CPPs						
	Wind Mills						
	Total (I)						
(II)	Dedicated Power Stations#						
	(i)						
	(ii)						
	Total (MkWh) (I)+(II)						
(II)	Actual Demand Met (Gross MW)						

B Shared/ Common Projects Generation (MkWh)

S.No.	Station Name	Gross	Ex-Bus
1			
2			
3			
	Total		

C Energy / Availability / Requirement (Ex-Bus) (MkWh)

	Constituents	1	2	3	------	N	REGION
1.	Own Generation						
	Thermal						
	(i) Coal						
	(ii) Liquid						
	(iii) Gas Open Cycle						
	(iv) Gas Combined Cycle						
	(v) Nuclear						
	Hydro						
	IPPs						
	CPPs						
	Wind Mills						
	Total						
2	Dedicated Power Stations#						
2.1							
2.2							
	Total Own Generation, IPPs*, CPPs** & Dedicated						
3.	Share from Shared Projects						
(I)							
(II)							
4.	Bilateral Import						
5.	Bilateral Export						
6.	Total Drawl from Grid including bilateral (includes transmission losses)						
7.	Total Availability (1+3+6)						
8.	Unrestricted Requirement (From Table D)						
9.	Shortfall						

D Details of Calculations **FORMAT-29 Page 2/4**

S.No.	Constituents	1	2	3	------	N	REGION
1	Net Actual Energy Supplied						
2	Frequency Correction						
3	Unscheduled Load Shedding						
4	Scheduled Load Shedding /Power Cuts						
5	Unrestricted Requirement (1+2+3+4)						

E Peak Demand/ Unrestricted Peak Demand (Ex-Bus) (MW)

S.No.	Constituents	1	2	3	------	N	REGION
1	Peak Unrestricted Demand (from Table F)						
2	Peak Demand Met						
3	Shortfall						
4	% Shortfall						

F Details of Calculations for Unrestricted Peak Demand (MW)

S.No.	Constituents	1	2	3	------	N	REGION
1	Peak Demand Met						
2	Frequency Correction						
3	Unscheduled Load Shedding						
4	Scheduled Load Shedding						
5	Peak Unrestricted Demand (1+2+3+4)						

G Details of Gross Generation, Declared Capacity, Scheduled Generation and Injection from CGSs (MkWh)

S.No.	CGSs	Declared Capacity (Ex-Bus) (MkWh)	Scheduled Capacity (Ex-Bus) (MkWh)	Gross Generation (MkWh)	Injection (MkWh)
(i)					
(ii)					
(iii)					
.					
.					
	Total				

H Total Entitlement, Schedule and Drawl by Constituents (MkWh)

S.No.	Constituents	Entitlement (Ex-Bus) (MkWh)	Scheduled Drawl (Ex-Bus) (MkWh)	Actual Total Drawl from Grid including Grid Loss (MkWh)
(i)				
(ii)				
(iii)				
.				
.				
.				
	Total			

I Frequency Profile of _____Regional Grid

Instantaneous Maximum		Instantaneous Minimum		15-Minutes Block Maximum		15-Minutes Block Minimum		Monthly Average	Frequency Variation Index (FVI)
Hz	Time	Hz	Time	Hz	Time	Hz	Time	Hz	

J Frequency Profile (% of time)

Frequency Range	Below 48.5 Hz	Between 48.5 Hz & 48.8 Hz	Between 48.8Hz. & 49.0 Hz	Between 49.0 Hz & 49.5 Hz	Between 49.5 Hz & 49.8 Hz	Between 49.8 Hz & 50.2 Hz	Between 50.2 Hz & 50.5 Hz	Between 50.5 Hz & 51.0 Hz	Between 51.0 Hz & 51.5 Hz	Above 51.5 Hz
(% of time)										

FORMAT29 Page3/4

Entitlement & Scheduled Drawl of Central Generating Stations in _____ Region for the Month of _____

I. Entitlement & Scheduled Drawl

(All figures in MkWh net)

		Constituents # 1		Constituents # N		Total	
		Entitlement	Scheduled Drawl	Entitlement	Scheduled Drawl	Entitlement	Scheduled Drawl
1	**Central Generating Stations :**						
1.1							
1.2							
1.3							
	Total (1)						
2	**Dedicated CG Stations :**						
2.1							
2.2							
	Total (2)						
3	**Supply from Jointly owned Projects:**						
3. 1							
3. 2							
	Total (3)						
	Total (1 + 2 + 3)						

Note : Central Generating Station (CGSs) within the region and outside the region

II. CGSs Availability, Schedule and Actual Generation (MkWh)

Sl.No.	Stations	Availability	Schedule	Actual
1.				
2.				
3.				
.				
.				
.				
	Total			

III. Actual Drawl by Beneficiaries from the Grid (MkWh)

Sl.No.	Constituents	Drawl from Shared Projects + Bilateral + Power Traded	Net Drawl from CGSs including Dedicated Projects	Net Drawl (incl. Bilateral)
(1)	(2)	(3)	(4)	(5) = (3)+(4)
1.				
2.				
3.				
.				
.				
.				
	Total			

FORMAT-29 Page-4/4

Intra-Regional & Inter - Regional Exchange of Power in _____ Region during the month _____

1. Intra-Regional Bilateral Transactions (Scheduled Drawl)

(All figures in MkWh)

To -----> From ¦ v	Constituent #1	Constituent #2	…..	Total
Name of The Constituents & Trader				
.				
.				
.				
Total				

Note : The ex-periphery metering point may please be indicated

2. Inter-Regional Bilateral Transactions (Scheduled Drawl) **(All figures in MkWh)**

To -----> From ¦ v	Constituent #1	Constituent #2	…..	Total
Name of The Constituents & Trader				
.				
.				
.				
Total				

FORMAT-30
PERIODICITY- DAILY
SUBMISSION BY- 0900 HRS

Daily Data regarding Loss of Generation on account of Shortage of Coal, Gas & Unreqisitioned Liquid Fired Capacity in _____ Region

Date:

S.NO.	Name of State/ Station	Installed Capacity (MW)	Fuel Type	Loss of Gen. for the Day (MkWh)
	State Sector			
1.				
2.				
3.				
4.				
	Central Sector			
1.				
2.				
3.				
4.				
	Total			

Summary

1.	**Loss of Generation due to Shortage of Coal**	_____	(MkWh)
2.	**Loss of Generation due to Shortage of Gas**	_____	(MkWh)
3.	**Loss of Generation due to Unrequisitioned Liquid Fired Capacity**	_____	(MkWh)
	Total	_____	**(MkWh)**

FORMAT-__ RPCs

FORMAT-31
PERIODICITY- MONTHLY
SUBMISSION BY- 10TH DAY

Monthly Data regarding Loss of Generation on account of Shortage of Coal, Gas, Unreqisitioned Liquid Fired Capacity & Backing Down due to System Constraints in _____ Region for the Month _____

SL.NO.	Name of State/ Station	Installed Capacity (MW)	Fuel Type	Loss of Gen. for the Month (MkWh)
	STATE SECTOR			
1.				
2.				
3.				
4.				
	CENTRAL SECTOR			
1.				
2.				
3.				
4.				
	Total			

Summary

1.	Loss of Generation due to Shortage of Coal	_____	MkWh
2.	Loss of Generation due to Shortage of Gas	_____	MkWh
3.	Loss of Generation due to Unrequisitioned Liquid Fired Capacity	_____	MkWh
	(Sub-Total)	_____	**MkWh**
4.	Loss of Generation due to System Constraints (Low System Demand, Transmission Constraints, etc.)	_____	MkWh
	Total	_____	**MkWh**

FORMAT-__ RPCs

FORMAT-32 Page 1/2
PERIODICITY- ANNUAL
SUBMISSION BY –END FEB.

DATA FOR LOAD GENERATION BALANCE REPORT (LGBR) FOR THE YEAR 20…. TO 20……

1. Effective Capacity for the Year 20 -20

	Generating Station		Unit No.			Plant				
S. No	Name	*Thermal/ Nuclear/ Gas/ Hydro/ Other		Date of BLR (for Thermal/ Gas Stations)	Effective Capacity as on 31/3/20….	Aux. Consumption (%)	Forced outage rate (%)	Planned Outage (%)	Target PLF %	Remarks

2. Maintenance Schedule for the Year 20 -20

					Proposed Schedule				Total No. of maintenance days during year to previous reported year	
S. No	Station Name	*Thermal/ Nuclear/ Gas/ Hydro/ Other	Unit No.	Capacity (MW)	From	To	No. of days	Reason		Remarks

3. Addition in Installed Capacity (MW)

						Ex-bus MkWh day	
S. No	Station Name	*Thermal/ Nuclear/ Gas/ Hydro/ Other	Unit No.	Capacity (MW)	Month	April…….March	Remarks

4. Monthly Generation Ex-bus Targets (MW) (max.) and Average Energy (MkWh/day) for the Year 20__-20__

		April….		May……..		…….		February…….		March…….		
S. No	Name of Gen. Station	MW	MkWh/Day	MW	MkWh/Day	……	……	MW	MkWh/Day	MW	MkWh/Day	Remarks

5. Monthly Estimated Peak Demand (MW) (max.) and Average Energy Requirement (MkWh/day) of Constituents for the Year 20 -20

April…….		May…….		…….		February…….		March…….		
MW	MkWh/Day	MW	MkWh/Day	……	……..	MW	MkWh/Day	MW	MkWh/Day	Remarks

% Growth Rate considered for calculating Energy Requirement and Estimated Peak Demand _____%

6. Share of States/ UTs in the Central Sector Generating Stations (MW)

S. No.	**Name of Station**	Constituent 1	Constituent 2	----------	Constituent 5	Unallocated
1	Station 1					
2	Station 2					

7. Firm power import/export bilateral agreement/arrangements with other constituents

	Constituent		April…….		May…….		…….		February…….		March…….		
S. No	From	To	MW	MkWh/Day	MW	MkWh/Day	……	……	MW	MkWh/Day	MW	MkWh/Day	Remarks

FORMAT-32 Page2/2

8. Monthly anticipated water levels and energy content for the Year 20__-20__

S. No	Name of Hydro Station	Month	Levels as on 1st day of the month (meter)	Average inflows during the month (Cusecs)	Average discharge during month (Cusecs)	Energy content as on 1st day of the month (MkWh)

9. Energy Availability Calculation of the State/ System/ Region (MkWh)

S. No.	POWER STATION	April 20__	May 20__	June 20__	----------	January 20__	February 20__	March 20__	Total
1	Energy available from hydro stations								
2	Energy available from thermal* stations								
3	Share from Dedicated Power Stations								
4	Share from Central Generating Stations								
5	Scheduled Energy imports (giving break up)								
6	Total availability (1+ 2 + 3 + 4)								
7	Energy Requirement (from Table (5))								
8	Surplus (+) / Deficit (-)								

10. Peak Availability of the State/ System/ Region (MW)

S. No.	Power Station	April 20__	May 20__	June 20__	----------	January 20__	February 20__	March 20__	Maximum
1	Peak Power Available from Hydro Stations								
2	Peak Power Available from Thermal Stations								
3	Share from Dedicated Power Stations								
4	Share from Central Generating Stations								
5	Scheduled Peak Power Imports (giving break up)								
6	Total Peak Power Availability (1+ 2 + 3 + 4)								
7	Peak Power Requirement (from Table (5))								
8	Surplus (+) / Deficit (-)								

11. State wise Anticipated Energy Requirement Vs Energy Availability (MkWh) for the Year 20__-20__

	April 20__	May 20__	June 20__	----------	January 20__	February 20_	March 20__	Total
Region/ State/ System								
Requirement								
Availability								
Surplus/ Deficit (-)								
%								

12. State wise Anticipated Peak Demand Vs Peak Availability for the Year 20__-20__

	April 20__	May 20__	June 20__	----------	January 20__	February 20_	March 20__	Maximum
Region/ State/ System								
Peak Demand								
Peak Availability								
Surplus/ Deficit (-)								
%								

* Thermal Generating Stations include Coal, Liquid, Gas Open Cycle, Gas Combined Cycle & Nuclear

FORMAT-48 GENCO/ State Utilities/ RPCs

FORMAT-33
PERIODICITY- MONTHLY
SUBMISSION BY- 10TH DAY

Unscheduled Interchange (UI) Status of …….Region for the Month of …….

Sl.No.	Constituents/ Generators	Schedule Drawl (MkWh)	Actual Drawl (MkWh)	UI (Rs.) (-) Payable to the pool (+) Receivable from the pool
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORMAT-__ RPCs

FORMAT-34
PERIODICITY- MONTHLY
SUBMISSION BY- 10TH DAY

Details of Power Traded by the Trading Company for the Month of

Name of the Trader :
Licensee Details (No. and Date):

Sl. No.	Volume of Trading (MkWh)	Purchased from	Sold to	Point of purchase	Purchase price (Rs.)	Point of sale (Rs.)	Sale price (Rs.)	Transmission/ Wheeling Charges borne by Seller/ Trader/ Buyer (Rs.)	Transmission losses borne by Seller/ Trader/ Buyer (Rs.)	UI charges borne by seller/ Trader/ Buyer (Rs.)	Trading margin charged (Rs.)	Remarks
1												
2												
3												
4												
N												

FORMAT-__ Power Trading Companies

FORMAT-35
PERIODICITY- MONTHLY
SUBMISSION BY- 20TH DAY

Progress of Capacitor Installation Programme in …….. Region for the month of ……

(All figures in (MVAr)

Name of the Constituents	Total installed as on …….. (previous year)	Requirement during ……. (current year)	Constituent's programme during …….. (current year)	Actual addition during the current month ……	Faulty Capacitors removed during the current month ……	Total addition during the current year
1						
2						
3						
4						
5						
6						
.						
.						
.						
.						
.						
Total Region						

FORMAT-25 RPCs

FORMAT-36

Periodicity- Daily

Submission by - 1500 Hrs.

DAILY COAL REPORT: DATA FOR THE DATE (dd, mm, yy)……

Figures of coal quantity in metric tones (mt)

NAME & ADDRESS OF GENERATING COMPANY

(1) Coal Stock Position

Name of TPS	Date	Receipt	Cumulative receipt during the month	Consumption	Cumulative Consumption during the month	Stock Available

(2) Daily Source wise Receipt of Coal

Name of TPS	Date	Name of Coal Company			Total Receipt
		Source-I	Source-II	So on	

(3) Cumulative Source wise Receipt of Coal during the month.

Name of TPS	Date	Total pro rata linkage	Name of Coal Company			Total Receipt	Receipt as (%) of linkage
			Source-I	Source-II	So on		

(4) Wagons

Name of TPS	Date	Opening Balance	Wagons Received	Wagons Released	Closing Balance

Format -37 GENCO. COM

FORMAT-37
Periodicity- **Monthly**
Submission by **15th day**

COAL REPORT OF MONTH-------, 20---

1. Name of TPS :

2. Month & Year :

3. Capacity in MW :

4. Coal Data :

Source of supply as per linkage	Linkage in mt	Receipt in mt	Mode of Transport	Cost of Coal Rs/mt	Transportation Cost Rs./mt
A. Link Source					
1.					
2.					
B. Diverted if any					
1.					
2.					
C. Imported if any					
Total Coal received during the month (A+B+C)					

5. Total Coal Consumption in mt

   a) Indigenous Coal :
   b) Imported Coal :

6. Useable Coal Stock at the end of month in mt

   a) Indigenous Coal :
   b) Imported Coal :

7. Unit Generated in MkWh :
   During the month

8. Average UHV, GCV & % of ash content of Coal:
   (a) As received
   (b) As fired

9. No. of wagons received during the month

mt = metric tone

FORMAT-38
Periodicity - Monthly
Submission by 7th day

GENERATION LOSS DUE TO FUEL SHORTAGE

Name of thermal power station
Report of the Month & Year:

Date	Unit No.	Capacity in MW	Total Energy Loss in MkWh due to shortage of fuel	Remarks
1	2	3	4	5

FORMAT-39
Periodicity- Monthly
Submission by 7th day

REPORT OF MONTHLY AVERAGE ASH PERCENTAGE (BY WEIGHT)

RECEIVED AT……TPS DURING THE MONTH OF…….. , YEAR 20…..

Name of Colliery/Coal	Monthly Linkage (metric tone)	Monthly Receipt (metric tone)	Percentage Receipt (%)	Monthly average ash percentage by weight as per 3rd Party Sampling/Joint Sampling/Loading end sampling for washed coal (%)
1	2	3	4	5
Total of all Collieries				

FORMAT-40

Periodicity- **Quarterly**

Submission by - **30th day after the end of the quarter**

REPORT OF QUARTERLY / ANNUAL AVERAGE ASH PERCENTAGE (BY WEIGHT) IN COAL RECEIVED AT……TPS DURING THE CURRENT YEAR 20—20----

Quarter/Period	Name of Colliery/Coal Company	Colliery wise Total quarterly Linkage (mt)	Colliery wise Total quarterly Receipt (mt)	Colliery wise Total quarterly % age receipt	Colliery wise Total Average ash Percentage(By weight)
1	2	3	4	5	6
Ist Quarter of FY					
	Total of All Collieries				
2nd Quarter of FY					
	Total of All Collieries				
Total of Ist & Second Quarter of FY	Total of All Collieries				
3rd Quarter of FY					
	Total of All Collieries				
Total of Ist, 2nd and 3rd Quarter of FY	Total of All Collieries				
4th Quarter of FY					
	Total of All Collieries				
Total of Ist, 2nd, 3rd and 4th Quarter of FY	Total of All Collieries				

Total annualized average percentage of ash by weight received during the whole financial year ----------

mt = metric tonne

FORMAT-41
Periodicity-Quarterly
Submission 40 days before the commencement of the quarter

PROPOSED COAL ALLOCATION FOR SHORT TERM LINKAGES FOR THERMAL POWER STATIONS

1. Name of the Power Station

2. No. of Units & Total installed capacity

3. Name of the Quarter (Period)

4. Planned Outage:

Sl. No.	Unit No.	Capacity in MW	Outage Period		Nature of maintenance
			From	To	

5. Generation Target for the Quarter in MkWh

First Month	Second Month	Third Month	Average Target Generation

6. Average Overall Specific Coal Consumption (Kg/kWh) for Station.

7. Coal Requirement to achieve Targeted Generation in metric tonnes:

First Month	Second Month	Third Month	Average Target Generation

8. Average Stock Building per month in metric tonnes subject to stocking capacity of the station's stock yard.

9. Average monthly coal requirement during the quarter in metric tonnes (details below)

Sl. No.	Source of supply/field/company	Mode of Transportation	Quantity
	Total		

FORMAT-42
Periodicity-monthly
Submission by 15th day

MONTHLY FUEL SUPPLY DATA OF GAS BASED THERMAL POWER STATIONS (UTILITY) FOR THE MONTH ……. YEAR 20--

Sl.No	Item	Particulars/ Data		
1	Name of the gas based Thermal power station			
2	Owner's name:			
3	Mailing address:			
	Telephone No.			
	Fax No.			
4	Installed capacity (Installed capacity & Unit rating in MW and No. of Units)			
5	Type of station (Whether CCGT/ OCGT)			
6	Energy generation of station during the month	Target	Actual	
	(MkWh)			
7	Alternate fuel being used (Naphtha/ HSD)			
8	Fuel supply position of the month			
	(1.) Allocation	Gas	HSD	Naphtha
		MMSCM	kl	mt
	(a.) As per original allocation for the month by Gas Linkage Committee			
	(b.) Present allocation for the month			
	(2.) Consumed during the month			
	(a.) For generation from existing Units			
	(b.) For commissioning, testing etc. of new Units			
9	Cumulative consumption during the year			
10	Average gross calorific value of the fuel for the month	kcal/SCM	kcal/ kl	kcal/ kg
11	Generation loss in MkWh, if any, due to shortage of gas/alternate fuel during the month			
12	Reasons for short supply of fuel compared to present allocation, if any			
13	Source of supply			
14	Mode of transport from source to power station (Rail/Road/Pipeline)			
15	Landed cost (Average for month) of fuel at power station in Rs./SCM	Rs./SCM	Rs./kl	Rs./mt
16	Remarks, if any.			

MMSCM-Million Metric Standard Cubic Metre
mt = metric tonne
kl = kilo litre

FORMAT- 43
Periodicity-monthly
Submission by 15th day

MONTHLY FUEL SUPPLY DATA OF LIQUID FUEL BASED THERMAL POWER STATIONS (UTILITY) FOR THE MONTH ……. YEAR 20--

Sl.No	Item	Particulars/ Data		
1	Name of the liquid fuel based GT Station			
2	Owner's name:			
3	Mailing address:			
	Telephone No.			
	Fax No.			
4	Installed capacity (Installed capacity & Unit rating in MW and No. of Units)	GT	ST	
5	Type of station (Whether CCGT/ OCGT)			
6	Energy generation of station during the month	Target	Actual	
	(MkWh)			
7	Name of Primary fuel			
8	Fuel supply position of the month	Primary Fuel	Alternate Fuel	
		kl	Name-1	Name-2
			kl	kl
	(1.) Allocation			
	(2.) Consumed during the month			
	(a.) For generation from existing Units			
	(b.) For commissioning, testing etc. of new Units			
	(3.) Closing Stock at the end of the month			
9	Cumulative consumption during the year	kCal/l	kCal/l	kCal/l
10	Average gross calorific value of the fuel for the month			
11	Generation loss in MkWh, if any, due to shortage of fuel			
12	Reasons for short supply of fuel compared to present allocation, if any			
13	Source of supply			
14	Mode of Transport from source to power station (Rail/Road/Sea/Pipeline)			
15	Landed cost (average for month) of fuel at power station in Rs./kl			
16	Remarks, if any.			

FORMAT- 44
Periodicity-monthly
Submission by 15th day

MONTHLY FUEL SUPPLY DATA OF DG POWER STATIONS (UTILITY) FOR THE MONTH ……. YEAR 20--

Sl. No	Item	Particulars/ Data		
1	Name of the DG power station			
2	Owner's name:			
3	Mailing address:			
	Telephone No.			
	Fax No.			
4	Installed capacity (Installed capacity & Unit rating in MW and No. of Units)			
5	Energy generation of station during the month	Target	Actual	
	(MkWh)			
6	Name of primary fuel			
7	Fuel supply position of the month	Primary Fuel	Alternate Fuel	
		kl	Name-1	Name-2
			kl	kl
	(1.) Consumed during the month			
	(a.) For generation from existing Units			
	(b.) For commissioning, testing etc. of new Units			
	(2.) Closing Stock at the end of the month			
8	Cumulative consumption during the year	kCal/l	kCal/l	kCal/l
9	Average gross calorific value of the fuel for the month			
10	Generation loss in MkWh, if any, due to shortage of fuel for the month			
11	Reasons for short supply of fuel compared to requirement, if any			
12	Source of supply			
13	Mode of transport from source to power station (Rail/Road/Sea/Pipeline)			
14	Landed cost (average for month) of fuel at power station in Rs./kl			
15	Remarks, if any.			

FORMAT-48
PERIODICITY- MONTHLY
SUBMISSION BY 3RD DAY

DISTRICT WISE MONTHLY PROGRESS OF INHABITED VILLAGE ELECTRIFICATION
DURING THE YEAR …….
(AS PER …….. CENSUS)

Month …….
State/U.T ……..

Sl No	Name of the District	Nos. of inhabited villages as per ……. Census	No. of inhabited villages electrified up to 31.03.20-----(end of previous year)	Achievement from 1.4.20… to …… (during current year upto the end of month previous to the month under report)	No. of villages electrified during the …… (month under report)	Cumulative villages electrified as on …….. (end of month under report) (4+5+6)
1	2	3	4	5	6	7

FORMAT - 46
PERIODICITY- MONTHLY
SUBMISSION by 3RD DAY

STATUS OF PROGRESS OF VILLAGES ELECTRIFICATION
AND IRRIGATION PUMPSETS ENERGISATION

State/UT……..
For the month of ……. Year……..

Sl No	Particulars	Total No.	Total cumulative achievement as on 31.03.20------(end of previous year)	Achievement during current year from 1.4.200…. to ….. (end of the month previous to the month under report)	Achievement during the month---------- (the month under report)	Total cumulative achievement as on ----------(end of the month under report) (4+5+6)
	2	3	4	5	6	7
1	Inhabited villages (including tribal villages)					
2	Tribal villages					
3	Pump sets energisation					
4	Harijan Basties/ Dalit Basties					
5	Hamlets					
6	Rural Households					
7	Single Light Point connection under Kutir Jyoti Programme					

FORMAT- 47
PERIODICITY-MONTHLY
SUBMISSION by 3rd DAY

District wise status of progress of village electrification and energisation of Pump sets for the month……,

State/UT

Sl. No.	Name of the District	Name of the village	Census Code	No. of rural household	No. of electrified rural household	Is it a Tribal Village Yes/No	Total No. of hamlets	Total no. electrified hamlets	Total No. of Harijan/ Dalit Bastis	No. of electrified Harijan/ Dalit basties	No. of BPL Households	No. of electrified BPL households	Number of Pump sets energised.
1	2	3	4	5	6	7	8	9	10	11	12	13	14

BPL - Below Poverty Line

FORMAT-48
PERIODICITY- MONTHLY
SUBMISSION BY 3RD DAY

DISTRICT WISE MONTHLY PROGRESS OF INHABITED VILLAGE ELECTRIFICATION
DURING THE YEAR …….
(AS PER …….. CENSUS)

Month …….
State/U.T ……..

Sl No	Name of the District	Nos. of inhabited villages as per ……. Census	No. of inhabited villages electrified up to 31.03.20-----(end of previous year)	Achievement from 1.4.20… to …… (during current year upto the end of month previous to the month under report)	No. of villages electrified during the …… (month under report)	Cumulative villages electrified as on …….. (end of month under report) (4+5+6)
1	2	3	4	5	6	7

FORMAT- 49
PERIODICITY- MONTHLY
SUBMISSION- BY 3rd day

DISTRICT- WISE MONTHLY PROGRESS OF ENERGISATION OF IRRIGATION PUMPSETS
DURING THE YEAR 20……20….
(AS PER -------CENSUS)

Month …….
State …….

Sl. No.	Name of the District	Number of pump sets energized as on 31.03.20…(end of previous year)	Achievement during current year from 01.04.20---to---------- (end of the month previous to the month under report)	No. of pump sets energized during the month under report	Cumulative pump sets energized as on …… (end of month under report) (4+5+6)	Remarks
1	2	3	4	5	6	7

FORMAT- 50
PERIODICITY- MONTHLY
SUBMISSION by 3RD DAY

VILLAGES ELECTRIFIED IN VARIOUS POPULATION GROUPS AND THE POPULATION COVERED AS ON----------

States/ UT	Below 500 persons	501 to 999 persons	1000 to 1999 persons	2000 to 4999 persons	5000 to 9999 persons	10000 And Above	Total N o. Of villages
	T/E	T/E	T/E	T/E	T/E	T/E	T/E

Note: T = Total number of villages

E = No. of electrified villages

FORMAT- 51
Periodicity-Monthly
Submission by 3rd day

METERING STATUS FOR THE MONTH_____,YEAR_____

State Electricity Board/ Utility_____

(1) System Metering

Sl. No.	Identification of system element	Total No. of metering points	Metered	Unmetered	Defective	Type of Meters	Requirements		
							Meters	CTs	PTs

(2) 11 kV Feeder Metering

Sl. No.	Utility	11 kV Feeder Metering						Remarks
		No. of Feeders	No. of Electro-Mechanical/ Trivec. Meters	No. of Electronic Meters	No. of Electro-Mechanical Meters with communication facility	Metering completed	% Metering completed	
	Total							

(3) Distribution Transformer Metering

Sl. No.	Utility	Distribution Transformer Metering					Remarks
		No. of DTs	No. of DTs Metered	No. of DTs with Electronic Meters and communication facility	Metering completed	% Metering completed	
	Total						

(4) Consumer Metering

Sl. No.	Utility	Consumer Metering						Remarks
		Category of Consumers	No. of Consumers	No. of Electro-Mechanical Meters	No. of Electronic Meters	Metering completed	% Metering completed	
	Total							

FORMAT- 52
Periodicity-Monthly
Submission by – 3rd day

State Electricity Board/ Utility---------- Electrical Circle /Division----------

DETAILS OF FAILURE OF DISTRIBUTION & POWER TRANSFORMERS IN THE MONTH-------, YEAR 20------

1. Distribution Transformer Failure

No.	Rating (MVA)	No. Failed	% Failure Rate
Total			

2. Power Transformer Failure

No.	Rating (MVA)	No. Failed	% Failure Rate
Total			

FORMAT - 53

Periodicity-Monthly
Submission by 3rd day

RELIABILITY INDEX AT CUSTOMER LEVEL FOR THE MONTH _____,YEAR_____

State Electricity Board/ Utility_____

Sl. No.	Urban Agglo-meration/ Town	Type of Town	Total No. of Customers on last day of the month	Total No. of Customer Interruptions during the month	Total Duration of Customer Interruptions during the month (in Customer-Minutes)	Cumulative No. of Customer Interruptions w.e.f. 1st April till the last day of the month	Cumulative Duration of Customer Interruptions w.e.f. 1st April till the last day of the month (in Customer-Minutes)	Monthly Average No. of Customer Interruptions (Col. 5/Col.4)	Monthly Average Duration of Customer Interruptions (in Minutes) (Col. 6/Col.4)	Monthly Customer Reliability Index*	Cumulative Average No. of Customer Interruptions (Col. 7/Col.4)	Cumulative Average Duration of Customer Interruptions (in Minutes) (Col. 8/Col.4)	Cumulative Customer Reliability Index**
1	2	3	4	5	6	7	8	9	10	11	12	13	14

*Monthly Customer Reliability Index (MCRI) = $\frac{[\{\text{Col.4} * \text{Total minutes in the month}\} - \text{Col.6}] * 100}{\{\text{Col.4} * \text{Total minutes in the month}\}}$

**Cumulative Customer Reliability Index (CCRI) = $= \frac{[\{\text{Col.4} * \text{Total minutes in the Cumulative Period}\} - \text{Col.8}] * 100}{\{\text{Col.4} * \text{Total minutes in the Cumulative Period}\}}$

Type of Town

SC -> State Capital
MT -> Town with more than 8 lakh population
DH -> District Headquarter
OT -> Other Town

FORMAT- 54

Periodicity-Monthly
Submission by 3rd day

RELIABILITY INDICES (11 KV FEEDERS) FOR THE MONTH _____,YEAR_____

State Electricity Board/ Utility_____

Sl. No.	Urban Agglo-meration/ Town	Type of Town	No. of Feeders on last day of the month	Total No. of Outages of feeders during the month	Total Duration of Outages of Feeders during the month (in Feeder-Minutes)	Cumulative No. of Outages w.e.f. 1st April till the last day of the month	Cumulative Duration of Outages w.e.f. 1st April till the last day of the month (in Feeder-Minutes)	Monthly Average No. of Outages of feeders (Col. 5/Col.4)	Monthly Average Duration of Outages of feeders (in Minutes) (Col. 6/Col.4)	Monthly Feeder Reliability Index* (%)	Cumulative Average No. of Outages of feeders (Col. 7/Col.4)	Cumulative Average Duration of Outages of feeders (in Minutes) (Col. 8/Col.4)	Cumulative Feeder Reliability Index** (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14

*Monthly Feeder Reliability Index (MFRI) = $\frac{[\{Col.4 * Total\ minutes\ in\ the\ month\} - Col.6] * 100}{\{Col.4 * Total\ minutes\ in\ the\ month\}}$

**Cumulative Feeder Reliability Index (CFRI) = = $\frac{[\{Col.4 * Total\ minutes\ in\ the\ Cumulative\ Period\} - Col.8] * 100}{\{Col.4 * Total\ minutes\ in\ the\ Cumulative\ Period\}}$

Type of Town

SC -> State Capital
MT -> Town with more than 8 lakh population
DH -> District Headquarter
OT -> Other Town

FORMAT- 55
Periodicity – Annual
Submission by 30th April

FINANCIAL TURN AROUND OF POWER DISTRIBUTION FOR THE FINANCIAL YEAR _____

Name of Utility_____

Sl. No.	**Item**	**Unit**	
1	Unit Input	MkWh	
2	Total Revenue Earned	Rs. Crores	
2.1	Tariff Income (Amount Realized Net of E Tax)	Rs. Crores	
2.2	Non-Tariff Income	Rs. Crores	
2.3	Other	Rs. Crores	
3	Total Expenditure	Rs. Crores	
3.1	Employee Cost (Incl. SVRS Amortisation)	Rs. Crores	
3.2	A & G Expenses	Rs. Crores	
3.3	Repair & maintenance Expenditure	Rs. Crores	
3.4	Depreciation	Rs. Crores	
3.5	Return On Equity	Rs. Crores	
3.6	Interest	Rs. Crores	
3.7	Power Purchase cost	Rs. Crores	
4	Ratio of Revenue Earned to Expenditure		

FORMAT-56
Periodicity – Annual
Submission by 30th April

AGGREGATE TECHNICAL & COMMERCIAL (A T & C) LOSSES FOR THE FINANCIAL YEAR _____

Name of Utility_____

Sl. No.	Item	Unit	
1	Self Generation	MkWh	
2	Purchased from Central Power Sector Utilities	MkWh	
3	Purchased from other Utilities	MkWh	
4	Total Units (UI_T) (1+2+3)	MkWh	
5	Units Traded with other Utilities (U_T)	MkWh	
6	Units Utilised within Licensed Area (U_1) = {(4)-(5)}	MkWh	
7	Units Billed within Licensed Area (U_B)	MkWh	
8	Amount Billed within Utility Area (A_B)	Rs. Crores	
9	Amount Realised within Utility Area (A_R)	Rs. Crores	
10	Collection Efficiency (CE = A_R / A_B)	--	
11	Units Realised (U_R) = (U_B * CE)	MkWh	
12	AT&C Losses ($U_1 – U_R$)	MkWh	
13	AT&C Losses {1 – (U_R/U_1)} * 100	%	

FORMAT - 57
Periodicity- Monthly
Submission-by the 20th day

Fuel Data of Fossil Fuel Based Thermal Power Stations for the month …… 20----

Name of utility:

Name of power station **Station capacity:**

Month-wise Data:	April	May	June	July	August	September	October	November	December	January	February	March
Fuel Type:												
Proximate analysis:												
GCV (kcal/kg):												
Fixed Carbon (%):												
Ash (%):												
Volatile matter (%):												
Moisture (%):												

Quarterly Data:	Ending June	Ending September	Ending December	Ending March
Ultimate analysis:				
Total Carbon (%):				
Hydrogen (%):				
Nitrogen (%)P:				
Sulphur (%):				
Oxygen (%):				
GCV (kcal/kg):				

Unburnt Combustibles For Each Unit (month-wise):

Unit No. : ----------	April	May	June	July	August	September	October	November	December	January	February	March
In Bottom Ash (%)												
In Fly Ash (%)												
:												
:												
:												
:												
:												
:												
:												
:												

FORMAT-58
Periodicity- Monthly
Submission-by 20th day

HEAT RATE DATA OF COAL/LIGNITE BASED THERMAL POWER STATIONS FOR MONTH ……YEAR ……20…..20…...

1.0 General:

(i) Station Name: ----------
(ii) Station Capacity: -(No. of units with size)

2.0 Design parameters for the Station:

Unit No.	Unit Capacity (MW)	Date of commissioning	Make		Boiler Efficiency (%)	Turbine Heat Rate (kcal/kWh)	Unit Heat Rate (Col.7x100)/ Col.6 (kcal/kWh)	Weighted Design Station Heat Rate w.r.t. Capacity (kcal/kWh)
			Boiler	Turbine				
1	2	3	4	5	6	7	8	9
U-1								
:								
:								
:								
:								
Un								
Station								

3.0 Operational Performance Data For The Station (month-wise) For The Year : ----------

Month	Coal / Lignite stocks at the beginning of the month	Coal / Lignite stocks at the end of the month (Tonnes)	Coal / Lignite received during the month (Tonnes)	Total Coal / Lignite consumption during the month Col.(2+4-3) (Tonnes)	Generation (MkWh) during the month	Average GCV of Coal / Lignite (kcal/kg)	Specific Coal / Lignite Consumption (kg/kWh) Col.(5)/{(6)*1000}	Oil Consumption (kl)	Specific Oil Consumption (ml/kWh) Col.(9)/(6)	Avg. GCV of Oil (kcal/l)	Actual Station Heat Rate Col.(7x8) + Col. (10x11)/1000 (kcal/kWh)
1	2	3	4	5	6	7	8	9		11	12
April											
May											
:											
:											
:											
:											
March											
Weighted/ Total For The Year (April - March)						Weighted average				Weighted average	

FORMAT - 59
Periodicity- Monthly
Submission-by 20th day

HEAT RATE DATA OF COMBINED CYCLE GAS TURBINE POWER STATIONS FOR MONTH ……YEAR……20……..20

1.0 General:

i) Station Name: ----------

ii) Station Capacity: (No. of units with size)

2.0 Design parameters for the Station:

No. of Modules	Module Capacity (MW)	Date of commissioning	Make		Module Heat Rate (kcal/kWh)	Weighted Design Station. Heat Rate w.r.t.Capacity (kcal/kWh)
			Gas Turbine	Steam Turbine (if any)		
1	2	3	4	5	6	7
Module# 1						
:						
:						
:						
:						
Module# n						

3.0 Operational Performance Data For The Station For The Year : ----------

Month	Liquid fuel stock in the beginning of the month (kl)	Liquid fuel stock at the end of the month (kl)	Liquid fuel received during the month (kl)	Total Liquid fuel consumption during the month Col.(2+4-3) (kl)	Generation (MkWh)	Average GCV of Liquid Fuel (kcal/l)	Specific Liquid fuel Consumption (l/Kwh)) (5)/(6)*1000)	Gas Consumption (at S.T.P.) (million Cu.m)	Specific Gas Consumption (Cu.m/kWh) (9)/(6)	Average GCV of Gas (at S.T.P.) (kcal/Cu. m)	Actual Station Heat Rate Col.(7x8+10x11) kcal/kWh)
1	2	3	4	5	6	7	8	9	10	11	12
April											
May											
:											
:											
:											
:											
March											
Weighted/AV. Total (March to March)											

FORMAT-60 Page-1 of 2
Periodicity- Monthly
Submission-by 20th day

MONTHLY ENVIRONMENTAL DATA OF THERMAL POWER PLANTS

NAME OF THERMAL POWER STATION :

I. STACK EMISSIONS (UNIT WISE AND MONTH WISE)

UNIT NO.	DATE	SPM (mg/Nm3)	SO_2 (mg/Nm3)	NO_X (mg/Nm3)

II. AMBIENT AIR QUALITY (MONTH WISE)

(AS PER CPCB NOTIFICATION No. S.O.384E dt. 11.4.94)

PARAMETERS	LOCATION-I (POWER STATION)	LOCATION-II (COLONY)	LOCATION-III (OUTSIDE THE PLANT WITHIN 20 KM.)	METHOD OF MEASUREMENT
SPM (µg/m3)*				
SO2 (µg/m3)*				
NOX (µg/m3)*				
RPM (µg/m3)*				
LEAD (µg/m3)*				
CO (mg/m3)**				

* 24 HOURS WEIGHTED AVERAGE

** 8 HOURS WEIGHTED AVERAGE

FORMAT-60, Page-2 of 2

III. LIQUID EFFLUENT DISCHARGE DATA

A. CONDENSER COOLING WATER (MONTH WISE)

Rise in inlet to outlet temperature oC	
pH	
Free available chlorine (mg/litre)	

* Amended as per EPA Notification GSR 7 dt. 22nd Dec.1998

B. BOILER BLOW DOWN (MONTH WISE AND UNIT WISE)

Oil & Grease (mg/litre)	
Copper (mg/litre)	
Iron (mg/litre)	
Total Suspended Solids (mg/litre)	

C. COOLING TOWER BLOW DOWN (MONTH WISE AND UNIT WISE)

Free av. Chlorine (mg/litre)	
Zinc (mg/litre)	
Chromium (mg/litre)	
Phosphate (mg/litre)	

D. ASH POND EFFLUENTS (MONTH WISE)

pH	
Oil & grease (mg/litre)	
Total suspended solids (mg/litre)	

Source : EPA Notification S O 844(E) dt. 19th Nov. 1986

Format-61

Periodicity- Monthly

Submission by- 7th day

MONTHLY PEAK HOURS GENERATION DATA BY COAL/LIGNITE BASED OR COMBINED CYCLE GAS TURBINE (CCGT) POWER STATIONS

i) Name of Station:

ii) Station Capacity:

iii) No. of Units with size:

iv) Duration of Peak Hours:

Morning Peak 4 Hrs:

Summer: 5 Hrs to 9 Hrs

Winter : 6 Hrs to 10 Hrs

Evening Peak 4 Hrs:

Summer: 18 Hrs to 22 Hrs

Winter : 17 Hrs to 21 Hrs

v) Peak Hours Generation Data for Thermal Power Stations for the year :_____

S. No.	Month	Energy recorded during morning peak 4 hours block	Energy recorded during evening peak 4 hours block	Total energy recorded during peak hours [(3) + (4)]
		(GWh)	(GWh)	(GWh)
-(1)-	-(2)-	-(3)-	-(4)-	-(5)-
1	April			
2	May			
3	June			
4	July			
5	August			
6	September			
7	October			
8	November			
9	December			
10	January			
11	February			
12	March			
	Total			

Note: A copy of the meter print out covering details of energy meter readings on half hour/ fifteen minutes basis for the morning & evening peak hours must be enclosed failing which data would be considered as incomplete.

Date: Signature with Name & Designation of forwarding Officer

Format 62 Page 1/3
Periodicity … Annually
Submission by 30th June

GENERATING COMPANY DATA FOR FINANCIAL STUDY

Separately for each generating station for the financial Year……..

Name of the Company

(a) Ownership -State Owned / JV / IPP
(b). Address of the Company
(c) Phone No./ FAX /E-Mail address
(d) Name & Address of the Generating Station
(e) Phone No. /Fax No./e-mail address of the Generating Station

(A) TECHNICAL PARTICULARS

		Unit-1	Unit-2	Unit-3	Unit-4	Unit-5	Station Total
1 Installed capacity	MW						
2 Date of Commercial Operation							
3 Energy generated	MkWh						
4 (a) Auxiliary Consumption	MkWh						
(b) Free Power	MkWh						
5 Power Sold {3 - 4(a) - 4(b)}	MkWh						
PPA	MkWh						
Regulated	MkWh						
Free Sale	MkWh						
Others	MkWh						
6 Availability Factor *	%						
7 Plant Load Factor **	%						
8 Specific coal consumption	(Kg/kWh)						
9 Specific Secondary oil consumption	(ml/kWh)						
10 Completed Cost	Rs. Cr.						
11 Cost of generation	(P/kWh)						
12 Electricity Duty/Taxes	(P/kWh)						
13 Fuel cost Adjustment	(P/kWh)						
14 D M Water Consumption	Ltr/kWh						
(B) FINANCIAL PARTICULARS (as per Annual Report)							
1. Revenue Income							
a) Sale of Power	Rs. Cr.						
b) Misc. Income	Rs. Cr.						
Total 1	Rs. Cr.						
2. Revenue Expenditure							
I) Fixed Charges							
a) Interest & financing Charges	Rs. Cr.						
b) Interest on Working Capital	Rs. Cr.						
c) Return on Equity	Rs. Cr.						
d) Tax on Income	Rs. Cr.						
e) Incentive	Rs. Cr.						
f) Depreciation	Rs. Cr.						
g) O&M Expenses (total i) to viii) below)	Rs. Cr.						
i) Spares and Consumables	Rs. Cr.						
ii) Employee Cost	Rs. Cr.						
iii) Adm. & Gen Expenses	Rs. Cr.						
iv) Insurance Charges	Rs. Cr.						
v) Training	Rs. Cr.						
vi) R&D	Rs. Cr.						
vii) Water Charges	Rs. Cr.						
viii) Others	Rs. Cr.						
h) Energy Purchase	Rs. Cr.						
i) Any other	Rs. Cr.						
Total(I) Fixed Charges (a to i)	Rs. Cr.						

Format 62 Page 2/3
Periodicity … Annually
Submission by 30th June

		Unit-1	Unit-2	Unit-3	Unit-4	Unit-5	Station Total
II) Variable Charges							
a) Main Fuel Expenses							
Main Fuel cost	Rs. Cr.						
Transportation Cost	Rs. Cr.						
Total (a)							
b) Secondary Fuel Expenses							
Fuel Cost	Rs. Cr.						
Transportation Cost	Rs. Cr.						
Total (b)							
Total (II) Variable Charges (a+b)	Rs. Cr.						
Total Fixed & Variable Charges (I+II)	Rs. Cr.						
c) Taxes/ Duties included in variable Charges							
Taxes/ Duties on primary fuel	Rs. Cr.						
VAT on transport of primary fuel	Rs. Cr.						
Taxes/ Duties on secondary fuel	Rs. Cr.						
VAT on transport of secondary fuel	Rs. Cr.						
3 Profit / (Loss) (before Tax)	Rs. Cr.						
Provision for Tax	Rs. Cr.						
Profit / (Loss) (after Tax)	Rs. Cr.						
4 Sources of Fund							
a) Equity							
I) Paid-up Capital	Rs. Cr.						
ii) Reserves and Surpluses	Rs. Cr.						
b) Loans							
I) Secured	Rs. Cr.						
ii) Un Secured	Rs. Cr.						
Total (a+b)	Rs. Cr.						
5 Application of Funds							
a) Gross Block	Rs. Cr.						
b) Less: Accumulated Depreciation	Rs. Cr.						
c) Net Block	Rs. Cr.						
d) Capital Works in Progress	Rs. Cr.						
e) Investments							
- in Power Sector	Rs. Cr.						
- outside Power Sector	Rs. Cr.						
f) Current Assets, Loans and Advances							
I) Inventory	Rs. Cr.						
ii) Receivables#	Rs. Cr.						
iii) Advances	Rs. Cr.						
iv) Cash & Bank Balance	Rs. Cr.						
Total (f)	Rs. Cr.						
g) Less: Current Liabilities and Provision	Rs. Cr.						
I) Current Liabilities	Rs. Cr.						
ii) Provisions	Rs. Cr.						
Total (I+II)	Rs. Cr.						
h) Net Current Asse (f-g)	Rs. Cr.						
i) Misc. Expenditure	Rs. Cr.						
Total (c+d+e+h+i)	Rs. Cr.						
6 **Investment during the Year**	Rs. Cr.						
7 **Assets created during year*** **							

Format 62 Page 3/3
Periodicity … Annually
Submission by 30th June

Notes:

* Availability = $1000x \sum_{i=1}^{N} DC_i / \{NxICx(100-AUX_n)\}\%$

Where,
IC = Installed Capacity of the generating station in MW,

DC_i = Average declared capacity for the 1st day of the period in MW,

N = Number of days during the period, and

AUX_n = Normative Auxiliary Energy Consumption as a percentage of gross generation;

** PLF = $10000 \times \sum_{i=1}^{N} SG_i / \{N \times IC \times (100-AUX_n)\}\%$

Where,

IC = Installed Capacity of the generating station in MW,
SG_i = Scheduled Generation in MW for the 1st time block of the period,
N = Number of time blocks during the period, and
AUX_n = Normative Auxiliary Energy Consumption as a percentage of gross generation;

Reference: Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2004 dated 26th March 2004.
Website: www.cercind.org

*** Please furnish complete details of all the assets created during the year

Details of Receivables:

Sl No	Source	At beginning of year	At end of year
1			
2			
3			
4			

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Periodicity … Annually
Submission by 30th June

TRANSMISSION COMPANY DATA FOR FINANCIAL STUDY

Name of the Company

(a) Date of obtaining license and its validity period

(b) Ownership -State Owned / JV / IPP

(c). Address of the Company

(d) Phone No.

FAX

E-Mail address

(e) Region of Transmission

A TECHNICAL PARTICULARS

1 Length of Lines

i) 400KV Ckt kms

ii) 220KV Ckt kms

iii) 132KV Ckt kms

iv) Any Other Ckt kms

2 **Details of Sub. Stations**

MVA of S/S		No. of Sub. Stations	No. of Transformers
400 KV	(400 / 220 KV)		
	(400 /132 KV)		
220 KV	(220 /132 KV)		
	(220/66 KV)		
	(220/33 KV)		
	(220 /11 KV)		
132KV	(132/66KV)		
	(132/33KV)		
	(132/11KV)		
Any other			

3 Service Failure No. of hrs.

Total system

50% or more

30% to 50%

10% to 30%

1 to 10%

Less than 1%

4 Transmission Losses (Technical)

(in their own system)

5 Total Units Wheeled MkWh

6 a Transformer failures during the year Nos.

b Average time taken to replace damaged transformer Hrs.

B **FINANCIAL PARTICULARS (as per Annual Report)**

1 Revenue Income

a) Wheeling of Power Rs. Cr.

b) Misc. Income Rs. Cr.

c) Subsidy Rs. Cr.

Total (1) Rs. Cr.

2 Revenue Expenditure

Fixed Charges

a) Interest & financing Charges

b) Depreciation Rs. Cr.

c) O&M Expenses

i) Spares and Consumables Rs. Cr.

ii) Employee Cost Rs. Cr.

iii) Adm. & Gen Expenses Rs. Cr.

iv) Insurance Charges Rs. Cr.

v) Training Rs. Cr.

vi) R&D Rs. Cr.

viii) Others Rs. Cr.

d) Provisions Rs. Cr.

Total (a+b+c+d) Rs. Cr.

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Periodicity … Annually
Submission by 30th June

3	**Profit / (Loss) (before Tax)**		Rs. Cr.
	Provision for Tax		Rs. Cr.
	Profit / (Loss) (after Tax)		Rs. Cr.
4	**Sources of Fund**		
	a) Equity		
	I)	Paid up Capital	Rs. Cr.
	ii)	Reserves and Surpluses	Rs. Cr.
	b) Loans		
	I)	Secured	Rs. Cr.
	ii)	Un Secured	Rs. Cr.
	Total	(a+b)	Rs. Cr.
5	**Application of Funds**		
	a) Gross Block		Rs. Cr.
	b) Less Accumulated Depreciation		Rs. Cr.
	c) Net Block		Rs. Cr.
	d) Capital Work in Progress		Rs. Cr.
	e) Investments		
		in Power Sector	Rs. Cr.
		outside Power Sector	Rs. Cr.
	f)	Current Assets, Loans and Advances	
	I)	Inventory	Rs. Cr.
	ii)	Receivables	Rs. Cr.
	iii)	Advances	Rs. Cr.
	iv)	Cash & Bank Balance	Rs. Cr.
		Total (f)	Rs. Cr.
	g)	Less Current Liabilities and Provision	Rs. Cr.
	I)	Current Liabilities	Rs. Cr.
	ii)	Provisions	Rs. Cr.
		Total (i+ii)	Rs. Cr.
	h)	Net Current Assets (f-g)	Rs. Cr.
	i)	Misc. Expenditure	Rs. Cr.
	Total	(c+d+e+h+i)	Rs. Cr.
6	**Investment during the year**		Rs. Cr.
7	**Assets created during the year**		
8	**Electricity Duty / Taxes if applicable**		
9	**Number of Employees**		
	Technical		Nos.
	Non technical		Nos.
10	**Persons Trained during year**		Nos.

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Periodicity Annually
Submission by 30th June

DISTRIBUTION COMPANY DATA FOR FINANCIAL STUDY

For the financial Year……..

Name of the Company

(a) Date of obtaining license and its validity period

(b) Ownership -State Owned / JV / IPP

(c). Address of the Company

(d) Area(s) of Distribution (Names), Area in sq.km., population and maps

(e) Phone No./ FAX /E-Mail address

(A) TECHNICAL PARTICULARS

1 Energy Purchased

Sl. No.	Sources	Units Purchased kWh	Cost Rs Cr.
a			
b			
c			
	Total		

2 Units (Energy) Billed kWh

3 Realised Units kWh

4 Distribution Losses

(a) Technical losses %

(b) Commercial losses (see foot note) %

(c) Collection Efficiency (from col.11of table 5) %

(d) AT&C Losses [4(b) /4(c)] %

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Periodicity Annually

Submission by 30th June

5 Details of Energy Consumption

	Consumers	No. of consumers				Consumption	Tariff	Billed Revenue	Realised Revenue	Collection Efficiency
		Metered	Unmetered	Flat Rate	Total	kWh	paisa/Unit Slab wise	Rs Cr.	Rs Cr.	(10/9)
1	2	3	4	5	6	7	8	9	10	11
a	Domestic (Slab wise)									
	Slab 1									
	Slab 2									
	Slab 3									
	Slab 4									
b	Non-domestic (Commercial)									
c	Industrial									
	EHT >33KV									
	HT >650Volts&<33KV									
	LT upto 650 Volts									
d	Agriculture									
	HT(Metered)									
	LT(Metered)									
	LT(Unmetered)									
e	Railways Traction									
f	Bulk Supply									
g	Water works/ irrigation public works									
h	Street lighting									
I	Licensees									
j	Others									
	TOTAL									

6 Average waiting period for obtaining new connection

a Domestic days

b Commercial days

c Industrial days

7 Length of EHT lines…….……..CktKm.

Length of HT lines……..Ckt Km.

Length of LT lines……..Ckt Km.

8 Availability of distribution Net work (%) =(Nos. of hours for which network was available/Total no. of hours) x 100

Foot Note: 4(b) Commercial losses = (Energy purchased- Energy billed)/Energy purchased =[Total(1)-(2)]/Total(1)

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Periodicity Annually
Submission by 30th June

(B) FINANCIAL PARTICULARS (as per Annual Report)

1 Revenue Income

a	Sale of Power		Rs. Cr.
b)	i)	Misc. Income	Rs. Cr.
	ii)	Subvention Received from State Govt.	Rs. Cr.
		Total (1)	Rs. Cr.

2 Revenue Expenditure

	Fixed Charges		
	a)	Interest & financing Charges	
	b)	Depreciation	Rs. Cr.
	c)	O&M Expenses	Rs. Cr.
	i)	Spares and Consumables	
	ii)	Employee Cost	Rs. Cr.
	iii)	Adm. & Gen Expenses	Rs. Cr.
	iv)	Insurance Charges	Rs. Cr.
	v)	Training	Rs. Cr.
	vi)	R&D	Rs. Cr.
	viii)	Others	Rs. Cr.
	d)	Provisions	Rs. Cr.
		Total (a+b+c+d)	Rs. Cr.

3 Profit / (Loss) (before Tax)

Tax Provision for Tax	Rs. Cr.
Profit / (Loss) (after Tax)	Rs. Cr.

4 Sources of Fund

a)	Equity		
	I)	Paid-up Capital	Rs. Cr.
	ii)	Reserves	Rs. Cr.
b)	Loans		
	I)	Secured	Rs. Cr.
	ii)	Un Secured	Rs. Cr.
c)	Consumer Contribution		Rs. Cr.
	Total (a+b+c)		Rs. Cr.

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Periodicity Annually

Submission by 30th June

5 Application of Funds

a) Gross Block			Rs. Cr.
b) Less Accumulated Depreciation			Rs. Cr.
c) Net Block			Rs. Cr.
d) Capital Work in Progress			Rs. Cr.
e) Investments			
	in Power Sector		Rs. Cr.
	outside Power Sector		Rs. Cr.
f)	Current Assets, Loans and Advances		
	I)	Inventory	Rs. Cr.
	ii)	Receivables	Rs. Cr.
	iii)	Advances	Rs. Cr.
	iv)	Cash & Bank Balance	Rs. Cr.
		Total (f)	Rs. Cr.
g)	Less Current Liabilities and Provision		Rs. Cr.
	I)	Current Liabilities	Rs. Cr.
	ii)	Provisions	Rs. Cr.
		Total (i+ii)	Rs. Cr.
h)	Net Current Assets (f-g)		Rs. Cr.
i)	Misc. Expenditure		Rs. Cr.
Total		(c+d+e+h+i)	Rs. Cr.
6	**Investment during the year**		Rs. Cr.
7	**Details of assets created during the year**		
8	**Electricity Duty/ Taxes**		p/unit
9	**Fuel Cost Adjustment**		p/unit
10	**Total Number of Employees**		
	Technical		Nos.
	Non technical		Nos.
11	**Persons Trained during the year**		Nos.

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Periodicity - Monthly

Submission by 20th day

MONTHLY ABSTRACT OF ASH GENERATION AND UTILISATION

Name of the Entity…….

NAME OF POWER PLANT……

Installed capacity [Total ……..MW] **15 year action plan……[MW]**

9 year action plan……[MW]

YEAR…….. **LTPM-- [LAKH TONNES PER MONTH]** **ASH UTILIZATION IN THE MAIN AREAS [LTPM]**

S. No.	Month	Coal consumed LTPM	Ash content %age	Ash Generation LTPM	Ash Utilized LTPM	%age utilization	Bricks	Cement	Concrete	Roads & Embankment	Hydro Sector	Ash dyke raising	Agriculture/ Wasteland	Mine fill	Others/ High value added areas
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	APRIL														
2	MAY														
3	JUNE														
4	JULY														
5	AUGUST														
6	SEPTEMBER														
Half yearly Sub-total															
7	OCTOBER														
8	NOVEMBER														
9	DECEMBER														
10	JANUARY														
11	FEBRUARY														
12	MARCH														

TOTAL

ANNUAL (MTPA)

NOTE:

MTPA - Million Tonnes per Annum