Registered No. HSE-49/2006-2008. [Price: Rs. 10-25 Paise.

ఆంధ్ర ప్రదేశ్ రాజ పత్రము

THE ANDHRA PRADESH GAZETTE

PART–II EXTRAORDINARY
PUBLISHED BY AUTHORITY

No. 240] HYDERABAD, MONDAY, SEPTEMBER 1, 2008.

NOTIFICATIONS BY HEADS OF DEPARTMENTS, Etc.

--- x ---

PUBLIC WORKS DEPARTMENT

ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION

TERMS AND CONDITIONS FOR DETERMINATION OF TARIFF FOR SUPPLY OF ELECTRICITY BY A GENERATING COMPANY TO A DISTRIBUTION LICENSEE AND PURCHASE OF ELECTRICITY BY DISTRIBUTION LICENSEES.

Regulation No. 1 of 2008

INTRODUCTION

Sections 62 and Section 86 (1) (b) of the Electricity Act, 2003, require the Commission to determine the tariff for supply of electricity by a generating company to a distribution licensee and to regulate electricity purchase and procurement process of distribution licensees including the price at which electricity shall be procured, from the generating companies or licensees or from other sources through agreements for purchase of power for distribution

G-657/1.

and supply within the State. Section 61 of the Act ibid requires the Commission to specify the terms and conditions for such determination of tariff. Accordingly the Commission published a draft Regulation on the subject in the A.P.Gazette on 31-08-2006 seeking comments / suggestions from interested persons and also issued a press release on the same day apart from hosting the draft Regulation on its website. The Commission has considered the responses received and finalized the Regulation.

In exercise of powers conferred under Sections 61, 62, 86(1)(b) read with Section 181 of the Electricity Act, 2003, and all other powers enabling in this behalf, therefore, the Andhra Pradesh Electricity Regulatory Commission hereby makes the following Regulation, namely:

1 SHORT TITLE, EXTENT AND COMMENCEMENT

i) This Regulation may be called the Andhra Pradesh Electricity Regulatory Commission (Terms and conditions for determination of tariff for supply of electricity by a generating company to a distribution licensee and purchase of electricity by distribution licensees) Regulation, 2008.

ii) This Regulation shall extend to the whole of the State of Andhra Pradesh.

iii) Subject to the provisions in clause 5.2 this Regulation shall be applicable to :

all generating companies supplying or intending to supply electricity to a Distribution Licensee, and all Distribution Licensees for purchase of electricity from generating companies, other licensees including trading licensees, captive generating plants and any other source :

Provided that determination of tariff for supply of electricity to a distribution licensee from non-conventional sources of generation shall be in accordance with such terms and conditions as stipulated in relevant separate Orders of the Commission.

iv) This Regulation shall come into force on the date of its publication in the Andhra Pradesh Gazette and shall remain in force unless amended, varied, altered or modified by the Commission.

2 DEFINITIONS

i. In this Regulation, unless the context otherwise requires:

(a) "Act" means the Electricity Act, 2003;

(b) "Applicant" means a Licensee or Generating Company who has made an application for determination of tariff ;

(c) "Authority" means Central Electricity Authority referred to in Section 70 of the Act;

(d) "Auxiliary Consumption" in relation to a period, means the quantum of energy consumed by auxiliary equipment of the generating station and shall be expressed as a percentage of the sum of gross energy generated at the generator terminals of all the units of the generating station and, for the purpose of this Regulation, auxiliary consumption for a thermal generating station shall include transformer losses within the generating station;

(e) "Availability" in relation to a thermal generating station for any period means the average of the daily average declared capacities for all the days during that period expressed as a percentage of the installed capacity of the generating station minus the normative auxiliary consumption in MW, as specified in this Regulation, and shall be computed in accordance with the following formula:

$$\text{Availability} = 10000 \times \sum_{i=1}^{N} DC_i / \{ N \times IC \times (100 - AUX_n) \} \%$$

where –
N = number of days during the period
DC_i = Average Declared Capacity for the ith day of the period in MW,
IC = Installed Capacity of the generating station in MW,
AUX_n = Normative Auxiliary Consumption, expressed as a percentage of gross generation

(f) "Beneficiary" in relation to a generating station means the person buying power generated at such a generating station on payment of Annual Fixed Charges;

(g) "Block" in relation to a combined cycle thermal generating station includes combustion turbine – generators, associated waste heat recovery boilers, connected steam turbine – generators and auxiliaries;

(h) "Capacity Index" in relation to a hydro power generating station means the average of the daily capacity indices over one year excluding those days

on which Maximum Available Capacity is zero due to non-availability of water;

$$\text{Capital Index} = \frac{\text{Sum of Capacity Indices for all the days of the year}}{\text{Number of days in the year when the Maximum Available Capacity is non-zero.}}$$

(i) "Capital Cost" of a project or its unit or stage as the case may be, means the capital expenditure thereof as admitted by the Commission for determination of tariff.

(j) "CERC" means the Central Electricity Regulatory Commission established under Section 76 of the Act;

(k) "Commission" means the Andhra Pradesh Electricity Regulatory Commission;

(l) "Conduct of Business Regulations" means the Andhra Pradesh Electricity Regulatory Commission (Conduct of Business) Regulations in force from time to time;

(m) "Control Period" means a multi-year period fixed by the Commission from time to time, usually a 5-year period, the first Control Period however ending on 31st March, 2009.

(n) "Cut-off Date" means the date of the first financial year closing after three hundred and sixty-five (365) days of the date of commissioning of a generating station;

(o) "Daily Capacity Index" in relation to a hydro power generating station means the declared capacity subject to availability of water for the purpose of generation expressed as a percentage of the maximum available capacity for the day subject to availability of water for the purpose of generation and shall be calculated in accordance with the following formula:

Daily Capacity Index = Declared Capacity (MW) subject to availability of water for the purpose of generation x 100 / Maximum Available Capacity (MW) subject to availability of water for the purpose of generation

Note: In case the Maximum Available Capacity is zero for any day due to non-availability of water , then the Daily Capacity Index for that day shall be taken as zero for the purpose of computing Annual Capacity Index.

(p) Date of commercial operation or COD means-

in relation to a unit of a generating station means the date declared by the generator after demonstrating the Maximum Continuous Rating (MCR)

or Installed Capacity (IC) through a successful trial run after notice to the beneficiaries and in relation to the generating station means the date of commercial operation of the last unit or block of the generating station ;

(q) "Declared Capacity" means-

for a thermal generating station, the capability of the generating station to deliver ex-bus electricity in MW declared by such generating station in relation to any period of the day or whole of the day, duly taking into account the availability of fuel:

Note :

(i) In case of a gas turbine generating station or a combined cycle generating station, the generating station shall declare the capacity for units and modules on gas fuel and liquid fuel separately, and these shall be scheduled separately. Total declared capacity and total scheduled generation for the generating station shall be the sum of the declared capacity and scheduled generation for gas fuel and liquid fuel for the purpose of computation of availability and Plant Load Factor respectively;

(ii) For run-of-river hydro power generating stations with pondage and storage-type power stations the declared capacity means, the ex-bus capacity in MW expected to be available from the generating station over the peaking hours of the next day, as declared by the generating station, taking into account the availability of water for generation, optimum use of water and availability of machines and for this purpose, the peaking hours shall not be less than three (3) hours within a twenty-four (24) hour period;

(iii) For purely run-of-river hydro power generating stations the declared capacity means, the ex-bus capacity in MW expected to be available from the generating station during the next day, as declared by the generating station, taking into account the availability of water for generation, optimum use of water and availability of machines;

(r) "Deemed Generation" means the energy which a hydro-generating station was capable of generating but could not generate due to the conditions of grid or power system, beyond the control of generating station resulting in spillage of water ;

(s) "Design Energy" in relation to a hydro power generating station means the quantum of energy which could be generated in a 90 per cent dependable year with 95 per cent installed capacity of the generating station;

(t) "Existing Generating Station" means a generating station which had a date of commissioning prior to the date of notification of this Regulation;

(u) "Generation Business" means the business of production of electricity from a generating station for the purpose of giving supply to any person or enabling a supply to be so given;

(v) "Gross Calorific Value" in relation to a thermal generating station means the heat produced in kCal by complete combustion of one kilogram of solid fuel or one litre of liquid fuel or one standard cubic meter of gaseous fuel, as the case may be;

(w) "Gross Station Heat Rate" means the heat energy input in kCal required to generate one kWh of electrical energy at generator terminals;

(x) "Infirm Power" means electricity generated prior to the date of commercial operation of the unit of a generating station;

(y) "Installed Capacity" means the summation of the name plate capacities of all the units of the generating station or the capacity of the generating station (reckoned at the generator terminals) as approved by the Commission from time to time;

(z) "Licensee" means a person granted a licence under Section 14 of the Act;

(aa) "Long-term procurement" means procurement of power by a Distribution Licensee for a period of over one year;

(bb) "Maximum Available Capacity" in relation to a hydro power generating station means-

(i) for run-of-river hydro power generating stations with pondage and storage-type power stations, the maximum capacity in MW that the generating station can generate with all units running under prevailing conditions of water levels available for usage and flows over the peaking hours of the next day, and for this purpose, the peaking hours shall not be less than three (3) hours within a twenty-four (24) hour period;

(ii) for purely run-of-river hydro power generating stations, the maximum capacity in MW that the generating station can generate with all units running under prevailing conditions of water levels available for usage and flows over the peaking hours of the next day;

(cc) "Maximum Continuous Rating" or `MCR' in relation to a unit of the thermal power generating station means the maximum continuous output at the generator terminals, guaranteed by the manufacturer at rated parameters, and in relation to a unit or block of a combined cycle thermal power generating station means the maximum continuous output at the generator terminals, guaranteed by the manufacturer with water/steam injection (if applicable) and corrected to 50 Hz grid frequency and specified site conditions;

(dd) "New Generating Station" means a generating station with a date of commissioning on or after the date of notification of this Regulation;

(ee) "Operation and Maintenance Expenses" or 'O&M Expenses' means the expenditure incurred on operation and maintenance of the generating station, including part thereof, and includes the expenditure on manpower, repairs, spares, consumables, insurance and overheads;

(ff) "Plant Load Factor", for a given period, means the total sent-out energy corresponding to scheduled generation during such period, expressed as a percentage of sent-out energy corresponding to installed capacity in that period and shall be computed in accordance with the following formula:

$$\text{Plant Load Factor} = 10000 \times \sum_{i=1}^{N} SG_i / \{ N \times IC \times (100 - AUX_n) \} \%$$

where –

N = number of time blocks in the given period

SG_i = Scheduled Generation in MW for the ith time block in such period

IC = Installed Capacity of the generating station in MW

AUX_n = Normative Auxiliary Consumption in MW, expressed as a percentage of gross generation

(gg) "Power Procurement Plan" means, the plan prepared by a Distribution Licensee in accordance with the guidelines/regulations issued in this behalf by the Commission;

(hh) "Primary Energy" in relation to a hydro power generating station means the quantum of energy generated up to the design energy on per year basis at the generating station;

(ii) "Project" means a generating station;

(jj) "Run-of-river power station" means a hydro power generating station which has no upstream pondage;

(kk) ' Run –of-river power station with pondage' means a hydro electric power generating station with sufficient pondage for meeting the diurnal variation of power demand;

(ll) "Scheduled Generation" at any time or for any given period or time block means the schedule of generation in MW ex-bus given by the State Load Despatch Centre;

Note : For the gas turbine generating station or a combined cycle generating station if the average frequency for any time block, is below 49.52 Hz but not below 49.02 Hz and the scheduled generation is more than 98.5% of the declared capacity, the scheduled generation shall be deemed to have been reduced to 98.5% of the declared capacity, and if the average frequency for

any time block is below 49.02 Hz and the scheduled generation is more than 96.5% of the declared capacity, the scheduled generation shall be deemed to have been reduced to 96.5% of the declared capacity.

(mm) "Secondary Energy" in relation to a hydro power generating station means the quantum of energy generated in excess of the design energy on per year basis at the generating station;

(nn) "Short-term procurement" means procurement of power by a Distribution Licensee for a period not exceeding one year;

(oo) "Small Gas Turbine Power Generating Station" means and includes gas turbine/combined cycle generating stations with gas turbines in the capacity range of 50 MW or below;

(pp) "State" means the state of Andhra Pradesh.

(qq) "Storage type power station" means a hydro power generating station associated with large storage capacity to enable variation in generation of electricity according to demand;

(rr) "Unit" in relation to a thermal generating station means steam generator, steam turbine, generator and auxiliaries and in relation to a combined cycle thermal generating station, means gas turbine, generator and auxiliaries.

(ss) "Year" means a financial year.

ii. Words and expressions used and not defined in this Regulation but defined in the Act shall have the same meanings as assigned to them in the Act.

iii. All proceedings under this Regulation shall be governed by the Conduct of Business Regulations.

PART- I
APPROACH, FRAMEWORK, PROCEDURE AND FILINGS

3 POWER PROCUREMENT PLAN

3.1 The Distribution Licensee shall prepare a Power Procurement Plan as per the Commission's Guidelines on Load Forecasts, Resource Plans and Power Procurement and shall submit the same for Commission's approval as specified in clause 9 of the APERC (Terms and Conditions for determination of tariff for wheeling and retail sale of electricity) Regulation, 2005 (Regulation No.4 of 2005), as amended from time to time.

3.2 The Licensee shall make explicit the steps it intends to take that will enable the acquisition of the resources required in the Power Procurement Plan.

3.3 The Distribution Licensee shall procure power, under this Regulation, in conformity with the Power Procurement Plan as approved by the Commission.

3.4 Each application for power procurement or the proposals referred to in clause 5 of this Regulation shall contain an explanation as to how the proposed procurement conforms to the Power Procurement Plan, or the reasons for deviations, if any :

Provided that a distribution licensee may undertake short-term purchases of electricity without the prior approval of the Commission, in terms of the Guidelines issued by the Commission in that behalf in force, as referred to in clause 4.

4 SHORT-TERM PROCUREMENT

For short-term procurement of electricity, the Distribution Licensees shall follow the procedure as laid down by the Commission from time to time, the latest instructions are as per the directive of the Commission in Tariff Order 2008-09 at paragraph 231.

5 APPROACH TO DETERMINATION OF TARIFF

5.1 Where tariff has been determined through transparent process of bidding in accordance with the guidelines issued by the Central Government, the Commission shall adopt such tariff in accordance with the provisions of the Act.

5.2 The provisions specified in Part – II of this Regulation shall apply in determining tariff based on Capital Cost for supply to a Distribution Licensee by :

a. State-controlled/owned companies till such time as the Commission is satisfied that the situation is ripe to introduce competition; and

b. one-time expansion of generating capacity of existing projects of private developers, not exceeding 50% of the capacity as on 06.01.2006 except in the following cases:

(i) Where the PPA (power purchase agreement between the generating company and the distribution licensee) had been signed and approved by the Commission prior to 06.01.2006 or the PPA had been signed and was pending before the Commission on 06.01.2006;

(ii) Where the appraisal of the project had started before 6-1-2006 by the relevant financial institutions for lending funds to the project on the basis of appropriate evidence of process of procurement of power by any distribution licensee. Provided that in all such cases final PPA is filed before the Commission by 30th September 2006.

(iii) In case of hydro projects where detailed project report (DPR) has been submitted to the Central Electricity Authority/Central

Water Commission before 01.04.2006 for concurrence (except for projects where concurrence of DPR is not mandatory) and appropriate evidence of process of procurement of power by any distribution licensee existed before 6-1-2006. Provided that in all such cases final PPA is filed before the Commission by 30th September 2006.

c. Own generating stations: Where the Distribution Licensee also undertakes the business of generation of electricity, the transfer price at which electricity is to be supplied by the Generation Business of the Distribution Licensee to his Retail Supply Business shall be determined by the Commission:

Provided that the Commission shall have regard to the terms and conditions specified in this Regulation in determining the transfer price for such supply. The Distribution Licensee shall maintain separate records for the Generation Business and shall maintain an Allocation Statement so as to enable the Commission to clearly identify the direct and indirect costs relating to such business and the return accruing to such business.

d. The Distribution Licensee shall submit, along with the application for determination of tariff for retail sale of electricity, the information required under this Regulation relating to the Generation Business, so as to enable the Commission to determine the transfer price for supply of electricity to the Retail Supply Business in accordance with the terms and conditions contained in the Part III:

Provided that the Commission may deviate from the norms contained in this Part or specify alternative norms for particular cases, where it so deems appropriate having regard to the circumstances of the case:

Provided also that the reasons for such deviation shall be recorded in writing:

Provided further that in case of an existing generating station, the Commission shall determine the tariffs having regard to the historical performance of such generating station and reasonable opportunities for improvement in performance, if any.

5.3 The Commission shall determine tariff under section 62 read with section 64 of the Act on receipt of an application to that effect from a generating company for supply of electricity to a distribution licensee(s), or from the distribution licensee(s).

5.4 The tariffs shall unless reviewed earlier or extended or specified otherwise by the Commission remain in force for the duration of a control period.

5.5 A Generating Company or Distribution Licensee, as the case may be, may agree to any terms and conditions that may vary from the terms and conditions contained in this Regulation subject to the conditions that :

(a) The overall per unit tariff of electricity over the entire life of the asset, calculated on the basis of the norms in deviation does not exceed the per unit tariff calculated on the basis of the norms specified in this Regulation; and

(b) Any such deviation shall come into effect only after approval by the Commission :

6 PROCEDURE FOR APPLICATION

6.1 An application referred to in clause 5.3 above shall be filed in the form specified in Annexure-I, and shall be accompanied by the form of verification specified in the Conduct of Business Regulations in force, and the fees specified in APERC (Levy of Fees for various services rendered by the Commission) Regulation, 2005 (Regulation No.1 of 2005), as amended from time to time.

6.2 The applicant shall provide all and any further information as may be required by the Commission for processing the application.

7 PROCEDURE FOR PUBLICATION OF THE APPLICATION

7.1 The applicant shall publish the application in at least two daily English newspapers in English and two Telugu daily newspapers in Telugu, in the form specified in Annexure-II inviting objections / suggestions from the public on the application, to be filed with the Secretary of the Commission with a copy to the applicant.

7.2 The applicant shall furnish replies to the written objections received pursuant to such publication within the time specified by the Commission, to the objectors concerned with a copy each to the Commission Secretary.

8 DISPOSAL OF APPLICATION

8.1 The Commission shall, within one hundred and twenty (120) days from the receipt of a complete application and after considering all suggestions and objections received from the public:

(a) issue a Tariff Order accepting the application with such modifications or such conditions as may be contained in such Order; or

(b) reject the application for reasons to be recorded in writing if such application is not in accordance with the provisions of the Act and the rules and regulations made thereunder or the provisions of any other law for the time being in force and for any other sufficient reasons

8.2 The Commission may conduct public hearing on the application in the manner as may be decided by the Commission in terms of the Conduct of Business Regulations, this Regulation and the Act.

8.3 No tariff or part of any tariff may be ordinarily amended, more frequently than once in any financial year, except in respect of any changes in fuel cost expressly permitted under the terms of fuel cost adjustment formula given in Annexure-III.

Provided that if any Licensee or Generating Company recovers a price or charge exceeding the tariff determined under Section 62 of the Act and in accordance with this Regulation, the excess amount shall be recoverable by the person who has paid such price or charge along with interest equivalent to the Bank Rate of the Reserve Bank of India without prejudice to any other liability incurred by such Licensee or Generating Company.

8.4 The Licensee shall submit periodic returns as may be required by the Commission, containing operational and cost data to enable the Commission to monitor the implementation of its Order and reassess the basis on which tariff was approved.

PART-II

TARIFF DETERMINATION BASED ON CAPITAL COST

9 FILING DETAILS

9.1 Each application where tariff is to be determined based on capital cost shall include the following duly accompanied by supporting data and documentary and other evidence:

(i) Fixed Costs

(a) Capital Cost of the project
(b) Capital structure (Debt-Equity Ratio)
(c) Depreciation
(d) Operation and Maintenance Expenses
(e) Working Capital
(f) Income-Tax as per actuals

(ii) Variable Costs

(a) Landed cost of fuel including transit and handling charges, in case of thermal stations
(b) Royalty on coal and water rates, if any
(c) Others (to specify)

(iii) Norms of operation

(a) Target Availability for recovery of full capacity (Fixed) charges
(b) Target Plant Load Factor (PLF) for incentive
(c) Gross Station Heat Rate – (i) during stabilisation period; (ii) subsequent period
(d) Secondary fuel oil consumption
(e) Auxiliary Energy Consumption

10 TARIFF DETERMINATION

Tariffs under this Part shall be determined in accordance with the norms specified herein, guided by the principles and methodologies specified in CERC (Terms and Conditions of Tariff) Regulations 2004 as originally issued and amended by CERC (Terms and Conditions of Tariff) (First Amendment) Regulations, 2006, issued on 1st June, 2006 vide No. L-7/25/(5)/2003 –CERC; any further amendments thereto shall be applicable on their adoption by the Commission, by means of a general or special order, with or without any modifications:

Provided that the norms of operation specified in this Regulation shall not preclude the generating company and the distribution licensee from agreeing upon improved norms of operation and in such a case, such improved norms shall be applicable for determination of tariff.

10.1 Tariff in respect of a generating station under this Regulation shall be determined Stage-wise, Unit-wise or for the whole generating station. The terms and conditions for determination of tariff for generating stations specified in this Part shall apply in like manner to Stages or Units, as the case may be, as to generating stations.

10.2 Where the tariff is being determined for a Stage or a Unit of a generating station, the generating company shall adopt a reasonable basis for allocation of capital cost relating to common facilities and allocation of joint and common costs across all Stages or Units as the case may be under consideration:

Provided that the generating company shall maintain an Allocation Statement providing the basis for allocation of such costs and submit such statement to the Commission along with the application for determination of tariff under this Regulation.

10.3 In relation to multi-purpose hydroelectric projects, with irrigation, flood control and power generation components, the capital cost chargeable to the power generation component of the project only shall be considered for determination of tariff.

10.4 **Components of tariff:** Tariff for sale of electricity shall comprise of two parts a) annual fixed costs ; and b) energy charges

i. In case of a thermal power generating station, the two parts shall consist of the recovery of annual fixed charges and energy charges.
ii. In case of a hydro power generating station, the two parts shall consist of the recovery of annual capacity charge and energy charges :

Provided that the annual capacity charges for a hydro power generating station shall be computed in accordance with the following formula:

Annual Capacity Charges = (Annual Fixed Charge- Primary Energy Charge)

Provided further that the Primary Energy Charge shall not exceed the Annual Fixed Charge.

10.5 The annual fixed charges of a thermal generating station or of a hydro power generating station, as the case may be, shall consist of recovery of the following:

(a) Return On Capital Employed (RoCE);
(b) Depreciation ;
(c) O&M Expenses ;
(d) Income-tax as per actuals;

10.6 The energy charges, in case of thermal generating station, shall cover fuel cost and shall be computed in accordance with clause 13.1

10.7 The Primary energy charges, in case of hydro generating station, shall be computed as specified in clause 13.2

10.8 **Capital cost** :- Subject to prudence check by the Commission based on information filed by the generating company , licensees, evidence from other Commissions, generating companies, licensees and international experience etc. the Commission shall determine the Capital Cost of the project. The Capital Cost as determined

above, shall also include further capital expenditure incurred if any up to the first financial year closing one year after the date of commercial operation of the last unit of the project, its stage or the unit, as the case may be is admitted by the Commission.

It shall also include capitalized initial spares subject to the following ceiling norms as a percentage of the actual cost of the machinery and equipment. The actual (original cost) as on the cut-off date as admitted by the Commission.

(i) Coal-based/lignite-fired generating stations - 2.5%
(ii) Gas Turbine/Combined Cycle generating stations - 4.0%
(iii) Hydro power generating stations - 1.5%

Provided that where the power purchase agreement entered into between the Generating Company and the Distribution Licensee provides actual expenditure, the expenditure shall not exceed such actuals for determination of tariff :

Provided further that in case of the existing generating stations, the actual original cost of project recorded in the books of account of the Generating Company, subject to prudence check by the Commission, shall be considered as the original cost of project for the purpose of this Regulation.

10.9 Capital cost of the project shall be inclusive of, and shown separately with supporting evidence the expenditure if any, likely to be capitalised within the original scope of work after the date of commercial operation, and no separate claim for any additional capitalisation shall be entertained.

Subject to prudence check Capital Expenditure of the following nature actually incurred after the cut-off date may be admitted by the Commission.

i. Deferred liabilities relating towards works / services within the original scope of work.
ii. Liabilities to meet award of arbitration or for compliance of the order or decree of the Court.
iii. On account of change in law.
iv. Any additional works / services that became necessary for efficient and successful operation of the generating station, but not included in the original project cost ; and
v. Deferred works relating to ash pond or ash handling system in the original scope of work.

10.10 Foreign exchange variation risk shall not be allowed as a pass-through :

10.11 The capital expenditure as arrived at or determined above shall be considered as the capital cost of the project for the purpose of this Regulation.

10.12 **Sale of Infirm Power :** Any revenue (other than the recovery of fuel cost) earned by the generating company from sale of infirm power, shall be taken as reduction in capital cost and shall not be treated as revenue.

8

10.13 **Debt-equity ratio :** In case of all generating stations, debt-equity ratio as on the date of commercial operation shall be taken as 70:30 for determination of tariff irrespective of the actual quantums of debt and equity .

The debt and equity amount so arrived at shall be used for calculating RoCE referred to in clause-12.

11 NORMS FOR OPERATION

11.1 Thermal generating stations:

The norms in respect of those generating stations with plant capacities other than those mentioned herein shall be determined by the Commission on a case to case basis.

11.1.1 Availability

a. Target availability for full recovery of annual fixed charges in case of coal / gas – based plants shall be 80 percent.

b. Target availability for full recovery of annual fixed charges in case of lignite - fired plant shall be 75 percent

11.1.2 Auxiliary Energy Consumption

a. Coal-based generating stations

	With cooling tower	**Without cooling tower**
(i) 200/210/250 MW	**9.0%**	**8.5%**
(ii) 500 MW series		
Steam driven boiler feed pumps	**7.5%**	**7.0%**
Electrically driven boiler feed pumps	**9.0%**	**8.5%**

b. Gas Turbine/Combined Cycle generating stations
   i. Combined cycle : 3.0%
   ii. Open cycle : 1.0%

c. Lignite-fired thermal power generating stations
   The auxiliary energy consumption norms shall be 0.5 percentage point more than the auxiliary energy consumption norms of coal-based generating stations specified clause 11.1.2 (a) above.

11.1.3 Gross station heat rate

a. Gross station heat rate for coal-based generating stations shall be as indicated below:

	After Stabilization Period
200/210/250 MW capacity plants	**2500 kcal / kWh**
500 MW capacity plants	**2450 kcal / kWh**

Note 1:
In respect of 500 MW Units where the boiler feed pumps are electrically operated, the gross station heat rate shall be 40 kCal/kWh lower than the station heat rate indicated above.

Note 2:
For generating stations having combination of 200/210/250 MW sets and 500 MW sets, the normative gross station heat rate shall be the weighted average station heat rate.

b. For lignite-fired generating stations, the gross station heat rates specified under clause (a) above for coal-based generating stations shall be corrected, using multiplying factors as given below:

(i) For lignite having 50% moisture: Multiplying factor of 1.10

(ii) For lignite having 40% moisture: Multiplying factor of 1.07

(iii)For lignite having 30% moisture: Multiplying factor of 1.04

(iv)For other values of moisture content, multiplying factor shall be prorated for moisture content between 30-40 and 40-50 depending upon the rated values of multiplying factor for the respective range given under sub-clauses (i) to (iii) above.

c. Gross station heat rate for gas turbine/combined cycle generating stations

	Advanced Class Machines	E/EA/EC/E2 Class Machines
Open cycle	2685 kCal/kWh	2830 kCal/kWh
Combined cycle	1850 kCal/kWh	1950 kCal/kWh

d. Gross station heat rate for small gas turbine generating stations

	With Natural Gas	With Liquid Fuel
Open cycle	3125 kCal/kWh	1.02x3125 kCal/kWh
Combined cycle	2030 kCal/kWh	1.02x2030 kCal/kWh

11.1.4 Secondary fuel oil consumption

a. Coal-based generating stations:

2.0 ml/kWh

b. Lignite-fired generating stations:

3.0 ml/kWh

11.1.5 Transit losses

a. Transit losses for coal based generating stations, as a percentage of quantity of coal dispatched by the coal supply company during the month, shall be as given below:

(i) Pit head generating stations - 0.3%
(ii) Non-pit head generating stations - 0.8%

11.2 Hydro power generating stations

11.2.1 Normative capacity index for recovery of annual fixed charges

a. During first year of commissioning of the generating station

(i) Purely Run-of-river power stations - 85%
(ii) Storage type and Run-of-river power stations with pondage - 80%

b. After first year of commissioning of the generating station

(i) Purely Run-of –river power stations - 90%
(ii) Storage type and Run-of-river power stations with pondage - 85%

Note:
There shall be pro rata recovery of annual fixed charges in case the generating station achieves capacity index below the prescribed normative levels. At Zero capacity index, no fixed charges shall be payable to the generating station.

11.2.2 Auxiliary Energy Consumption

(a) Surface hydro electric power generating stations with rotating exciters mounted on the generator shaft - 0.2% of energy generated;
(b) Surface hydro electric power generating stations with static excitation system - 0.5% of energy generated ;
(c) Underground hydro electric power generating stations with rotating exciters mounted on the generator shaft - 0.4% of energy generated;
(d) Underground hydro electric power generating stations with static excitation system - 0.7% of energy generated ;

11.2.3 **Transformation losses**

From generation voltage to transmission voltage: 0.5% of energy generated.

12 CALCULATION OF ANNUAL FIXED CHARGES

The capacity charges shall be computed on the following basis and their recovery shall be related to target availability. The Annual Fixed Charges shall cover:

(a) Return on Capital Employed (RoCE)
(b) Depreciation
(c) O&M expenses
(d) Taxes on Income as per actuals

12.1 **a) Return on Capital Employed (RoCE)**

RoCE is equal to sum of

a. Original Capital Cost less Accumulated depreciation, and ;
b. Working Capital approved by the Commission as per this Regulation, multiplied with the Weighted Average Cost of Capital (WACC)

The WACC for this purpose will be determined as per the procedure given below :

$$WACC = [D/E/(1+D/E)]\, r_d + [1/(1+D/E)]r_e$$

D/E is the Debt to Equity Ratio and shall be determined at the beginning of the Control Period after considering Generating Company's previous years' D / E mix, market conditions and other relevant factors.

r_d is the Cost of Debt and shall be determined at the beginning of the Control Period after considering Generating Company's proposals, present cost of debt, market conditions and other relevant factors.

r_e is the Return on Equity and shall be determined at the beginning o the Control Period after considering CERC norms, Generating Company's proposals, previous years' D/E mix, risks associated with generating business, market conditions and other relevant factors

12.2 **b) Depreciation**

Depreciation

For the purpose of tariff, depreciation shall be computed in the following manner, namely:

(i) The value base for the purpose of depreciation shall be the historical cost of the asset;

(ii) Depreciation shall be calculated annually, based on straight line method over the useful life of the asset and at the rates prescribed in Ministry of Power notification dated 21-03-1994, as amended till date.

The residual life of the asset shall be considered as 10% and depreciation shall be allowed up to a maximum of 90% of the historical capital cost of the asset. Land is not a depreciable asset and its cost shall be excluded from the capital cost while computing the historical cost of the asset.

(iii) On repayment of entire loan, the remaining depreciable value shall be spread over the balance useful life of the asset.

(iv) Depreciation shall be chargeable from the first year of operation. In case of operation of the asset for part of the year, depreciation shall be charged on *pro rata* basis.

12.3 **Operation and Maintenance Expenses**

12.3.1 Existing generating stations

a. The operation and maintenance expenses including insurance, for the existing generating stations which have been in operation for 5 years or more in the base year of 2006-07, shall be derived on the basis of actual operation and maintenance expenses for the years 2001-02 to 2005-06 based on the audited financial statements or best estimates of the generating company as accepted by the Commission in respect of the years for which audited financial statements are not available, excluding abnormal operation and maintenance expenses, if any, after prudence check by the Commission.

b. The average of such normalized operation and maintenance expenses after prudence check, for the years 2001-02 to 2005-06 considered as operation and maintenance expenses for the year 2005-06 shall be escalated by 4% to arrive at operation and maintenance expenses for the base year 2006-07:

Provided that in case, an existing generating station has been in operation for less than five (5) years as at April 1, 2007, the average shall be computed for such shorter period for which such generating station was in operation and such average shall be treated as the operating and maintenance expense for the base year commencing April 1, 2006.

c. The base operation and maintenance expenses for the year 2006-07 shall be escalated further at the rate of 4% per annum to arrive at permissible operation and maintenance expenses for the relevant year of tariff control period.

12.3.2 New generating stations

a. Thermal generating stations

(i) Coal-based generating stations
200/210/250 MW sets : Rs. 11.25 lakh/MW
500 MW sets : Rs. 10.12 lakh/MW

Note:
For the generating stations having combination of 200/210/250 MW sets and 500 MW sets, the weighted average value for operation and maintenance expenses shall be adopted.

(ii)Gas Turbine/Combined Cycle generating stations other than small gas turbine power generating stations
With warranty spares of 10 years : Rs. 5.62 lakh/MW
Without warranty spares : Rs. 8.44 lak Q`Zh/MW

(iii) Small gas turbine power generating stations: Rs. 10.24 lakh/MW
(iv) Lignite-fired generating stations : Rs. 11.25 lakh/MW

The above operation and maintenance expense norms are for the base year commencing April 1, 2006, which shall be escalated at the rate of 4 per cent per annum to arrive at permissible operation and maintenance expenses for the relevant years of tariff Control period.

b. Hydro power generating stations

The base operation and maintenance expenses shall be 1.5 per cent of the approved original cost of the project, in the year of commissioning, and shall be escalated at a rate of 4 per cent per annum for the subsequent years.

12.4 **Estimation of Working Capital -** Requirements of Working Capital for inclusion in the rate base shall be:

a. In case of coal -based/ oil-based/ lignite-fired generating stations, working capital shall cover:

(i) Cost of coal or lignite for one-and-a-half months for pit-head generating stations and two months for non-pit-head generating stations, corresponding to target availability;
(ii) Cost of oil for two months corresponding to target availability;
(iii) Cost of secondary fuel oil for two months corresponding to target availability;
(iv) Operation and Maintenance expenses for one month;
(v) Maintenance spares @ 1 per cent of the historical cost as per indexation of O&M norms ; and
(vi) Receivables for sale of electricity equivalent to two months of the sum of annual fixed charges and energy charges calculated on target availability;

Minus

Payables for fuel (including oil and secondary fuel oil) to the extent of one month of the cost of fuel calculated on target availability.

b. In case of Gas Turbine/Combined Cycle generating stations, working capital shall cover:

(i) Fuel cost for one month corresponding to target availability duly taking into account the mode of operation of the generating station on gas fuel and / or liquid fuel;
(ii) Liquid fuel stock for fifteen (15) days corresponding to target availability;
(iii)Operation and maintenance expenses for one month;
(iv)Maintenance spares at 1 per cent of the historical cost;
(v) and Receivables for sale of electricity equivalent to two months of the sum of annual fixed charges and energy charges calculated on target availability,

minus

Payables for fuel (including liquid fuel stock) to the extent of one month of the cost of fuel calculated on target availability.

c. In case of hydro power generating stations, working capital shall cover:
   (i) Operation and maintenance expenses for one month;
   (ii) Maintenance spares at 1 per cent of the historical cost as per indexation of O&M norms ; and
   (iii)Receivables for sale of electricity equivalent to two months of the annual fixed charges calculated on normative capacity index.

d. In case of own generating stations, no amount shall be allowed towards receivables, to the extent of supply of power by the Generation Business to the Retail Supply Business, in the computation of working capital in accordance with this Regulation.

e. Interest on working capital shall be on normative basis and shall be equal to the short-term Prime Lending Rate of State Bank of India as on the date on which the application for determination of tariff is made.

12.5 **Taxes on Income**

Taxes on Income actually payable and paid shall be limited to Tax on Return on the Equity component of the RoCE, and exclusive of tax on profit, if any, in excess of such return, penalties, interest on delayed payment of tax etc., and duly adjusted for any refund etc. received for previous periods.

12.6 **Other expenditure**

Any other expenditure incurred and not covered in the above items will be considered only on specific approval of the Commission.

13 ENERGY CHARGES

13.1 **Thermal generating stations**

a. Energy charges shall cover fuel costs and shall be worked out on the basis of ex-bus energy sent out corresponding to scheduled generation as per the following formula:

Energy Charges (Rs.) = Rate of Energy Charges in Rs/kWh X Ex-bus energy sent out corresponding to scheduled generation for the month in kWh

Where,

Rate of Energy Charges (REC) shall be the sum of the cost of normative quantities of primary and secondary fuel for one kWh of ex-bus energy sent out corresponding to scheduled generation and shall be computed as under:

$$REC = \frac{100\{P_p \times (Q_p)_n + P_s \times (Q_s)_n\}}{(100-(AUX_n))} \quad \text{(Rs./kWh)}$$

Where,

P_p = Landed cost of primary fuel namely coal or lignite or gas or liquid fuel in Rs/Kg or Rs/cubic-metre (m3) or Rs./litre, as the case may be

$(Q_p)_n$ = Quantity of primary fuel required for generation of one kWh of electricity at generator terminals in Kg or litre or m3, as the case may be, and shall be computed on the basis of normative Gross Station Heat Rate (less heat contributed by secondary fuel oil for coal/lignite based generating stations) and gross calorific value of coal/lignite or gas or liquid fuel as fired.

P_s = Landed cost of Secondary fuel oil in Rs./ml

$(Q_s)_n$ = Normative Quantity of Secondary fuel oil in ml/kWh as per clause 11.1.4, as the case may be, and

AUX_n = Normative Auxiliary Energy Consumption as percentage of gross generation as per clause 11.1.2, as the case may be.

b. Adjustment of rate of energy charge (REC) on account of variation in price or heat value of fuels. Initially, gross calorific value of coal/lignite or gas or liquid fuel shall be taken as per actuals of the preceding three months. Any variation shall be adjusted on month to month basis on the basis of gross calorific value of coal/lignite or gas or liquid fuel received and burnt and landed cost incurred by the Generating Company for procurement of coal/lignite, oil, or gas or liquid fuel, as the case may be. In case of any dispute, an appropriate application in accordance with the Conduct of Business Regulations shall be made before the Commission.

c. Landed Cost of fuel

The landed cost of fuel shall include price of fuel corresponding to the grade/quality of fuel inclusive of royalty, taxes and duties as applicable, transportation cost by rail/ road/ pipeline or any other means, and, for the purpose of calculation of energy charges, shall be arrived at after considering transit losses as per clause 11.1.5

13.2 **Hydro power generating stations**

(1) Rate of primary energy for all hydro electric power generating stations, except for pumped storage generating stations, shall be equal to average of the lowest variable charges of the Central and State thermal power generating stations of the State for all months of the previous year. The primary energy charge shall be computed based on the primary energy rate and scheduled primary energy of the station :

Provided that in case the primary energy charge recoverable by applying the above primary energy rate exceeds the Annual fixed charges of a generating station, the primary energy rate of such generating station shall be calculated by the following formula :

Primary energy rate = Annual Fixed Charge

Primary energy

(2) Primary Energy Charge = Scheduled Primary Energy x Primary Energy Rate.

Secondary Energy Rate shall be equal to the Primary Energy Rate.

Secondary Energy Charge = Scheduled Secondary Energy x Secondary Energy Rate

14 CHARGES FOR UNSCHEDULED INTERCHANGE

14.1 The generating station shall be entitled to receive or shall be required to bear, as the case may be, the charges for deviations between energy sent-out corresponding to scheduled generation and actual energy sent-out, in accordance with the Balancing and Settlement Code notified by the Commission:

Provided that the rate for determination of such charges shall be as notified by the Commission from time to time.

15 INCENTIVE

15.1 **Thermal generating stations**

(a) Target Plant Load Factor for incentive shall be 80%.

(b) Incentive shall be payable at a flat rate of 25.0 paise/kWh for ex-bus scheduled energy corresponding to scheduled generation in excess of ex-bus energy corresponding to target Plant Load Factor.

16 REBATE / LATE PAYMENT SURCHARGE

16.1 For payment of bills through a letter of credit on presentation, the Generating Company and Distribution Licensee may mutually agree to a maximum rebate of 2 per cent of the bill amount. If the payments are made within one week of presentation of the bill, the Generating Company and Distribution Licensee may mutually agree to a maximum rebate of 1.25 per cent of the bill amount.

16.2 In case the payment of bills is delayed beyond a period of two (2) months from the date of billing, a late payment surcharge at the rate of 1.25 per cent per month shall be allowed to be levied by the Generating Company.

17 BILLING AND PAYMENT OF CHARGES

Billing and payment of charges shall be done on a monthly basis.

18 DEMONSTRATION OF DECLARED CAPACITY

18.1 The Generating Company may be required to demonstrate the declared capacity of its generating station as and when required by the State Load Despatch Centre. In the event the Generating Company fails to demonstrate the declared capacity, the fixed

charges due to the Generating Company shall be reduced suitably as a measure of penalty.

18.2 The quantum of penalty for the first mis-declaration during a Control Period for any duration/block in a day shall be the charges corresponding to two days' fixed charges. For the second misdeclaration the penalty shall be equivalent to fixed charges for four days and for subsequent mis-declarations, the penalty shall be multiplied in the same geometrical progression.

18.3 The operating log books of the generating station shall be available for inspection/ review by the Commission.

19 DEEMED GENERATION

19.1 In case of reduced generation by a hydro power generating station on account of certain valid reasons or on account of non-availability of Transmission Licensee's transmission lines or on receipt of backing down instructions from the State Load Despatch Centre resulting in spillage of water, the energy charges on account of such spillage shall be payable to the Generator :

Provided that energy charges on the above account shall not be admissible if the energy generated during the year is equal to or more than the design energy.

PART-IV
MISCELLANEOUS

20 POWER TO AMEND:

The Commission may, at any time add, vary, alter, modify or amend any provisions of this Regulation.

21 SAVINGS

Nothing in this Regulation shall be deemed to limit or otherwise affect the powers of the Commission to make such orders as may be necessary to meet the ends of justice or to prevent abuse of the process of the Commission.

(BY ORDER OF THE COMMISSION)

Hyderabad,
01-09-2008.

G.V. NAGESH,
Commission Secretary

Annexure-III

Fuel Price Adjustment. (FPA) Calculations Formula

FPA = A + B where

A=Fuel Price Adjustment for Secondary Fuel Oil in Paise/KwH sent out.
B=Fuel Price Adjustment for Coal in Paise/KwH sent out.

A =10xSFCn (Pom – Pos)/(100-ACn) and
B=10x[((SHRn {(Pcm/Kcm)-(Pcs/Kcs)}- (SFCn) x {(KomxPcm/Kcm)-(KosxPcs/Kcs)}] /(100-ACn)

where

SFCn	Normative Specific Fuel Consumption in L/kWh
SHRn	Normative Gross Station Heat Rate in KCal/kWh
ACn	Normative Auxiliary Consumption in percentage
Pom	Wtd. Average price of Fuel Oil for the month in Rs./KL
Kom	Wtd Average GCV of Oil fired for the month in KCal/Ltr.
Pos	Base Value of price of Fuel Oil as taken for determination of base energy charges adopted for the month of. .... Rs./KL
Kos	Base value of GCVof Fuel Oil as taken for determination of Base energy Charges for the month of ...KCal/Ltr.
Pcm	Wtd. Average price of landed coal for the month.... Rs/Mt
Kcm	Wtd Average GCV of coal fired at boiler front for the month.... KCal/Kg.
Pcs	Base value of price of Coal as taken for determination of Base energy Charges adopted for the month of .....Rs./Mt.
Kcs	Base value of GCV of Coal as taken for determination of Base energy charges adopted for the month of .....Kcal/Kg.

Fuel Price Adjustment(FPA) in Ps/kWh for the month =(A+B)Ps/Kwh

TARIFF FILING FORMS (HYDRO)

Appendix-I

Checklist of Forms and other information/ documents for tariff filing for Hydro Stations

Form No.	Title of Tariff Filing Forms (Hydro)	Tick
FORM-1	Summary of Tariff Propasal	
FORM-2	Details of type of hydro station, Capacity Index, Primary energy rate	
FORM-3	Salient Features of hydro electric project	
FORM-4	Details of Foreign loans	
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	
FORM-5A	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects	
FORM-5B	Break up of capital Cost	
FORM-5C	Break up of Project Cost for Plant and Equipment	
FORM-5D	Break-up of Construction/Supply/Service packages	
FORM-6	Financial Package upto COD	
FORM-7	Details of Project Specific Loans	
FORM- 8	Details of Allocation of corporate loans to various projects	
FORM-11	Statement of Depreciation	
FORM-12	Calculation of Depreciation Rate	
FORM-13	Calculation of weighted average rate of interest on actual loan	
FORM 13A	Calculation of RoCE	
FORM-14	Working capital	
FORM-15	Draw Down Schedule for Calculation of IDC & Financing Charges	
FORM- 16	Calculation of Operation & Maintenance Expenses	
FORM-17	Details of Operation & Maintenance Expenses	
Other Information/ Documents		
Sl. No.	**Information/Document**	**Tick**
1	Certificate of incorporation, Certificate for Commencing Business, Memorandum of Association & Article of Association (for new station set up by a company making tariff application for the first time to CERC)	
2	Stationwise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures on COD of the station and for the relevant years.	
3	Copies of relevant loan agreements	
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	
5	Copies of the Equity participation agreements and necessary approval for the foreign equity	
6	Copies of the BPSA/PPA with the beneficiaries, if any	
7	Detailed note giving reasons of time and cost over run, if applicable.	
8	Any other relevant information (Please specify)	

Note: Electronic copy in the form of CD/Floppy disc shall also be furnished.

FORM- 1

Summary Sheet

Name of the Company _____

Name of the Power Station : _____

Region **State** **District**

(Rs. in lacs)

S.No.	Particulars		Existing 2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
1	2		3	4	5	6	7	8
1	Depreciation	FORM- 11						
2	Interest on Loan	FORM- 13A						
3	Return on Capital Employed[1]							
4	Advance against Depreciation	FORM- 14						
5	Interest on Working Capital	FORM- 15						
6	O & M Expenses							
	Total							

[1] Details of calculations to be furnished.

Petitioner

FORM-2

Details of COD, Type of hydro station, Capacity Index, Primary energy rate

NAME OF COMPANY:

NAME OF POWER STATION :

Sl. No.	Description		As per CERC norms for tariff period 2004-05 to 2008-09
1	Installed Capacity	MW	
2	Free power to home state	%	
3	Date of commercial operation		
	Unit-1		
	Unit-2		
	Unit-3		
4	Type of Station		
	a) Surface/underground		
	b) Purely ROR/ Pondage/Storage		
	c) Peaking/non-peaking		
	d) No. of hours of peaking		
	e) Overload capacity(MW) & period		
5	Type of excitation		
	a) Rotaing exciters on generator		
	b) Static excitation		
6	Design Energy (Annual)[1]	Gwh	
7	Auxiliary Consumption	%	
8	Transformation losses	%	
9	Saleable Primary Energy	Gwh	
10	Primary Energy Rate	paise/Kwh	
11	Primary Energy Charge	Rs. in crore	
12	Capacity Index		
	Normative value		

[1] Monthwise Design energy figures to be given separately with the petition.

PETITIONER

FORM-3

SALIENT FEATURES OF HYDROELECTRIC PROJECT

NAME OF COMPANY:

NAME OF POWER STATION:

1. Location	
State/Distt.	
River	
2. Diversion Tunnel	
Size, shape	
Length	
3. Dam	
Type	
Maximum dam height	
4. Spillway	
Type	
Crest level of spillway	
5. Reservoir	
Full Reservior Level (FRL)	
Minimum Draw Down Level (MDDL)	
Live storage (MCM)	
6. Desilting Arrangement	
Type	
Number and Size	
Particle size to be removed(mm)	
7. Head Race Tunnel	
Size and type	
Length	
Design discharge(Cumecs)	
8. Surge Shaft	
Type	
Diameter	
Height	
9. Penstock/Pressure shafts	
Type	
Diameter & Length	
10. Power House	
Type	
Installed capacity (No of units x MW)	
Peaking capacity during lean period (MW)	
Type of turbine	
Rated Head(M)	
Rated Discharge(Cumecs)	
11. Tail Race Tunnel	
Diameter, shape	
Length	
Minimum tail water level	
12. Switchyard	
Type of Switch gear	
No. of generator bays	
No. of Bus coupler bays	
No. of line bays	

Note: Specify limitation on generation during specific time period on account of restriction(s) on water use due to irrigation, drinking water, industrial, environmental considerations etc.

PETITIONER

FORM- 4

Details of Foreign loans

(Details only in respect of loans applicable to the project under petition)

Name of the Company _____

Name of the Power Station _____

Exchange Rate at COD _____

Exchange Rate as on 31.03.2006 _____

(Amount in lacs)

Financial Year (Starting from COD)	**Year 1**				**Year 2**				**Year 3 and so on**			
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**
	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs.)	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs.)	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs.)
Currency1[1]												
At the date of Drawl[2]												
Scheduled repayment date of principal												
Scheduled payment date of interest												
At the end of Financial year												
Currency2[1]												
At the date of Drawl[2]												
Scheduled repayment date of principal												
Scheduled payment date of interest												
At the end of Financial year												
Currency3[1] & so on												
At the date of Drawl[2]												
Scheduled repayment date of principal												
Scheduled payment date of interest												
At the end of Financial year												

[1] Name of the currency to be mentioned e.g. US $, DM, etc. etc.

[2] In case of more than one drawl during the year, Exchange rate at the date of each drawl to be given.

FORM-5

Abstract of Admitted Capital Cost for the existing Projects	
Name of the Company : _____	
Name of the Power Station : _____	
Capital cost as admitted by CERC	
Capital cost admitted as on ---------	
(Give reference of the relevant CERC Order with Petition No. & Date)	
Foreign Component, if any (In Million US $ or the relevant Currency)	
Domestic Component (Rs. Cr.)	
Foreign Exchange rate considered for the admitted cost	
Total Capital cost admitted (Rs. Cr)	

PETITIONER

FORM-5A

Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects

Name of the Company : _____

Name of the Power Station : _____

New Projects
Capital Cost Estimates

Board of Director/ Agency approving the project cost estimates:		
Date of approval of the Capital cost estimates:		
	Present Day Cost	**Completed Cost**
Price level of approved estimates	As of End of _____Qtr. Of the year _____	As on Scheduled COD of the Station
Foreign Exchange rate considered for the capital cost estimates		
Capital Cost excluding IDC & FC		
Foreign Component, if any (In Million US $ or the relevant Currency)		
Domestic Component (Rs. Cr.)		
Capital cost excluding IDC & FC (Rs. Cr)		
IDC & FC		
Foreign Component, if any (In Million US $ or the relevant Currency)		
Domestic Component (Rs. Cr.)		
IDC & FC (Rs.Cr.)		
Rate of taxes & duties considered		
Schedule of Commissioning		
COD of Unit-I		
COD of Unit-II		

COD of last Unit		

Note:
1. Copy of approval letter should be enclosed.
2. Details of capital cost are to be furnished as per FORM-5B or 5C as applicable.
3. Details of IDC & Financing Charges are to be furnished as per FORM-16.

PETITIONER

FORM-5B

Break up of Capital cost for hydro power generating station

NAME OF COMPANY:_____

NAME OF POWER STATION:_____

(Rs. in crore)

Sl. No.	Head of works	Original cost as approved by Authority	Cost on COD	Variation	Reasons for variation	Admitted cost
1	2	3	4	5	6	7
1.0	**Infrastructure Works**					
1.1	Preliminary including Development					
1.2	Land					
1.3	Buildings					
1.4	Township					
1.5	Maintenance					
1.6	Tools & Plants					
1.7	Communication					
1.8	Environment & Ecology					
1.9	Losses on stock					
1.10	Receipt & Recoveries					
1.11	Total (Infrastructure works)					
2.0	**Major Civil Works**					
2.1	Dam, Intake & Desilting Chambers					
2.2	HRT, TRT, Surge Shaft & Pressure shafts					
2.3	Power Plant civil works					
2.4	Other civil works (to be specified)					
2.5	Total (Major Civil Works)					
3.0	**Hydro Mechanical equipments**					
4.0	**Plant & Equipment**					
4.1	Initial spares of Plant & Equipment					
4.2	Total (Plant & Equipment)					
5.0	**Taxes and Duties**					
5.1	Custom Duty					
5.2	Other taxes & Duties					
5.3	Total Taxes & Duties					
6.0	**Construction & Pre-commissioning expenses**					
6.1	Erection, testing & commissioning					
6.2	Construction Insurance					
6.3	Site supervision					
6.4	Total (Const. & Pre-commissioning)					
7.0	**Overheads**					
7.1	Establishment					
7.2	Design & Engineering					
7.3	Audit & Accounts					
7.4	Contingency					
7.5	Rehabilitation & Resettlement					
7.6	Total (Overheads)					
8.0	**Capital Cost without IDC & FC**					
9.0	Financing charges (FC)					
10.0	Interest during construction (IDC)					
11.0	**Capital Cost with IDC & FC**					

Note:

1. In case of time and cost over-run of the project, a detailed note giving reasons of such time and cost over run should be bringing out the agency responsible and whether such time and cost over run was beyond the control of the generating company.

PETITIONER

FORM- 5C

Break up of Capital Cost for Plant & Equipment

NAME OF COMPANY:
NAME OF POWER STATION:

(Rs. in crore)

Sl. No.	Head of works	Original Cost as approved by Authority	Cost on COD	Variation	Reasons for variation	Admitted cost
1	2	3	4	5	6	7
1.0	**Generator, turbine & Acessories**					
1.1	Generator package					
1.2	Turbine package					
1.3	Unit control Board					
1.4	C&I package					
1.5	Bus Duct of GT connection					
1.6	Total (Generator, turbine & Acessories)					
2.0	**Auxiliary Electrical Equipment**					
2.1	Step up transformer					
2.2	Unit Auxiliary Transformer					
2.3	Local supply transformer					
2.4	Station transformer					
2.5	SCADA					
2.6	Switchgear, Batteries, DC dist. Board					
2.7	Telecommunication equipment					
2.8	Illumination of Dam, PH and Switchyard					
2.9	Cables & cable facilities, grounding					
2.10	Diesel generating sets					
2.11	Total (Auxiliary Elect. Equipment)					
3.0	**Auxiliary equipment & services for power station**					
3.1	EOT crane					
3.2	Other cranes					
3.3	Electric lifts & elevators					
3.4	Cooling water system					
3.5	Drainage & dewatering system					
3.6	Fire fighting equipment					
3.7	Air conditioning, ventilation and heating					
3.8	Water supply system					
3.9	Oil handling equipment					
3.10	Workshop machines & equipment					
3.11	Total (Auxiliary equipt. & services for PS)					
4.0	Switchyard package					
5.0	Initial spares for all above equipments					
6.0	**Total (Plant & Equipment)**					

PETITIONER

Break-up of Construction/Supply/Service packages **FORM-5D**

Name of the Company : _____

Name of the Power Station : _____

Sl.No.	Name/No. of Construction / Supply / Service Package	Scope of works (in line with head of cost break-ups as applicable)	Whether awarded through ICB/DCB/ Depatmentally/ Deposit Work	No. of bids received	Date of Award	Date of Start of work	Date of Completion of Work	Value of Award[1] in (Rs. Cr.)	Firm or With Escalation in prices	Actual expenditure till the completion or up to COD whichever is earlier(Rs.Cr.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)

[1] If there is any package, which need to be shown in Indian Rupee and foreign currency(ies), the same should be shown separatly alongwith the currency, the exchange rate and the date e.g. Rs.80 Cr+US$50m=Rs.280Cr at US$=Rs40 as on say 4.1.1999.

PETITIONER

FORM- 6

Financial Package upto COD

Name of the Company _____
Name of the Power Station _____
Project Cost as on COD[1] _____
Date of Commercial Operation of the Station[2] _____

(Amount in lacs)

	Financial Package as Approved		Financial Package as on COD		As Admitted on COD	
	Currency and Amount[3]		Currency and Amount[3]		Currency and Amount[3]	
1	2	3	4	5	6	7
Loan-I	US $	200m				
Loan-II						
Loan-III						
and so on						
Equity-						
Foreign						
Domestic						
Total Equity						
Debt : Equity Ratio						

[1] Say US $ 200m + Rs.400 Cr or Rs.1200 Cr including US $200m at an exchange rate of 1US $=Rs.40/-

[2] Date of Commercial Operation means Commercial Operation of the last unit

[3] For example : US $, 200M etc.etc

Petitioner

FORM- 7

Details of Project Specific Loans

Name of the Company _____

Name of the Power Station _____

(Amount in lacs)

Particulars	Package1	Package2	Package3	Package4	Package5	Package6
1	2	3	4	5	6	7
Source of Loan[1]						
Currency[2]						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto 31.03.2004/COD [3,4,5,13,15]						
Interest Type[6]						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest[7]						
Margin, if Floating Interest[8]	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Are there any Caps/Floor[9]						
If above is yes,specify caps/floor						
Moratorium Period[10]						
Moratorium effective from						
Repayment Period[11]						
Repayment effective from						
Repayment Frequency[12]						
Repayment Instalment[13,14]						
Base Exchange Rate[16]						

[1] Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

[2] Currency refers to currency of loan such as US$, DM, Yen,Indian Rupee etc.

[3] Details are to be submitted as on 31.03.2006 for existing assets and as on COD for the remaining assets.

[4] Where the loan has been refinanced, details in the Form is to be given for the loan refinaced. However, the details of the original loan is to be given seperately in the same form.

[5] If the Tariff in the petition is claimed seperately for various units, details in the Form is to be given seperately for all the units in the same form.

[6] Interest type means whether the interest is fixed or floating.

[7] Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.

[8] Margin means the points over and above the floating rate.

[9] At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

[10] Moratorium period refers to the period during which loan servicing liability is not required.

[11] Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

[12] Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

[13] Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayement may also be given seperately

[14] If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be furnished seperately.

[15] In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date may be given.

[16] Base exchange rate means the exchange rate prevailing as on 31.03.2004 for existing assets and as on COD for the remaining assets.

Petitioner

FORM- 8

Details of Allocation of corporate loans to various projects

Name of the Company _____
Name of the Power Station _____

(Amount in lacs)

Particulars	Package1	Package2	Package3	Package4	Package5	Remarks
1	2	3	4	5	6	7
Source of Loan[1]						
Currency[2]						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto 31.03.2004/COD [3,4,5,13,15]						
Interest Type[6]						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest[7]						
Margin, if Floating Interest[8]						
Are there any Caps/Floor[9]	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	
If above is yes,specify caps/floor						
Moratorium Period[10]						
Moratorium effective from						
Repayment Period[11]						
Repayment effective from						
Repayment Frequency[12]						
Repayment Instalment[13,14]						
Base Exchange Rate[16]						
	Distribution of loan packages to various projects					
Name of the Projects						Total
Project 1						
Project 2						
Project 3 and so on						

[1] Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

[2] Currency refers to currency of loan such as US$, DM, Yen,Indian Rupee etc.

[3] Details are to be submitted as on 31.03.2004 for existing assets and as on COD for the remaining assets.

[4] Where the loan has been refinanced, details in the Form is to be given for the loan refinaced. However, the details of the original loan is to be given seperately in the same form.

[5] If the Tariff in the petition is claimed seperately for various units, details in the Form is to be given seperately for all the units in the same form.

[6] Interest type means whether the interest is fixed or floating.

[7] Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.

[8] Margin means the points over and above the floating rate.

[9] At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

[10] Moratorium period refers to the period during which loan servicing liability is not required.

[11] Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

[12] Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

[13] Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayement and its allocation may also be given seperately

[14] If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be furnished seperately.

[15] In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date may be given.

[16] Base exchange rate means the exchange rate prevailing as on 31.03.2004 for existing assets and as on COD for the remaining assets.

Petitioner

FORM- 11

Statement of Depreciation

Name of the Company _____

Name of the Power Station _____

(Amount in lacs)

Financial Year	**Upto 2002-03[1]**	**2003-04**	**2004-05**	**2005-06**	**2006-07**	**2007-08**	**2008-09**	**2009-10**	**2010-11**
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Depreciation on Capital Cost									
Depreciation recovered during the Year									
Advance against Depreciation recovered during the Year									
Depreciation & Advance against Depreciation recovered during the year									
Cumulative Depreciation & Advance against Depreciation recovered upto the year									

[1] If the tariff for the period 2003-06 was not ordered by the Commission, Depreciation recovered in Tariff upto 2002-03 to be furnished with yearwise details in the same form seperately with supporting details.

Petitioner

FORM- 12

Calculation of Depreciation Rate

Name of the Company
Name of the Power Station

(Amount in lacs)

Sl. no.	Name of the Assets[1]	Gross Block as on 31.03.2004 or as on COD, whichever is later	Depreciation Rates as per MOP Depreciation Rate Schedule	Depreciation Amount
	1	2	3	4= Col.2 X Col.3
1	Land			
2	Building			
3	and so on			
4				
5				
6				
7				
8				
9				
10				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
	TOTAL			
	Weighted Average Depreciation Rate (%)			

[1] Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notifcation.

Petitioner

FORM- 13

Calculation of Weighted Average Rate of Interest on Actual Loans[1]

Name of the Company _____

Name of the Power Station _____

(Amount in lacs)

Sl. no.	Particulars	Existing 2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
1	2	3	4	5	6	7	8
	Loan-1						
	Gross loan - Opening						
	Cumulative repayments of Loans upto previous year						
	Net loan - Opening						
	Add: Drawal(s) during the Year						
	Less: Repayment (s) of Loans during the year						
	Net loan - Closing						
	Average Net Loan						
	Rate of Interest on Loan						
	Interest on loan						
	Loan-2						
	Gross loan - Opening						
	Cumulative repayments of Loans upto previous year						
	Net loan - Opening						
	Add: Drawal(s) during the Year						
	Less: Repayment (s) of Loans during the year						
	Net loan - Closing						
	Average Net Loan						
	Rate of Interest on Loan						
	Interest on loan						
	Loan-3 and so on						
	Gross loan - Opening						
	Cumulative repayments of Loans upto previous year						
	Net loan - Opening						
	Add: Drawal(s) during the Year						
	Less: Repayment (s) of Loans during the year						
	Net loan - Closing						
	Average Net Loan						
	Rate of Interest on Loan						
	Interest on loan						
	Total Loan						
	Gross loan - Opening						
	Cumulative repayments of Loans upto previous year						
	Net loan - Opening						
	Add: Drawal(s) during the Year						
	Less: Repayment (s) of Loans during the year						
	Net loan - Closing						
	Average Net Loan						
	Interest on loan						
	Weighted average Rate of Interest on Loans						

[1] In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Orginal currency is also to be furnished seperately in the same form.

Petitioner

PART-I
FORM- 13A

Calculation of Return on Capital Employed

Name of the Company _____
Name of the Power Station _____

(Amount in lacs)

Particulars	Existing 2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
1	2	3	4	5	6	7
Regulated Rate Base[1]						
WACC[1]						
RoCE						

Petitioner

[1] Details to be provided in accordance with Clause 4 of APERC Regulation 5 of 2005

PART-I

FORM- 14

Working Capital

Name of the Company _____

Name of the Power Station _____

(Amount in lacs)

Sl. No.	Particulars	Existing 2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
1	2	3	4	5	6	7	8
1	Cost of Coal/Lignite[1]						
2	Cost of Secondary Fuel Oil[1]						
3	Fuel Cost[2]						
4	Liquid Fuel Stock[2]						
5	O & M expenses						
6	Maintenance Spares						
7	Recievables						
8	Payables for fuel						
	Total Working Capital						

[1]For Coal bsaed/Lignite based generating stations

[2]For Gas Turbine/Combined Cycle generating stations duly taking into account the mode of operation on gas fuel and liquid fuel

Petitioner

FORM- 15

Name of the Company
Name of the Power Station

Draw Down Schedule for Calculation of IDC & Financing Charges

(Amount in Lacs)

Sl. No.	Draw Down Particulars	Quarter 1			Quarter 2			Quarter n (COD)		
		Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee
1	**Loans**									
1.1	**Foreign Loans**									
1.1.1	**Foreign Loan 1**									
	Draw down Amount									
	IDC									
	Financing charges									
1.1.2	**Foreign Loan 2**									
	Draw down Amount									
	IDC									
	Financing charges									
1.1.3	**Foreign Loan 3**									
	Draw down Amount									
	IDC									
	Financing charges									
1.1.4	- -									
	- -									
	- -									
1.1	**Total Foreign Loans**									
	Draw down Amount									
	IDC									
	Financing charges									
1.2	**Indian Loans**									
1.2.1	**Indian Loan 1**									
	Draw down Amount	--	--		--	--		--	--	
	IDC	--	--		--	--		--	--	
	Financing charges	--	--		--	--		--	--	
1.2.2	**Indian Loan 2**									
	Draw down Amount	--	--		--	--		--	--	
	IDC	--	--		--	--		--	--	
	Financing charges	--	--		--	--		--	--	
1.2.3	**Indian Loan 3**									
	Draw down Amount	--	--		--	--		--	--	
	IDC	--	--		--	--		--	--	
	Financing charges	--	--		--	--		--	--	
1.2.4	- -	--	--		--	--		--	--	
	- -	--	--		--	--		--	--	
	- -	--	--		--	--		--	--	
1.2	**Total Indian Loans**									
	Draw down Amount	--	--		--	--		--	--	
	IDC	--	--		--	--		--	--	
	Financing charges	--	--		--	--		--	--	
1	**Total of Loans drawn**									
	IDC									
	Financing charges									
2	**Equity**									
2.1	**Foreign equity drawn**									
2.2	**Indian equity drawn**	--	--		--	--		--	--	
	Total equity deployed									

Note: Drawal of debt and equity shall be on paripassu basis to meet the commissioning schedule. Drawal of higher equity in the beginning is permissible.

Petitioner

FORM-16

Calculation of Operation & Maintenance Expenses

NAME OF THE POWER STATION (Rs lakhs)

							Base	Tariff Period				
	2001-02	2002-03	2003-04	2004-05	2005-06	Average	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
1	2	3	4	5	6	7	9	10	11	12	13	14
O&M data												
(Base O&M on the basis of actual data)												
A) Total O&M Expenses												
B) Abnormal O&M expenses*												
- Over staffing												
- Any Other												
C) Calculation of Base O&M (A-B)												

(PETITIONER)

FORM 17

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

Name of the Company :

Name of the Power Station :

(Rs. In Lacs)

	ITEMS	2001-02	2002-03	2003-04	2004-05	2005-06
	1	2	3	4	5	6
(A)	Breakup of O&M expenses					
1	Consumption of Stores and Spares					
2	Repair and Maintenance					
3	Insurance					
4	Security					
5	Administrarive Expenses					
	- Rent					
	- Electricity Charges					
	- Travelling and conveyance					
	- Telephone, telex and postage					
	- Advertising					
	- Entertainment					
	- Others (Specify items)					
	Sub-Total (Administrative Expenses)					
6	Employee Cost					
	a) Salaries, wages and allowances					
	b) Staff welfare expenses					
	c) Productivity linked incentive					
7	Corporate office expenses allocation					
8	Total (1 to 8)					
	LESS: Recovered , if any					
	Net Expenses					

Notes:

I. The process of allocation of corporate expenses to generating stations should be specified

II. An annual increase in O&M expenses under a given head in excess of 20 percent should be explained

III. The data should be based on audited balance sheets

(B)	Breakup of corporate expenses (Aggregate)					
	- Employee expenses					
	- Repair and maintenance					
	- Training and Recruitment					
	- Communication					
	- Travelling					
	- Security					
	- Rent					
	- Others					
	Total					
(C)	Details of number of Employees					
	I) Executives					
	ii) Non-Executives					
	iii) Skilled					
	iv) Non-Skilled					
	Total					

(PETITIONER)

TARIFF FILING FORMS (THERMAL)

Checklist of Forms and other information/ documents for tariff filing for Thermal Stations

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM- 1	**Summary Sheet**	
FORM-2	Plant Characteristics	
FORM-3	Normative parameters considered for tariff computations	
FORM- 4	Details of Foreign loans	
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	
FORM-5A	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects	
FORM-5B	Break-up of Capital Cost for Coal/Lignite based projects	
FORM-5C	Break-up of Capital Cost for Gas/Liquid fuel based Projects	
FORM-5D	Break-up of Construction/Supply/Service packages	
FORM- 6	Financial Package upto COD	
FORM- 7	Details of Project Specific Loans	
FORM- 8	Details of Allocation of corporate loans to various projects	
FORM- 11	Statement of Depreciation	
FORM- 12	Calculation of Depreciation Rate	
FORM- 13	Calculation of Weighted Average Rate of Interest on Actual Loans1	
FORM- 13A	Calculation of Return on Capital Employed	
FORM- 14	Working Capital	
FORM- 15	Draw Down Schedule for Calculation of IDC & Financing Charges	
FORM-16	CALCULATION OF OPERATION AND MAINTENANCE EXPENSES	
FORM-17	DETAILS OF OPERATION AND MAINTENANCE EXPENSES	
FORM-18	Details/Information to be Submitted in respect of Fuel for Computation of Energy Charges1	
Other Information/ Documents		
Sl. No.	**Information/Document**	**Tick**
1	Certificate of incorporation, Certificate for Commencment of Business, Memorandum of Association, & Articles of Association (For New Station setup by a company making tariff application for the first time to APERC)	
2	Stationwise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures on COD of the Station for the new station & for the relevant years	
3	Copies of relevant loan Agreements	
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	
7	Copies of the BPSA/PPA with the beneficiaries, if any	
8	Detailed note giving reasons of time and cost over run, if applicable.	
9	Any other relevant information, (Please specify)	

Note: Electronic copy in the form of CD/Floppy disc shall also be furnished.

PART-I
FORM- 1

Summary Sheet

Name of the Company _____
Name of the Power Station : _____
Region **State** **District**

(Rs. in lacs)

S.No.	Particulars		Existing 2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
1	2		3	4	5	6	7	8
1.1	Depreciation	FORM- 11						
1.2	Interest on Loan	FORM- 13A						
1.3	Return on Capital Employed[1]							
1.4	Advance against Depreciation	FORM- 14						
1.5	Interest on Working Capital	FORM- 15						
1.6	O & M Expenses							
	Total							
2.Calculation of Rate of Energy Charge(Rs./kWh)[1]								
			During Stablisation		**After Stablisation**			
2.1	Rate of Energy Charge from Primary Fuel (REC)p[2]							
2.2	Rate of Energy Charge from Secondary Fuel (REC)							
2.3	Rate of Energy Charge ex-bus(REC)[3A,3B,3C]							

[1] Details of calculations to be furnished.

[2] If multifuel is used simultaneously, give 2.1 in respect of every fuel individually.

[3A] The rate of energy charge shall be computed for open cycle operation and combined cycle operation separatly in case of gas/liquid fuel fired plants.

[3B] The total energy charge shall be worked out based on ex-bus energy scheduled to be sent out in case of plants covered by ABT, and ex-bus energy sent out in case of plants not covered by ABT, as the case may be.

[3C] Any escalation in fuel cost to be considered for subsequent years or FSA to take care of the escalation.

Petitioner

PART-I
FORM-2

Plant Characteristics

Name of the Company _____

Name of the Power Station _____

Basic characteristics of the plant[1] _____

Special Features of the Plant

Site Specific Features[2] _____

Special Technological Features[3] _____

Environmental Regulation related features[4] _____

Any other special features _____

Fuel Details[5]	Primary Fuel			Secondary Fuel		Alternate Fuels	
Details	**Module number or Unit number**						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	& so on
Installed Capacity (IC)							
Date of Commercial Operation (COD)							
Type of cooling system[6]							
Type of Boiler Feed Pump[7]							

[1] Describe the basic characteristics of the plant e.g. in the case of a coal based plant whehter it is a conventional steam generator or circulating fludized bed combustion generator or sub-critical once through steam generator etc.

[2] Any site specific feature such as Merry-Go-Round, Vicinity to sea, Intake /makeup water systems etc. scrubbers etc. Specify all such features.

[3] Any Special Technological feature like Advanced class FA technology in Gas Turbines, etc.

[4] Environmental regulation related features like FGD, ESP etc.

[5] Coal or natural gas or naptha or lignite etc.

[6] Closed circuit cooling, once through cooling, sea cooling etc.

[7] Motor driven, Steam turbine driven etc.

PETITIONER

PART-I
FORM-3

Normative parameters considered for tariff computations

Name of the Company _____

Name of the Power Station _____

Particulars	Unit	Year Ending March					
		As Existing	As per APERC norms				
		2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
(1)		(2)	(3)	(4)	(5)	(6)	(7)
Rate of Return on Capital Employed	%						
Target Availability	%						
Target PLF	%						
Auxiliary Energy Consumption	%						
Gross Station Heat Rate	kCal/kWh						
Specific Fuel Oil Consumption	ml/kWh						
O&M Cost	Rs.Lakh/MW						
Cost of Coal/Lignite for WC[1]	in Months						
Cost of Secondary Fuel Oil for WC[1]	in Months						
Fuel Cost for WC[2]	in Months						
Liquid Fuel Stock for WC[2]	in Months						
O & M Expenses for WC	in Months						
Maintenance Spares for WC	%						
Recievables for WC	in Months						
Prime lending Rate of SBI as on _____.	%						
Incentive Rate	Paise / kWh						

[1]For Coal bsaed/Lignite based generating stations

[2]For Gas Turbine/Combined Cycle generating stations duly taking into account the mode of operation on gas fuel and liquid fuel

PETITIONER

PART-I
FORM- 4

Details of Foreign loans

(Details only in respect of loans applicable to the project under petition)

Name of the Company _____
Name of the Power Station _____
Exchange Rate at COD _____
Exchange Rate as on 31.03.2006 _____

(Amount in lacs)

Financial Year (Starting from COD)	**Year 1**				**Year 2**				**Year 3 and so on**			
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**
	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs.)	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs.)	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs.)
Currency1[1]												
At the date of Drawl[2]												
Scheduled repayment date of principal												
Scheduled payment date of interest												
At the end of Financial year												
Currency2[1]												
At the date of Drawl[2]												
Scheduled repayment date of principal												
Scheduled payment date of interest												
At the end of Financial year												
Currency3[1] **& so on**												
At the date of Drawl[2]												
Scheduled repayment date of principal												
Scheduled payment date of interest												
At the end of Financial year												

[1] Name of the currency to be mentioned e.g. US $, DM, etc. etc.

[2] In case of more than one drawl during the year, Exchange rate at the date of each drawl to be given.

Petitioner

PART-I
FORM-5

Abstract of Admitted Capital Cost for the existing Projects

Name of the Company : _____

Name of the Power Station : _____

Capital Cost as admitted by CERC	
Capital cost admitted as on_____	
(Give reference of the relevant CERC Order with Petition No. & Date)	
Foreign Component, if any (In Million US $ or the relevant Currency)	
Domestic Component (Rs. Cr.)	
Foreign Exchange rate considered for the admitted Capital cost	
Total Capital cost admitted (Rs. Cr)	

PETITIONER

PART-I
FORM-5A

Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects

Name of the Company : _____

Name of the Power Station : _____

New Projects
Capital Cost Estimates

Board of Director/ Agency approving the Capital cost estimates:		
Date of approval of the Capital cost estimates:		
	Present Day Cost	**Completed Cost**
Price level of approved estimates	As of End of _____Qtr. Of the year _____	As on Scheduled COD of the Station
Foreign Exchange rate considered for theCapital cost estimates		
Capital Cost excluding IDC & FC		
Foreign Component, if any (In Million US $ or the relevant Currency)		
Domestic Component (Rs. Cr.)		
Capital cost excluding IDC & FC (Rs. Cr)		
IDC & FC		
Foreign Component, if any (In Million US $ or the relevant Currency)		
Domestic Component (Rs. Cr.)		
Total IDC & FC (Rs.Cr.)		
Rate of taxes & duties considered		
Capital cost Including IDC & FC		
Foreign Component, if any (In Million US $ or the relevant Currency)		
Domestic Component (Rs. Cr.)		
Capital cost Including IDC & FC (Rs. Cr)		
Schedule of Commissioning		
COD of Unit-I/Block-I		
COD of Unit-II/Block-II		

COD of last Unit/Block		

Note:
1. Copy of approval letter should be enclosed.
2. Details of Capital cost are to be furnished as per FORM-5B or 5C as applicable.
3. Details of IDC & Financing Charges are to be furnished as per FORM-16.

PETITIONER

PART-I
FORM-5B

Break-up of Capital Cost for Coal/Lignite based projects

Name of the Company :

Name of the Power Station :

Sl.No.	Break Down	Cost in Rs. Crores		Variation (Rs. Cr.)	Reasons for Variation	Admitted Cost (Rs. Cr.)
		As per original Estimates	As on COD			
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.0	**Cost of Land & Site Development**					
1.1	Land					
1.2	Rehabitation & Resettlement (R&R)					
1.3	Preliminary Investigation & Site development					
	Total Land & Site Development					
2.0	**Plant & Equipment**					
2.1	**Steam Generator Island**					
2.2	**Turbine Generator Island**					
2.3	**BOP Mechanical**					
2.3.1	External water supply system					
2.3.2	CW system					
2.3.3	DM water Plant					
2.3.4	Clarification plant					
2.3.5	Chlorination Plant					
2.3.6	Fuel Handling & Storage system					
2.3.7	Ash Handling System					
2.3.8	Coal Handling Plant					
2.3.9	Rolling Stock and Locomotives					
2.3.10	MGR					
2.3.11	Air Compressor System					
2.3.12	Air Condition & Ventilation System					
2.3.13	Fire fighting System					
2.3.14	HP/LP Piping					
	Total BOP Mechanical					
2.4	**BOP Electrical**					
2.4.1	Switch Yard Package					
2.4.2	Transformers Package					
2.4.3	Switch gear Package					
2.4.4	Cables , Cable facilities & grounding					
2.4.5	Lighting					
2.4.6	Emergency D.G. set					
	Total BOP Electrical					
2.5	**C & I Package**					
	Total Plant & Equipment excluding taxes & Duties					
2.60	**Taxes and Duties**					
2.6.1	Custom Duty					
2.6.2	Other Taxes & Duties					
	Total Taxes & Duties					
	Total Plant & Equipment					
3.0	**Initial spares**					
4.0	**Civil Works**					
4.1	Main plant/Adm. Building					
4.2	CW system					
4.3	Cooling Towers					
4.4	DM water Plant					
4.5	Clarification plant					
4.6	chlorination plant					
4.7	Fuel Handling & Storage system					
4.8	Coal Handling Plant					
4.9	MGR & Marshalling Yard					
4.10	Ash Handling System					
4.11	Ash disposal area development					
4.12	Fire fighting System					
4.13	Township & Colony					
4.14	Temp. construction & enabling works					
4.15	Road & Drainage					
	Total Civil works					
5.0	**Construction & Pre- Commissioning Expences**					
5.1	Erection Testing and commissioning					
5.2	Site supervision					
5.3	Operator's Training					
5.4	Construction Insurance					
5.5	Tools & Plant					
5.6	Start up fuel					
	Total Construction & Pre- Commissioning Expences					
6.0	**Overheads**					
6.1	Establishment					
6.2	Design & Engineering					
6.3	Audit & Accounts					
6.4	Contingency					
	Total Overheads					
7.0	**Capital cost excluding IDC & FC**					
7.1	Interest During Construction (IDC)					
7.2	Financing Charges (FC)					
8.0	**Capital cost including IDC & FC**					

Note:

1. In case of time & Cost over run, a detailed note giving reasons of such time and cost over run should be submitted clearly bring out the agency responsible and whether such time & cost over run was beyond the control of the generating company.

PETITIONER

PART-I
FORM-5C

Break-up of Capital Cost for Gas/Liquid fuel based Projects

f the Company : _____

he Power Station : _____

Sl.No.	Break Down	Cost in Rs. Crores		Variation(Rs. Cr.)	Reasons for Variation	Admitted Cost (Rs. Cr.)
		As per original Estimates	As on COD			
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.0	**Cost of Land & Site Development**					
1.1	Land					
1.2	Rehabilitation & Resettlement (R&R)					
1.3	Preliminary Investigation & Site development					
	Total Land & Site Development					
2.0	**Plant & Equipment**					
2.1	**Steam Turbine generator Island**					
2.2	**Turbine Generator Island**					
2.3	**WHRB Island**					
2.4	**BOP Mechanical**					
2.4.1	Fuel Handling & Storage system					
2.4.2	External water supply system					
2.4.3	CW system					
2.4.4	Cooling Towers					
2.4.5	DM water Plant					
2.4.6	Clarification plant					
2.4.7	Chlorination Plant					
2.4.8	Air condition & Ventilation System					
2.4.9	Fire Fighting system					
2.4.10	HP/LP Piping					
	Total BOP Mechanical					
2.5	**BOP Electrical**					
2.5.1	Switch Yard Package					
2.5.2	Transformers package					
2.5.3	Switch gear Package					
2.5.4	Cable , Cable Facilities & grounding					
2.5.5	Lighting					
2.5.6	Emergency D.G. set					
	Total BOP Electrical					
2.6	**C & I Package**					
	Total Plant & Equipment excluding taxes & Duties					
2.7	**Taxes and Duties**					
2.7.1	Custom Duty					
2.7.2	Other Taxes & Duties					
	Total Taxes & Duties					
	Total Plant & Equipment					
3.0	**Initial spares**					
4.0	**Civil Works**					
4.1	Main plant/Adm. Building					
4.2	External water supply system					
4.3	CW system					
4.4	Cooling Towers					
4.5	DM water Plant					
4.6	Clarification plant					
4.7	Fuel Handling & Storage system					
4.8	Township & Colony					
4.9	Temp. construction & enabling works					
4.10	Road & Drainage					
4.11	Fire Fighting system					
	Total Civil works					
5.0	**Construction & Pre- Commissioning Expences**					
5.1	Erection Testing and commissioning					
5.2	Site supervision					
5.3	Operator's Training					
5.4	Construction Insurance					
5.5	Tools & Plant					
5.6	Start up fuel					
	Total Construction & Pre- Commissioning Expences					
6.0	**Overheads**					
6.1	Establishment					
6.2	Design & Engineering					
6.3	Audit & Accounts					
6.4	Contingency					
	Total Overheads					
7.0	**Capital cost excluding IDC & FC**					
7.1	Interest During Construction (IDC)					
7.2	Financing Charges (FC)					
8.0	**Capital cost including IDC & FC**					

Note:
1. In case of time & Cost over run, a detailed note giving reasons of such time and cost over run should be submitted clearly bring out the agency responsible and whether such time & cost over run was beyond the control of the generating company.

PETITIONER

PART-I
FORM-5D

Break-up of Construction/Supply/Service packages

Name of the Company : _____

Name of the Power Station : _____

Sl.No.	Name/No. of Construction / Supply / Service Package	Scope of works[1] (in line with head of cost break-ups as applicable)	Whether awarded through ICB/DCB/ Depatmentally/ Deposit Work	No. of bids received	Date of Award	Date of Start of work	Date of Completion of Work	Value of Award[2] in (Rs. Cr.)	Firm or With Escalation in prices	Actual expenditure till the completion or up to COD whichever is earlier(Rs.Cr.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)

[1] The scope of work in any package should be indicated in conformity of Capital cost break-up for the coal/lignite based plants in the FORM-5B to the extent possible. In case of Gas/Liquid fuel based projects, break down in the similar manner in the relevent heads as per FORM-5C.

[2] If there is any package, which need to be shown in Indian Rupee and foreign currency(ies), the same should be shown separatly alongwith the currency, the exchange rate and the date e.g. Rs.80 Cr+US$50m=Rs.280Cr at US$=Rs40 as on say 4.1.1999.

PETITIONER

PART-I
FORM- 6

Financial Package upto COD

Name of the Company _____
Name of the Power Station _____
Project Cost as on COD[1] _____
Date of Commercial Operation of the Station[2] _____

(Amount in lacs)

	Financial Package as Approved Currency and Amount[3]		Financial Package as on COD Currency and Amount[3]		As Admitted on COD Currency and Amount[3]	
1	2	3	4	5	6	7
Loan-I	US $	200m				
Loan-II						
Loan-III						
and so on						
Equity-						
Foreign						
Domestic						
Total Equity						
Debt : Equity Ratio						

[1] Say US $ 200m + Rs.400 Cr or Rs.1200 Cr including US $200m at an exchange rate of 1US $=Rs.40/-
[2] Date of Commercial Operation means Commercial Operation of the last unit
[3] For example : US $, 200M etc.etc

Petitioner

PART-I
FORM- 7

Details of Project Specific Loans

Name of the Company _____
Name of the Power Station _____

(Amount in lacs)

Particulars	Package1	Package2	Package3	Package4	Package5	Package6
1	2	3	4	5	6	7
Source of Loan[1]						
Currency[2]						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto 31.03.2004/COD [3,4,5,13,15]						
Interest Type[6]						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest[7]						
Margin, if Floating Interest[8]	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Are there any Caps/Floor[9]						
If above is yes,specify caps/floor						
Moratorium Period[10]						
Moratorium effective from						
Repayment Period[11]						
Repayment effective from						
Repayment Frequency[12]						
Repayment Instalment[13,14]						
Base Exchange Rate[16]						

[1] Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

[2] Currency refers to currency of loan such as US$, DM, Yen,Indian Rupee etc.

[3] Details are to be submitted as on 31.03.2004 for existing assets and as on COD for the remaining assets.

[4] Where the loan has been refinanced, details in the Form is to be given for the loan refinaced. However, the details of the original loan is to be given seperately in the same form.

[5] If the Tariff in the petition is claimed seperately for various units, details in the Form is to be given seperately for all the units in the same form.

[6] Interest type means whether the interest is fixed or floating.

[7] Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.

[8] Margin means the points over and above the floating rate.

[9] At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

[10] Moratorium period refers to the period during which loan servicing liability is not required.

[11] Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

[12] Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

[13] Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayement may also be given seperately

[14] If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be furnished seperately.

[15] In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date may be given.

[16] Base exchange rate means the exchange rate prevailing as on 31.03.2006 for existing assets and as on COD for the remaining assets.

Petitioner

PART-I

FORM- 8

Details of Allocation of corporate loans to various projects

Name of the Company _____

Name of the Power Station _____

(Amount in lacs)

Particulars	Package1	Package2	Package3	Package4	Package5	Remarks
1	2	3	4	5	6	7
Source of Loan[1]						
Currency[2]						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto 31.03.2004/COD [3,4,5,13,15]						
Interest Type[6]						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest[7]						
Margin, if Floating Interest[8]						
Are there any Caps/Floor[9]	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	
If above is yes,specify caps/floor						
Moratorium Period[10]						
Moratorium effective from						
Repayment Period[11]						
Repayment effective from						
Repayment Frequency[12]						
Repayment Instalment[13,14]						
Base Exchange Rate[16]						
	Distribution of loan packages to various projects					
Name of the Projects						Total
Project 1						
Project 2						
Project 3 and so on						

[1] Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

[2] Currency refers to currency of loan such as US$, DM, Yen,Indian Rupee etc.

[3] Details are to be submitted as on 31.03.2006 for existing assets and as on COD for the remaining assets.

[4] Where the loan has been refinanced, details in the Form is to be given for the loan refinaced. However, the details of the original loan is to be given seperately in the same form.

[5] If the Tariff in the petition is claimed seperately for various units, details in the Form is to be given seperately for all the units in the same form.

[6] Interest type means whether the interest is fixed or floating.

[7] Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.

[8] Margin means the points over and above the floating rate.

[9] At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

[10] Moratorium period refers to the period during which loan servicing liability is not required.

[11] Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

[12] Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

[13] Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayement and its allocation may also be given seperately

[14] If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be furnished seperately.

[15] In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date may be given.

[16] Base exchange rate means the exchange rate prevailing as on 31.03.2004 for existing assets and as on COD for the remaining assets.

Petitioner

PART-I
FORM- 11

Statement of Depreciation

Name of the Company _____
Name of the Power Station _____

(Amount in lacs)

Financial Year	**Upto 2002-03[1]**	**2003-04**	**2004-05**	**2005-06**	**2006-07**	**2007-08**	**2008-09**	**2009-10**	**2010-11**
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Depreciation on Capital Cost									
Depreciation recovered during the Year									
Depreciation & Advance against Depreciation recovered during the year									
Cumulative Depreciation & Advance against Depreciation recovered upto the year									

[1] If the tariff for the period 2003-06 was not ordered by the Commission, Depreciation recovered in Tariff upto 2002-03 to be furnished with yearwise details in the same form seperately with supporting details.

Petitioner

PART-I
FORM- 12

Calculation of Depreciation Rate

Name of the Company
Name of the Power Station

(Amount in lacs)

Sl. no.	Name of the Assets[1]	Gross Block as on 31.03.2006 or as on COD, whichever is later	Depreciation Rates as per MOP Depreciation Rate Schedule	Depreciation Amount
	1	2	3	4= Col.2 X Col.3
1	Land			
2	Building			
3	and so on			
4				
5				
6				
7				
8				
9				
10				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
	TOTAL			
	Weighted Average Depreciation Rate (%)			

[1] Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notifcation.

Petitioner

PART-I
FORM- 13

Calculation of Weighted Average Rate of Interest on Actual Loans[1]

Name of the Company _____
Name of the Power Station _____

(Amount in lacs)

Sl. no.	Particulars	Existing 2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
1	2	3	4	5	6	7	8
	Loan-1						
	Gross loan - Opening						
	Cumulative repayments of Loans upto previous year						
	Net loan - Opening						
	Add: Drawal(s) during the Year						
	Less: Repayment (s) of Loans during the year						
	Net loan - Closing						
	Average Net Loan						
	Rate of Interest on Loan						
	Interest on loan						
	Loan-2						
	Gross loan - Opening						
	Cumulative repayments of Loans upto previous year						
	Net loan - Opening						
	Add: Drawal(s) during the Year						
	Less: Repayment (s) of Loans during the year						
	Net loan - Closing						
	Average Net Loan						
	Rate of Interest on Loan						
	Interest on loan						
	Loan-3 and so on						
	Gross loan - Opening						
	Cumulative repayments of Loans upto previous year						
	Net loan - Opening						
	Add: Drawal(s) during the Year						
	Less: Repayment (s) of Loans during the year						
	Net loan - Closing						
	Average Net Loan						
	Rate of Interest on Loan						
	Interest on loan						
	Total Loan						
	Gross loan - Opening						
	Cumulative repayments of Loans upto previous year						
	Net loan - Opening						
	Add: Drawal(s) during the Year						
	Less: Repayment (s) of Loans during the year						
	Net loan - Closing						
	Average Net Loan						
	Interest on loan						
	Weighted average Rate of Interest on Loans						

[1] In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Orginal currency is also to be furnished seperately in the same form.

Petitioner

PART-I
FORM- 13A

Calculation of Return on Capital Employed

Name of the Company _____
Name of the Power Station _____

(Amount in lacs)

Particulars	Existing 2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
1	2	3	4	5	6	7
Regulated Rate Base[1]						
WACC[1]						
RoCE						

Petitioner

[1] Details to be provided in accordance with Clause 4 of APERC Regulation 5 of 2005

PART-I

FORM- 14

Working Capital

Name of the Company _____

Name of the Power Station _____

(Amount in lacs)

Sl. No.	Particulars	Existing 2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
1	2	3	4	5	6	7	8
1	Cost of Coal/Lignite[1]						
2	Cost of Secondary Fuel Oil[1]						
3	Fuel Cost[2]						
4	Liquid Fuel Stock[2]						
5	O & M expenses						
6	Maintenance Spares						
7	Recievables						
8	Payables for fuel						
	Total Working Capital						

[1]For Coal bsaed/Lignite based generating stations

[2]For Gas Turbine/Combined Cycle generating stations duly taking into account the mode of operation on gas fuel and liquid fuel

Petitioner

PART-I
FORM- 15

Name of the Company
Name of the Power Station

Draw Down Schedule for Calculation of IDC & Financing Charges

(Amount in Lacs)

Sl. No.	Draw Down Particulars	Quarter 1 Quantum in Foreign currency	Quarter 1 Exchange Rate on draw down date	Quarter 1 Amount in Indian Rupee	Quarter 2 Quantum in Foreign currency	Quarter 2 Exchange Rate on draw down date	Quarter 2 Amount in Indian Rupee	Quarter n (COD) Quantum in Foreign currency	Quarter n (COD) Exchange Rate on draw down date	Quarter n (COD) Amount in Indian Rupee
1	**Loans**									
1.1	**Foreign Loans**									
1.1.1	**Foreign Loan 1**									
	Draw down Amount									
	IDC									
	Financing charges									
1.1.2	**Foreign Loan 2**									
	Draw down Amount									
	IDC									
	Financing charges									
1.1.3	**Foreign Loan 3**									
	Draw down Amount									
	IDC									
	Financing charges									
1.1.4	- -									
	- -									
	- -									
1.1	**Total Foreign Loans**									
	Draw down Amount									
	IDC									
	Financing charges									
1.2	**Indian Loans**									
1.2.1	**Indian Loan 1**									
	Draw down Amount	--	--		--	--		--	--	
	IDC	--	--		--	--		--	--	
	Financing charges	--	--		--	--		--	--	
1.2.2	**Indian Loan 2**									
	Draw down Amount	--	--		--	--		--	--	
	IDC	--	--		--	--		--	--	
	Financing charges	--	--		--	--		--	--	
1.2.3	**Indian Loan 3**									
	Draw down Amount	--	--		--	--		--	--	
	IDC	--	--		--	--		--	--	
	Financing charges	--	--		--	--		--	--	
1.2.4	- -	--	--		--	--		--	--	
	- -	--	--		--	--		--	--	
	- -	--	--		--	--		--	--	
1.2	**Total Indian Loans**									
	Draw down Amount	--	--		--	--		--	--	
	IDC	--	--		--	--		--	--	
	Financing charges	--	--		--	--		--	--	
1	**Total of Loans drawn**									
	IDC									
	Financing charges									
2	**Equity**									
2.1	**Foreign equity drawn**									
2.2	**Indian equity drawn**	--	--		--	--		--	--	
	Total equity deployed									

Note: Drawal of debt and equity shall be on paripassu basis to meet the commissioning schedule. Drawal of higher equity in the beginning is permissible.

PART-I
FORM-16

Calculation of Operation & Maintenance Expenses

NAME OF THE POWER STATION

(Rs lakhs)

							Base	Tariff Period				
	2001-02	2002-03	2003-04	2004-05	2005-06	Average	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
1	2	3	4	5	6	7	9	10	11	12	13	14
O&M data												
(Base O&M on the basis of actual data)												
A) Total O&M Expenses												
B) Abnormal O&M expenses*												
- Over staffing												
- Any Other												
C) Calculation of Base O&M (A-B)												

(PETITIONER)

PART-I

Details of Operation & Maintenance Expenses

FORM-17

NAME OF THE POWER STATION

(Rs. In Lacs)

	ITEMS[2]	2001-02	2002-03	2003-04	2004-05	2005-06
	1	2	3	4	5	6
(A)	Breakup of O&M expenses					
1	Consumption of Stores and Spares					
2	Repair and Maintenance					
3	Insurance					
4	Security					
5	Administrarive Expenses					
	-Water Charges					
	- Rent					
	- Electricity Charges					
	- Travelling and conveyance					
	- Telephone, telex and postage					
	- Advertising					
	- Entertainment					
	-Donation					
	- Others (Specify items)					
	Sub-Total (Administrative Expenses)					
6	Employee Cost					
	a) Salaries, wages and allowances					
	b) Staff welfare expenses					
	c) Productivity linked incentive					
7	Corporate office expenses allocation					
8	Total (1 to 8)					
	LESS: Recovered , if any					
	Net Expenses					

Notes:

I. The process of allocation of corporate expenses to generating stations should be specified

II. An annual increase in O&M expenses under a given head in excess of 20 percent should be explained

III. The data should be based on audited balance sheets

(B)	Breakup of corporate expenses (Aggregate)					
	- Employee expenses					
	- Repair and maintenance					
	- Training and Recruitment					
	- Communication					
	- Travelling					
	- Security					
	- Rent					
	- Others (Specify items)					
	Total					
(C)	Details of number of Employees					
	I) Executives					
	ii) Non-Executives					
	iii) Skilled					
	iv) Non-Skilled					
	Total					

(PETITIONER)

PART-I
FORM-18

Details/Information to be Submitted in respect of Fuel for Computation of Energy Charges[1]

Name of the Company _____

Name of the Power Station _____

Sl. No.	Month	Unit	For preceeding 3rd Month	For preceeding 2nd Month	For preceeding 1st Month
1	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MMT)			
2	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)			
3	Coal supplied by Coal/Lignite Company (1+2)	(MMT)			
4	Normative Transit & Handling Losses (For coal/Lignit based Projects)	(MMT)			
5	Net coal / Lignite Supplied (3-4)	(MMT)			
6	Amount charged by the Coal /Lignite Company	(Rs.)			
7	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)			
8	Total amount Charged (6+7)	(Rs.)			
9	Transportation charges by rail/ship/road transport	(Rs.)			
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)			
11	Demurrage Charges, if any	(Rs.)			
12	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)			
13	Total Transportation Charges (9+/-10-11+12)	(Rs.)			
14	Total amount Charged for coal/lignite supplied including Transportation (8+13)	(Rs.)			
15	Weighted average GCV of coal/ Lignite as fired	(kCal/Kg)			

Note:
[1] Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants

PETITIONER

ANNEXURE-I
BEFORE THE HONOURABLE ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION
AT IT'S OFFICE AT 5th FLOOR, SINGARENI BHAVAN, RED HILLS, HYDERABAD

FILING NO._____/200.....
CASE NO. _____/200...

In the matter of:

Filing for 'Determination of Tariff for supply of Electricity by a Generating Company to and purchase of Electricity by Distribution Licensees' for the financial year 200...-20... and Multi-Year ARR and Tariff Framework (MYF) for the First Control Period (FY ....., FY ..... and FY .....) for its Generation and Sale of Electricity under Section ..... of the Andhra Pradesh Electricity Reform Act, 1998 (hereinafter referred to as 'the Act') and under Part VII (Section 61 to Section 64) of the Electricity Act, 2003 read with the relevant APERC Guidelines and Regulations till date, by the .....*(name of the generation company/Trader etc.,)*

In the matter of:

Name of the Generation Company / Trader etc.,.....

... Applicant

AFFIDAVIT OF APPLICANT VERIFYING THE APPLICATION ACCOMPANYING FILING OF AGGREGATE REVENUE REQUIREMENTS

I, ..., (Name of the CMD) S/D/O Shri ....., working for gain at the .....(Name of the generating company) do solemnly affirm and say as follows:

a) I am the Chairperson and Managing Director of (name of the generation company/ Trader etc.,) a licensee company in the business of generating electricity and selling it to the distribution licensees in Andhra Pradesh. I am competent and duly authorized by. .....(Name of the generating company/ Trader etc.,) to affirm, swear, execute and file this affidavit in the present proceedings.

b) I have read and understood the contents of the accompanying filing of proposals for **'Determination of Tariff for supply of Electricity by .....(*Name of Generating Company / Trader etc)* to and purchase of Electricity by Distribution Licensees'**. The statements made in the paragraphs of the accompanying application now shown to me are true to my knowledge derived from the official records made available to me and are based on information and advice received which I believe to be true and correct.

DEPONENT

VERIFICATION:

I, the above named Deponent solemnly affirm at Hyderabad on this ..... **day of ..... (Month), ...(Year)** that the contents of the above affidavit are true to my knowledge, no part of it is false and nothing material has been concealed there from.

DEPONENT

BEFORE THE HONOURABLE ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION
AT IT'S OFFICE AT 5th FLOOR, SINGARENI BHAVAN, RED HILLS, HYDERABAD

FILING NO._____/20.....
CASE NO. _____/20.....

In the matter of:

Filing for 'Determination of Tariff for supply of Electricity by a Generating Company to and purchase of Electricity by Distribution Licensees' for the financial year 200...-20... and Multi-Year ARR and Tariff Framework (MYF) for the First Control Period (FY ....., FY ..... and FY .....) for its Generation and Sale of Electricity business under Section ..... of the Andhra Pradesh Electricity Reform Act, 1998 (hereinafter referred to as 'the Act') and under Part VII (Section 61 to Section 64) of the Electricity Act, 2003 read with the relevant APERC Guidelines and Regulations as on date, by the .....*(name of the generation company / Trader etc).*

In the matter of:

Name of the Generation Company / Trader etc,.....

... Applicant

The Applicant respectfully submits as under: -

I) Name and Address of the Applicant

II) Primary Business of the Applicant (Power Generation/Retail Supply of power/power trading)

III) Details of Distribution Licensee purchasing power (Name, location, license details etc.,)

P.T.O.

IV) Details of Generating Company/Trader etc selling power (Name, location, company details etc.,)

V) Name and location of the Generating station for which Tariff is to be determined, indicating the following details (If more than one to be submitted separately for each Generating Station)

a. Name/Location of the generating station.

b. Total existing unit-wise installed capacity and proposed unit-wise capacity in MW.

c. Nature of generation plant (Thermal/Hydro/Gas)

d. Type of primary and secondary fuel.

e. Date/Expected date of commercial operation of existing and proposed units.

f. OCFA of the existing units and proposed capital cost of the new units.

g. Details of project loans for proposed units.

h. Year-wise Interest During Construction (Rs.Crores).

i. Estimated Annual Fixed Costs (Rs.Crores).

j. Estimated variable cost/Unit (Rs/kWh).

VI) Details of fee paid to the Commission. (Amount and Demand draft No. & Date).

VII) Any other relevant information that is reasonable necessary to be informed to the Commission.

Pursuant to the applicable provisions of the Andhra Pradesh Electricity Reform Act, 1998, the Government of Andhra Pradesh undertook the reform and restructuring of the erstwhile Andhra Pradesh State Electricity Board ('APSEB'). APGenco was formed as a successor entity of the erstwhile APSEB

Contd..P

through the First statutory transfer scheme notified in the official gazette on February 1, 1999 to manage the Generation business of erstwhile APSEB.

2. This filing for 'Determination of Tariff for supply of Electricity by a Generating Company to and purchase of Electricity by Distribution Licensees' is in accordance with the provisions of the Reform Act, the Electricity Act 2003 and the Guidelines and Regulations issued by the Honorable Commission till date.

3. .....(Name of the Generating Company / Trader etc) has filed herein the proposals for 'Determination of Tariff for supply of Electricity by the Generating Company to and purchase of Electricity by Distribution Licensees' for FY ..... (w.e.f. .....DD/Month/Year), FY ....., FY ..... And FY .....

4. While filing the present tariff proposals, ...(Name of the Generating Company / Trader etc) has endeavored to comply with the various applicable legal and regulatory directions and stipulations including the directions of the Hon"ble Commission in the Business Rules of the Commission, the Guidelines and the recent Regulations on Terms and Conditions for 'Determination of Tariff for supply of Electricity by the Generating Company to and purchase of Electricity by Distribution Licensees' (Regulation No. .....of 2007) dated ....., 2007.

5. Based on the information available, the applicant has made bonafide efforts to comply with the directions of the Hon"ble Commission and discharge its obligations to the best of its abilities. However, should any further material become available in the near future, the Applicant reserves the right to file such additional information and consequently amend/revise the application.

6. The current 'Generation Tariff Proposal petition' being filed has been discussed and approved by the Board of Directors of. .....(Name of the Generating Company / Trader etc) and Sri/Smt. ....., (Name of the Chairperson and Managing Director) has been authorized to execute and file the said Petition on behalf of. .....(Name of the Generating Company / Trader etc). Accordingly, the current petition is signed and verified by, and backed by the affidavit of Sri/Smt. ....., (Name of the Chairperson and Managing Director), Chairperson and Managing Director.

7. In the aforesaid facts and circumstances, the Applicant requests that the Hon"ble Commission:

(a) Take the accompanying Petition of .....(Name of the Generating Company) on record;

(b) Grant suitable opportunity to .....(Name of the Generating Company / Trader etc) within a reasonable time frame to file additional material information if any;

(c) Grant the waivers prayed for with respect to such filing requirements, as. .....(Name of the Generating Company / Trader etc) is unable to comply with at this stage, as more specifically detailed and for the reasons set out in the present tariff proposals filings

(d) Treat the filing as complete in view of substantial compliance as also the specific requests for waivers with justification placed on record;

(e) Consider and approve .....(name of the company)'s tariff proposals, including all requested regulatory treatments in the filing;

(f) Pass such order, as the Hon"ble Commission may deem fit and proper in the facts and circumstances of the case.

.....(Name of the Generating Company / Trader etc)

(APPLICANT)

Through

SRI/SMT. .....
CHAIRPERSON AND MANAGING DIRECTOR

Place: .....
Dated: .....(Month), ...(date), 20.....

ANNEXURE-II

BEFORE THE HONOURABLE ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION AT IT'S OFFICE AT 5th FLOOR, SINGARENI BHAVAN, RED HILLS, HYDERABAD

PUBLIC NOTICE

Notice is hereby given to all that .....(Name of the Generating Company, Trader etc.), a company in the business of generation of electricity has submitted the filings for 'Determination of Tariff for supply of Electricity for the control period, from_____to_____, by ..... (Name of the Generating Company) to and purchase of Electricity by Distribution Licensees', as per the APERC Regulation No:..... /2007 (Determination of Tariff for supply of Electricity by a Generating Company to and purchase of Electricity by Distribution Licensees), on .....(DD/M/YR). These filings are taken on record by the Hon"ble Commission in OP No:.....

2. Copies of the filings and application of .....(Name of the Generating Company, Trader etc.) referred to in the 1st Para above are available at .....(indicate the clear 'name of officer & address). A set of these filings can be obtained from the above offices from .....(DD/Month/Year) onwards on payment of Rs.....* Also a summary of Tariff filings in English or Telugu can be separately obtained on payment of Rs...../-*.

Continued...//2//

* Not to exceed the normal cost of photo copying and the cost of postage, if any.

3. Interested persons may inspect/peruse the said proposals and take note thereof during office hours at any of the said offices free of charge. These proposals are also available on Company's website, www.....

4. The tariffs proposed are indicated in the Schedule appended.

5. Objections or suggestions if any on tariffs proposed by .....(Name of the Generating Company, Trader etc.), together with supporting material may be filed with the Secretary, APERC, at the address mentioned above in person or through Registered Post so as to reach him on or before .....(DD/Month/Year), along with proof of service of the same on.....(Name of responsible officer/Office). The objections/suggestions should be filed duly signed and should carry full name and postal address of the person (s) sending the objections/suggestions. If the objections are filed on behalf of any organization or any category of consumers, it should be so mentioned and if the objector also wants to be heard in person, it may also be specifically mentioned so.

6. After perusing the objections/suggestions received in response to this notice the Hon"ble Commission may inform such persons, as it considers appropriate and conduct hearings on dates to be notified by the Commission.

CHAIRMAN & MANAGING DIRECTOR
.....(Name of the Generating Company, Trader etc.,)

Date:
Place:

Continued...//3//

//3//

SCHEDULE

I) Name and Address of the Applicant

II) Primary Business of the Applicant (Power Generation/Retail Supply of power/power trading)

III) Distribution Licensee purchasing power (Name, location)

IV) Details of Person (Generating Company) desiring to sell power: (Name / Location / Address etc.,)

V) Particulars in brief of the proposed tariffs in the format given below.

a. Name and location of the generating station.
b. Total existing Unit-wise installed capacity and proposed unit-wise capacity in MW.
c. Type of primary and secondary fuel.
d. Date/Expected date of commercial operation of existing and proposed units.

*Name of Station	Location	Capacity	Fuel	Fixed Cost	Variable Cost	Total Cost
1						
2						
3						

*Details to be provided station-wise, unit-wise, stage-wise.

Note: *The seller may also indicate any other charges/conditions, which it intends to inform the public about, and also indicate the capital investments if any briefly.*

Printed and Published by the Commissioner of Printing, Government of Andhra Pradesh at Government Central Press, Hyderabad.

G-657/11.