

**Bhopal, the 20<sup>th</sup> February, 2020**

No. 300/MPERC/2020. In exercise of powers conferred by section 181(2)(zd) read with section 61 of the Electricity Act, 2003 (36 of 2003) and all other powers enabling it in this behalf, the Madhya Pradesh Electricity Regulatory Commission, hereby, makes the following Regulations, namely:-

**MADHYA PRADESH ELECTRICITY REGULATORY COMMISSION (TERMS AND CONDITIONS FOR DETERMINATION OF GENERATION TARIFF) REGULATIONS, 2020 {RG-26 (IV) OF 2020}**

**PREAMBLE**

The Commission notified revision {RG-26(III) of 2015} of these Regulations from FY 2016-17 to FY 2018-19. Now the Commission decides to specify the principles and methodologies for a control period of five years in line with the control period notified by the Central Electricity Regulatory Commission. Therefore, in order to specify the terms and conditions for determination of Generation tariff for the next control period of five years from FY 2019-20 to FY 2023-24, it is necessary to make these Regulations.

**CHAPTER - 1**

**PRELIMINARY**

**1. Short title, extent and commencement:**

- 1.1 These Regulations may be called the "**Madhya Pradesh Electricity Regulatory Commission (Terms and Conditions for determination of Generation Tariff) Regulations, 2020 {RG-26 (IV) of 2020}**."
- 1.2 These Regulations shall extend to the whole of the State of Madhya Pradesh.
- 1.3 These Regulations shall come into force with effect from 01.04.2019, and unless reviewed earlier or extended by the Commission, shall remain in force for a period of five years i.e., upto 31.03.2024:

Provided that where a generating station or unit thereof, has been declared under commercial operation before the date of commencement of these Regulations and whose tariff has not been finally determined by the Commission till

that date, tariff in respect of such generating station or unit thereof upto the period ending 31.3.2019 shall be determined in accordance with the Madhya Pradesh Electricity Regulatory Commission (Terms and Conditions for determination of Generation Tariff) Regulations, 2015 as amended from time to time.

## **2. Scope and extent of application.**

- 2.1** These Regulations shall apply in all cases of determination of generation tariff for a generating station or a unit thereof (other than generating stations based on renewable sources of energy) under Section 62 of the Electricity Act, 2003 read with Section 86 of the Act for supply of electricity to a Distribution Licensee, but shall not apply for generating stations whose tariff has been discovered through tariff based competitive bidding in accordance with the guidelines issued by the Central Government and adopted by the Commission under Section 63 of the Electricity Act, 2003:

Provided that any generating station for which agreement(s) have been executed for supply of electricity to the beneficiaries on or before 05.01.2011 and the financial closure for the said generating station has not been achieved by 31.03.2019, such projects shall not be eligible for determination of tariff unless fresh consent of the beneficiaries is obtained and furnished.

## **3. Definitions:**

- 3.1** In these Regulations, unless the context otherwise requires-

- (1) 'Act' means the Electricity Act, 2003 (36 of 2003);
- (2) 'Additional Capital expenditure' means the capital expenditure incurred, or projected to be incurred after the date of commercial operation of the project by the generating company in accordance with the provisions of these Regulations;
- (3) 'Additional Capitalisation' means the additional capital expenditure admitted by the Commission after prudent check, in accordance with these Regulations;
- (4) 'Admitted Capital cost' means the capital cost which has been allowed by the Commission for servicing through tariff after due prudence check in accordance with the relevant tariff Regulations;

- (5) **'Auxiliary Energy Consumption' or 'AUX'** in relation to a period in case of a generating station means the quantum of energy consumed by auxiliary equipment of the generating station, such as the equipment being used for the purpose of operating plant and machinery including switchyard of the generating station and the transformer losses within the generating station, expressed as a percentage of the sum of gross energy generated at the generator terminals of all the units of the generating station:

Provided that auxiliary energy consumption shall not include energy consumed for supply of power to housing colony and other facilities at the generating station and the power consumed for construction works at the generating station:

Provided further that auxiliary energy consumption for compliance of revised emission standards, sewage treatment plant and external coal handling plant (jetty and associated infrastructure) shall be considered separately;

- (6) **'Auditor'** means an auditor appointed by a generating company in accordance with the provisions of Sections 224, 233B and 619 of the Companies Act, 1956 (1 of 1956)], as amended from time to time or Chapter X of the Companies Act, 2013 (18 of 2013) or any other law for the time being in force;
- (7) **'Bank Rate'** means the one-year marginal cost of lending rate (MCLR) of the State Bank of India issued from time to time plus 350 basis points;
- (8) **'Beneficiary'** in relation to a generating station covered under clause (a) or (b) of sub-section (1) of Section 86 of the Act, means a distribution licensee who is purchasing electricity generated at such generating station by entering into a Power Purchase Agreement either directly or through a trading licensee on payment of capacity charges and energy charges:

Provided that where the distribution licensee is procuring power through a trading licensee, the arrangement shall be secured by the trading licensee through back to back power purchase agreement and power sale agreement:

Provided further that beneficiary shall also include any person who has been

allocated capacity in any intra-State generating station by the Government of Madhya Pradesh;

- (9) **'Blending'** means combination of domestic coal with imported coal or e-auction coal;
- (10) **'Capital Cost'** means the capital cost as determined in accordance with Regulation 21 of these Regulations;
- (11) **'Change In Law'** means occurrence of any of the following events:
- (i) enactment, bringing into effect or promulgation of any new Indian law, or
  - (ii) adoption, amendment, modification, repeal or re-enactment of any existing Indian law, or
  - (iii) change in interpretation or application of any Indian law by a competent court, Tribunal or Indian Governmental Instrumentality which is the final authority under law for such interpretation or application, or
  - (iv) change by any competent statutory authority in any condition or covenant of any consent or clearances or approval or licence available or obtained for the project, or
  - (v) coming into force or change in any bilateral or multilateral agreement/treaty between the Government of India and any other Sovereign Government having implication for the generating station regulated under these Regulations;
- (12) **'Commission'** means the Madhya Pradesh Electricity Regulatory Commission referred to in sub-section (1) of Section 82 of the Act;
- (13) **'Competitive Bidding'** means a transparent process for procurement of equipment, services and works in which bids are invited by the project developer by open advertisement covering the scope and specifications of the equipment, services and works required for the project, and the terms and conditions of the proposed contract as well as the criteria by which bids shall be evaluated, and shall include domestic competitive bidding and international competitive bidding;
- (14) **'Cut-off Date'** means the last date of the calendar month after thirty-six months from the date of commercial operation of the project;

- (15) 'Day' means a calendar day consisting of 24 hours period starting at 0000 hours.
- (16) 'Declared Capacity' or 'DC' in relation to a generating station means, the capability to deliver ex-bus electricity in MW declared by such generating station in relation to any time-block of the day as defined in Grid Code or whole of the day, duly taking into account the availability of fuel or water, and subject to further qualification in the relevant Regulation;
- (17) 'De-capitalisation' for the purpose of the tariff under these Regulations, means reduction in Gross Fixed Assets of the project as admitted by the Commission corresponding to inter-unit transfer of assets or the assets taken out from service;
- (18) 'De-Commissioning' means removal from service of a generating station or a unit thereof, after it is certified by the Central Electricity Authority or any other authorized agency, either on its own or on an application made by the project developer or the beneficiaries or both, that the project cannot be operated due to non performance of the assets on account of technological obsolescence or uneconomic operation or a combination of these factors;
- (19) 'Design Energy' means the quantum of energy which can be generated in a 90% dependable year with 95% installed capacity of the hydro generating station;
- (20) 'Existing Project' means a project which has been declared under commercial operation on a date prior to 1.4.2019;
- (21) 'Expansion project' shall include any addition of new capacity to the existing generating station;
- (22) 'Expenditure Incurred' means the fund, whether the equity or debt or both, actually deployed and paid in cash or cash equivalent, for creation or acquisition of a useful asset and does not include commitments or liabilities for which no payment has been released;
- (23) 'Extended Life' means the life of a generating station or unit thereof beyond the period of useful life, as may be determined by the Commission on case to case basis;
- (24) 'Force Majeure' for the purpose of these Regulations means the event or

circumstance or combination of events or circumstances including those stated below which partly or fully prevents the generating company to complete the project within the time specified in the Investment Approval, and only if such events or circumstances are not within the control of the generating company and could not have been avoided, had the generating company taken reasonable care or complied with prudent utility practices:

- (a) Act of God including lightning, drought, fire and explosion, earthquake, volcanic eruption, landslide, flood, cyclone, typhoon, tornado, geological surprises, or exceptionally adverse weather conditions which are in excess of the statistical measures for the last hundred years, or
- (b) Any act of war, invasion, armed conflict or act of foreign enemy, blockade, embargo, revolution, riot, insurrection, terrorist or military action, or
- (c) Industry wide strikes and labour disturbances having a nationwide impact in India, or
- (d) Delay in obtaining statutory approval for the project except where the delay is attributable to project developer;

(25) **'Fuel Supply Agreement'** means a long-term agreement executed between the generating company and the fuel supplier for the fuel specified under long term PPA for generation and supply of electricity to the beneficiaries;

(26) **'Generating Station'** shall have the same meaning as defined under sub-Section 30 of Section 2 of the Electricity Act and for the purpose of these Regulations shall also include stages or blocks or units of a generating station;

(27) **'Generating Unit'** in relation to a thermal generating station (other than combined cycle thermal generating station) means steam generator, turbine-generator and auxiliaries, or in relation to a combined cycle thermal generating station, means turbine-generator and auxiliaries or combustion turbine-generator, associated waste heat recovery boiler, connected steam turbine-generator and auxiliaries, and in relation to a hydro generating station means turbine-generator and its auxiliaries;

(28) **'Grid Code'** means the Madhya Pradesh Electricity Grid Code (Revision-II), 2019 as amended from time to time or subsequent re-enactment thereof;

(29) **'Gross Calorific Value' or 'GCV'** in relation to a thermal generating station means

the heat produced in kCal by complete combustion of one kilogram of coal or one litre of liquid fuel or one standard cubic meter of gaseous fuel, as the case may be;

- (30) **'GCV as received'** means the GCV of coal as measured at the unloading point of the thermal generating station through collection, preparation and testing of samples from the loaded wagons, trucks, ropeways, Merry-Go-Round (MGR), belt conveyors and ships in accordance with the IS 436 (Part-1/ Section 1)- 1964:

Provided that the measurement of coal shall be carried out through sampling by third party to be appointed by the generating companies in accordance with the guidelines, if any, issued by Central Government:

Provided further that samples of coal shall be collected either manually or through hydraulic augur or through any other method considered suitable keeping in view the safety of personnel and equipment:

Provided also that the generating companies may adopt any advance technology for collection, preparation and testing of samples for measurement of GCV in a fair and transparent manner;

- (31) **'Gross Station Heat Rate' or 'SHR'** means the heat energy input in kCal required to generate one kWh of electrical energy at generator terminals of a thermal generating station;
- (32) **'Indian Governmental Instrumentality'** means the Government of India, Government of State (where the project is located) and any ministry or department or board or agency controlled by Government of India or Government of State where the project is located, or quasi-judicial authority constituted under the relevant statutes in India;
- (33) **'Infirm Power'** means electricity injected into the grid prior to the date of commercial operation of a unit or block of the generating station;
- (34) **'Installed Capacity' or 'IC'** 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 may be approved by the Commission from time to time;

- (35) **'Investment Approval'** means approval by the Board of the generating company or any other competent authority conveying administrative sanction for the project including funding of the project and the timeline for the implementation of the project:

Provided that the date of Investment Approval shall reckon from the date of the resolution of the Board of the generating company where the Board is competent to accord such approval and from the date of sanction letter of competent authority in other cases;

- (36) **'Kilowatt-Hour' or 'kWh'** means a unit of electrical energy, measured in one kilowatt or one thousand watts of power produced or consumed over a period of one hour;
- (37) **'Landed Fuel Cost'** means the total cost of coal delivered at the unloading point of the generating station and shall include the base price, washery charges wherever applicable, transportation cost (overseas or inland or both) and handling cost, charges for third party sampling and applicable statutory charges;
- (38) **'Maximum Continuous Rating' or 'MCR'** in relation to a generating unit of the thermal generating station means the maximum continuous output at the generator terminals, guaranteed by the manufacturer at rated parameters, and in relation to a block of a combined cycle thermal generating station means the maximum continuous output at the generator terminals, guaranteed by the manufacturer with water or steam injection (if applicable) and corrected to 50 Hz grid frequency and specified site conditions;
- (39) **'New Project'** means the generating station or unit thereof achieving its commercial operation on or after 1.4.2019;
- (40) **'Operation and Maintenance Expenses' or 'O&M expenses'** means the expenditure incurred for operation and maintenance of the project including dedicated transmission line, or part thereof, and includes the expenditure on manpower, repairs and maintenance, maintenance spares, consumables, insurance and overheads and fuel other than used for generation of electricity;
- (41) **'Original Project Cost'** means the capital expenditure incurred by the generating company within the original scope of the project up to the cut-off date as admitted



by the Commission;

(42) **'Plant Availability Factor' or '(PAF)** in relation to a generating station for any period means the average of the daily declared capacities (DCs) for all the days during the period expressed as a percentage of the installed capacity in MW less the normative auxiliary energy consumption;

(43) **'Plant Load Factor' or '(PLF)** in relation to thermal generating station or unit for a given period means the total sent out energy corresponding to scheduled generation during the 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:

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

Where,

IC = Installed Capacity of the generating station or unit in MW,

SGi = Scheduled Generation in MW for the ith time block of the period,

N = Number of time blocks during the period, and

AUX<sub>n</sub> = Normative Aux. Energy Consumption as a percentage of gross energy generation;

(44) **'Project'** means:

- (i) In case of thermal generating station, all components of the thermal generating station and includes pollution control system, effluent treatment plant, dedicated transmission line/system, as may be required, and
- (ii) In case of a hydro generating station, all components of hydro generating station and includes dam, intake water conductor system, power generating station and generating units of the scheme, as apportioned to power generation;

(45) **'Prudence Check'** means scrutiny of reasonableness of capital expenditure incurred or proposed to be incurred, financing plan, use of efficient technology, cost and time over-run and such other factors as may be considered appropriate by the Commission for determination of tariff. While carrying out the Prudence Check, the

Commission shall look into whether the generating company has been careful in its judgments and decisions for executing the project and has been careful and vigilant in executing the project;

- (46) **'Pumped storage hydro generating station'** means a hydro station which generates power through energy stored in the form of water energy, pumped from a lower elevation reservoir to a higher elevation reservoir;
- (47) **'Quarter'** means the period of three months commencing on the first day of April, July, October and January of each financial year in case of existing project, and in case of a new project, in respect of the first quarter, from the date of commercial operation to the last day of June, September, December. or March, as the case may be;
- (48) **'Revised Emission Standards'** in respect of the thermal generating station means the revised norms notified as per Environment (Protection) Amendment Rules, 2015 or any other rules as may be notified from time to time;
- (49) **'Run-of-River generating station'** means a hydro generating station which does not have upstream pondage;
- (50) **'Run-of-River generating station with pondage'** means a hydro generating station with sufficient pondage for meeting the diurnal variation of power demand;
- (51) **'Scheduled Commercial Operation Date' or 'SCOD'** shall mean the date(s) of commercial operation of a generating station or generating unit thereof as indicated in the Investment Approval or as agreed in power purchase agreement, whichever is earlier;
- (52) **'Scheduled Energy'** means the quantum of energy scheduled by the concerned Load Despatch Centre to be injected into the grid by a generating station for a given time period;
- (53) **'Scheduled Generation' or 'SG'** at any time or for any period or time block means schedule of ex-bus generation in MW or MWh, given by the concerned Load Despatch Centre;
- (54) **'Start Date or Zero Date'** means the date indicated in the Investment Approval for

commencement of implementation of the project and where no such date has been indicated, the date of investment approval shall be deemed to be Start Date or Zero Date;

(55) **'Storage type generating station'** means a hydro generating station associated with storage capacity to enable variation of generation of electricity according to demand;

(56) **'Thermal Generating Station'** means a generating station or a unit thereof that generates electricity using fuels such as coal, gas, liquid fuel or combination of these as its primary source of energy;

(57) **'Trial Run' or 'Trial Operation'** Trial Run or Trial Operation in relation to a thermal Generating Station or a unit thereof shall mean successful running of the generating station or unit thereof on designated fuel at Maximum Continuous Rating or Installed Capacity or Name Plate Rating for a continuous period of 72 hours and in case of a hydro Generating Station or inter-state Generating Station or a unit thereof for a continuous period of 12 hours:

Provided that:

- (i) The short interruptions, for a cumulative duration of 4 hours, shall be permissible, with corresponding increase in the duration of the test. Cumulative Interruptions of more than 4 hours shall call for repeat of trial operation or trial run,
- (ii) The partial loading may be allowed with the condition that average load during the duration of the trial run shall not be less than Maximum Continuous Rating, or the Installed Capacity or the Name Plate Rating excluding period of interruption and partial loading but including the corresponding extended period,
- (iii) Where the beneficiaries have been tied up for purchasing power from the generating station, the trial run or each repeat of trial run shall commence after a notice of not less than seven days by the generating company to the beneficiaries and concerned RLDC or SLDC, as the case may be, and
- (iv) Units of thermal and hydro Central Generating Stations and inter-State Generating Stations shall also demonstrate capability to raise load upto 105% or 110% of this Maximum Continuous Rating or Installed Capacity or the Name Plate Rating, as the case may be;

(58) **'Unloading point'** means the point within the premises of the coal based thermal generating station where the coal is unloaded from the rake or truck or any other mode of transport;

(59) **'Useful life'** in relation to a unit of a generating station from the date of commercial operation shall mean the following, namely:

1	Coal based thermal generating station	25-years
2	Hydro generating station including pumped Storage hydro generating stations	40-years

Provided that the extension of life of the projects beyond the completion of their useful life shall be decided by the Commission on the case to case basis; and

(60) **'Year'** means a financial year from 1<sup>st</sup> April to 31<sup>st</sup> March in case of an existing project, and from date of commercial operation to 31<sup>st</sup> March in case of a new project.

3.2 The words and expressions used in these Regulations and not defined herein but defined in the Act or any other Regulations of the Commission shall have the meaning assigned to them under the Act or any other Regulations of the Commission.

**CHAPTER- 2****DATE OF COMMERCIAL OPERATION****4. 'Date of Commercial Operation' or 'COD':**

**4.1** The date of commercial operation of a generating station or unit thereof shall be determined as under:

- (1) Date of commercial operation in case of a generating unit or block of the generating station shall mean the date declared by the generating company after demonstrating the unit capacity corresponding to its maximum continuous rating (MCR) or the installed capacity (IC) or Name Plate Rating on designated fuel through a successful trial run after getting clearance from the respective RLDC or SLDC, as the case may be, and in case of the generating station as a whole, the date of commercial operation of the last generating unit or block of the generating station:

Provided that:

- (i) Where the beneficiaries/buyers have been tied up for purchasing power from the generating station, the trial run or each repeat of trial run shall commence after a notice of not less than seven days by the generating company to the beneficiaries/buyers and concerned RLDC or SLDC, as the case may be;
- (ii) Where the beneficiaries/ buyers have not been tied up for purchasing power from the generating station, the trial run or each repeat of trial run shall commence after a notice of not less than seven days by the generating company to the concerned RLDC or SLDC, as the case may be;
- (iii) The generating company shall certify that:
- (a) The generating station meets the relevant requirements and provisions of the technical standards of Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2010 and Indian Electricity Grid Code, as applicable;
- (b) The main plant equipment and auxiliary systems including Balance of Plant, such as Fuel Oil System, Coal Handling Plant, DM Plant, Pre-Treatment Plant, Fire-Fighting System, Ash Disposal System and any

- other site specific system have been commissioned and are capable of full load operation of the units of the generating station on sustained basis; and
- (c) Permanent electric supply system including emergency supplies and all necessary instrumentation, control and protection systems and auto loops for full load operation of unit have been put in service;
- (iv) The certificates as required under clause (iii) above shall be signed by the CMD/ CEO/ MD of the generating company and a copy of the certificate shall be submitted to the Member Secretary of the concerned Regional Power Committee and the concerned RLDC/ SLDC before declaration of COD. The generating company shall submit approval of Board of Directors to the certificates as required under clause (iii) within a period of 3 months of the COD;
- (v) Trial run shall be carried out in accordance with Regulation 3.1(57) of these Regulations;
- (vi) Partial loading may be allowed with the condition that average load during the duration of the trial run shall not be less than Maximum Continuous Rating or the Installed Capacity or the Name Plate Rating excluding period of interruption and partial loading but including the corresponding extended period;
- (vii) Where on the basis of the trial run, a unit of the generating station fails to demonstrate the unit capacity corresponding to Maximum Continuous Rating or Installed Capacity or Name Plate Rating, the generating company has the option to de-rate the capacity or to go for repeat trial run. Where the generating company decides to de-rate the unit capacity, the demonstrated capacity in such cases shall be more or equal to 105% of de-rated capacity;
- (viii) The concerned RLDC or SLDC, as the case may be, shall convey clearance to the generating company for declaration of COD within 7 days of receiving the generation data based on the trial run;
- (ix) If the concerned RLDC or SLDC, as the case may be, notices any deficiencies in the trial run, it shall be communicated to the generating company within seven days of receiving the generation data based on the trial run; and
- (x) Scheduling of power from the generating station or unit thereof shall

commence from 0000 hrs after declaration of COD.

- (2) Date of commercial operation (COD) in relation to a generating unit of hydro generating station including pumped storage hydro generating station shall mean the date declared by the generating company after demonstrating peaking capability corresponding to the Installed Capacity of the generating station through a successful trial run, and after getting clearance from the respective RLDC or SLDC, as the case may be, and in relation to the generating station as a whole, the date of commercial operation of the last generating unit of the generating station:

Provided that:

- (i) Where beneficiaries have been tied up for purchasing power from the generating station, trial run or each repeat of trial run shall commence after a notice of not less than seven days by the generating company to the beneficiaries and concerned RLDC or SLDC, as the case may be;
- (ii) Where the beneficiaries/buyers have not been tied up for purchasing power from the generating station, the trial run shall commence after a notice of not less than seven days by the generating company to concerned RLDC or SLDC, as the case may be;
- (iii) The generating company shall certify that:
  - (a) The generating station or unit thereof meets the requirement and relevant provisions of the technical standards of Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2010 and M.P. Electricity Grid Code, as applicable;
  - (b) The main plant equipment and auxiliary systems including Drainage Dewatering system, Primary and Secondary cooling system, LP and HP air compressor, Firefighting system, etc. have been commissioned and are capable for full load operation of units on sustained basis; and
  - (c) Permanent electric supply system including emergency supplies and all necessary Instrumentations Control and Protection Systems and auto loops for full load operation of the unit are put into service;
- (iv) The certificates as required under clause (iii) above shall be signed by the CMD/ CEO/ MD of the generating company and a copy of the certificate shall be submitted to the Member Secretary of the concerned Regional Power Committee and concerned RLDC or SLDC, as the case may be,

- before declaration of COD. The generating company shall submit approval of Board of Directors to the certificates as required under clause (iii) within a period of 3 months of COD;
- (v) Trial run shall be carried out in accordance with sub-Regulation 3.1(57) of this Regulation;
- (vi) Where on the basis of the trial run, a unit of the generating station fails to demonstrate the unit capacity corresponding to Maximum Continuous Rating or Installed Capacity or Name Plate Rating, the generating company shall have the option to either de-rate the capacity or to go for repeat trial run. If the generating company decides to de-rate the unit capacity, the demonstrated capacity in such cases shall be more or equal to 110% of de-rated capacity;
- (vii) In case a hydro generating station with pondage or storage is not able to demonstrate the peaking capability corresponding to the installed capacity for the reasons of insufficient reservoir or pond level, the date of commercial operation of the last unit of the generating station shall be considered as the date of commercial operation of the generating station as a whole, and it will be mandatory for such hydro generating station to demonstrate peaking capability equivalent to installed capacity of the generating station or unit thereof as the case may be, as and when such reservoir/pond level is achieved;
- (viii) If a run-of-river hydro generating station or a unit thereof is declared under commercial operation during lean inflows period when the water inflow is insufficient for such demonstration of peaking capability, it shall be mandatory for such hydro generating station or unit thereof to demonstrate peaking capability equivalent to installed capacity as and when sufficient water inflow is available. In case of failure to demonstrate the peaking capacity, the unit capacity shall be de-rated to the capacity demonstrated with effect from the COD;
- (ix) The concerned RLDC or SLDC as the case may be, shall accord clearance to the generating company within seven days of receiving the generation data based on the trial run;
- (x) If the concerned RLDC or SLDC as the case may be, notices any deficiency in trial run, it shall be communicated to the generating company within seven days of receiving the generation data based on trial run; and
- (xi) Scheduling shall commence from 0000 hrs after declaration of COD.



**CHAPTER – 3**  
**PROCEDURE FOR TARIFF DETERMINATION**

**5. Tariff Determination**

5.1 Tariff in respect of a generating station may be determined for the whole of the generating station or unit thereof:

Provided that:

- (i) Where all the generating units of a stage of a generating station have been declared under commercial operation prior to 1.4.2019, the generating company shall file consolidated petition in respect of the entire generating station for the purpose of determination of tariff for the period 01.04.2019 to 31.03.2024; and
- (ii) In case of commercial operation of units of generating station on or after 1.4.2019, the generating company shall file a consolidated petition combining all the units of the generating station or file appropriate petition for the generating units which are anticipated to achieve commercial operation within next two months from the date of application.

5.2 For the purpose of determination of tariff, the capital cost of a project may be broken up into stages, units, if required:

Provided that where break-up of the capital cost of the project for different stages or units is not available and in case of on-going projects, the common facilities shall be apportioned on the basis of the installed capacity of the unit.

5.3 Where only a part of the generation capacity of a generating station is tied up for supplying power to the beneficiaries through long term power purchase agreement, the units for such part capacity shall be clearly identified and, in such cases, the tariff shall be determined for such identified capacity. Where the unit(s) corresponding to such part capacity cannot be identified, the tariff of the generating station may be determined with reference to the capital cost of the entire project, but tariff so determined shall be applicable corresponding to the part capacity contracted for supply to the beneficiaries.

5.4 In case of expansion of existing generating station, the tariff for the expanded capacity, if tied up fully or partially for supplying power to the beneficiaries through a

long term power purchase agreement, shall be determined in accordance with these Regulations:

Provided that the common infrastructure of existing generating station, shall be utilized for the expanded capacity and the benefit of new technology in the expanded capacity shall be extended to the existing capacity.

5.5 Assets installed for implementation of the revised emission standards shall form part of the existing generation project and tariff thereof shall be determined separately on submission of the completion certificate by the Board of the generating company.

5.6 Tariff of generating station using coal washery rejects and developed by Central or State PSUs or Joint Venture between a Government Company and Company other than the Government Company shall be determined in accordance with these Regulations:

Provided that in case of Joint Venture between a Government Company and a Company other than Government Company, the shareholding of the company other than Government Company either directly or through any of its subsidiary company or associate company shall not exceed 26% of the paid up share capital;

Provided further that the energy charge component of the tariff of such generating station or unit thereof shall be determined based on the fixed cost and the variable cost of the coal washery project:

Provided also that the Gross Calorific Value of coal rejects shall be as measured jointly by the generating company and the beneficiaries.

5.7 In case of multi-purpose hydro generation scheme with irrigation, flood control and power components, the capital cost chargeable to the power component of the scheme only shall be considered for determination of tariff.

#### 6. Application for determination of Tariff:

6.1 The generating company shall make an application for determination of tariff for new generating station or unit thereof alongwith all relevant documents and details to be filled up in the formats as per Annexure I with these Regulations within 60

days of the anticipated date of commercial operation:

Provided that the generating company shall submit Auditor Certificate indicating the capital cost incurred as on the date of commercial operation and shall submit details of the projected additional capital expenditure for respective years of the tariff period 2019-24.

- 6.2** In case of an existing generating station or unit thereof, the application for determination of Multi-year Tariff shall be made by the generating company within a period of 60 days from the date of notification of these Regulations or as directed by the Commission whichever is earlier, based on admitted capital cost including additional capital expenditure already admitted in last true-up order of the Commission and estimated additional capital expenditure for the respective years of the tariff period 2019-24 in accordance with the MPERC (Terms and Conditions for determination of Generation Tariff) Regulations, 2020:

Provided that the application shall contain details of underlying assumptions for projected capital cost and additional capital expenditure, where applicable.

- 6.3** In case of emission control system is required to be installed in existing generating station or unit thereof to meet the revised emission standards, an application/petition shall be filed for determination of tariff (capacity charges or energy charge or both) after installation of such system based on the actual capital expenditure incurred duly certified by the Auditor along with all necessary details and documents.

**7. Determination of Tariff:**

- 7.1** The generating company shall file petition before the Commission as per formats enclosed with these Regulations containing the details of underlying assumptions for the capital expenditure and additional capital expenditure incurred and projected to be incurred, wherever applicable.
- 7.2** The Commission shall, at all times, have the authority, either suo-motu or on a petition filed by any interested or affected party, to determine the Tariff, including terms and conditions thereof, of generating company and shall initiate the process of such determination in accordance with the procedure as may be specified:

Provided that the proceedings for such determination of tariff, including terms and conditions thereof, shall be in the same manner as set out in the MPERC Conduct of Business Regulations, as amended from time to time.

- 7.3** The generating company shall provide details, as part of the application to the Commission, in such formats, in hard and soft copy, as may be required by the Commission. The generating company shall necessarily provide details Unit-wise and Station-wise as envisaged in the formats to enable the Commission to determine the Tariff, as required.
- 7.4** The generating company shall make an application as per these Regulations, for determination of tariff based on capital expenditure incurred duly certified by the auditors or projected to be incurred up to the date of commercial operation and additional capital expenditure incurred duly certified by the auditors or projected to be incurred during the tariff period of the generating station.

The generating company is required to furnish all such additional information or particulars or documents as may be considered necessary for the purpose of processing the application:

Provided that in case of an existing project, the application shall be based on admitted capital cost including any additional capitalization already admitted in last true-up order and estimated additional capital expenditure for the respective years of the tariff period FY 2019-20 to FY 2023-24:

Provided further that the application shall contain details of underlying assumptions for projected capital cost and additional capital expenditure, where applicable.

- 7.5** Upon receipt of the complete application accompanied by all requisite information, particulars and documents in compliance with all the requirements, the application shall be deemed to have been received and the Commission or the Secretary or the Officer designated for the purpose by the Commission shall intimate to the generating company that the application is ready for publication, in such abridged form and manner, as may be specified [Refer MPERC (Details to be furnished and fees payable by Licensee or generating company for determination of Tariff and manner of making an application) Regulation 2004 as amended from time to time].

The generating company shall put all the details of the petition filed before the Commission on its website not later than seven working days of its acceptance by the Commission.

**7.6** The generating company shall furnish to the Commission all such books and records (or certified true copies thereof), including the Accounting Statements, operational and cost data, as may be required by the Commission for determination of Tariff.

**7.7** The Commission may, if deemed necessary, make available to any person, at any time, such information as has been provided by the generating company to the Commission including abstracts of such books and records (or certified true copies thereof):

Provided that the Commission may, by order, direct that any information, documents and papers/materials maintained by the Commission, shall be confidential or privileged and shall not be available for inspection or supply of certified copies, and the Commission may also direct that such document, papers or materials shall not be used in any manner except as specifically authorised by the Commission.

**7.8** If the petition is inadequate in any respect as required under these Regulations, the petition shall be returned to the generating company for resubmission of the same within one month after rectifying the deficiencies as may be pointed out by the staff of the Commission.

**7.9** If the information furnished in the petition is in accordance with the Regulations and is adequate for carrying out prudence check of the claims made, the Commission shall consider the suggestions and objections, if any, received from the respondents within one month from the date of filing of the petition (or any time period specified by the Commission) and any other person including the consumers or consumer associations. The Commission shall issue the tariff order after hearing the petitioner, the respondents and any other person specifically permitted by the Commission.

**7.10** In case of the new projects, if the information furnished in the petition is in accordance with these Regulations and is adequate for carrying out prudence

check of the claims made, the Commission may consider granting interim tariff and/or provisional tariff upto 90% of the annual fixed cost determined by the Commission based on the projected capital expenditure from the scheduled COD after prudence check in accordance with the provisions under these Regulations subject to adjustment as per Regulation 7.13 of these Regulations after the final tariff order is issued:

- 7.11** In case of the existing projects, the generating company shall continue to bill provisionally the beneficiaries at the capacity charges as approved by the Commission and applicable as on 31.03.2019 for the period starting from 01.04.2019 till approval of final capacity charges in accordance with these Regulations:

Provided that the billing for energy charges w.e.f 01.04.2019 shall be as per the operational norms specified in these Regulations:

Provided further that the difference between the tariff above provisional bills raised by the generating company to beneficiary and the tariff determined by the Commission in accordance with these Regulations, shall be recovered or refunded to, the beneficiary with simple interest at the rate equal to the bank rate prevailing as on 1<sup>st</sup> April of the respective year of the tariff period, in six equal monthly installments.

- 7.12** The Commission shall grant final tariff in case of existing and new projects after considering the replies received from the Respondents, suggestions and objections, if any, received from general public or any person permitted by the Commission.

- 7.13** The difference between the tariff determined in accordance with clause 7.10 and 7.12 shall be recovered from or refunded to, the beneficiaries with simple interest at the rate equal to the bank rate prevailing as on 1<sup>st</sup> April of the respective year of the tariff period, in six equal monthly installments from the date of the tariff order issued by the Commission.

Provided that:

- (i) Where the capital cost considered in tariff by the Commission on the basis of projected additional capital expenditure submitted by the generating company, exceeds the actual capital expenditure incurred on year to year

basis by more than 10%, the generating company shall refund to the beneficiaries the excess tariff recovered corresponding to excess capital cost not incurred, as approved by the Commission alongwith interest at 1.20 times of the bank rate as prevalent on 1<sup>st</sup> April of respective year:

- (ii) Where the capital cost considered in tariff by the Commission on the basis of projected capital expenditure submitted by the generating company, falls short of the actual capital expenditure incurred on year to year basis by more than 10%, the generating company shall be entitled to recover from the beneficiaries the shortfall in tariff corresponding to difference in additional capital expenditure, as approved by the Commission alongwith interest at the bank rate as prevalent on 1<sup>st</sup> April of respective year.

**8. In-principle Approval in Specific circumstances:**

- 8.1** The generating company undertaking any additional capitalization on account of change in law events or force majeure conditions may file petition for in-principle approval for incurring such expenditure after prior notice to the beneficiaries or the long term customers, as the case may be, along with underlying assumptions, estimates and justification for such expenditure if the estimated expenditure exceeds 10% of the admitted capital cost of the project or Rs.100 Crore, whichever is lower.

**9. Methodology for Determination of Tariff and Truing up:**

- 9.1** The Commission shall define Tariff period for the generating company from time to time. The principles for Tariff determination shall be applicable for the duration of the Tariff period. The principles that guide Tariff determination for the next Tariff period shall be valid for a period from 1<sup>st</sup> April, 2019 upto 31<sup>st</sup> March, 2024.
- 9.2** Tariff in respect of a generating company under these Regulations shall be determined Unit-wise or for a group of Units. However, when a new generating Unit is added on or after 1.4.2019, the Commission shall determine separate Tariff for such new Unit(s). The generating company shall submit separate calculations in respect of each generating station giving break- up for Units prior to 1.4.2019 and Units added thereafter.
- 9.3** For the purpose of Tariff, the capital cost of the Project shall be segregated into

stages and by distinct Units forming part of the Project. Where the Stage-wise, Unit-wise break-up of the capital cost of the Project is not available and in case of on-going Projects, the common facilities shall be apportioned on the basis of the capacity of the Units. In relation to Multi-purpose Hydroelectric Projects with irrigation, flood control and power components, the capital cost chargeable to power component of the Project only shall be considered for determination of Tariff.

**Explanation:** "Project" includes a generation station.

- 9.4** A generating company shall file a petition at the beginning of the Tariff period. A review shall be undertaken by the Commission to scrutinize and true up the Tariff on the basis of the capital expenditure and additional capital expenditure actually incurred in the Year for which the true up is being requested. The generating company shall submit for the purpose of truing up, details of capital expenditure and additional capital expenditure incurred for each year of the period from 1.4.2019 to 31.3.2024, duly audited and certified by the auditors.
- 9.5** The Multi Year Tariff filing for existing generating stations in hard and soft copy shall be in the formats prescribed with these Regulations within 60 days of notification of these Regulations.
- 9.6** A Distribution Licensee owning and operating a generating station shall maintain and submit separate accounts of its generation business, licensed business, and other business.
- 9.7** The generating company shall make an application, in hard and soft copy in the same formats specified under these Regulations for carrying out truing up exercise for each year in respect of the generating station or a unit or block thereof by **15<sup>th</sup> November** each year.
- 9.8** The generating company shall submit for the purpose of truing up, details of actual capital expenditure and additional capital expenditure incurred for the period from 1.4.2019 to 31.3.2024, duly audited and certified by the auditor on year to year basis.
- 9.9** Where after the truing up, the tariff recovered exceeds the tariff approved by the Commission under these Regulations, the generating company shall refund to the



beneficiaries the excess amount so recovered as specified in Regulation 9.11 of these Regulations.

**9.10** Where after the truing up, the tariff recovered is less than the tariff approved by the Commission under these Regulations; the generating company shall recover from the beneficiaries the under-recovered amount as specified in Regulation 9.11 of these Regulations.

**9.11** After truing up, if the tariff already recovered exceeds or falls short of the tariff approved by the Commission under these Regulations, the generating company shall refund to or recover from, the beneficiaries, the excess or shortfall amount along with simple interest at the rate equal to the bank rate as on 1<sup>st</sup> April of the respective years of the tariff period in six equal monthly instalments.

**10. Submission of Annual Accounts, Reports etc.:**

**10.1** The generating company shall submit Annual Audited Accounts and such other information in a form as may be specified by the Commission. In addition, the generating company shall be required to comply with the information requirements of various Regulations and Codes notified by the Commission from time to time.

**10.2** In the absence of submission of the required information by the generating company, the Commission may initiate Suo-motu proceedings.

**11. Periodicity of Tariff determination:**

**11.1** No Tariff or part of any Tariff may ordinarily be amended, more frequently than once in any financial Year, except in respect of any changes expressly permitted under the terms of these Regulations. The Commission may, after satisfying itself for reasons to be recorded in writing, allow for other revision of Tariff.

**11.2** Subject to the other provisions of these Regulations, the expenses allowed to be recovered for any year, shall be subject to adjustments in any tariff to be determined for the subsequent period if the Commission is satisfied that such adjustment for the excess amount or shortfall in the amount actually realized or expenses incurred is necessary and the same is not on account of any reason attributable and within the control of the generating company.

**12. Hearings:**

- 12.1 The procedure of hearing on the Tariff application shall be as specified in MPERC (Details to be furnished and fees payable by generating company for determination of Tariff and manner of making an application) Regulations 2004, as amended from time to time.

**13. Orders of the Commission:**

- 13.1 The Commission, after the petition has been filed, may require the generating company to furnish any further information, particulars, documents, public records etc. as the Commission may consider appropriate to enable the Commission to check and review the petitioner's calculations, assumptions and assertions.

- 13.2 After receipt of information or otherwise, the Commission may make appropriate orders in accordance with the provisions of the Madhya Pradesh Electricity Regulatory Commission (Details to be furnished and fees payable by generating company for determination of Tariff and manner of making an application) Regulations, 2004 and their amendments.

**14. Charging of Tariff other than approved:**

- 14.1 Any generating company found to be charging a Tariff different from the one approved by the Commission from the Beneficiaries shall be deemed to have not complied with the directions of the Commission and shall be liable to be proceeded against under Section 142 of the Act without prejudice to any other liability incurred by the generating company under any other provisions of the Act. In case the amount recovered exceeds the amount allowed by the Commission, the excess amount so recovered shall be refunded to the Beneficiaries who have paid such excess charges, along with simple interest at the rate equal to the bank rate as on 1st April of the respective year, besides any other penalty that may be imposed by the Commission.

**15. Annual review of the Generating Company:**

- 15.1 The generating company shall submit periodic returns as may be specified, containing operational and cost data to enable the Commission to monitor the implementation of its order.
- 15.2 The generating company shall submit to the Commission annual statements of its performance and accounts including latest report of audited accounts.

**CHAPTER –4**  
**TARIFF STRUCTURE**

**16. Components of Tariff:**

- 16.1** The tariff for supply of electricity from a thermal generating station shall comprise two parts, namely, capacity charge (for recovery of annual fixed cost consisting of the components as specified in Regulation 17 of these Regulations) and energy charge (for recovery of primary and secondary fuel cost as specified in Regulation 18 of these Regulations).
- 16.2** The capacity charges for additional capitalization and energy charges, on account of implementation of revised emission standards in existing generating station or new generating station, as the case may be, shall be determined by the Commission separately.
- 16.3** The tariff for supply of electricity from a hydro generating station shall comprise capacity charge and energy charge to be derived in the manner specified in Regulation 47 of these Regulations, for recovery of annual fixed cost consisting of the components referred to in Regulation 17 of these Regulations.

**17. Capacity Charges:**

- 17.1** The Capacity charges shall be derived on the basis of annual fixed cost. The annual fixed cost (AFC) of a generating station shall consist of the following components:
- (a) Return on equity;
  - (b) Interest on loan capital;
  - (c) Depreciation;
  - (d) Interest on working capital; and
  - (e) Operation and maintenance expenses:

Provided that special allowance in lieu of R&M, where opted in accordance with Regulation 30 of these Regulations shall be recovered separately and shall not be considered for computation of working capital.

**18. Energy Charges:**

- 18.1** Energy charges shall be derived on the basis of the Landed Fuel Cost (LFC) of a

generating station (excluding hydro) and shall consist of the following cost:

- (a) Landed Fuel Cost of primary fuel;
- (b) Cost of secondary fuel oil consumption; and
- (c) Cost of Lime-stone or any other regent as applicable:

Provided that any refund of taxes and duties along with any amount received on account of penalties from fuel supplier shall be adjusted in fuel cost:

Provided further that the energy charges, if any, on account of meeting the revised emission standards in case of a thermal generating station shall be determined separately by the Commission.

**19. Landed Fuel Cost for Tariff Determination:**

**19.1** The landed fuel cost of primary fuel and secondary fuel for tariff determination shall be based on actual weighted average cost of primary fuel and secondary fuel of the three preceding months, and in the absence of landed costs for the three preceding months, latest procurement price of primary fuel and secondary fuel for the generating station, before the start of the tariff period for existing stations and immediately preceding three months of COD in case of new generating stations shall be taken into account.

**20. Special Provisions for Tariff for Thermal Generating Stations which completed 25 years of operation from the Date of Commercial Operation:**

**20.1** In respect of a thermal generating station that has completed 25 years of operation from the date of commercial operation, the generating company and the beneficiary may agree on an arrangement, including provisions for target availability and incentive, where in addition to the energy charge, capacity charge is determined under these regulations shall also be recovered based on scheduled generation.

**20.2** The beneficiary shall have the first right of refusal and upon its refusal to enter into an arrangement as above, the generating company shall be free to sell the electricity generated from such station in a manner as it deems fit.

**CHAPTER - 5****COMPUTATION OF CAPITAL COST AND CAPITAL STRUCTURE****21. Capital Cost:**

**21.1** The Capital cost of the generating station as determined by the Commission after prudence check in accordance with these Regulations shall form the basis of determination of tariff for existing and new projects.

**21.2** The Capital Cost of a new project shall include the following:

- (i) the expenditure incurred up to the date of commercial operation of the project;
- (ii) interest during construction and financing charges, on the loans (i) being equal to 70% of the funds deployed, in the event of the actual equity in excess of 30% of the funds deployed, by treating the excess equity as normative loan, or (ii) being equal to the actual amount of loan in the event of the actual equity less than 30% of the funds deployed;
- (iii) any gain or loss on account of foreign exchange risk variation pertaining to the loan amount availed during the construction period.
- (iv) interest during construction and incidental expenditure during construction as computed in accordance with Regulation 23 of these Regulations;
- (v) capitalised Initial spares subject to the ceiling rates specified in accordance with Regulation 25 of these Regulations;
- (vi) expenditure on account of additional capitalization and de-capitalisation determined in accordance with these Regulations;
- (vii) adjustment of revenue due to sale of infirm power in excess of fuel cost prior to the date of commercial operation as specified under Regulation 32 of these Regulations;
- (viii) capital expenditure incurred on the ash disposal including handling and transportation facility of thermal generating station;
- (ix) capital expenditure incurred towards railway infrastructure and its augmentation for transportation of coal upto the receiving end of the generating station but does not include the transportation cost and any other

- appurtenant cost paid to the Railway;
- (x) capital expenditure on account of emission control system necessary to meet the revised emission standards and sewage treatment plant;
  - (xi) expenditure on account of fulfilment of any conditions for obtaining environment clearance for the project;
  - (xii) expenditure on account of change in law and force majeure events; and
  - (xiii) capital cost incurred or projected to be incurred by a thermal generating station, on account of implementation of the norms under Perform, Achieve and Trade (PAT) scheme of Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries.

**21.3** The Capital cost of an existing project shall include the following:

- (i) the capital cost admitted by the Commission prior to 1.4.2019 duly trued up by excluding liability, if any, up to last true-up order issued by the Commission;
- (ii) additional capitalization and de-capitalization for the respective year of tariff as determined in accordance with these Regulations;
- (iii) capital expenditure on account of renovation and modernization as admitted by the Commission in accordance with these Regulations;
- (iv) capital expenditure on account of ash disposal including handling and transportation facility;
- (v) capital expenditure incurred towards railway infrastructure and its augmentation for transportation of coal upto the receiving end of generating station but does not include the transportation cost and any other appurtenant cost paid to the railway; and
- (vi) capital cost incurred or projected to be incurred by a thermal generating station, on account of implementation of the norms under Perform, Achieve and Trade (PAT) scheme of Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries.

**21.4** The capital cost in case of existing/new hydro generating station shall also include:

- (i) cost of approved rehabilitation and resettlement (R&R) plan of the project in conformity with National R&R Policy and R&R package as approved; and
- (ii) cost of the developer's 10% contribution towards Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) and Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) project in the affected area.

**21.5** The following shall be excluded or removed from the capital cost of the existing and new projects:

- (a) The assets forming part of the project, but not in use, as declared in the tariff petition;
- (b) De-capitalised asset after the date of commercial operation on account of replacement or removal on account of obsolescence or shifting from one project to another project:

Provided that unless shifting of an asset from one project to another is of permanent nature, there shall be no de-capitalization of the concerned assets;

- (c) In case of hydro generating stations, any expenditure incurred or committed to be incurred by a project developer for getting the project site allotted by the State Government by following a transparent process;
- (d) the proportionate cost of land of the existing project which is being used for generating power from generating station based on renewable energy; and
- (e) any grant received from the Central or State Government or any statutory body or authority for the execution of the project which does not carry any liability of repayment shall be excluded from the Capital Cost for the purpose of computation of interest on loan, return on equity and depreciation.

## **22. Prudence Check of Capital Cost:**

**22.1** The following principles shall be adopted for prudence check of capital cost of the existing or new projects:

- (i) In case of the thermal generating station, prudence check of capital cost shall include scrutiny of the capital expenditure, in the light of capital cost of similar projects based on past historical data, wherever available, reasonableness of financing plan, interest during construction, incidental

expenditure during construction, use of efficient technology, cost over-run and time over-run, procurement of equipment and materials through competitive bidding and such other matters as may be considered appropriate by the Commission for determination of tariff:

Provided that, while carrying out the prudence check, the Commission shall also examine whether the generating company has been careful in its judgments and decisions in execution of the project.

- (ii) The Commission may, for the purpose of vetting of capital cost of hydro-generating stations, appoint an independent agency or an expert body:

Provided that the Designated Independent Agency already appointed under the guidelines issued by the Commission shall continue till completion of the assigned project.

- 22.2** The generating company shall furnish the package-wise capital cost for execution of the existing and new projects as per formats enclosed with these Regulations, along with tariff petition for the purpose of creating a database of benchmark capital cost of various components:

Provided that where the power purchase agreement entered into between the generating company and the beneficiaries provides for ceiling of actual capital expenditure, the Commission shall take into consideration such ceiling for prudence check.

**23. Interest during construction (IDC), Incidental Expenditure during Construction (IEDC):**

- 23.1** Interest during construction (IDC) shall be computed corresponding to the loan from the date of infusion of debt fund, and after taking into account the prudent phasing of funds upto SCOD.

- 23.2** Incidental expenditure during construction (IEDC) shall be computed from the zero date, taking into account pre-operative expenses upto SCOD:



Provided that any revenue earned during construction period up to SCOD on account of interest on deposits or advances, or any other receipts shall be taken into account for reduction in incidental expenditure during construction.

**23.3** In case of additional costs on account of IDC and IEDC due to delay in achieving the COD, the generating company shall be required to furnish detailed justifications with supporting documents for such delay including prudent phasing of funds in case of IDC and details of incidental expenditure (IEDC) during the period of delay and liquidated damages recovered or recoverable corresponding to the delay.

**23.4** If the delay in achieving COD is not found attributable to the generating company, IDC and IEDC beyond SCOD may be allowed after due prudence check and the liquidated damages, if any, recovered from the contractor or supplier or agency shall be adjusted in the capital cost of the generating station.

**23.5** If the delay is attributable either in entirety or in part to the generating company or its contractor or supplier or agency, in such cases, IDC and IEDC beyond SCOD may be disallowed after due prudence check either in entirety or on pro-rata basis corresponding to the period of delay not condoned and the liquidated damages, if any, recovered from the contractor or supplier or agency shall be retained by the generating company.

**24. Controllable and Uncontrollable factors:**

**24.1** The following shall be considered as controllable and uncontrollable factors for deciding time over-run, cost escalation, IDC and IEDC of the Project :

**24.2** The "controllable factors" shall include but shall not be limited to the following:

- (a) Efficiency in the implementation of the project not involving approved change in scope of such project, change in statutory levies or change in law or force majeure events; and
- (b) Delay in execution of the project on account of contractor, supplier or agency of the generating company.

**24.3** The "uncontrollable factors" shall include but shall not be limited to the following:

- (i) Force Majeure events;

- (ii) Change in law; and
- (iii) Time and cost over-runs on account of land acquisition except where the delay is attributable to the generating company.

**25. Initial Spares:**

**25.1** Initial spares shall be capitalised as a percentage of the Plant and Machinery cost, subject to following ceiling norms:

- (a) Coal-based thermal generating stations - 4.0%
- (b) Hydro generating stations including pumped storage hydro generating station - 4.0%

Provided that the Plant and Machinery cost shall be considered as the original project cost excluding IDC, IEDC, Land Cost and Civil Works. The generating company for the purpose of estimating Plant and Machinery Cost, shall submit the break-up of head-wise IDC and IEDC in its tariff application.

**CHAPTER – 6****COMPUTATION OF ADDITIONAL CAPITAL EXPENDITURE****26. Additional Capitalisation within the original scope and upto cut-off date:**

**26.1** The additional capital expenditure in respect of the new project or an existing project incurred or projected to be incurred, on the following counts within the original scope of work, after the date of commercial operation and up to the cut-off date may be admitted by the Commission, subject to prudence check:

- (i) Un-discharged liabilities recognized to be payable at a future date;
- (ii) Works deferred for execution;
- (iii) Procurement of initial capital spares within the original scope of work, in accordance with the provisions of Regulation 25 of these Regulations;
- (iv) Liabilities to meet award of arbitration or for compliance of the directions or order of the any statutory authority or the order or decree of a court of law;
- (v) Change in law or compliance of any existing law; and
- (vi) Force Majeure events:

Provided that in case of any replacement of the assets, the additional capitalization shall be worked out after adjusting the gross fixed assets and cumulative depreciation of the assets replaced on account of de-capitalization.

**26.2** The generating company shall submit the details of works asset wise/work wise included in the original scope of work along with estimates of expenditure, liabilities recognized to be payable at a future date and the works deferred for execution along with the application for determination of tariff.

**27. Additional Capitalization within the original scope and after the cut-off date:**

**27.1** The additional capital expenditure incurred or projected to be incurred in respect of an existing project or a new project on the following counts within the original scope of work and after the cut-off date may be admitted by the Commission, subject to prudence check:

- (i) Liabilities to meet award of arbitration or for compliance of the directions or order of any statutory authority, or order or decree of any court of law;
- (ii) Change in law or compliance of any existing law:

- (iii) Deferred works relating to ash pond or ash handling system including ash transportation facility in the original scope of work;
- (iv) Liability for works executed prior to the cut-off date;
- (v) Force majeure events;
- (vi) Liability for works admitted by the Commission after the cut-off date to the extent of discharge of such liabilities by actual payment; and
- (vii) Additional capitalization on account of raising of ash dyke as a part of ash disposal system.

**27.2** In case of replacement of assets deployed under the original scope of the existing project after cut-off date, the additional capitalization may be admitted by the Commission, after making necessary adjustments in the gross fixed assets and the cumulative depreciation, subject to prudence check on the following grounds:

- (a) The useful life of the assets is not commensurate with the useful life of the project and such assets have been fully depreciated in accordance with the provisions of these Regulations;
- (b) The replacement of the asset or equipment if necessary, on account of change in law or Force Majeure conditions;
- (c) The replacement of such asset or equipment is necessary on account of obsolescence of technology; and
- (d) The replacement of such asset or equipment has otherwise been allowed by the Commission.

**28. Additional Capitalization beyond the original scope:**

**28.1** The capital expenditure in respect of existing generating station incurred or projected to be incurred on the following counts beyond the original scope, may be admitted by the Commission, subject to prudence check:

- (a) Liabilities to meet award of arbitration or for compliance of the order or directions of the any statutory authority, or order or decree of any court of law;
- (b) Change in law or compliance of any existing law;
- (c) Force Majeure Events;
- (d) Any capital expenditure to be incurred on account of need for higher security

and safety of the plant as advised or directed by appropriate Government Agencies or statutory authorities responsible for national security/ internal security;

- (e) Deferred works relating to ash pond or ash handling system in addition to the original scope of work, on case to case basis:

Provided that if any expenditure has been claimed under Renovation and Modernisation (R&M) or repairs and maintenance under O&M expenses, the same expenditure cannot be claimed under this Regulation; and

- (f) Usage of water from sewage treatment plant in thermal generating station.

**28.2** In case of de-capitalisation of assets of a generating company, the original cost of such asset as on the date of de- capitalisation shall be deducted from the value of gross fixed asset and corresponding loan as well as equity shall be deducted from outstanding loan and the equity respectively in the year such de-capitalisation takes place with corresponding adjustments in cumulative depreciation and cumulative repayment of loan, duly taking into consideration the year in which it was capitalised.

**29. Additional Capitalization on account of Renovation and Modernisation:**

**29.1** The generating company, intending to undertake renovation and modernization (R&M) of the generating station or unit thereof for the purpose of extension of life beyond the originally recognised useful life for the purpose of tariff, shall file a petition before the Commission for approval of the proposal with a Detailed Project Report giving complete scope, justification, cost-benefit analysis, estimated life extension from a reference date, financial package, phasing of expenditure, schedule of completion, reference price level, estimated completion cost including foreign exchange component, if any, and any other information considered to be relevant by the generating company:

Provided that the generating company making the applications for R&M will not be eligible for Special allowance under Regulation 30 of these Regulations:

Provided further that, the generating company intending to undertake R&M shall be required to obtain the consent of the beneficiaries for such R&M and submit

the same along with the petition.

**29.2** Where the generating company makes an application for approval of its proposal for renovation and modernization, the approval may be granted after due consideration of reasonableness of the proposed cost estimates, financing plan, schedule of completion, interest during construction, use of efficient technology, cost-benefit analysis, expected duration of life extension, consent of the beneficiaries, if obtained, and such other factors as may be considered relevant by the Commission.

**29.3** After completion of R&M, the generating company shall file a petition for determination of tariff. Expenditure incurred or projected to be incurred and admitted by the Commission after prudence check, and after deducting the accumulated depreciation already recovered from the admitted project cost, shall form the basis for determination of tariff.

**30. Special allowance for Coal-based Thermal Generating station:**

**30.1** In case of coal-based thermal generating station, the generating company, instead of availing R&M may opt to avail a "special allowance" in accordance with the norms specified in this Regulation, as compensation for meeting the requirement of expenses including renovation and modernisation beyond the useful life of the generating station or a unit thereof, and in such an event, upward revision of the capital cost shall not be allowed and the applicable operational norms shall not be relaxed but the special allowance shall be included in the annual fixed cost:

Provided that such option shall not be available for a generating station or unit thereof for which renovation and modernization has been undertaken and the expenditure has been admitted by the Commission before commencement of these Regulations, or for a generating station or unit which is in a depleted condition or operating under relaxed operational and performance norms:

Provided further that special allowance shall also be available for a generating station which has availed the special allowance during the tariff period 2013-14 to 2015-16 or 2016-17 to 2018-19 as applicable from the date of

completion of the useful life.

- 30.2** The special allowance admissible to the generating station shall be @ Rs. 9.5 lakh/MW/year for the tariff period 2019-24.
- 30.3** In the event of granting special allowance by the Commission, the expenditure incurred or utilized from special allowance shall be maintained separately by the generating station and details of same shall be made available to the Commission as and when directed to furnish details of such expenditure.
- 30.4** The special allowance allowed under this Regulation shall be transferred to a separate fund for utilization towards Renovation & Maintenance activities, for which detailed methodology shall be issued separately.
- 31. Additional Capitalization on account of Revised Emission Standards:**
- 31.1** A generating company requiring to incur additional capital expenditure in the existing generating station for compliance of the revised emission standards shall share its proposal with the beneficiaries and file a petition before Commission for undertaking such additional capitalization.
- 31.2** The proposal under clause above shall contain details of proposed technology as specified by the Central Electricity Authority, scope of the work, phasing of expenditure, schedule of completion, estimated completion cost including foreign exchange component, if any, detailed computation of indicative impact on tariff to the beneficiaries, and any other information considered to be relevant by the generating company.
- 31.3** Where the generating company makes an application for approval of additional capital expenditure on account of implementation of revised emission standards, the Commission may grant approval after due consideration of the reasonableness of the cost estimates, financing plan, schedule of completion, interest during construction, use of efficient technology, and such other factors as may be considered relevant by the Commission.
- 31.4** After completion of the implementation of revised emission standards, the

generating company shall file a petition for determination of tariff. Any expenditure incurred or projected to be incurred and admitted by the Commission after prudence check based on reasonableness of the cost and impact on operational parameters shall form the basis of determination of tariff.

**32. Sale of Infirm Power:**

- 32.1** Supply of infirm power shall be accounted as deviation and shall be paid for from the regional/ state deviation settlement fund accounts in accordance with the Central Electricity Regulatory Commission (Deviation Settlement Mechanism and Related matters) Regulations, 2014, as amended from time to time or any subsequent re-enactment thereof:

Provided that any revenue earned by the generating company from supply of infirm power after accounting for the fuel expenses shall be applied in adjusting the capital cost accordingly.

**33. Debt-Equity Ratio:**

- 33.1** For new projects, the debt-equity ratio of 70:30 as on date of commercial operation shall be considered. If the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as normative loan:

Provided that:

- (a) where equity actually deployed is less than 30% of the capital cost, actual equity shall be considered for determination of tariff;
- (b) the equity invested in foreign currency shall be designated in Indian rupees on the date of each investment; and
- (c) any grant obtained for the execution of the project shall not be considered as a part of capital structure for the purpose of debt : equity ratio:

**Explanation:** The premium, if any, raised by the generating company while issuing share capital and investment of internal resources created out of its free reserve, for the funding of the project, shall be reckoned as paid up capital for the purpose of computing return on equity, only if such premium amount and internal resources are actually utilised for meeting the capital expenditure of the generating station.



**33.2** The generating company shall submit the resolution of the Board of the company regarding infusion of fund from internal resources in support of the utilization made or proposed to be made to meet the capital expenditure of the generating station.

**33.3** In case of the generating station declared under commercial operation prior to 1.4.2019, debt- equity ratio allowed by the Commission for determination of tariff for the period ending 31.3.2019 shall be considered:

Provided that in case of a generating station which has completed its useful life as on or after 01.04.2019, if the equity actually deployed as on 01.04.2019 is more than 30% of the capital cost, equity in excess of 30% shall not be taken into account for tariff determination.

**33.4** In case of the generating station declared under commercial operation prior to 1.4.2019, but where debt: equity ratio has not been determined by the Commission for determination of tariff for the period ending 31.3.2019, the Commission shall approve the debt : equity in accordance with Regulation 33.1 of these Regulations.

**33.5** Any expenditure incurred or projected to be incurred on or after 1.4.2019 as may be admitted by the Commission as additional capital expenditure for determination of tariff, and Renovation and Modernisation expenditure for life extension shall be serviced in the manner specified in Regulation 33.1 of these Regulations.

**CHAPTER – 7**  
**COMPUTATION OF ANNUAL FIXED COST**

**34. Return on Equity:**

**34.1** Return on equity shall be computed in rupee terms on the equity base determined in accordance with Regulation.33 of these Regulations.

**34.2** Return on equity shall be computed at the base rate of 15.50% for thermal generating stations and hydro generating stations and at the base rate of 16.50% for the pumped storage hydro generating stations and run-of river generating stations with pondage:

Provided that:

- (i) in case of a new project, the rate of return of a new project shall be reduced by 1.00% for such period as may be decided by the Commission, if the generating station is found to be declared under commercial operation without commissioning of any of the Restricted Governor Mode Operation (RGMO)/ Free Governor Mode Operation (FGMO):
- (ii) in case of existing generating station any of the above requirements are found lacking based on the report submitted by the respective SLDC/RLDC, RoE shall be reduced by 1% for the period for which the deficiency continues;
- (iii) in case of a thermal generating station, with effect from 1.04.2020:
  - (a) rate of return on equity shall be reduced by 0.25% in case of failure to achieve the ramp rate of 1% per minute:
  - (b) an additional rate of return on equity of 0.25% shall be allowed for every incremental ramp rate of 1% per minute achieved over and above the ramp rate of 1% per minute, subject to ceiling of additional rate of return on equity of 1.00%:

Provided that the detailed guidelines in this regard shall be issued by National Load Despatch Centre.

**35. Tax on Return on Equity:**

**35.1** The base rate of return on equity as allowed by the Commission under Regulation 34 shall be grossed up with the effective tax rate of the respective financial year. For this purpose, the effective tax rate shall be considered on the basis of actual tax paid in the respective financial year in line with the provisions of the relevant Finance Acts by the concerned generating company. The actual income tax on other income stream including deferred tax liability (i.e., income from non-generation business) shall be excluded for the calculation of "effective tax rate".

**35.2** Rate of return on equity shall be rounded off to three decimal places and shall be computed as per the formula given below:

$$\text{Rate of pre-tax return on equity} = \text{Base rate} / (1-t)$$

Where "t" is the effective tax rate in accordance with Regulation 35.1 of these Regulations and shall be calculated at the beginning of every financial year based on the estimated profit and tax to be paid estimated in line with the provisions of the relevant Finance Act applicable for that financial year to the company on pro-rata basis by excluding the income of non-generation business and the corresponding tax thereon. In case of generating company paying Minimum Alternate Tax (MAT), "t" shall be considered as MAT rate including surcharge and cess.

**Illustration.-**

- (a) In case of the generating company paying Minimum Alternate Tax (MAT) @ 21.55 % including surcharge and cess:
- (b) Rate of return on equity =  $15.50 / (1 - 0.2155) = 19.758\%$
- (c) In case of generating company paying normal corporate tax -including surcharge and cess:
  - (i) Estimated Gross Income from generation business for FY2019-20 is Rs 1000 crore,
  - (ii) Estimated Advance Tax for the year on above is Rs 240 crore,
  - (iii) Effective Tax Rate for the year 2019-20 =  $\text{Rs } 240 \text{ Crore} / \text{Rs } 1000 \text{ Crore} = 24\%$ ,
  - (iv) Rate of return on equity =  $15.50 / (1 - 0.24) = 20.395\%$ .

**35.3** The generating company shall true-up the grossed up rate of return on equity at the end of every financial year based on actual tax paid together with any additional tax demand including interest thereon, duly adjusted for any refund of tax including interest received from the income tax authorities pertaining to the tariff period 2019-20 to 2023-24 on actual gross income of any financial year. However, penalty, if any, arising on account of delay in deposit or short deposit of tax amount shall not be claimed by the generating company. Any under-recovery or over-recovery of grossed up rate on return on equity after truing up, shall be allowed to be recovered or refunded to beneficiaries on year to year basis.

**36. Interest on Loan Capital:**

**36.1** The loans arrived at in the manner indicated in Regulation 33 of these Regulations shall be considered as gross normative loan for calculation of interest on loan.

**36.2** The normative loan outstanding as on 1.4.2019 shall be worked out by deducting the cumulative repayment as admitted by the Commission up to 31.3.2019 from the gross normative loan. The repayment for each of the year of the tariff period 2019-24 shall be deemed to be equal to the depreciation allowed for the corresponding year/period. In case of de-capitalization of assets, the repayment shall be adjusted by taking into account cumulative repayment on a pro rata basis and the adjustment should not exceed cumulative depreciation recovered upto the date of de-capitalisation of such asset.

**36.3** Notwithstanding any moratorium period availed by the generating company, the repayment of loan shall be considered from the first year of commercial operation of the project and shall be equal to the depreciation allowed for the year or part of the year.

**36.4** The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio after providing appropriate accounting adjustment for interest capitalized:

Provided that if there is no actual loan for a particular year but normative loan is still outstanding, the last available weighted average rate of interest shall be

considered:

Provided further that if the generating station does not have actual loan, then the weighted average rate of interest of the generating company as a whole shall be considered.

**36.5** The interest on loan shall be calculated on the normative average loan of the year by applying the weighted average rate of interest.

**37. Depreciation:**

**37.1** Depreciation shall be computed from the date of commercial operation of a generating station or unit thereof. In case of the tariff of all the units of a generating station for which a single tariff needs to be determined, the depreciation shall be computed from the effective date of commercial operation of the generating station taking into consideration the depreciation of individual units:

Provided that effective date of commercial operation shall be worked out by considering the actual date of commercial operation and installed capacity of all the units of the generating station for which single tariff needs to be determined.

**37.2** The value base for the purpose of depreciation shall be the capital cost of the asset admitted by the Commission. In case of multiple units of a generating station, weighted average life for the generating station shall be applied.

**37.3** The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset:

Provided that in case of hydro generating station, the salvage value shall be as provided in the agreement, if any, signed by the developers with the State Government for development of the generating station:

Provided further that the capital cost of the assets of the hydro generating station for the purpose of computation of depreciated value shall correspond to the percentage of sale of electricity under long-term power purchase agreement at regulated tariff:

Provided also that any depreciation disallowed on account of lower availability of the generating station or generating unit shall not be allowed to be recovered at a later stage during the useful life or the extended life:

Provided also that the salvage value for IT equipment and software shall be considered as NIL and 100% value of the assets shall be considered depreciable.

**37.4** Land other than the land held under lease and the land for reservoir in case of hydro generating station shall not be a depreciable asset and its cost shall be excluded from the capital cost while computing depreciable value of the asset.

**37.5** Depreciation shall be calculated annually based on 'Straight Line Method' and at rates specified in **Appendix-I** to these Regulations for the assets of the generating station.

**37.6** Depreciation shall be chargeable from the first Year of commercial operation. In case of commercial operation of the asset for part of the Year, depreciation shall be charged on pro rata basis:

Provided that the remaining depreciable value as on 31<sup>st</sup> March of the year closing after a period of 12 years from the effective date of commercial operation of the station shall be spread over the balance useful life of the assets.

**37.7** In case of the existing projects, the balance depreciable value as on 1.4.2019 shall be worked out by deducting the cumulative depreciation as admitted by the Commission upto 31.3.2019 from the gross depreciable value of the assets.

**37.8** The generating company shall submit the details of proposed capital expenditure five years before the completion of useful life of the project along with justification and proposed life extension. The Commission based on prudence check of such submissions shall approve the depreciation on capital expenditure during the final end of the project.

**37.9** In case of de-capitalization of assets in respect of generating station or unit thereof, the cumulative depreciation shall be adjusted by taking into account the

depreciation recovered in tariff by the de-capitalized asset during its useful services.

**38. Interest on Working Capital :**

**38.1** The working capital shall cover:

**A. Coal-based thermal generating stations**

- (i) Cost of coal towards stock, if applicable, for 15 days for pit-head generating stations and 30 days for non-pit-head generating stations for generation corresponding to the normative annual plant availability factor or the maximum coal stock storage capacity whichever is lower;
- (ii) Advance payment for 30 days towards cost of coal for generation corresponding to the normative annual plant availability factor;
- (iii) Cost of secondary fuel oil for two months for generation corresponding to the normative annual plant availability factor, and in case of use of more than one secondary fuel oil, cost of fuel oil stock for the main secondary fuel oil;
- (iv) Maintenance spares @ 20% of operation and maintenance expenses specified in Regulation 39 and 40 of these Regulations;
- (v) Receivables equivalent to 45 days of capacity charges and energy charges for sale of electricity calculated on the normative annual plant availability factor; and
- (vi) Operation and maintenance expenses for one month.

**B. Hydro generating station, (including pumped storage hydro generating stations) the working capital shall include:**

- (i) Receivables equivalent to 45 days of Annual fixed cost;
- (ii) Maintenance spares @ 15% of operation and maintenance expenses specified in Regulation 39 and 41 of these Regulations; and
- (iii) Operation and maintenance expenses for one month.

**38.2** The cost of fuel shall be based on the landed fuel cost incurred (taking into account normative transit and handling losses) by the generating station and gross calorific value of the fuel as per actual weightage average for the three months preceding the first month for which tariff is to be determined and no fuel price escalation shall be provided during the tariff period:

Provided that in case of new generating station, the cost of fuel for the first financial year shall be considered based on landed fuel cost (taking into account normative transit and handing losses) and gross calorific value of the fuel as per actual weighted average for three months, as used for infirm power, preceding date of commercial operation for which tariff is to be determined.

- 38.3** Rate of interest on working capital shall be on normative basis and shall be considered as the bank rate as on 1.4.2019 or as on 1st April of the year during the tariff period 2019-20 to 2023-24 in which the generating station or a unit thereof, is declared under commercial operation, whichever is later:

Provided that in case of truing-up, the rate of interest on working capital shall be considered at bank rate as on 1<sup>st</sup> April of each of the financial year during the tariff period 2019-24.

- 38.4** Interest on working capital shall be payable on normative basis notwithstanding that the generating company has not taken loan for working capital from any outside agency.

**39. Operation and Maintenance Expenses:**

- 39.1** Operation and Maintenance Expenses for thermal and hydro power stations for the Tariff period shall be determined based on normative O&M expenses specified by the Commission in these Regulations. The normative operation and maintenance expenses for the thermal generating stations are specified separately for the thermal power stations declared under commercial operation on or before 31.03.2012 and the power stations declared under commercial operation on or after 01.04.2012.

- 39.2** The cost components for employee expenses, repair & maintenance expenses and administrative and general expenses are considered as per Regulations 40.1 and 41.2 of these Regulations. The figures of Operation and Maintenance expenses including employee expenses, repair and maintenance expenses, and administrative and general expenses in FY 2018-19 provided in MPERC (Terms and Conditions for determination of Generation Tariff) Regulations, 2015 for the



power stations declared under commercial operation prior to 01.04.2012 shall be escalated at the escalation rate of 3.51 % to arrive at the figures for FY 2019-20.

- 39.3** Thereafter, the O&M expenses for the subsequent years of control period shall be determined by escalating the aforesaid O&M norms of FY 2019-20 with the escalation factor @ 3.51 % as considered by the Central Commission in its tariff Regulations, 2019 for the respective financial years to arrive at permissible O&M expenses for each year of the control period.

Provided that in case, the generating stations which have been declared under commercial operation on or after 01.04.2012, the O&M expenses shall be as specified in Regulation 40.2 of these Regulations.

- 39.4** In respect of M.P. Power Generating Company Ltd., the employee expenses considered in the above Operation and Maintenance expenses are excluding the pension and other terminal benefits. The funding of pension and other terminal benefit in respect of personnel including existing pensioners of the Board and the pensioner's of M.P. Power Generating Company Ltd. shall be allowed in accordance with MPERC (Terms and Conditions for allowing pension and terminal benefits liabilities of personnel of the board and successor entities) Regulation's, 2012 (G-38 of 2012) and its amendment, if any.

- 39.5** Increase in O&M charges on account of war, insurgency or changes in laws, or like eventualities where the Commission is of the opinion that an increase in O&M charges is justified, may be considered by the Commission for a specified period.

- 39.6** Any saving achieved by a generating company in any Year shall be allowed to be retained by it. The generating company shall bear the loss if it exceeds the targeted O&M expenses for that Year.

**40. Normative Operation and Maintenance expenses of thermal generating stations shall be as follows:**

- 40.1 Operation and Maintenance Expenses of Thermal Power Stations achieved COD prior to 01.04.2012:**

The Operation and Maintenance expenses admissible to the thermal power stations declared under commercial operation prior to 01.04.2012 comprise of employee cost, Repair & Maintenance (R&M) cost and Administrative and General (A&G) cost. These norms for O&M exclude Pension and Terminal Benefits, EL encashment, and arrears to be paid to employees, taxes payable to the Government, and fees payable to MPERC. The generating company shall claim the rate, rent & taxes payable to the Government, cost of chemicals and consumables, fees to be paid to MPERC, EL encashment and any arrears paid to employees separately as actual. If the O&M expenses as per norms provided in these Regulations are more than the actual total O&M expenses including arrears if any, as per audited accounts of generating company, the O&M expenses to the extent of normative O&M expenses shall be allowed. The claim of pension and Terminal Benefits shall be dealt as per Regulation 39.4 of these Regulations.

**O&M Norms for Thermal Generating Units achieved COD prior to 01.04.2012:**

**Rs. in Lakh / MW**

Units (MW)	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
200/210/250	28.30	29.29	30.32	31.39	32.49
500	22.72	23.52	24.34	25.20	26.08

**40.2 O&M Norms for the Thermal Generating Units achieved COD on or after 01.04.2012 :**

**(Rs. in Lakhs / MW)**

Units (MW)	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
45 MW	37.51	38.83	40.19	41.60	43.06
200/210/250 MW	32.96	34.12	35.31	36.56	37.84
300 MW Series	27.74	28.71	29.72	30.76	31.84
500 MW Series	22.51	23.30	24.12	24.97	25.84
600/660 MW Series	20.26	20.97	21.71	22.47	23.26
800 MW Series and above	18.23	18.87	19.54	20.22	20.93

Provided that where the date of commercial operation of any additional unit(s) of a generating station after first four units occurs on or after 1.4.2019, the O&M expenses of such additional unit(s) shall be admissible at 90% of the

operation and maintenance expenses as specified above:

Provided further that water charges shall be allowed based on water consumption depending upon type of plant, type of cooling water system etc., subject to prudence check. The details regarding the same shall be furnished along with the petition:

Provided also that the generating station shall submit the details of year wise actual capital spares consumed at the time of truing up with appropriate justification for incurring the same and substantiating that the same is not funded through compensatory allowance or special allowance or claimed as a part of additional capitalization or consumption of stores and spares and renovation & modernization.

**41. Normative Operation and Maintenance expenses of hydel generating stations shall be as follows:**

- 41.1** The Operation and Maintenance expenses admissible to existing hydro power stations comprise of employee cost, Repair & Maintenance (R&M) cost and Administrative and General (A&G) cost. These norms for O&M exclude Pension and Terminal Benefits, EL encashment, and arrears to be paid to employees, taxes payable to the Government, and fees payable to MPERC. The generating company shall claim the rate, rent & taxes payable to the Government, cost of chemicals and consumables, fees to be paid to MPERC, EL encashment and any arrears paid to employees separately as actual. If the O&M expenses as per norms provided in these Regulations are more than the actual total O&M expenses including arrears if any, as per audited accounts of generating company, the O&M expenses to the extent of normative O&M expenses shall be allowed. The claim of pension and Terminal Benefits shall be dealt as per Regulation 39.4 of these Regulations.
- 41.2** The following operations and maintenance expenses norms shall be applicable for the existing hydro generating stations which have achieved COD prior to 01.04.2019:

**O&M Norms for Hydel Power Stations**

Year	O&M Expenses in Rs. in lakh/MW
FY 2019-20	11.34
FY 2020-21	11.74
FY 2021-22	12.16
FY 2022-23	12.58
FY 2023-24	13.02

- 41.3** In case of the new hydro generating stations declared under commercial operation on or after 1.4.2019, operation and maintenance expenses shall be fixed at 3.5% and 5.0% of the original project cost (excluding cost of rehabilitation & resettlement works, IDC and IEDC) for first year of commercial operation for stations with installed capacity of 200 MW and above and for stations with installed capacity less than 200 MW, respectively.

**CHAPTER – 8****COMPUTATION OF CAPACITY CHARGES AND ENERGY CHARGES****42. Computation and Payment of Capacity Charge for Thermal Generating Stations:**

**42.1** The fixed cost of a thermal generating station shall be computed on annual basis, based on norms specified under these Regulations, and recovered on monthly basis under capacity charge. The total capacity charge payable for a generating station shall be shared by its beneficiaries as per their respective percentage share/ allocation in the capacity of the generating station. The capacity charge shall be recovered under two segments of the year, i.e. High Demand Season (period of three months) and Low Demand Season (period of remaining nine months), and within each season in two parts viz, Capacity Charge for Peak Hours of the month and Capacity Charge for Off-Peak hours of the month as follows:

Capacity Charge for the Year (CC<sub>y</sub>) =

Sum of Capacity Charge for three months of High Demand Season + Sum of Capacity Charge for nine months of Low Demand Season

**42.2** The Capacity Charge payable to a thermal generating station for a calendar month shall be calculated in accordance with the following formulae:

Capacity Charge for the Month (CC<sub>m</sub>) = Capacity Charge for Peak Hours of the Month (CC<sub>p</sub>) + Capacity Charge for Off-Peak Hours of the Month (CC<sub>op</sub>)

Where,

**High Demand Season:**

$$CC_{p1} = (0.20 \times AFC) \times \left(\frac{1}{12}\right) \times \left(\frac{PAFMp1}{NAFAF}\right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left(\frac{1}{12}\right)$$

$$CC_{p2} = \left\{ (0.20 \times AFC) \times \left(\frac{1}{6}\right) \times \left(\frac{PAFMp2}{NAFAF}\right) \text{ subject to ceiling of } \right.$$

$$\left. (0.20 \times AFC) \times \left(\frac{1}{6}\right) \right\} - CC_{p1}$$

$$CC_{p3} = \left\{ (0.20 \times AFC) \times \left(\frac{1}{4}\right) \times \left(\frac{PAFMp3}{NAPAF}\right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left(\frac{1}{4}\right) \right\} - (CC_{p1} + CC_{p2})$$

$$CC_{op1} = \left\{ (0.80 \times AFC) \times \left(\frac{1}{12}\right) \times \left(\frac{PAFMop1}{NAPAF}\right) \text{ subject to ceiling of } (0.80 \times AFC) \times \left(\frac{1}{12}\right) \right\}$$

$$CC_{op2} = \left\{ (0.80 \times AFC) \times \left(\frac{1}{6}\right) \times \left(\frac{PAFMop2}{NAPAF}\right) \text{ subject to ceiling of } (0.80 \times AFC) \times \left(\frac{1}{6}\right) \right\} - CC_{op1}$$

$$CC_{op3} = \left\{ (0.80 \times AFC) \times \left(\frac{1}{4}\right) \times \left(\frac{PAFMop3}{NAPAF}\right) \text{ subject to ceiling of } (0.80 \times AFC) \times \left(\frac{1}{4}\right) \right\} - (CC_{op1} + CC_{op2})$$

#### **Low Demand Season:**

$$CC_{p1} = \left\{ (0.20 \times AFC) \times \left(\frac{1}{12}\right) \times \left(\frac{PAFMp1}{NAPAF}\right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left(\frac{1}{12}\right) \right\}$$

$$CC_{p2} = \left\{ (0.20 \times AFC) \times \left(\frac{1}{6}\right) \times \left(\frac{PAFMp2}{NAPAF}\right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left(\frac{1}{6}\right) \right\} - CC_{p1}$$

$$CC_{p3} = \left\{ (0.20 \times AFC) \times \left(\frac{1}{4}\right) \times \left(\frac{PAFMp3}{NAPAF}\right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left(\frac{1}{4}\right) \right\} - (CC_{p1} + CC_{p2})$$

$$CC_{p4} = \left\{ (0.20 \times AFC) \times \left(\frac{1}{3}\right) \times \left(\frac{PAFMp4}{NAPAF}\right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left(\frac{1}{3}\right) \right\} - (CC_{p1} + CC_{p2} + CC_{p3})$$

$$CC_{p5} = \left\{ (0.20 \times AFC) \times \left(\frac{5}{12}\right) \times \left(\frac{PAFMp5}{NAPAF}\right) \text{ subject to ceiling of } (0.20 \times AFC) \times \left(\frac{5}{12}\right) \right\} - (CC_{p1} + CC_{p2} + CC_{p3} + CC_{p4})$$

$$\begin{aligned}
CC_{p6} &= \left\{ (0.20 \times AFC) \times \left( \frac{1}{2} \right) \times \left( \frac{PAFMp6}{NAPAF} \right) \right\} \text{ subject to ceiling of} \\
&\quad \left\{ (0.20 \times AFC) \times \left( \frac{1}{2} \right) \right\} - (CCp1 + CCp2 + CCp3 + CCp4 + CCp5) \\
CC_{p7} &= \left\{ (0.20 \times AFC) \times \left( \frac{7}{12} \right) \times \left( \frac{PAFMp7}{NAPAF} \right) \right\} \text{ subject to ceiling of} \\
&\quad \left\{ (0.20 \times AFC) \times \left( \frac{7}{12} \right) \right\} - (CCp1 + CCp2 + CCp3 + CCp4 + CCp5 + CCp6) \\
CC_{p8} &= \left\{ (0.20 \times AFC) \times \left( \frac{2}{3} \right) \times \left( \frac{PAFMp8}{NAPAF} \right) \right\} \text{ subject to ceiling of} \\
&\quad \left\{ (0.20 \times AFC) \times \left( \frac{2}{3} \right) \right\} - (CCp1 + CCp2 + CCp3 + CCp4 + CCp5 + CCp6 + \\
&\quad CCp7) \\
CC_{p9} &= \left\{ (0.20 \times AFC) \times \left( \frac{3}{4} \right) \times \left( \frac{PAFMp9}{NAPAF} \right) \right\} \text{ subject to ceiling of} \\
&\quad \left\{ (0.20 \times AFC) \times \left( \frac{3}{4} \right) \right\} - (CCp1 + CCp2 + CCp3 + CCp4 + CCp5 + CCp6 + \\
&\quad CCp7 + CCp8) \\
CC_{op1} &= \left\{ (0.80 \times AFC) \times \left( \frac{1}{12} \right) \times \left( \frac{PAFMop1}{NAPAF} \right) \right\} \text{ subject to ceiling of } (0.80 \times AFC) \times \left( \frac{1}{12} \right) \\
CC_{op2} &= \left\{ (0.80 \times AFC) \times \left( \frac{1}{6} \right) \times \left( \frac{PAFMop2}{NAPAF} \right) \right\} \text{ subject to ceiling of} \\
&\quad \left\{ (0.80 \times AFC) \times \left( \frac{1}{6} \right) \right\} - CCop1 \\
CC_{op3} &= \left\{ (0.80 \times AFC) \times \left( \frac{1}{4} \right) \times \left( \frac{PAFMop3}{NAPAF} \right) \right\} \text{ subject to ceiling of} \\
&\quad \left\{ (0.80 \times AFC) \times \left( \frac{1}{4} \right) \right\} - (CCop1 + CCop2) \\
CC_{op4} &= \left\{ (0.80 \times AFC) \times \left( \frac{1}{3} \right) \times \left( \frac{PAFMop4}{NAPAF} \right) \right\} \text{ subject to ceiling of} \\
&\quad \left\{ (0.80 \times AFC) \times \left( \frac{1}{3} \right) \right\} - (CCop1 + CCop2 + CCop3)
\end{aligned}$$

$$CC_{op5} = \left\{ (0.80 \times AFC) \times \left( \frac{5}{12} \right) \times \left( \frac{PAFMop5}{NAPAF} \right) \right\} \text{ subject to ceiling of } \\ (0.80 \times AFC) \times \left( \frac{5}{12} \right) - (CCop1 + CCop2 + CCop3 + CCop4)$$

$$CC_{op6} = \left\{ (0.80 \times AFC) \times \left( \frac{1}{2} \right) \times \left( \frac{PAFMop6}{NAPAF} \right) \right\} \text{ subject to ceiling of } \\ (0.80 \times AFC) \times \left( \frac{1}{2} \right) - (CCop1 + CCop2 + CCop3 + CCop4 + CCop5)$$

$$CC_{op7} = \left\{ (0.80 \times AFC) \times \left( \frac{7}{12} \right) \times \left( \frac{PAFMop7}{NAPAF} \right) \right\} \text{ subject to ceiling of } \\ (0.80 \times AFC) \times \left( \frac{7}{12} \right) - (CCop1 + CCop2 + CCop3 + CCop4 + CCop5 + \\ CCop6)$$

$$CC_{op8} = \left\{ (0.80 \times AFC) \times \left( \frac{2}{3} \right) \times \left( \frac{PAFMop8}{NAPAF} \right) \right\} \text{ subject to ceiling of } \\ (0.80 \times AFC) \times \left( \frac{2}{3} \right) - (CCop1 + CCop2 + CCop3 + CCop4 + CCop5 + \\ CCop6 + CCop7)$$

$$CC_{op9} = \left\{ (0.80 \times AFC) \times \left( \frac{3}{4} \right) \times \left( \frac{PAFMop9}{NAPAF} \right) \right\} \text{ subject to ceiling of } \\ (0.80 \times AFC) \times \left( \frac{3}{4} \right) - (CCop1 + CCop2 + CCop3 + CCop4 + CCop5 + CCop6 + \\ CCop7 + CCop8)$$

Provided that in case of generating station or unit thereof under shutdown due to Renovation and Modernisation, the generating company shall be allowed to recover O&M expenses and interest on loan only.

Where,

- CC<sub>m</sub> = Capacity Charge for the Month;  
 CC<sub>p</sub> = Capacity Charge for the Peak Hours of the Month;  
 CC<sub>op</sub> = Capacity Charge for the Off-Peak Hours of the Month;  
 CC<sub>pn</sub> = Capacity Charge for the Peak Hours of n<sup>th</sup> Month in a specific Season;  
 CC<sub>opn</sub> = Capacity Charge for the Off-Peak of n<sup>th</sup> Month in a specific Season;  
 AFC = Annual Fixed Cost;

- PAFM<sub>pn</sub> = Plant Availability Factor achieved during Peak Hours upto the end of n<sup>th</sup> Month in a Season;
- PAFM<sub>opn</sub> = Plant Availability Factor achieved during Off-Peak Hours upto the end of n<sup>th</sup> Month in a Season;
- NAPAF = Normative Annual Plant Availability Factor.

**42.3** Normative Plant Availability Factor for “Peak” and “Off-Peak” Hours in a month shall be equivalent to the NAPAF specified in Regulation 49 of these Regulations. The number of hours of “Peak” and “Off-Peak” periods during a day shall be four and twenty respectively. The hours of Peak and Off-Peak periods during a day shall be declared by the concerned Load Despatch Centre (LDC) at least a week in advance. The High Demand Season (period of three months, consecutive or otherwise) and Low Demand Season (period of remaining nine months, consecutive or otherwise) in a region shall be declared by the concerned Load Despatch Centre, at least six months in advance:

Provided that the concerned LDC, after duly considering the comments of the concerned stakeholders, shall declare Peak Hours and High Demand Season in such a way as to coincide with the majority of the Peak Hours and High Demand Season of the state to the maximum extent possible:

Provided further that in respect of a generating station having beneficiaries across different regions of the State, the High Demand Season and the Peak Hours shall correspond to the High Demand Season and Peak Hours of such region in which majority of its beneficiaries, in terms of percentage of allocation of share, are located.

**42.4** Any under-recovery or over-recovery of Capacity Charge as a result of under-achievement or over-achievement, vis-à-vis the NAPAF in Peak and Off-Peak Hours of a Season (High Demand Season or Low Demand Season, as the case may be) shall not be adjusted with under-achievement or over-achievement, vis-à-vis the NAPAF in Peak and Off-Peak Hours of the other Season:

Provided that within a Season, the shortfall in recovery of Capacity Charge



for cumulative Off-Peak Hours derived based on NAPAF, shall be allowed to be off-set by over-achievement of PAF, if any, and consequent notional over-recovery of Capacity Charge for cumulative Peak Hours in that Season:

Provided further that within a Season, the shortfall in recovery of Capacity Charge for cumulative Peak Hours derived based on NAPAF, shall not be allowed to be off-set by over-achievement of PAF, if any, and consequent notional over-recovery of Capacity Charge for cumulative Off-Peak Hours in that Season.

**42.5** The Plant Availability Factor achieved for a Month (PAFM) shall be computed in accordance with the following formula:

$$PAFM = 1000 \times \sum_{i=1}^N \frac{DCi}{[N \times IC \times (100 - Aux)]} \%$$

Where,

AUX= Normative auxiliary energy consumption in percentage.

DCi = Average declared capacity (in ex-bus MW), for the  $i^{th}$  day of the period i.e. the month or the year as the case may be, as certified by the concerned load dispatch centre after the day is over.

IC = Installed Capacity (in MW) of the generating station

N = Number of days during the period

**Note:** DCi and IC shall exclude the capacity of generating units not declared under commercial operation. In case of a change in IC during the concerned period, its average value shall be taken.

**42.6** In addition to the Capacity charge, an incentive to a generating station or unit thereof shall be payable @ **65 paise/kWh** for ex-bus scheduled energy during Peak Hours and @ **50 paise/kWh** for ex-bus scheduled energy during Off-Peak Hours corresponding to scheduled generation in excess of ex-bus energy corresponding to Normative Annual Plant Load Factor (NAPLF) achieved on a cumulative basis within each season (High Demand Season or Low Demand Season, as the case may be), as specified in Regulation 49.2 (e) of these Regulations.

**42.7** The provisions under Regulations 42.1 to 42.6 of these Regulation shall come into

force with effect from 1.04.2020. Till that date, the capacity charge for a thermal generating station determined under these regulations shall be recovered in accordance with the provisions contained in Regulations 36.1 to 36.4 of the Madhya Pradesh Electricity Regulatory Commission (Terms and Conditions for determination of Generation Tariff) Regulations, 2015, subject to the condition that NAPAF and NAPLF shall be taken as specified under these Regulations.

**43. Computation and Payment of Energy Charge for Thermal Generating Stations:**

**43.1** The energy charge shall cover the primary and secondary fuel cost and shall be payable by every beneficiary for the total energy scheduled to be supplied to such beneficiary during the calendar month on ex-power plant basis, at the energy charge rate of the month (with fuel price adjustment). Total Energy charge payable to the generating company for a month shall be:

(Energy charge rate in Rs./kWh) x {Scheduled energy (ex-bus) for the month in kWh.}

**43.2** Energy charge rate (ECR) in Rupees per kWh on ex-power plant basis shall be determined to three decimal places in accordance with the following formula:

$$ECR = \{(SHR - SFC \times CVSF) \times LPPF / CVPF + SFC \times LPSFi\} \times 100 / (100 - AUX)$$

Where,

AUX = Normative auxiliary energy consumption in percentage.

CVPF = Weighted Average Gross calorific value of coal as received, in kCal per kg less 85 Kcal/kg on account of variation during storage at generating station:

Provided that, in case of blending of coal from different sources, the weighted average Gross Calorific Value of coal (primary fuel) shall be arrived in proportion to blending ratio.

CVSF = Calorific value of secondary fuel, in kCal per ml.

ECR = Energy charge rate, in Rupees per kWh sent out.

SHR = Gross station heat rate, in kCal per kWh.

LPPF = Weighted average landed price of coal (primary fuel), in Rupees per kg,

during the month. (In case of blending of coal from different sources, the weighted average landed price of coal shall be arrived in proportion to blending ratio).

SFC = Normative Specific fuel oil consumption, in ml per kWh.

LPSFi = Weighted Average Landed Price of Secondary Fuel in Rs./ml during the month.

- 43.3** In case of part or full use of coal from its alternate source of supply other than as agreed by the generating company and beneficiaries in their power purchase agreement for supply of contracted power on account of shortage of coal or optimization of economical operation through blending, the use of coal from its alternative source of supply shall be permitted to generating station provided that use of such coal is as per extant policy/directives issued by the Government of India:

Provided that in such case, prior permission from beneficiaries shall not be a pre-condition, unless otherwise agreed specifically in the power purchase agreement:

Provided further that the weighted average price of coal use from its alternative source shall not exceed 30% of base price of coal computed as per Regulation 46.3 of these Regulations:

Provided also that where the energy charge rate based on weighted average price of coal including alternative source of coal exceeds 30% of base energy charge rate as approved by the Commission for that year or exceeds 20% of energy charge rate for previous month, whichever is lower shall be considered and in that event, prior consultation with beneficiary shall be made at least three days in advance.

- 43.4** The generating company shall provide to the beneficiaries of the generating station the details of parameters of GCV and price of coal i.e. domestic coal, imported coal, e-auction coal, etc., as per the forms prescribed to these Regulations:

Provided that the details of blending ratio of the imported coal with domestic

coal, proportion of e-auction coal and the weighted average GCV of the coal as received shall also be provided separately, along with the bills of the respective month:

Provided further that copies of the bills and details of parameters of GCV and price of coal i.e. domestic coal, imported coal, e-auction coal, etc., details of blending ratio of the imported coal with domestic coal, proportion of e-auction coal shall also be displayed on the website of the generating company. The details should be available on its website on monthly basis.

**44. Computation of Landed cost of Coal:**

**44.1** The energy charge in respect of the thermal generating Stations shall comprise of landed cost of coal (primary fuel), cost of secondary fuel oil consumption and landed cost of reagents on account of implementation of the revised emission standards.

**44.2** The landed cost of coal for any month shall consist of base price of coal corresponding to the grade and quality of coal inclusive of statutory charges as applicable/allowed by the Commission, washery charges, if any, transportation cost by rail/ road or any other means, and loading, unloading and handling charges:

Provided that procurement of coal at a price other than Government notified prices may be considered, if it is based on competitive bidding through transparent process, for the purpose of landed coal cost:

Provided further that landed cost of coal shall be worked out based on the actual bill paid by the generating company including any adjustment on account of quantity and quality:

Provided also that the Gross Calorific Value of coal shall be measured by third party sampling and the expenses towards the third-party sampling facility shall be reimbursed by the beneficiaries.

**45. Transit and Handling Losses:**

**45.1** For coal, the transit and handling losses shall be as per the following norms:-

<b>Thermal Generating Station</b>	<b>Transit and Handling Loss (%)</b>
Pit head	0.20%
Non-pit head	0.80%

Provided that in case of pit-head stations, if coal is procured from sources other than the pit-head mines which is transported to the station through rail, transit and handling losses applicable for non-pit head station shall apply;

Provided further that in case of imported coal, the transit and handling losses applicable for pit-head station shall apply.

**46. Landed Cost of Reagent:**

**46.1** Where specific reagents such as Limestone, Sodium Bi-Carbonate, Urea or Anhydrous Ammonia are used during operation of emission control system for meeting revised emission standards, the landed cost of such reagents shall be determined based on normative consumption and purchase price of the reagent through competitive bidding, applicable statutory charges and transportation cost.

**46.2** The normative consumption of specific reagent for the various technologies installed for meeting revised emission standards shall be considered as notified by the Central Commission separately.

**46.3** The Commission through the specific tariff orders to be issued for each generating station shall approve the energy charge rate at the start of the tariff period. The energy charge rate so approved shall be the base energy charge rate for the first year of the tariff period. The base energy charge rate for subsequent years shall be the energy charge computed after escalating the base energy charge rate by escalation rates for payment purposes as notified by the Central Commission from time to time for under competitive bidding guidelines.

**47. Computation and Payment of Capacity charge and Energy Charge for Hydro Generating Stations:**

**47.1** The fixed cost of a hydro generating station shall be computed on annual basis, based on norms specified under these Regulations, and shall be recovered on monthly basis under capacity charge (inclusive of incentive) and Energy Charges,

which shall be payable by the beneficiaries in proportion to their respective allocation in the saleable capacity of the generating station, i.e., in the capacity excluding the free power to the home State:

Provided that during the period between the Date of Commercial Operation of the first unit of the generating station and the Date of Commercial Operation of the generating station, the annual fixed cost shall provisionally be worked out based on the latest estimate of the completion cost of the generating station, for the purpose of determining the Capacity Charges and Energy Charges payment during such period.

- 47.2** The capacity charge (inclusive of incentive) payable to a hydro generating station for a calendar month shall be :

$$AFC \times 0.5 \times NDM / NDY \times (PAFM / NAPAF) \text{ (in Rupees)}$$

Where,

AFC = Annual fixed cost specified for the year, in Rupees

NAPAF = Normative plant availability factor in percentage

NDM = Number of days in the month

NDY = Number of days in the year

PAFM = Plant availability factor achieved during the month, in percentage

- 47.3** The PAFM shall be computed in accordance with the following formula:

$$PAFM = \frac{10000 \times \sum_{i=1}^N DC_i}{\{ N \times IC \times (100 - AUX) \}} \%$$

Where

AUX = Normative auxiliary energy consumption in percentage

DC<sub>i</sub> = Declared capacity (in ex-bus MW) for the i<sup>th</sup> day of the month which the station can deliver for at least three (3) hours, as certified by the nodal load dispatch centre after the day is over.

IC = Installed capacity (in MW) of the complete generating station

N = Number of days in the month

**47.4** The energy charge shall be payable by every beneficiary for the total energy scheduled to be supplied to the beneficiary, excluding free energy, if any, during the calendar month, on ex power plant basis, at the computed energy charge rate. Total Energy charge payable to the generating company for a month shall be:

$$(\text{Energy charge rate in Rs. / kWh}) \times \{\text{Scheduled energy (ex-bus) for the month in kWh}\} \times (100 - \text{FEHS}) / 100$$

**47.5** Energy charge rate (ECR) in Rupees per kWh on ex-power plant basis, for a hydro generating station, shall be determined up to three decimal places based on the following formula, subject to the provisions of Regulation 47.7 of these Regulations:

$$\text{ECR} = \text{AFC} \times 0.5 \times 10 / \{ \text{DE} \times (100 - \text{AUX}) \times (100 - \text{FEHS}) \}$$

Where,

DE = Annual design energy specified for the hydro generating station, in MWh, subject to the provision in Regulation 47.6 below.

FEHS = Free energy for home State, in per cent, as mentioned in Regulation 53 of these Regulations.

**47.6** In case the saleable scheduled energy (ex-bus) of a hydro generating station during a year is less than the saleable design energy (ex-bus) for reasons beyond the control of the generating station, the treatment as per Regulation 47.7 of these Regulations shall be applied on an application filed by the generating company.

**47.7** Shortfall in energy charges in comparison to fifty percent of the annual fixed cost shall be allowed to be recovered in six equal monthly installments:

Provided that in case actual generation from a hydro generating station is less than the design energy for a continuous period of 4 years on account of hydrology factor, the generating station shall approach Central Electricity Authority (CEA) with relevant hydrology data for revision of design energy of the station.

**47.8** Any shortfall in the energy charges on account of saleable scheduled energy (ex-bus) being less than the saleable design energy (ex-bus) during the tariff period

2014-19 which was beyond the control of the generating station and which could not be recovered during the said tariff period shall be recovered in accordance with Regulation 47.7 of these Regulations.

**47.9** In case the energy charge rate (ECR) for a hydro generating station, computed as per Regulation 47.5 of these Regulations exceeds one hundred and twenty paise per kWh, and the actual saleable energy in a year exceeds  $\{DE \times (100 - AUX) \times (100 - FEHS) / 10000\}$  MWh, the energy charge for the energy in excess of the above shall be billed at one hundred and twenty paise per kWh only.

**47.10** The concerned Load Despatch Centre shall finalise the schedules for the hydro generating stations in consultation with the Beneficiaries for optimal utilization of all the energy declared to be available, which shall be scheduled for all Beneficiaries in proportion to their respective allocations in the generating station.

**48. Deviation Charges:**

**48.1** Variations between actual net injection and scheduled net injection for the generating stations, and variations between actual net drawal and scheduled net drawal for the beneficiaries shall be treated as their respective deviations and charges for such deviations shall be governed by the Central Electricity Regulatory Commission (Deviation Settlement Mechanism and Related matters) Regulations, 2014, as amended from time to time or any subsequent re-enactment thereof.

**48.2** Actual net deviation of every generating stations and Beneficiaries shall be metered on its periphery through special energy meters (SEMs) installed by the State Transmission Utility (STU), and computed in MWh for each 15-minute time block by the concerned Load Despatch Centre.



**CHAPTER - 9**  
**NORMS OF OPERATION**

**49. Norms of operation for thermal generating stations:**

**49.1** Recovery of capacity charge, energy charge and incentive by the generating company shall be based on the achievement of the operational norms specified in these Regulations.

**49.2** The norms of operation for thermal power stations as given hereunder shall apply for existing thermal power stations achieved COD on or before 31<sup>st</sup> March, 2012:

**(a) Normative Annual Plant Availability Factor (NAPAF):**

Name of Generating Station	Units (MW)	Capacity (MW)	FY 2019-20 to FY 2023-24
STPS Sarni PH 2	200+210	410.0	70.00%
STPS Sarni PH 3	2 X 210	420.0	70.00%
<b>STPS (PH 2 &amp; PH 3)</b>		<b>830.0</b>	<b>70.00%</b>
<b>ATPS PH-3</b>	<b>1 x 210</b>	<b>210.0</b>	<b>85.00 %</b>
SGTPS PH 1	2 X 210	420.0	75.00%
SGTPS PH 2	2 X 210	420.0	75.00%
<b>SGTPS (PH 1 &amp; PH 2)</b>		<b>840.0</b>	<b>75.00%</b>
<b>SGTPS - (500 MW)</b>	<b>1X500</b>	<b>500.0</b>	<b>85.00%</b>

**(b) Gross Station Heat Rate (Kcal/kWh):**

Name of Generating Station	Units (MW)	Capacity (MW)	FY 2019-20 to FY 2023-24
STPS Sarni PH 2	200+210	410.0	2850
STPS Sarni PH 3	2 X 210	420.0	2850
<b>STPS (PH 2 &amp; PH 3)</b>		<b>830.0</b>	<b>2850</b>
<b>ATPS PH 3</b>	<b>1 x 210</b>	<b>210.0</b>	<b>2450</b>
SGTPS PH 1	2 X 210	420.0	2700
SGTPS PH 2	2 X 210	420.0	2700
<b>SGTPS (PH 1 &amp; PH 2)</b>		<b>840.0</b>	<b>2700</b>
<b>SGTPS - (500 MW)</b>	<b>1X500</b>	<b>500.0</b>	<b>2390</b>

## (c) Specific Fuel Oil Consumption (ml/kWh):

Name of Generating Station	Units (MW)	Capacity (MW)	FY 2019-20 to FY 2023-24
STPS Sarni PH 2	200+210	410.0	1.75
STPS Sarni PH 3	2 X 210	420.0	1.75
<b>STPS (PH 2 &amp; PH 3)</b>		<b>830.0</b>	<b>1.75</b>
<b>ATPS PH 3</b>	<b>1 x 210</b>	<b>210.0</b>	<b>0.50</b>
SGTPS PH 1	2 X 210	420.0	1.30
SGTPS PH 2	2 X 210	420.0	1.00
<b>SGTPS (PH 1 &amp; PH 2)</b>		<b>840.0</b>	<b>1.15</b>
<b>SGTPS - (500 MW)</b>	<b>1X500</b>	<b>500.0</b>	<b>0.50</b>

## (d) Auxiliary Energy Consumption (%):

Name of Generating Station	Units (MW)	Capacity (MW)	FY2019-20 to FY 2023-24
STPS Sarni PH 2	200+210	410.0	10.00%
STPS Sarni PH 3	2 X 210	420.0	10.00%
<b>STPS (PH 2 &amp; PH 3)</b>		<b>830.0</b>	<b>10.00%</b>
<b>ATPS PH 3</b>	<b>1 x 210</b>	<b>210.0</b>	<b>9.00%</b>
SGTPS PH 1	2 X 210	420.0	10.00%
SGTPS PH 2	2 X 210	420.0	10.00%
<b>SGTPS (PH 1 &amp; PH 2)</b>		<b>840.0</b>	<b>10.00%</b>
<b>SGTPS - (500 MW)</b>	<b>1 x 500</b>	<b>500.0</b>	<b>5.75%</b>

## (e) Normative Annual Plant Load Factor (NAPLF) for incentive (%):

Name of Generating Station	Units (MW)	Capacity (MW)	FY 2019-20 to FY 2023-24
STPS Sarni PH 2	200+210	410.0	70.00%
STPS Sarni PH 3	2 X 210	420.0	70.00%
<b>STPS (PH 2 &amp; PH 3)</b>		<b>830.0</b>	<b>70.00%</b>
<b>ATPS PH-3</b>	<b>1 x 210</b>	<b>210.0</b>	<b>85.00 %</b>
SGTPS PH 1	2 X 210	420.0	75.00%
SGTPS PH 2	2 X 210	420.0	75.00%
<b>SGTPS x (PH1 &amp; PH 2)</b>		<b>840.0</b>	<b>75.00%</b>
<b>SGTPS - (500 MW)</b>	<b>1X500</b>	<b>500.0</b>	<b>85.00%</b>

49.3 Following norms shall be applicable for all the coal based thermal generating Units/ stations for all capacities which have achieved COD on or after 01/04/2012 :

**A. Normative Annual Plant Availability Factor (NAPAF) : 85%**

**B. Normative Annual Plant Load Factor (NAPLF) : 85%**

**C. Gross Station Heat Rate**

(i) Existing Coal-based thermal generating stations having CoD on or after 1.4.2012 till 31.03.2016, (other than those covered under Regulation 49.2), the station heat rate norms shall be as already approved by the Commission.

(ii) Existing Coal based thermal generating stations having CoD on or after 1.4.2016 till 31.3.2019, the station heat rate for the control period FY 2019-20 to FY 2023-24 shall be as given below:

$$\text{Station Heat Rate} = 1.05 \times \text{Design Heat Rate (kCal/kWh)}$$

Where the Design Heat Rate of a Unit means the Unit heat rate guaranteed by the supplier at conditions of 100% MCR, zero percent make up, design coal and design cooling water temperature/back pressure:

Provided that the design heat rate shall not exceed the maximum design Unit heat rates depending upon the pressure and temperature ratings of the Units as provided in Regulation 39.3 (C)(b) of Madhya Pradesh Electricity Regulatory Commission (Terms and Conditions for determination of Generation Tariff) Regulations, 2015 {RG-26(III) of 2015}.

Provided further that in case pressure and temperature parameters of a Unit are different from above ratings, the maximum design Unit heat rate of the nearest class shall be taken:

Provided also that where Unit heat rate has not been guaranteed but turbine cycle heat rate and boiler efficiency are guaranteed separately by the same supplier or different suppliers, the Unit design heat rate shall be arrived at by using guaranteed turbine cycle heat rate and boiler efficiency:

Provided also that if one or more Units were declared under commercial operation prior to 1.4.2016, the heat rate norms for those Units as well as Units declared under commercial operation on or after 1.4.2016 shall be lower of the heat rate norms arrived at by above methodology.

**Note:** In respect of Units where the boiler feed pumps are electrically operated, the maximum design Unit heat rate shall be 40 kCal/kWh lower than the maximum design Unit heat rate specified above with turbine driven BFP.

**(iii) New coal based thermal generating stations achieving COD on or after 1.4.2019:**

Station Heat Rate = 1.05 X Design Heat Rate (kCal/kWh)

Where the Design Heat Rate of a generating unit means the unit heat rate guaranteed by the supplier at conditions of 100% MCR, zero percent make up, design coal and design cooling water temperature/back pressure:

Provided that the design heat rate shall not exceed the following maximum design unit heat rates depending upon the pressure and temperature ratings of the units:

Pressure Rating (Kg/cm <sup>2</sup> )	150	170	170	247
SHT/RHT (°C)	535/535	537/537	537/565	537/565
Type of BFP	Electrical Driven	Turbine driven	Turbine driven	Turbine Driven
Max Turbine Cycle Heat rate (kCal/kWh)	1955	1950	1935	1900
<b>Minimum Boiler Efficiency</b>				
Sub-Bituminous Indian Coal	0.86	0.86	0.86	0.86
Bituminous Imported Coal	0.89	0.89	0.89	0.89
<b>Max. Design Unit Heat Rate (kCal/kWh)</b>				
Sub-Bituminous Indian Coal	2273	2267	2250	2222
Bituminous Imported Coal	2197	2191	2174	2135

Pressure Rating (Kg/cm <sup>2</sup> )	247	270	270
SHT/RHT (°C)	565/593	593/593	600/ 600
Type of BFP	Turbine Driven	Turbine Driven	Turbine Driven
Max Turbine Heat Rate (kCal/kWh)	1850	1810	1800
<b>Min. Boiler Efficiency</b>			
Sub-Bituminous Indian Coal	0.86	0.865	0.865
Bituminous Imported Coal	0.89	0.895	0.895
<b>Max. Design Heat Rate (Kcal/kWh)</b>			

Sub-Bituminous Indian Coal	2151	2105	2081
Bituminous Imported Coal	2078	2034	2022

Provided further that in case pressure and temperature parameters of a Unit are different from above ratings, the maximum design Unit heat rate of the nearest class shall be taken:

Provided also that where Unit heat rate has not been guaranteed but turbine cycle heat rate and boiler efficiency are guaranteed separately by the same supplier or different suppliers, the Unit design heat rate shall be arrived at by using guaranteed turbine cycle heat rate and boiler efficiency:

Provided also that where the boiler efficiency is below 86% for Sub-bituminous Indian coal and 89% for bituminous imported coal, the same shall be considered as 86% and 89% respectively for Sub-bituminous Indian coal and bituminous imported coal for computation of station heat rate:

Provided also that if one or more Units were declared under commercial operation prior to 1.4.2019, the heat rate norms for those Units as well as generating Units declared under commercial operation on or after 1.4.2019 shall be lower of the heat rate norms considered by the Commission during tariff period FY 2016-17 to FY 2018-19 or those arrived at by the above methodology:

Provided also that for Generating stations based on coal rejects, the Commission will approve the Design Heat Rate on case to case basis.

**Note:** In respect of Units where the boiler feed pumps are electrically operated, the maximum design Unit heat rate shall be 40 kCal/kWh lower than the maximum design Unit heat rate specified above with turbine driven BFP.

#### D. Specific Fuel Oil Consumption

- (i) Coal-based generating stations : 0.50 ml/kWh
- (ii) For Generating Stations based on Coal Rejects: 2.0 ml/kWh

**E. Auxiliary Energy Consumption**

Sr. No.	Power Station	With Natural Draft Cooling Tower or without Cooling Tower
(1)	200 MW series	8.50%
(2)	<b>300 MW and above</b>	
	Steam driven boiler feed pumps	5.75 %
	Electrically driven boiler feed pumps	8.00 %
(3)	45 MW Series	10.00 %

Provided that for thermal generating stations with induced drafts cooling towers, the norms shall be further increased by 0.5%:

Provided further that Additional Auxiliary Energy Consumption as follows may be allowed for plants with Dry Cooling Systems.

Type of Dry Cooling System	(% of gross generation)
Direct Cooling air cooled condensers with mechanical draft fans	1.00%
Indirect Cooling system employing jet condensers with pressure recovery turbine and natural draft tower	0.50%

**50. Norms of operation for hydro generating stations:**

**50.1** The norms of operation for Hydro power station shall be as under, namely:

**(1) Normative Annual Plant Availability Factor (NAPAF):**

Normative Annual Plant Availability Factor (NAPAF) for hydro generating stations shall be determined by the Commission as per the following criteria:

- (i) Storage and Pondage type plants with head variation between Full Reservoir Level (FRL) and Minimum Draw Down Level (MDDL) of up to 8%, and where plant availability is not affected by silt : 90%.
- (ii) Storage and Pondage type plants with head variation between full reservoir level and minimum draw down level of more than 8% and when plant availability is not affected by silt: the month wise peaking capability as provided by the project authorities in the DPR (approved by CEA or the State Government) shall form basis of fixation of NAPAF.

- (iii) Pondage type plants where plant availability is significantly affected by silt: 85%.
- (iv) Run-of-river type plants: NAPAF to be determined plant-wise, based on 10-day design energy data, moderated by past experience where available/relevant.

**50.2** A further allowance may be made by the Commission in NAPAF determination under special circumstances, e.g. abnormal silt problem or other operating conditions, and known plant limitations.

**50.3** Based on the above, Normative Annual Plant Availability Factor (NAPAF) of the Hydro stations already in operation shall be as follows for recovery of capacity charges:

Station	Type of Plant	Plant Capacity (MW)	NAPAF
Gandhisagar	Storage	57.5	85.00%
Pench	Storage	106.7	85.00%
Rajghat	Storage	26.86	60.00%
Bargi	Storage	90.0	85.00%
Banasagar Complex (excluding Silpara)	Storage	395.0	85.00%
Silpara	Run of river with pondage	30.0	85.00%
Birsinghpur	Storage	20.0	85.00%
Madhi Kheda	Storage	60.0	85.00%

**(2) Auxiliary Energy Consumption:**

- (a) Surface Hydro generating stations with rotating exciters mounted on the generator shaft - 0.7 % of energy generated
- (b) Surface Hydro generating stations with static excitation system - 1.20 % of energy generated
- (c) Underground Hydro generating stations with rotating exciters mounted on the generator shaft - 0.9 % of energy generated
- (d) Underground Hydro generating stations with static excitation system - 1.30% of energy generated

**CHAPTER - 10**  
**SCHEDULING, ACCOUNTING AND BILLING**

**51. Scheduling:**

**51.1** The methodology for scheduling and dispatch for the generating station shall be as specified in the Madhya Pradesh Electricity Grid Code (or any other code or Regulation) approved by the Commission.

**52. Metering and Accounting:**

**52.1** For metering and accounting, the provisions of the Madhya Pradesh Electricity Grid Code (or any other code or Regulation) approved by the Commission, shall be applicable.

**53. Billing and Payment of charges:**

**53.1** Bills shall be raised for Capacity Charges and Energy Charges on monthly basis by the generating company in accordance with these Regulations, and payments shall be made by the beneficiaries directly to the generating company:

Provided that the physical copy of the Bill in Original at the office of the Authorised Person of the beneficiary and/or the scanned copy of Original Bill through Official Email ID of the Authorised Person of the Generating Company shall be recognized as valid mode of presentation of Bill:

Provided further that Signatory or Signatories (official designation only) shall be notified in advance by the Managing Director or Chief Executive Officer of the company and any change in the list of Authorised Signatory or the purpose, shall be communicated in the same manner.

**53.2** Payment of the Capacity Charge for a thermal generating station shall be shared by the beneficiaries of the generating station as per their percentage shares for the month (inclusive of any allocation out of the unallocated capacity) in the Installed Capacity of the generating station. Payment of Capacity Charges and Energy Charges for a Hydro generating station shall be shared by the beneficiaries of the generating station in proportion to their shares (inclusive of any allocation out of the unallocated capacity) in the saleable capacity (to be determined after deducting the



capacity corresponding to free energy to home State as per Note 3 herein).

**Note 1**

Shares/ allocations of each beneficiary in the total capacity of State sector generating stations shall be as determined by the State Government, inclusive of any allocation made out of the unallocated capacity. The shares shall be applied in percentages of installed capacity and shall normally remain constant during a month. The total capacity share of any beneficiary would be sum of its capacity share plus allocation out of the unallocated portion. In the absence of any specific allocation of unallocated power by the State Government, the unallocated power shall be added to the allocated shares in the same proportion as the allocated shares.

**Note 2**

The beneficiaries may propose surrendering part of their allocated firm share to other States/ Beneficiaries. In such cases, depending upon the technical feasibility of power transfer and specific agreements reached by the generating company with other States within/ outside the region for such transfers, the shares of the beneficiaries may be re-allocated by the State Government for a specific period (in complete months) from the beginning of a calendar month. When such re-allocations are made, the beneficiaries who surrender the share shall not be liable to pay capacity charges for the surrendered share. The capacity charges for the capacity surrendered and reallocated as above shall be paid by the State(s)/ beneficiary to whom the surrendered capacity is allocated. Except for the period of reallocation of capacity as above, the beneficiaries of the generating station shall continue to pay the full capacity charges as per allocated capacity shares. Any such reallocation and its reversion shall be communicated to all concerned by the appropriate authority in advance, at least three days prior to such reallocation or reversion taking effect.

**Note 3**

FEHS = Free energy for home State, in percent and shall be taken as 13% or actual whichever is less (not applicable for generating stations of MPPGCL).

Provided that in cases where the site of a Hydro Power Project is awarded to a developer, (not being a State controlled or owned Company) by the State Government by following a two stage transparent process of bidding, the "Free Energy" shall be taken as 13%, in addition to energy corresponding to 100 Units of electricity to be provided free of cost every month to every project affected family for a period of 10 Years from the Date of Commercial Operation of the generating station:

Provided further that the generating company shall submit detailed quantification of energy corresponding to 100 units of electricity to be provided free of cost every month to every project affected family for a period of 10 years from the Date of Commercial Operation.

**54. Rebate:**

- 54.1** For payment of bills of the generating company through letter of credit on presentation or through National Electronic Fund Transfer (NEFT)/ Real Time Gross Settlement (RTGS) payment mode within a period of 5 days of presentation of bills by the generating company, a rebate of 1.5% shall be allowed.

**Explanation:** In case of computation of 5 days', the number of days shall be counted consecutively without considering any holiday. However, in case the last day or 5<sup>th</sup> day is official holiday, the 5th day for the purpose of Rebate shall be construed as the immediate succeeding working day (as per the official State Government's calendar, where the Office of the Authorised Signatory or Representative of the Beneficiary, for the purpose of receipt or acknowledgement of Bill is situated).

- 54.2** Where payments are made on any day after 5 days and within a period of 30 days of presentation of bills by the generating company or the due date if any, mentioned in the power purchase agreement, whichever is earlier, a rebate of 1% shall be allowed.

**55. Late payment surcharge:**

- 55.1** In case the payment of any bill for charges payable under these Regulations is delayed beyond a period of 45 days from the date of presentation of bills or the due

date as mentioned in the power purchase agreement whichever is earlier, a late payment surcharge at the rate of 1.25% per month shall be levied by the generating company.

**CHAPTER – 11**  
**SHARING OF BENEFITS**

**56. Sharing of gains due to variation in norms:**

**56.1** The generating company shall workout gains based on the actual performance of applicable Controllable parameters as under:

- i) Station Heat Rate;
- ii) Secondary Fuel Oil Consumption; and
- iii) Auxiliary Energy Consumption.

**56.2** The financial gains by the generating company, on account of controllable parameters shall be shared between generating company and the beneficiaries on annual basis. The financial gains computed as per the following formulae in case of generating station other than hydro generating stations on account of operational parameters as shown in Regulation 56.1 of these Regulations shall be shared in the ratio of 50:50 between the generating stations and beneficiaries.

$$\text{Net Gain} = (\text{ECR}_N - \text{ECR}_A) \times \text{Scheduled Generation}$$

Where,

$\text{ECR}_N$  = Normative Energy Charge Rate computed on the basis of norms specified for Station Heat Rate, Auxiliary Energy Consumption and Secondary Fuel Oil Consumption.

$\text{ECR}_A$  = Actual Energy Charge Rate computed on the basis of actual Station Heat Rate, Auxiliary Energy Consumption and Secondary Fuel Oil Consumption for the month:

Provided that in case of hydro generating stations, the net gain on account of Actual Auxiliary Energy Consumption being less than the Normative Auxiliary Energy Consumption, shall be computed as per following formulae provided the saleable scheduled generation is more than the saleable design energy and shall be shared in the ratio of 50:50 between generating station and beneficiaries:

- (i) When saleable scheduled generation is more than saleable design energy on the basis of normative auxiliary energy consumption and less than or

equal to saleable design energy on the basis of actual auxiliary energy consumption:

Net gain (Million Rupees) = [(Saleable Scheduled generation in MUs) – (Saleable Design energy on the basis of normative auxiliary energy consumption in MUs)] x [1.20 or ECR, whichever is lower]

- (ii) When saleable scheduled generation is more than saleable design energy on the basis of actual auxiliary energy consumption:

Net gain (Million Rupees) = {Saleable Scheduled generation in MUs- [(Saleable Scheduled Generation in MUs x (100-normative AEC in %)/(100-actual AEC in %))]} x [1.20 or ECR, whichever is lower]

**57. Sharing of saving in interest due to re-financing or restructuring of loan:**

**57.1** If re-financing or restructuring of loan by the generating company results in net savings on interest after accounting for cost associated with such refinancing or restructuring, the same shall be shared between the beneficiaries and the generating company in the ratio of 50:50.

**57.2** In case of dispute, any of the parties may make an application in accordance with the MPERC (Conduct of Business) Regulations, 2004, as amended from time to time:

Provided that the beneficiaries shall not withhold any payment on account of the interest claimed by the generating company during the pendency of any dispute arising out of re-financing of loan.

**58. Sharing of Non-Tariff Income:**

**58.1** The non-tariff net income in case of generating station on account of following shall be shared in the ratio of 50:50 with the beneficiaries and the generating company on annual basis:

- a) Income from rent of land or buildings;
- b) Income from sale of scrap;
- c) Income from sale of fly ash;
- d) Interest on advances to suppliers or contractors;

- e) Rental from staff quarters;
- f) Rental from contractors;
- g) Income from advertisements; and
- h) Interest on investments and bank balances:

Provided that the interest or dividend earned from investments made out of Return on Equity corresponding to the regulated business of the Generating Company shall not be included in Non-Tariff Income:

Provided further that the Generation Company shall submit full details of its forecast of Non-Tariff Income to the Commission. Non-tariff income shall also be trued-up based on audited accounts.

**59. Sharing of Clean Development Mechanism Benefits:**

**59.1** The proceeds of carbon credit from approved emission reduction projects under Clean Development Mechanism shall be shared in the following manner:-

- (a) 100% of the gross proceeds on account of CDM to be retained by the project developer in the first year after the date of commercial operation of the generating station; and
- (b) In the second year, the share of the beneficiaries shall be 10% which shall be progressively increased by 10% every year till it reaches 50%, where after the proceeds shall be shared in equal proportion, by the generating company and the beneficiaries.

**CHAPTER- 12**  
**MISCELLANEOUS PROVISIONS**

**60. Operational Norms to be ceiling norms:**

**60.1** Operational norms specified in these Regulations are the ceiling norms and shall not preclude the generating company and the beneficiaries from agreeing to the improved norms and in case the improved norms are agreed to, such improved norms shall be applicable for determination of tariff.

**61. Deviation from ceiling tariff:**

**61.1** Tariff determined in these Regulations shall be a ceiling tariff. The generating company and beneficiaries may mutually agree to charge a lower tariff.

**61.2** The generating company may opt to charge the lower tariff for period not exceeding the validity of these regulations on account of lower depreciation based on the requirement of repayment. In such case, the unrecovered depreciation on account of reduction of depreciation by the generating company during useful life shall be allowed to be recovered after the useful life in these Regulations.

**61.3** The generating company may opt to charge the lower tariff for a period not exceeding the validity of these Regulations on agreeing to deviation from operational parameters, reduction in operation & maintenance expenses, reduced return on equity and incentive specified in these Regulations.

**61.4** The deviation from the ceiling tariff specified by the Commission shall come into effect from the date agreed to by the generating company and the beneficiaries.

**61.5** The generating company and the beneficiaries of a generating station shall be required to approach the Commission for charging lower tariff in accordance with Regulations 61.1 to 61.3 above. The details of the accounts and the tariff actually charged under Regulations 61.1 to 61.3 above shall be submitted at the time of true up.

**62 Tax on Income**

**62.1** Tax on Income streams of the generating company shall not be recovered

separately from the Beneficiaries.

**63 Hedging of Foreign Exchange Rate Variation:**

- 63.1 The generating company may hedge foreign exchange exposure in respect of the interest on foreign currency loan and repayment of foreign currency loan taken for the generating station in part or in full at the discretion of the generating company.
- 63.2 If the generating company enters into any hedging arrangement(s) based on its approved hedging policy, the generating company shall communicate to the beneficiaries concerned, of entering into such arrangement(s) within thirty days.
- 63.3 Every generating company shall recover the cost of hedging of foreign exchange rate variation corresponding to the normative foreign debt, in the relevant year on year-to-year basis as expense in the period in which it arises and extra rupee liability corresponding to such foreign exchange rate variation shall not be allowed against the hedged foreign debt.
- 63.4 To the extent the generating company is not able to hedge the foreign exchange exposure, the extra rupee liability towards interest payment and loan repayment corresponding to the normative foreign currency loan in the relevant year shall be permissible provided it is not attributable to the generating company or its suppliers or contractors.

**64 Recovery of cost of hedging or Foreign Exchange Rate Variation (FERV):**

- 64.1 Every generating company shall recover the cost of hedging and foreign exchange rate variation on year-to-year basis as income or expense in the period in which it arises.
- 64.2 Recovery of cost of hedging or foreign exchange rate variation shall be made directly by the generating company from the beneficiaries without making any application before the Commission:

Provided that in case of any objections by the beneficiaries the amounts claimed on account of cost of hedging or foreign exchange rate variation, the generating company may make an appropriate application before the Commission for its decision.

**65 Application fee, publication expenses and other statutory charges:**

65.1 The following fees, charges and expenses shall be reimbursed directly by the beneficiary in the manner specified herein:

- (i) The application filing fee and the expenses incurred on publication of notices in the application for approval of tariff, may in the discretion of the Commission, be allowed to be recovered by the generating company directly from the beneficiaries.
- (ii) The Commission may, for the reasons to be recorded in writing and after hearing the affected parties, allow reimbursement of any fee or expenses, as may be considered necessary.
- (iii) SLDC Charges and Transmission Charges as determined by the Commission shall be considered as expenses, if payable by the generating stations.
- (iv) RLDC/NLDC charges as determined by the Central Commission shall also be considered as expenses, if payable by the generating station.

65.2 Electricity duty, cess and water charges if payable by the Generating Company for generation of electricity from the power stations to the State Government, shall be considered and allowed by the Commission separately by considering normative parameters specified in these Regulations and shall be trued-up on actuals:

Provided that in case of the Electricity duty is applied in the auxiliary consumption, such amount of electricity duty shall apply on normative auxiliary consumption of the generating station (excluding colony consumption) and apportioned to the each beneficiaries in proportion to their schedule dispatch during the month.

**66 Power to Relax:**

66.1 The Commission, for reasons to be recorded in writing, may relax any of the provisions of these Regulations on its own motion or on an application made before it by an interested person.



**67 Power to Remove Difficulty:**

67.1 If any difficulty arises in giving effect to the provisions of these Regulations, the Commission may, by order, make such provision not inconsistent with the provisions of the Act or provisions of other Regulations specified by the Commission, as may appear to be necessary for removing the difficulty in giving effect to the objectives of these Regulations.

**68 Repeal and Savings:**

68.1 The Regulations namely "Madhya Pradesh Electricity Regulatory Commission (Terms and Conditions for determination of Generation Tariff), Regulations, 2015 {RG-26(III) of 2015}" notified on 01/01/2016 and read with all amendments thereto, as applicable to the subject matter of these Regulations are hereby superceded.

68.2 Nothing in these Regulations shall be deemed to limit or otherwise affect the inherent powers of the Commission to make such orders as may be necessary for ends of justice to meet or to prevent abuses of the process of the Commission.

68.3 Nothing in these Regulations shall bar the Commission from adopting, in conformity with the provisions of the Act, a procedure, which is at variance with any of the provisions of this Regulation, if the Commission, in view of the special circumstances of a matter or class of matters and for reasons to be recorded in writing, deems it necessary or expedient for dealing with such a matter or class of matters.

68.4 Nothing in these Regulations shall, expressly or impliedly, bar the Commission dealing with any matter or exercising any power under the Act for which no Regulations have been framed, and the Commission may deal with such matters, powers and functions in a manner it thinks fit.

**By order of the Commission**

**Shailendra Saxena,  
Secretary**

**Appendix-I**  
**Depreciation Schedule**

Sr. No.	Asset Particulars	Depreciation Rate (Salvage Values = 10%)
		Straight Line Method
<b>A</b>	<b>Land under full ownership</b>	<b>0.00%</b>
<b>B</b>	<b>Land under lease</b>	
(a)	for investment in the land	3.34%
(b)	For cost of clearing the site	3.34%
(c)	Land for Reservoir in case of Hydro generating station	3.34%
<b>C</b>	<b>Assets purchased new</b>	
(a)	Plant & Machinery in generating stations	
(i)	Hydro electric	5.28%
(ii)	Steam electric NHRB & waste heat recovery boilers	5.28%
(iii)	Diesel electric and gas plant	5.28%
(b)	Cooling towers & circulating water systems	5.28%
(c)	Hydraulic works forming part of the Hydro	
(i)	Dams, Spillways, Weirs, Canals, Reinforced concrete flumes and siphons	5.28%
(ii)	Reinforced concrete pipelines and surge tanks, steel pipelines, sluice gates, steel surge tanks, hydraulic control valves and hydraulic works	5.28%
(d)	Building & Civil Engineering works	
(i)	Offices and showrooms	3.34%
(ii)	Containing thermo-electric generating plant	3.34%
(iii)	Containing hydro-electric generating plant	3.34%
(iv)	Temporary erections such as wooden Structures	100%
(v)	Roads other than Kutcha Roads	3.34%
(vi)	Others	3.34%
(e)	Transformers, Kiosk, Sub-Station equipment & other fixed apparatus.	
(i)	Transformers including foundations having rating of 100 KVA and over	5.28%
(ii)	Others	5.28%
(f)	Switchgear including cable connections	5.28%
(g)	Lightning Arrestor	
(i)	Station type	5.28%
(ii)	Pole type	5.28%
(iii)	Synchronous condenser	5.28%
(h)	Batteries	5.28%
(i)	Underground cable including joint boxes and disconnected boxes	5.28%
(ii)	Cable duct system	5.28%
(i)	Overhead lines including cable support	

(i)	Lines on fabricated steel operating at terminal voltages higher than 66 KV	5.28%
(ii)	Lines on steel supports operating at terminal voltages higher than 132 KV but not exceeding 66 KV	5.28%
(iii)	Lines on steel on reinforced concrete support	5.28%
(iv)	Lines on treated wood support	5.28%
(j)	Meters	5.28%
(k)	Self propelled vehicles	9.50%
(l)	Air Conditioning Plants	
(i)	Static	5.28%
(ii)	Portable	9.50%
(m)(i)	Office furniture and furnishing	6.33%
(ii)	Office equipment	6.33%
(iii)	Internal wiring including fittings and Apparatus	6.33%
(iv)	Street Light fittings	5.28%
(n)	Apparatus let on hire	
(i)	Other than motors	9.50%
(ii)	Motors	6.33%
(o)	Communication equipment	
(i)	Radio and high frequency carrier system	6.33%
(ii)	Telephone lines and telephones	6.33%
(iii)	Fibre Optic	6.33%
(p)	I. T. equipment's including software	15.00%
(q)	Any other assets not covered above	5.28%

**Note:** Where life of the particular asset is less than useful life of the project, the useful life of such particular asset shall be as per the provisions of the Companies Act, 2013 and subsequent amendment thereto.

## **Annexure-I**

### **PART-I**

### **TARIFF FILING NEW FORMS (THERMAL)**

## Annexure-I

## PART-I

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

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM TPS-1	Summary of Tariff	
FORM-1(I)	Statement showing claimed capital cost	
FORM- 1(II)	Statement showing Return on Equity	
FORM TPS-2	Plant Characteristics	
FORM TPS-3	Normative Parameters considered for tariff computation	
FORM TPS-4	Details of Foreign Loans (Details only in respect of loans applicable to the project under petition)	
FORM TPS-4A	Details of Foreign Equity(Details only in respect of Equity Infusion if any applicable to the project under petition)	
FORM TPS-5	Abstract of Admitted Capital cost for the Existing Projects	
FORM TPS-6	Financial package upto CoD	
FORM TPS-7	Details of Project Specific Loans	
FORM TPS-8	Details of allocation of corporate loans to various projects	
FORM TPS-9	Year wise statement of Additional Capitalization after CoD	
FORM TPS-10	Financing of Additional Capitalization	
FORM TPS-11	Calculation of Depreciation on original project cost	
FORM TPS-12	Statement of Depreciation	
FORM TPS-13	Calculation of weighted average rate of interest on actual loans	
FORM TPS-14	Draw down schedule for calculation of IDC & Financing charges	
FORM TPS-14A	Actual Cash Expenditure	
FORM TPS-15	Details/ Information to be submitted in respect of fuel for computation of energy charges	
FORM TPS-16	Details/ Information to be submitted in respect of Capital Spares	
FORM TPS-17	Liability Flow Statement	
FORM TPS-18	Non-tariff Income	
FORM TPS-19	Details of Water Charges	
FORM TPS-20	Details of Statutory Charges	

PART - I  
FORM-TFS-1

SUMMARY OF TARIFF

NAME OF THE PETITIONER  
NAME OF THE GENERATING STATION:  
PLACE (REGION/DISTRICT/STATE):

Sr. No	Particulars	Unit	Existing 2018-19 (4)	2020-21 (5)	2021-22 (7)	2022-23 (8)	2023-24 (9)
1	Depreciation	Rs. Lakh					
2	Interest on Loan	Rs. Lakh					
3	Interest on Equity <sup>1</sup>	Rs. Lakh					
3.1	Interest on Working Capital	Rs. Lakh					
3.2	G & M Expenses	Rs. Lakh					
3.3	Compenation Allowance (if applicable - relevant for column 4 only)	Rs. Lakh					
3.4	Special Allowance (if Applicable)	Rs. Lakh					
3.5	Landed Fuel Cost (Coal) as per FSA approved by beneficiaries	Rs. Lakh					
3.6	Landed Coal Cost (Imported Coal as per FSA approved by beneficiaries)	Rs/Tonne					
3.7	Landed Coal Cost (Landed Coal other than FSA)	Rs/Tonne					
3.8	Landed Coal Cost (Landed Coal other than FSA)	Rs/Tonne					
3.9	Secondary Fuel Oil Cost	Rs/Unit					
3.10	Energy Charge Rate ex-bus (Paise/kWh) <sup>2,3,4,5,6,7,8,9,10</sup>	Rs/Unit					

Note

1. Details of calculations, considering equity as per regulation, to be furnished.
- 2A. If multifuel is used simultaneously, give 2 in respect of every fuel individually.
- 2B. The total energy charges shall be worked out based on an bus energy scheduled to be sent out.
3. The energy charges shall be worked out based on an bus energy scheduled to be sent out.
4. In case break-up is not available for 2.1 to 2.5, consolidated statement needs to be furnished (Petitioner)

Form 1(A) - Statement showing claimed capital cost: (A + B)

Sr. No.	Particulars	2019-20 (3)	2020-21 (4)	2021-22 (5)	2022-23 (6)	2023-24 (7)
1	Opening Capital Cost					
2	Add: Addition during the year/period					
3	Less: Decapitalisation during the year/period					
4	Less: Reversal during the year/period					
5	Add: Discharges during the year/period					
6	Closing Capital Cost					
7	Average Capital Cost					

Statement showing claimed capital cost eligible for Return on Equity at normal rates: (A)

Sr. No.	Particulars	2019-20 (3)	2020-21 (4)	2021-22 (5)	2022-23 (6)	2023-24 (7)
1	Opening Capital Cost					
2	Add: Addition during the year/period					
3	Less: Decapitalisation during the year/period					
4	Less: Reversal during the year/period					
5	Add: Discharges during the year/period					
6	Closing Capital Cost					
7	Average Capital Cost					

(Petitioner)

Statement showing claimed capital cost eligible for Return on Equity at weighted average rate of interest on actual loan portfolio: (B)

Sr. No.	Particulars	2019-20 (3)	2020-21 (4)	2021-22 (5)	2022-23 (6)	2023-24 (7)
1	Opening Capital Cost					
2	Add: Addition during the year/period					
3	Less: Decapitalisation during the year/period					
4	Less: Reversal during the year/period					
5	Add: Discharges during the year/period					
6	Closing Capital Cost					
7	Average Capital Cost					

(Petitioner)

**PART - I**  
**FORM-TPS-1(II A)**

**Statement showing Return on Equity at Normal Rate**

**NAME OF THE PETITIONER**

**NAME OF THE GENERATING STATION:**

**PLACE (REGION/DISTRICT/STATE):**

Sr. No.	Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	<b>Return on Equity</b>						
1	Gross Opening Equity (Normal)						
2	Less: Adjustment in Opening Equity						
3	Adjustment during the year						
4	Net Opening Equity (Normal)						
5	Add: Increase in equity due to addition during the year/period						
6	Less: decrease due to De-capitalization during the year/period						
7	Less: decrease due to reversal during the year/period						
8	Add: increase due to discharge during the year/period						
9	Net closing Equity (Normal)						
10	Average Equity (Normal)						
11	Rate of RoE						
12	Total RoE						

(Petitioner)

**PART - I**  
**FORM-TPS-1(II B)**

**Statement showing Return on Equity at Normal Rate**

**NAME OF THE PETITIONER**

**NAME OF THE GENERATING STATION:**

**PLACE (REGION/DISTRICT/STATE):**

Sr. No.	Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	<b>Return on Equity (beyond the original scope of work excluding additional capitalization due to change in Law)</b>						
1	Gross Opening Equity (Normal)						
2	Less: Adjustment in Opening Equity						
3	Adjustment during the year						
4	Net Opening Equity (Normal)						
5	Add: Increase in equity due to addition during the year/period						
6	Less: decrease due to De-capitalization during the year/period						
7	Less: decrease due to reversal during the year/period						
8	Add: increase due to discharge during the year/period						
9	Net closing Equity (Normal)						
10	Average Equity (Normal)						
11	Rate of RoE						
12	Total RoE						

(Petitioner)

PART - I  
FORM TPS-2

PLANT CHARACTERISTICS

Name of the Petitioner	Unit-I	Unit-II	Unit-III
Name of the Generating Station			
Unit(s)/Block(s)/Parameters			
Installed Capacity (MW)			
Schedule COD as per Investment Approval			
Actual COD/Date of Taken Over (as applicable)			
Pit Head or Non Pit Head			
Name of the Boiler Manufacturer			
Name of Turbine Generator Manufacturer			
Main Steam Pressure at Turbine Inlet (kg/Cm <sup>2</sup> ) abs <sup>1</sup>			
Main Steam Temperature at Turbine Inlet <sup>1</sup> (°C)			
Reheat Steam Pressure at Turbine Inlet (kg/Cm <sup>2</sup> ) <sup>1</sup>			
Reheat Steam Temperature at Turbine Inlet <sup>1</sup> (°C)			
Main Steam flow at Turbine Inlet under MCR condition (tons/hr) <sup>2</sup>			
Main Steam flow at Turbine Inlet under VWO condition (tons/hr) <sup>2</sup>			
Unit Gross electrical output under MCR/Rated condition (MW) <sup>3</sup>			
Unit Gross electrical output under VWO condition (MW) <sup>3</sup>			
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh)			
Conditions on which design turbine cycle heat rate guaranteed			
% MCR			
% Makeup Water Consumption			
Design Capacity of Make Up Water System			
Design Capacity of Inlet Cooling System			
Design Cooling Water Temperature (°C)			
Back Pressure			
Steam flow at super heater outlet under BMCR condition (tons/hr)			
Steam Pressure at super heater outlet under BMCR condition (kg/Cm <sup>2</sup> )			
Steam Temperature at super heater outlet under BMCR condition (°C)			
Steam Temperature at Reheater outlet under BMCR condition (°C)			
Design/Guaranteed Boiler Efficiency (%) <sup>4</sup>			
Design Fuel with and without blending of domestic/imported coal			
Type of Cooling Tower			
Type of Cooling System <sup>5</sup>			
Type of Boiler Feed Pump <sup>6</sup>			
Type of Coal Mill			
Fuel Details			
-Primary Fuel			
-Secondary Fuel			
-Alternate Fuel			
Special Features/Site Specific Features <sup>7</sup>			
Special Technological Features			
Environmental Regulation related features <sup>8</sup>			
Any other special features			

1: At Turbine MCR condition  
 2: With 0% (Nil) make up and design Cooling Water temperature  
 3: At TMCR output based on gross generation, 0% (Nil) makeup and design Cooling water temperature  
 4: With Performance trial based on Higher Heating Value (HHV) of fuel and at BMCR output  
 5: Closed circuit cooling, once through cooling, sea cooling, natural draft cooling, induced draft cooling etc.  
 6: Motor driven, Steam turbine driven etc.  
 7: Any site specified feature such as Merry-Go-Round, Vicinity to sea, Intake/makeup water system etc. scrubbers etc. Specify all  
 8: Environmental Regulation related features like FGD, ESP etc.  
 Note 1: In case of deviation from specified conditions in Regulation, correction curve of manufacturer may also be submitted  
 Note 2: Heat Balance Diagram has to be submitted along with above information in case of new stations.  
 Note 3: The Terms - MCR, BMCR, HHV, Performance coal, are as defined in CEA Technical Standards for Construction of Electric Plants and Electric Lines Regulations - 2010 notified by the Central Electricity Authority

(Petitioner)



PART - I  
FORM TPS-3

## NORMATIVE PARAMETERS CONSIDERED FOR TARIFF COMPUTATION

NAME OF THE PETITIONER

NAME OF THE GENERATING STATION:

Particulars	Unit	Year Ending March							
		Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
Base Rate of Return on Equity	(%)								
Base Rate of Return on Equity on Additional Capitalization	(%)								
Effective Tax Rate <sup>1</sup>	(%)								
Target Availability	(%)								
In High Demand Season	(%)								
Peak Hours	(%)								
Off-Peak Hours	(%)								
In Low Demand Season (Off Peak)	(%)								
Peak Hours	(%)								
Off-Peak Hours	(%)								
Auxiliary Energy Consumption	(%)								
Gross Station Heat Rate	kCal/kWh								
Specific Fuel Oil Consumption	ml/kWh								
Cost of Coal for WC	in Months								
Cost of Main Secondary Fuel Oil for WC	in Months								
O & M Expenses	Rs. lakh/MW								
Maintenance Spares for WC	% of O&M								
Receivables for WC	in Months								
Storage capacity of Primary Fuel	MT								
SBI Base Rate + 350 basis points as on _____ <sup>2</sup>	%								
Blending ratio of domestic coal/imported coal									

1. Effective tax rate is to be computed in accordance with Regulation i.e. actual tax (or advance tax)/gross income, where gross income refers the profit before tax.

2. Mention relevant date

PART-I  
FORM TPS-4DETAILS OF FOREIGN LOANS  
(Details only in respect of loans applicable to the project under petition)

Name of the Petitioner

Name of the Generating Station

Exchange Rate at COD or 31.03.2019 whichever is later

S.No.	Financial Year (Starting from COD)	Year 1			Year 2			Year 3 and so on					
		2 Date	3 Amount (Foreign Currency)	4 Relevant Exchange Rate	5 Amount (Rs. Lakh)	6 Date	7 Amount (Foreign Currency)	8 Relevant Exchange Rate	9 Amount (Rs. Lakh)	10 Date	11 Amount (Foreign Currency)	12 Relevant Exchange Rate	13 Amount (Rs. Lakh)
	Currency 1 <sup>1</sup>												
A.1	At the date of Drawl or at the beginning to the year of the period <sup>2</sup>												
2	Scheduled repayment date of principal												
3	Scheduled repayment date of interest												
4	At the end of Financial year												
B	In case of Hedging <sup>3</sup>												
1	At the date of hedging												
2	Period of hedging												
3	Cost of hedging												
	Currency 2 <sup>1</sup>												
A.1	At the date of Drawl <sup>2</sup>												
2	Scheduled repayment date of principal												
3	Scheduled repayment date of interest												
4	At the end of Financial year												
B	In case of Hedging <sup>3</sup>												
1	At the date of hedging												
2	Period of hedging												
3	Cost of hedging												
	Currency 3 <sup>1</sup> & so on												
A.1	At the date of Drawl <sup>2</sup>												
2	Scheduled repayment date of principal												
3	Scheduled repayment date of interest												
4	At the end of Financial year												
B	In case of Hedging <sup>3</sup>												
1	At the date of hedging												
2	Period of hedging												
3	Cost of hedging												

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

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

3. Furnish details of hedging, in case of more than one hedging during the year or part hedging, details of each hedging are to be given

4. Tax (such as withholding tax) details as applicable including change in rates, date from which change effective etc. must be clearly indicated

(Petitioner)



PART-I  
FORM TPS-5

## ABSTRACT OF ADMITTED CAPITAL COST FOR THE EXISTING PROJECTS

Name of the Company

Name of the Power Station

Last date of order of Commission for the project	Date (DD-MM-YYYY)
Reference of petition no. in which the above order was passed	Petition No.
Following details (whether admitted and/or considered) as on the last date of the period for which tariff is approved, in the above order by the Commission:	
Capital cost	(Rs. in lakh)*
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)	
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)	
Gross Normative Debt	
Cumulative Repayment	
Net Normative Debt	
Normative Equity	
Cumulative Depreciation	
Freehold land	

(Petitioner)

PART-I  
FORM TPS -6

## FINANCIAL PACKAGE UPTO COD

Name of the Petitioner

Name of the Generating Station

Project cost as on COD<sup>1</sup>Date of Commercial Operation of the Station<sup>2</sup>

1	Financial Package as Approved		Financial Package as on COD		As Admitted on COD	
	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						

**Note:**

1. Say Rs. 80 Cr. + US\$ 200 m or Rs. 1480 Cr. including US\$ 200 m at exchange rate of US\$-Rs. 70
2. Provide details on commercial operation as on COD of each Unit
3. For example US\$ 200 m, etc.

(Petitioner)

PART-I  
FORM TPS-7

## DETAILS OF PROJECT SPECIFIC LOANS

Name of the Petitioner Name of the Generating Station Particulars	Package-1	Package-2	Package-3	Package-4	Package-5	Package-6
1.	2.	3.	4.	5.	6.	7.
Source of Loan <sup>1</sup>						
Currency <sup>2</sup>						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto 31.03.2019/ COD <sup>3,4,5,13,15</sup>						
Interest Type <sup>6</sup>						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest <sup>7</sup>						
Margin, if Floating Interest <sup>8</sup>						
Are there any Caps/ Floor <sup>9</sup>	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
If above is yes, specify caps/ floor						
Moratorium Period <sup>10</sup>						
Moratorium effective from						
Repayment Period <sup>11</sup>						
Repayment effective from						
Repayment Frequency <sup>12</sup>						
Repayment Instalment <sup>13,14</sup>						
Base Exchange Rate <sup>15</sup>						
Are foreign currency loan hedged? If above is yes, specify details <sup>17</sup>						

## Note:

- Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, SBI, ICICI, IFC, PFC etc.
- Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.
- Details are to be submitted as on 31.03.2019 for existing assets and as on COD for the remaining assets.
- Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.
- If the Tariff in the petition is claimed separately for various units, details in the Form is to be given separately for all the units in the same form.
- Interest type means whether the interest is fixed or floating.
- 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.
- Margin means the points over and above the floating rate.
- At time caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.
- Moratorium period refers to the period during which loan servicing liability is not required.
- Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.
- Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.
- Where there is more than one drawal/ repayment for a loan, the date & amount of each drawal/ repayment may also be given to be furnished separately.
- If the repayment instalment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.
- In case of Foreign loan, date of each drawal & repayment along with exchange rate at that date may be given
- Base exchange rate means the exchange rate prevailing as on 31.03.2009 or COD, whichever is later
- In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.
- In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.
- At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately
- At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing, etc.

PART-I  
FORM TPS-8

## DETAILS OF ALLOCATION OF CORPORATE LOANS TO VARIOUS PROJECTS

Name of the Petitioner Name of the Generating Station Particulars	Package-1 2	Package-2 3	Package-3 4	Package-4 5	Package-5 6	Remarks 7
Source of Loan <sup>1</sup>						
Currency <sup>2</sup>						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto 31.03.2019/ COD <sup>3,6,5,13,15</sup>						
Interest Type <sup>6</sup>						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest <sup>7</sup>						
Margin, if Floating Interest <sup>8</sup>						
Are there any Caps/ Floor <sup>9</sup>	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	
If above is yes, specify caps/floor						
Moratorium Period <sup>10</sup>						
Moratorium effective from						
Repayment Period <sup>11</sup>						
Repayment effective from						
Repayment Frequency <sup>12</sup>						
Repayment Instalment <sup>13,14</sup>						
Base Exchange Rate <sup>15</sup>						
Are foreign currency loan hedged? <sup>16</sup>						
If above is yes, specify details <sup>17</sup>						
Distribution of loan packages to various projects						
Name of the Projects						Total
Project 1						
Project 2						
Project 3 and so on						

## Note:

- Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.
- Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.
- Details are to be submitted as on 31.03.2019 for existing assets and as on COD for the remaining assets.
- Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.
- If the Tariff in the petition is claimed separately for various units, details in the Form is to be given separately for all the units in the same form.
- Interest type means whether the interest is fixed or floating.
- 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 draw may also be enclosed.
- Margin means the points over and above the floating rate.
- At time caps/ floor are put at which the the floating rates are frozen. If such a condition exists, specify the limits.
- Moratorium period refers to the period during which loan servicing liability is not required.
- Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.
- Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.
- Where there is more than one drawal/ repayment for a loan, the date & amount of each drawal/ repayment may also be given separately.
- If the repayment installment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.
- In case of foreign loan, date of each drawal & repayment along with exchange rate at that date may be given.
- Base exchange rate means the exchange rate prevailing as on 31.03.2019 or COD, whichever is later.
- In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.
- In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.
- At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.
- At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing, etc.

(Petitioner)

PART-I  
FORM TPS -9

## YEAR WISE STATEMENT OF ADDITIONAL CAPITALISATION AFTER COD

Name of the Petitioner

Name of the Generating Station

COD

For Financial Year

Sl. No.	Head of Work/ Equipment	ACE Claimed (Actual/ Projected)			Regulations under which claimed	Justification	Admitted Cost by the Commission, if any	
		Accrual basis	Un-discharged Liability included in Col.3	Cash basis IDC included in Col. 3				
(1)	(2)	(3)	(4)	(5 = 3 - 4)	(6)	(7)	(8)	(9)

1. In case the project has been completed and cost has already been admitted under any tariff notification(s) in the past, fill column 10 giving the cost as admitted for the purpose of tariff notification already issued by (name of the authority) (Enclose copy of the tariff order)

2. The above information needs to be furnished separately for each year/ period of tariff period 2019-24.

3. In case of de-capitalisation of assets separate details to be furnished at Column 1,2,3 and 4. Further, the original book value and year of capitalisation of such asset to be furnished at Column 8. Where de-caps are on estimated basis the same to be shown separately.

4. Where any asset is rendered unserviceable the same shall be treated as de-capitalised during the year and original value of such asset to be shown at Col. 3. And impaired value if any, year of its capitalisation to be mentioned at Column 8.

5. Justification against each asset of capitalization should be specific to regulations under which claim has been made and the necessity of capitalization of that particular asset.

**Note:**

1. Fill the form in chronological order year wise along with detailed justification clearly bringing out the necessity and the benefits accruing to the beneficiaries.

2. In case initial spares are purchased along with any equipment, then the cost of such spares should be indicated separately e.g. Rotor-50 Crs. Initial spares-5 Crs.

(Petitioner)



**PART-I**  
**FORM TPS -10**

**FINANCING OF ADDITIONAL CAPITALISATION**

Name of the Petitioner  
Name of the Generating Station  
Date of Commercial Operation

	Actual			Admitted		
	Year 1 (2)	Year 2 (3)	Year 3 & so on (4)	Year 1 (5)	Year 2 (6)	Year 3 & so on (7)
Financial Year (Starting from COD) <sup>1</sup>						
(1)						
Amount capitalized in Work/Equipment						
Financing Details						
Loan-1						
Loan-2						
Loan-3 and so on						
Total Loan <sup>2</sup>						
Equity						
Internal Resources						
Others(Pl. specify)						
Total						

**Note:**

1. Year 1 refers to Financial Year of COD and Year-2, Year-3 etc. are the subsequent financial years respectively
2. Loan details for meeting the additional capitalisation requirement should be given as per FORM-7 or 8 whichever is relevant

(Petitioner)

PART-I  
FORM TPS -11

## CALCULATION OF DEPRECIATION

Name of the Petitioner  
Name of the Generating Station

(Amount in Rs. Lakh)

Sl. No.	Name of the Assets <sup>1</sup>	Gross Block as on 31.03.2019 or as on COD, whichever is later and subsequently for each year thereafter upto 31.03.2024	Depreciation Rates as per MPERC's Depreciation Rate Schedule	Depreciation Amount for each year upto 31.03.2024
	1	2	3	4=Col.2 x Col.3
1	Land*			
2	Building			
3	and so on			
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
	<b>TOTAL</b>			
	<b>Weighted Average Rate of</b>			
	<b>Depreciation %</b>			

\* Provide details of Freehold land and Lease hold land separately

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

(Petitioner)

**PART-I**  
**FORM TPS -12**

**STATEMENT OF DEPRECIATION**

Name of the Petitioner

Name of the Generating Station

(Amount in Rs. Lakh)

Sl. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Opening Capital Cost						
2	Closing Capital Cost						
3	<b>Average Capital Cost</b>						
4	Freehold land						
5	Rate of depreciation						
6	Depreciable value						
7	Balance useful life at the beginning of the period						
8	Remaining depreciable value						
9	<b>Depreciation (for the period)</b>						
10	<b>Depreciation (annualized)</b>						
11	<b>Cumulative depreciation at the end of the period</b>						
12	Less: Cumulative depreciation adjustment on account of un-discharged liabilities deducted as on 01.04.2009/ Station COD						
13	Less: Cumulative depreciation adjustment on account of de-capitalization						
14	<b>Net Cumulative depreciation at the end of the period</b>						

1. In case of details of FERV , give information for the applicable period

PART-I  
FORM TPS -13CALCULATION OF WEIGHTED AVERAGE RATE OF INTEREST ON ACTUAL LOANS<sup>1</sup>

Name of the Petitioner

Name of the Generating Station

(Amount in Rs. Lakh)

Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
<b>Loan-1</b>						
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 on annual basis						
Interest on loan						
<b>Loan-2</b>						
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 on annual basis						
Interest on loan						
<b>Loan-3 and so on</b>						
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 on annual basis						
Interest on loan						
<b>Total Loan</b>						
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 on annual basis						
Interest on loan						
<b>Weighted average Rate of Interest on Loans</b>						

**Note:**

1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.

(Petitioner)

PART-I  
FORM TP5 -14

## DRAW DOWN SCHEDULE FOR CALCULATION OF IDC &amp; FINANCING CHARGES

Name of the Petitioner

Name of the Generating Station

Sl. No.	Particulars	Quarter 1			Quarter 2			Quarter n (COD)		
		Quantum In Foreign currency	Exchange Rate on draw down date	Amount In Indian Rupee (Rs. Lakh)	Quantum In Foreign currency	Exchange Rate on draw down date	Amount In Indian Rupee (Rs. Lakh)	Quantum In Foreign currency	Exchange Rate on draw down date	Amount In Indian Rupee (Rs. Lakh)
1	Loans									
1.1	Foreign Loans									
1.1.1	Foreign Loan <sup>1</sup>									
	Draw down Amount									
	IDC									
	Financing charges									
	Foreign Exchange Rate Variation									
	Hedging Cost									
1.1.2	Foreign Loan <sup>2</sup>									
	Draw down Amount									
	IDC									
	Financing charges									
	Foreign Exchange Rate Variation									
	Hedging Cost									
1.1.3	Foreign Loan <sup>3</sup>									
	Draw down Amount									
	IDC									
	Financing charges									
	Foreign Exchange Rate Variation									
	Hedging Cost									
1.1.4	----									
	----									
	----									
1.1	Total Foreign Loans									
	Draw down Amount									
	IDC									
	Financing charges									
	Foreign Exchange Rate Variation									
	Hedging Cost									
1.2	Indian Loans									
1.2.1	Indian Loan <sup>1</sup>									
	Draw down Amount	----	----	----	----	----	----	----	----	----
	IDC	----	----	----	----	----	----	----	----	----
	Financing charges	----	----	----	----	----	----	----	----	----
1.2.2	Indian Loan <sup>2</sup>									
	Draw down Amount	----	----	----	----	----	----	----	----	----
	IDC	----	----	----	----	----	----	----	----	----
	Financing charges	----	----	----	----	----	----	----	----	----
1.2.3	Indian Loan <sup>3</sup>									
	Draw down Amount	----	----	----	----	----	----	----	----	----
	IDC	----	----	----	----	----	----	----	----	----
	Financing charges	----	----	----	----	----	----	----	----	----
1.2.4	----									
	----									
	----									
1.2	Total Indian									
	Draw down Amount	----	----	----	----	----	----	----	----	----
	IDC	----	----	----	----	----	----	----	----	----
	Financing charges	----	----	----	----	----	----	----	----	----
1	Total of Loans drawn									
	IDC									
	Financing charges									
	Foreign Exchange Rate Variation									
	Hedging Cost									
2	Equity									
2.1	Foreign Equity Drawn									
2.2	Indian Equity Drawn	----	----	----	----	----	----	----	----	----
	Total Equity Deployed									

## Note:

1. Drawal of debt and equity shall be on pari passu basis quarter wise to meet the commissioning schedule. Drawal of higher equity in the beginning is permissible.
2. Applicable interest rates including reset dates used for above computation may be furnished separately
3. In case of multi unit project details of capitalization ratio used to be furnished

(Petitioner)

PART-I  
FORM TPS-15DETAILS/INFORMATION TO BE SUBMITTED IN RESPECT OF FUEL FOR COMPUTATION OF ENERGY CHARGES<sup>1</sup>Name of the Petitioner  
Name of the Generating Station

S. No.	Month	Unit	For Preceding					
			3rd Month (from COD or from 1.4.2019 as the case may be)		2nd Month (from COD or from 1.4.2019 as the case may be)		1st Month (from COD or from 1.4.2019 as the case may be)	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
<b>A Opening Quantity</b>								
1	Opening Quantity of Coal	(MMT)						
2	Value of Stock							
<b>B Quantity</b>								
3	Quantity of Coal supplied by Coal Company	(MMT)						
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MMT)						
5	Coal supplied by Coal Company (1+2)	(MMT)						
6	Normative Transit & Handling Losses (For coal based Projects)	(MMT)						
7	Net Coal Supplied (3-4)	(MMT)						
<b>Price</b>								
8	Amount charged by the Coal Company	(Rs.)						
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)						
10	Handling, Sampling and other charges							
11	<b>Total amount charged (8+9+10)</b>	(Rs.)						
12	Transportation charges by rail/ ship/ road (transport	(Rs.)						
	By Rail							
	By Road							
	By Ship							
	-----							
13	Adjustment (+/-) in amount charged made by Railways/ Transport Company	(Rs.)						
14	Demurrage Charges, if any	(Rs.)						
15	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)						
16	Total Transportation Charges (9+ 10-11+12)	(Rs.)						
17	Total amount charged for coal supplied including transportation (8+13)	(Rs.)						
<b>E Total Cost</b>								
18	Landed cost of coal (2+17) / (1+7)	Rs./MT						
19	Blending Ratio (Domestic/ Imported)							
20	Weighted average cost of coal for preceding three months	Rs./MT						
<b>F Quantity</b>								
21	GCV of Domestic Coal as per bill of Coal Company	(kCal/Kg)						
22	GCV of Imported Coal as per bill Coal Company	(kCal/Kg)						
23	GCV of Imported Coal of the opening stock as per bill of coal company	(kCal/Kg)						
24	GCV of Imported Coal supplied as per bill of Coal Company	(kCal/Kg)						
25	Weighted average GCV of coal as Billed	(kCal/Kg)						
26	GCV of Domestic Coal of the opening Stock as received at station	(kCal/Kg)						
27	GCV of Domestic Coal supplied as received at Station	(kCal/Kg)						
28	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)						
29	GCV of Imported Coal as received at Station	(kCal/Kg)						
30	Weighted average GCV of coal as Received	(kCal/Kg)						

**Note:**

- Similar details to be furnished for natural gas/ liquid fuel for CCGT station and secondary fuel oil for coal/ lignite based thermal plants with appropriate units
- As billed and as received GCV, quantity of coal, and price should be submitted as certified by statutory auditor.

(Petitioner)

PART-I  
FORM TPS - 16

**DETAILS/INFORMATION TO BE SUBMITTED IN RESPECT OF CAPITAL SPARES**

Name of the Petitioner

Name of the Generating Station

Sl. No.	Details of Capital Spares and Expenses		Claimed as a part of additional capitalisation	Funded through compensatory allowance	Funded through Special Allowance (if applicable)	Claimed as a part of stores and spares
	Name of spare	Amount				
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

**PART-I**  
**FORM TPS - 17**

**Non-Tariff Income**

Name of the Petitioner

Name of the Generating Station

Sr. No.	Parameters	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	Income from rent of land or building						
2	Income from sale of scrap						
3	Income from advertisement						
4							
5							

Note: To be submitted at the time of truing up

(Petitioner)

**PART-I**  
**FORM TPS - 18**

**Details of Water Charges**

Name of the Petitioner

Name of the Generating Station

Sr. No.	Details of Water charges (excluding water cess)		Quantity allocated	Normative consumption at 85% PLF	Spillage of water (in percentage)	Amount Claimed
	Name of source and quantity	Amount	Unit-----	Unit-----		
1						
2						
3						
4						
5						

(Petitioner)



**PART-II  
FORM HPS-19**

**Details of Statutory Charges (if applicable)**

**Name of the Petitioner**

**Name of the Generating Station**

Particular	Unit Rate	No. of Units	Amount Claimed
1	2	3	4
Electricity Duty			
Water Charges			
.....			

(Petitioner)

**PART-I  
FORM TPS-A**

**ABSTRACT OF CAPITAL COST ESTIMATES AND SCHEDULE OF COMMISSIONING FOR THE NEW PROJECTS**

**Name of the Petitioner**

**Name of the Generating Station**

<b>New Projects</b>		
<b>Capital Cost Estimates</b>		
Board of Director/ Agency approving the Capital Cost estimates:		
Date of approval of the Capital cost estimates:		
	<b>Present Day Cost</b>	<b>Completed Cost</b>
Price level of approved estimates	As on End of _____ Qtr. Of the year _____	As on Scheduled COD of the Station
Foreign Exchange rate considered for the Capital cost estimates		
<b>Capital Cost excluding IDC, IEDC &amp; FC</b>		
Foreign Component, if any (In Million US\$ or the relevant Currency)		
Domestic Component (Rs. Lakh)		
<b>Capital cost excluding IDC, IEDC, FC, FERV &amp; Hedging Cost (Rs. Cr.)</b>		
<b>IDC, IEDC, FC, FERV &amp; Hedging Cost</b>		
Foreign Component, if any (In Million US\$ or the relevant Currency)		
Domestic Component (Rs. Lakh)		
<b>Total IDC, IEDC, FC, FERV &amp; Hedging Cost (Rs. Lakh)</b>		
Rate of taxes & duties considered		
<b>Capital cost including IDC, IEDC, FC, FERV &amp; Hedging Cost</b>		
Foreign Component, if any (In Million US\$ or the relevant Currency)		
Domestic Component (Rs. Lakh)		
<b>Capital Cost Including IDC, IEDC &amp; FC (Rs. Lakh)</b>		
<b>Schedule of Commissioning</b>		
Scheduled COD of Unit-I/ Block-I as per Investment Approval		
Scheduled COD of Unit-II/ Block-II as per Investment Approval		
-----		
-----		
Scheduled COD of last Unit/Block		

Note:

1. Copy of Investment approval letter should be enclosed
2. Details of Capital Cost are to be furnished as per Form-5B
3. Details of IDC & Financing Charges are to be formed as per FORM-14

(Petitioner)

BREAK-UP OF CAPITAL COST FOR NEW COAL BASED PROJECT

PART-I  
FORM TFS-28

Name of the Petitioner  
Name of the Generating Station

(Amount in Rs. Lakhs)

Sl. No.	Break Down	As per Original Estimates as per Investment Approval	Actual Capital Expenditure as on COD/anticipated COD	Liabilities/Provisions	Variation (3-4-5)	Specific Reasons for Variation	Estimated Capital expenditure upto cut-off date
(3)	(2)	(3)	Actual Amount	(5)	(6)	(7)	(8)
1	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	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	M&I						
2.3.11	Air Compressor System						
2.3.12	Air Condition & Ventilation System						
2.3.13	Fire fighting System						
2.3.14	H/P/P Plants						
2.3.15	TGD System, if any						
2.3.16	De-salination plant for sea-water intake						
2.3.17	External coal handling in jetty, if any						
	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.C. Unit						
	Total BOP Electrical						
2.5	Control & Instrumentation (C&I) Package						
	Total Plant & Equipments excluding taxes & duties						
2.6	Taxes & Duties						
3	Initial Spares						
4	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	Temporary construction & enabling						
4.15	Road & Drainage						
	Total Civil Works						
5	Construction & Pre-Commissioning Expenses						
5.1	Erection Testing and Commissioning						
5.2	Site Supervision						
5.3	Operator's Training						
5.4	Construction Insurance						
5.5	Fuels & Plant						
5.6	Start up Fuel						
	Total Construction & Pre-Commissioning Expenses						
6	Overheads						
6.1	Establishment						
6.2	Design & Engineering						
6.3	Audit & Accounts						
6.4	Contingency						
	Total Overheads						
7	Total Capital Cost Excluding IDC & FC						
8	IDC, FC, FERV & Hedging Cost						
8.1	Interest During Construction (IDC)						
8.2	Financing Charges (FC)						
8.3	Foreign Exchange Rate Variation (FERV)						
8.4	Hedging Cost						
	Total IDC, FC, FERV & Hedging Cost						
9	Capital cost including IDC, FC, FERV & Hedging Cost						

\* Provide details of Freehold land and Lease hold land separately

Note:

- In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost over-run was beyond the control of the generating company.
- In case of both time & cost over-run, a detailed note giving reasons of such time and cost over-run should be submitted clearly bringing out the agency responsible and whether such time and cost over-run was beyond the control of the generating company.
- The implication on cost due to time over-run, if any shall be submitted separately giving details of increase in prices in different packages from scheduled COD to Actual COD/ anticipated COD, increase in IDC from scheduled COD to actual COD/ anticipated COD and increase of IDC from scheduled COD to actual/ anticipated COD.
- Impact on account of each reason for Time over-run on Cost of project should be quantified and substantiated with necessary documents and supporting workings.
- A list of balance work assets/ work wise including initial spare on original scope of works along with estimate shall be furnished positively.

(Petitioner)

PART-I  
FORM TPS-5C

## BREAK-UP OF CONSTRUCTION/SUPPLY/SERVICE PACKAGES

Name of the Petitioner  
Name of the Generating Station

Sr. No.	Name/ No. of Construction/ Supply/ Service Package	Package A	Package B	Package C	.....	Total Cost of all packages
1	Scope of works <sup>1</sup> (in line with head of cost break-ups as applicable)					
2	Whether awarded through ICB/DCB/Departmentally/ Deposit Work					
3	No. of bids received					
4	Date of Award					
5	Date of Start of work					
6	Date of Completion of Work/ Expected date of completion of work					
7	Value of Award <sup>2</sup> in (Rs. Lakh)					
8	Firm or with Escalation in prices					
9	Actual capital expenditure till the completion or up to COD whichever is earlier (Rs. Lakh)					
10	Taxes & Duties and IEDC (Rs. Lakh)					
11	IDC, FC, FERV & Hedging Cost (Rs. Lakh)					
12	Sub-total (9+10+11) (Rs. Lakh)					

**Note:**

1. The scope of work in any package should be indicated in conformity of Capital cost break-up for the coal based plants in FORM-B to the extent possible.
2. If there is any package, which need to be shown in Indian Rupee and foreign currency(ies) , the same should be shown separately along with the currency, the exchange rate and the date e.g. Rs. 80 Cr. + IS\$ 50m=Rs. 430 Cr. at US\$=Rs. 70 as on say 01.04.19

(Petitioner)

**PART-I**  
**FORM TPS-D**

**DETAILS OF VARIABLES, PARAMETERS, OPTIONAL PACKAGE etc. FOR NEW PROJECT**

**Name of the Petitioner**

**Name of the Generating Station**

<b>Unit Size</b>		
<b>Number of Units</b>		
<b>Greenfield/ Extension</b>		
<b>S. No.</b>	<b>Variables</b>	<b>(Design Operating Range) Values</b>
1	Coal Quality - Calorific Value	
2	Ash Content	
3	Moisture Content	
4	Boiler Efficiency	
5	Suspended Particulate Matter	
6	Ash Utilization	
7	Boiler Configuration	
8	Turbine Heat Rate	
9	CW Temperature	
10	Water Source	
11	Distance of Water Source	
12	Clarifier	
13	Mode of Unloading Oil	
14	Coal Unholding Mechanism	
15	Type of Fly Ash Disposal and Distance	
16	Type of Bottom Ash Disposal and Distance	
17	Type of Soil	
18	Foundation Type (Chimney)	
19	Water Table	
20	Seismic and Wind Zone	
21	Condensate Cooling Method	
22	Desalination/ RO Plant	
23	Evacuation Voltage Level	
24	Type of Coal (Domestic / Imported)	
<b>Parameter/ Variables</b>		<b>Values</b>
Completion Schedule		
Terms of Payment		
Performance Guarantee Liability		
Basis of Price (Firm/ Escalation-Linked)		
Equipment Supplier (Country of Origin)		
<b>Optional Packages</b>		<b>Yes/ No</b>
Desalination Plant/ RO Plant		
MGR		
Railway Siding		
Unloading Equipment at Jetty		
Rolling Stock/ Locomotive		
FGD Plant		
Length of Transmission Line till Tie Point (in km)		

(Petitioner)

PART-I  
FORM THREE

**IN CASE THERE IS COST OVER RUN**

Name of the Petitioner  
Name of the Generating Station

S. No.	Break Down	Original Cost (Rs. Lakhs) as approved by the Board of Members	Actual/ Estimated Cost as incurred/ to be incurred (Rs. Lakhs)		Difference	Reasons for Variation (Please submit supporting documents wherever applicable)	Increase in cost cost due to items in this cost
			Total Cost	Total Cost			
1	Cost of Land & Site Development						
1.1	Land						
1.2	Rehabilitation & Restoration (R&R)						
1.3	Preliminary Investigation & Site Development						
2	Plant & Equipment						
2.1	Steam generator Island						
2.2	Turbine Generator Island						
2.3	Condensate Pump						
2.3.1	Feed Heating & Storage System						
2.3.2	External Water Supply System						
2.3.3	D/Water Plant						
2.3.4	Condensate Plant						
2.3.5	Condensate Pump						
2.3.6	Feed Heating & Storage System						
2.3.7	Auxiliary System						
2.3.8	Coal Handling Plant						
2.3.9	Coal Handling Plant						
2.3.10	Coal Handling Plant						
2.3.11	Air Compressor System						
2.3.12	Air Compressor & Ventilation System						
2.3.13	Free Ignition Switch						
2.3.14	Free Ignition Switch						
2.4	BOF Electrical						
2.4.1	Switchgear Package						
2.4.2	Transformer Package						
2.4.3	Switchgear Package						
2.4.4	Transformer Package						
2.4.5	Control Building & Bundling						
2.4.6	Emergency D.O. Tank						
2.5	Control & Instrumentation (C&I)						
	Control & Instrumentation (C&I)						
	Total Plant & Equipment including taxes & duties						
3	Initial Spares						
4	Grid Works						
4.1	Main Plant/ Admin. Building						
4.2	EW System						
4.3	Grounding						
4.4	Lighting System						
4.5	Water Conservation						
4.6	External Fire Alarm						
4.7	Fire Fighting & Storage System						
4.8	Fire Fighting System						
4.9	Fire Fighting System						
4.10	Fire Fighting System						
4.11	Fire Fighting System						
4.12	Fire Fighting System						
4.13	Fire Fighting System						
4.14	Fire Fighting System						
4.15	Fire Fighting System						
	Total Grid Works						
5	Construction & Pre-Commissioning Expenses						
5.1	Pre-Commissioning						
5.2	Pre-Commissioning						
5.3	Pre-Commissioning						
5.4	Construction Insurance						
5.5	Construction Insurance						
5.6	Construction Insurance						
5.7	Construction Insurance						
5.8	Construction Insurance						
5.9	Construction Insurance						
5.10	Construction Insurance						
5.11	Construction Insurance						
5.12	Construction Insurance						
5.13	Construction Insurance						
5.14	Construction Insurance						
5.15	Construction Insurance						
	Total Construction & Pre-Commissioning Expenses						
6	Overhead						
6.1	Overhead						
6.2	Overhead						
6.3	Overhead						
6.4	Overhead						
	Total Overhead						
7	Capital Cost including IDC, EC, REB & Working Cost						
8	IDC, EC, REB & Working Cost						
8.1	IDC, EC, REB & Working Cost						
8.2	IDC, EC, REB & Working Cost						
8.3	IDC, EC, REB & Working Cost						
8.4	IDC, EC, REB & Working Cost						
	Total IDC, EC, REB & Working Cost						
9	Capital Cost including IDC, EC, REB & Working Cost						

Note: Impact on account of each item for Cost overrun should be quantified and substantiated with necessary documents and supporting writings. (with/without)

**PART-I**  
**FORM TPS-F**

**IN CASE THERE IS TIME OVER RUN**

Name of the Petitioner		Name of the Generating Station		Original Schedule (As per Planning)		Actual Schedule (As per Actual)		Time Over-Run		Reasons for delay	Other Activity affected (Mention Sr. No. of activity affected)
Sr. No.	Description of Activity/ Works/ Service	Start Date	Completion Date	Actual Start Date	Actual Completion Date	Run	Days				
1											
2											
3											
4											
5											
6											
7											
8											
9											
....											

- 1 Delay on account of each reason in case of time overrun should be quantified and substantiated with necessary documents and supporting workings
- 2 Indicate the activities on critical path

(Petitioner)

PART-I  
FORM TPS -G

## STATEMENT OF ADDITIONAL CAPITALISATION DURING FIVE YEAR OF USEFUL LIFE OF THE PROJECT

Name of the Petitioner

Name of the Generating Station

COD

For Financial Year

Sl. No.	Year	Work/ Equipment added during last five years of useful life of each Unit/Station	ACE Claimed (Actual/ Projected)			Regulations under which claimed	Justification	Impact on life extension
			Accrual basis	Un-discharged Liability included in Col.4	Cash basis			
(1)	(2)	(3)	(4)	(5)	(6=4-5)	(7)	(8)	(9)

**Note:**

1. Cost Benefit analysis for capital additions done should be submitted along with petition for approval of such schemes
2. Justification for additional capital expenditure claim for each asset should be relevant to regulations under which claim has been made and the necessity of capitalization of the asset.

(Petitioner)

**PART-I**  
**FORM TPS -TPS-H**

**DETAILS OF ASSETS DE-CAPITALIZED DURING THE PERIOD**

Name of the Petitioner

Name of the Generating Station

Sl. No.	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional)	Original value of the Asset Capitalised	Year put to use	Depreciation recovered till date of de- capitalization
	2	3	4	5	6
1					
2					
3					
4					
5					

**Note:** Year wise details need to be submitted



**PART-I**  
**FORM TPS -I**  
**STATEMENT SHOWING RECONCILIATION OF ADDITIONAL CAPITAL EXPENDITURE (ACE) CLAIMED WITH THE**  
**CAPITAL ADDITIONS AS PER BOOKS**

Name of the Petitioner  
Name of the Generating Station  
COD

Sl. No. (1)	Particulars (2)	2019-20 (3)	2020-21 (4)	2021-22 (5)	2022-23 (6)	2023-24 (7)
1	Closing Gross Block as per IND AS					
2	Add/Less: Adjustment*					
3	Closing Gross Block as per IGAAP					
4	Opening Gross Block as per IND AS					
5	Add/Less: Adjustment					
6	Opening Gross Block as per IGAAP					
7	<b>Total Additions as per books (G = 3 - 5)</b>					
8	Less: Additions pertaining to other Stages (give Stage wise breakup)					
9	<b>Net Additions pertaining to instant project/ Unit/ Stage</b>					
10	Less: Exclusions (items not allowable/ not claimed)					
11	<b>Net Additional Capital Expenditure Claimed (on actual basis)</b>					
12	<b>Less: Un-discharged Liability (as per IGAAP)</b>					
13	<b>Add: Discharges of un-discharged liabilities, corresponding to admitted assets/works (as per IGAAP)</b>					
14	<b>Net Additional Capital expenditure Claimed (on cash basis)</b>					

- 1 Form is to be certified by the Auditor and Certificate issued as per the guidelines prescribed by their governing body.  
2 Reasons for exclusion of any expenditure shall be given in clear terms. \*Break-up to be specified.

(Petitioner)

PART-I  
FORM TPS -J

## STATEMENT SHOWING ITEMS/ASSETS/WORKS CLAIMED UNDER EXCLUSIONS

Name of the Petitioner

Name of the Generating Station

COD

Sl. No.	Head of Work/ Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in Col.3	Cash basis	IDC included in Col.3	
(1)	(2)	(3)	(4)	(5=3-4)	(6)	(7)

**Note:**

- Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed, etc.
- For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and not in sending station or in both the station.

(Petitioner)

PART-I  
FORM TPS -KSTATEMENT OF CAPITAL COST  
(To be given for relevant dates and year wise)

Name of the Petitioner

Name of the Generating Station

(Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date		
		Accrual Basis	Un-discharged	Cash Basis
A	a) Opening Gross Block Amount as per books			
	b) Amount of IDC in A(a) above			
	c) Amount of FC in A(a) above			
	d) Amount of FERV in A(a) above			
	e) Amount of Hedging Cost in A(a) above			
	f) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)			
	b) Amount of IDC in B(a) above			
	c) Amount of FC in B(a) above			
	d) Amount of FERV in B(a) above			
	e) Amount of Hedging Cost in B(a) above			
	f) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)			
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period			
	b) Amount of IDC in D(a) above			
	c) Amount of FC in D(a) above			
	d) Amount of FERV in D(a) above			
	e) Amount of Hedging Cost in D(a) above			
	f) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books			
	b) Amount of IDC in E(a) above			
	c) Amount of FC in E(a) above			
	d) Amount of FERV in E(a) above			
	e) Amount of Hedging Cost in E(a) above			
	f) Amount of IEDC in E(a) above			

## Note:

1. Relevant date/s means date of COD of unit/s/station and financial year start date and

(Petitioner)

PART-I  
FORM TPS -LSTATEMENT OF CAPITAL WORKS IN PROGRESS  
(To be given for relevant dates and year wise)

Name of the Petitioner

Name of the Generating Station

(Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening CWIP as per books			
	b) Amount of IDC in A(a) above			
	c) Amount of FC in A(a) above			
	d) Amount of FERV in A(a) above			
	e) Amount of Hedging Cost in A(a) above			
	f) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period			
	b) Amount of IDC in B(a) above			
	c) Amount of FC in B(a) above			
	d) Amount of FERV in B(a) above			
	e) Amount of Hedging Cost in B(a) above			
	f) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period			
	b) Amount of IDC in C(a) above			
	c) Amount of FC in C(a) above			
	d) Amount of FERV in C(a) above			
	e) Amount of Hedging Cost in C(a) above			
	f) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period			
	b) Amount of IDC in D(a) above			
	c) Amount of FC in D(a) above			
	d) Amount of FERV in D(a) above			
	e) Amount of Hedging Cost in D(a) above			
	f) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books			
	b) Amount of IDC in E(a) above			
	c) Amount of FC in E(a) above			
	d) Amount of FERV in E(a) above			
	e) Amount of Hedging Cost in E(a) above			
	f) Amount of IEDC in E(a) above			

## Note:

1. Relevant date/s means date of COD of unit/s/station and financial year start date and end

(Petitioner)

**PART-I  
FORM TPS -M**

**CALCULATION OF INTEREST ON NORMATIVE LOAN**

Name of the Petitioner  
Name of the Generating Station

Sl. No.	Particulars	(Amount in Rs. Lakh)							
		Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
1	Gross Normative loan - Opening								
2	Cumulative repayment of Normative Loan upto previous year								
3	<b>Net Normative loan - Opening</b>								
4	Add: Increase due to addition during the year/period								
5	Less: Decrease due to de-capitalization during the year/period								
6	Less: Decrease due to reversal during the year/period								
7	Add: Increase due to discharges during the year/period								
8	<b>Net Normative loan - Closing</b>								
9	<b>Average Normative Loan</b>								
10	Weighted average rate of interest								
11	<b>Interest on loan</b>								

(Petitioner)

**PART-I  
FORM TPS -N**

**CALCULATION OF INTEREST ON WORKING CAPITAL**

Name of the Petitioner

Name of the Generating Station

(Amount in Rs. Lakh)

Sl. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Cost of Coal						
2	Cost of Main Secondary Fuel Oil <sup>1</sup>						
3	O & M Expenses						
4	Maintenance Spares						
5	Receivables						
6	Total Working Capital						
7	Rate of Interest						
8	Interest on Working Capital						

**Note:**

1. For Coal based/ Lignite based generating stations

(Petitioner)

**PART-I  
FORM TPS-O**

**INCIDENTAL EXPENDITURE DURING CONSTRUCTION UP TO SCHEDULED COD AND UP TO  
ACTUAL/ ANTICIPATED COD**

Name of the Petitioner

Name of the Generating Station

(Amount in Rs. Lakh)

Sl. No.	Parameters	As on Scheduled COD	As on actual COD/ Anticipated COD
<b>A</b>	<b>Head of Expenses:</b>		
1	Employees <sup>1</sup> Benefits Expenses		
2	Finance Costs		
3	Water Charges		
4	Communication Expenses		
5	Power Charges		
6	Other Office and Administrative Expenses		
7	Others (Please Specify Details)		
8	Other Pre-Operating Expenses		
....	....		
....	....		
<b>B</b>	<b>Total Expenses</b>		
	Less: Income from sale of tenders		
	Less: Income from guest house rent		
	Less: Income recovered from Contractors		
	Less: Interest on Deposits		
	...		

(Petitioner)

**PART-I**  
**FORM TPS -P**

**EXPENDITURE UNDER DIFFERENT PACKAGES UP TO SCHEDULED COD AND UP TO ACTUAL/  
ANTICIPATED COD**

Name of the Petitioner

Name of the Generating Station

(Amount in Rs. Lakh)

Sl. No.	Parameters	As on Scheduled COD	As on actual COD/ Anticipated COD
1	Package 1		
2	Package 2		
3	Package 3		
4	-----		
5	-----		
6			

(Petitioner)

**PART-I**  
**FORM TPS -Q**

**ACTUAL CASH EXPENDITURE**

Name of the Petitioner

Name of the Generating Station

(Amount in Rs. Lakh)

Particulars	Quarter-I	Quarter-II	Quarter-III	Quarter-n (COD)
Expenditure towards Gross Block				
Add: Expenditure towards CWIP				
Add: Capital Advances, if any				
Less: Un-discharged liabilities (included above)				
Add/Less: Others				
Payment to contractors/ suppliers towards capital assets				
Cumulative payments				

Note: If there is variation between payment and fund deployment justification need to be furnished

(Petitioner)

**PART-I**  
**FORM TPS - R**

**LIABILITY FLOW STATEMENT**

Name of the Petitioner

Name of the Generating Station

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2019	Discharges (Yearwise)	Reversal (Yearwise)
For assets eligible for normal RoE						
For assets eligible for RoE at weighted average rate of interest on loan						

(Petitioner)

**PART-II**  
**FORM HPS-19**

**Summary of issues involved in the petition**

**Name of the Petitioner**

**Name of the Generating Station**

<b>1</b>	<b>Petitioner</b>		
<b>2</b>	<b>Subject</b>		
<b>3</b>	<b>Prayer</b>		
	i		
	ii		
	ii		
<b>4</b>	<b>Respondents</b>		
	a		
	b		
	c		
<b>5</b>	<b>Project Scope</b>		
	<b>Cost</b>		
	<b>Commissioning</b>	Unit/Station COD	
	<b>Claim</b>		
	<b>AFC</b>		
	<b>Capital Cost</b>		
	<b>Initial Spares</b>		
	<b>NAPAF</b>		
	<b>Any Specific</b>		

Petitioner



# **Annexure-I**

## **PART-II**

### **TARIFF FILING NEW FORMS (HYDRO)**

## Annexure-I

## PART-II

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

Form No.	Title of Tariff Filing Forms (Hydro)	Tick
FORM HPS-1	Summary Sheet	
Form HPS-1 (I)	Statement showing claimed capital cost	
Form HPS-1 (II)	Statement showing Return on Equity	
FORM HPS-2	Details of COD, Type of hydro station, Normative Annual Plant Availability Factor(NAPAF) & Other normative parameters considered for tariff calculation	
FORM HPS-3	Salient Features of Hydroelectric Project	
FORM HPS-4	Details of Foreign loans	
FORM HPS-4A	Details of Foreign Equity	
FORM HPS-5	Abstract of Admitted Capital Cost for the existing Projects	
FORM HPS-5A	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects	
FORM HPS-5B	Break-up of Capital Cost for New Hydro Power Generating Station	
FORM HPS-5C	Break-up of Capital Cost for Plant and Equipment	
FORM HPS-5D	Break-up of Construction/Supply/Service packages	
FORM HPS-5Ei	In case there is cost over run	
FORM HPS-5Eii	In case there is time over run	
FORM HPS-5F	In case there is claim of additional RoE	
FORM HPS-6	Financial Package upto COD	
FORM HPS-7	Details of Project Specific Loans	
FORM HPS- 8	Details of Allocation of corporate loans to various projects	
FORM HPS-9A	Statement of Additional Capitalisation after COD	
FORM HPS-9B	Statement of Additional Capitalisation during lag end of the Project	
FORM HPS-9Bi	Details of Asset De-capitalised during the period	
FORM HPS-9C	Statement showing reconciliation of ACE claimed with the capital additions as per books	
FORM HPS-9D	Statement showing items/ assets/ works claimed under Exclusions	
FORM HPS-9E	Statement of Capital Cost	
FORM HPS-9i	Statement of capital works in progress	
FORM HPS-10	Financing of Additional Capitalisation	
FORM HPS-11	Calculation of Depreciation on original project cost	
FORM HPS-12	Statement of Depreciation	
FORM HPS-13	Calculation of weighted average rate of interest on actual loans	
FORM HPS-13A	Calculation of interest on Normative loan	
FORM HPS-13B	Calculation of Interest on Working Capital	
FORM HPS-13C	Non Tariff Income	
FORM HPS-13D	Incidental Expenditure during Construction	
FORM HPS-14	Draw Down Schedule for Calculation of IDC & Financing Charges	
FORM HPS-14A	Actual cash expenditure	
FORM HPS-15A	Deign energy and peaking capability (month wise)- ROR with Pondage/Storage type new stations	
FORM HPS-15B	Deign energy and MW Continuous (month wise)- ROR type new stations	
FORM HPS-16	Liability Flow Statement	
FORM HPS-17	Operation and Maintenance Expenses	
FORM HPS-18	Details of Statutory Charges	
FORM HPS-19	Summary of issue involved in the petition	
Sl. No.	Information / Document	Tick
1	Certificate of Incorporation, Certificate for Commencement of Business, Memorandum of Association & Articles of Association (For New Station setup by a company making tariff application for the first time to CERC)	
2	A. Station wise 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. B. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the existing 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.	
6	Copies of the BPSA/ PPA with the beneficiaries, if any.	
7	Detailed note giving reasons of cost and time over run, if applicable. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and Bar Chart d. Justification for cost and time Overrun	
8	Generating Company shall submit copy of Cost Audit Report alongwith cost accounting records, cost details, statements, schedules etc. for the Generating Unit wise/ stage wise/ Station wise/ and subsequently consolidated at Company level as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2012-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2023-24. In case of initial tariff filing, the latest available Cost Audit Report should be furnished.	
9	Any other relevant information (Please specify)	
10	Reconciliation with Balance Sheet of any actual additional capitalization and amongst stages of a generating station.	
11	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify tariff filing forms suitably as per available information to them for submission of required information for tariff purpose.	

Note 1: Electronic copy of the petition (in words format) and detailed calculation as per these formats (In excel format) and any other information submitted has to be uploaded in the e-filing website and shall also be furnished in pen drive/ flash drive.

**PART-II**  
**FORM HPS-1**

Summary Sheet

Name of the Generating Company :  
Name of the Power Station :  
Place (Region/ District/ State):

S. No.	Particulars	(Rs. in lacs)						
		Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	
1	2	3	4	5	6	7	8	
1	Depreciation							
2	Interest on Loan							
3	Return on Equity <sup>1</sup>							
4	Interest on Working Capital							
5	O & M Expenses							
	Total							

Note

1 : Details of calculations, considering equity as per regulation, to be furnished.

Form-10) - Statement showing claimed capital costs

S. No.	Particulars	(Rs. in lacs)						
		2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	4	5	6	7		
	Opening Capital Cost							
	Add: Addition during the year/ period							
	Less: Decapitalisation during the year/ period							
	Less: Reversal during the year/ period							
	Add: Discharges during the year/ period							
	Closing Capital Cost							
	Average Capital Cost							

Form-10D) - Statement showing Return on Equity:

S. No.	Particulars	(Rs. in lacs)						
		2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	4	5	6	7		
	Opening Equity							
	Add: Increase due to addition during the year/ period							
	Less: Decrease due to							
	Less: Decrease due to reversal							
	Add: Increase due to discharges							
	Closing Equity							
	Average Equity							
	Rate of ROE							
	Rate on Equity							

PART-II  
FORM HPS-2

Details of COD, Type of hydro station, Normative Annual Plant Availability Factor (NAPAF) & Other normative parameters considered for tariff calculation

NAME OF THE PETITIONER:  
NAME OF THE GENERATING STATION :

Sl. No.	Description	Unit	Year Ending March					
			Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
	(1)	(2)	3	4	5	6	7	8
1	Installed Capacity	MW						
2	Free power to home state	%						
3	Date of commercial operation (actual/ anticipated)							
	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) Rotating exciters on generator							
	b) Static excitation							
6	Design Energy (Annual) <sup>1</sup>	Gwh						
7	Auxiliary Consumption including Transformation losses	%						
8	Normative Plant Availability Factor (NAPAF)							
9.1	Maintenance Spares for WC	% of O&M						
9.2	Receivables for WC	in Months						
9.3	Base Rate of Return on Equity	%						
9.4	Tax Rate	%						
9.5	Effective Tax Rate <sup>3</sup>							
9.5	SBI Base Rate + 350 basis points as on .2	%						

<sup>1</sup> Month wise Design energy figures to be given separately with the petition.

<sup>2</sup> Mention relevant date

<sup>3</sup> Effective tax rate is to be computed in accordance with Regulation 25 i.e. actual tax (or advance tax) / gross income, where gross income

(Petitioner)

**PART-II  
FORM HPS-3**

**Salient Features of Hydroelectric Project**

**NAME OF THE PETITIONER:**

**NAME OF THE GENERATING STATION:**

<b>1. Location</b>	
State/Distt.	
River	
<b>2. Diversion Tunnel</b>	
Size, shape	
Length (M)	
<b>3. Dam</b>	
Type	
Maximum dam height (M)	
<b>4. Spillway</b>	
Type	
Crest level of spillway (M)	
<b>5. Reservoir</b>	
Full Reservoir Level (FRL) (M)	
Minimum Draw Down Level (MDDL) (M)	
Live storage (MCM)	
<b>6. De-silting Chamber</b>	
Type	
Number and Size	
Particle size to be removed(mm)	
<b>7. Head Race Tunnel</b>	
Size and type	
Length (M)	
Design discharge(Cumecs)	
<b>8. Surge Shaft</b>	
Type	
Diameter (M)	
Height (M)	
<b>9. Penstock/Pressure shafts</b>	
Type	
Diameter & Length (M)	
<b>10. Power House</b>	
Installed capacity (No of units x MW)	
Type of turbine	
Rated Head(M)	
Rated Discharge(Cumecs)	
Head at Full Reservoir Level (M)	
Head at Minimum Draw down Level (M)	
MW Capability at FRL.	
MW Capability at MDDL	
<b>11. Tail Race Tunnel/Channel</b>	
Diameter (M) , shape	
Length (M)	
Minimum tail water level (M)	
<b>12. Switchyard</b>	
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(s) on account of restrictions on water use due to irrigation, drinking water, industrial, environmental considerations etc.

(Petitioner)

PART-II  
FORM HPS-4

## Details of Foreign loans

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

Name of the Petitioner \_\_\_\_\_  
 Name of the Generating Company \_\_\_\_\_  
 Exchange Rate at COD \_\_\_\_\_  
 Exchange Rate as on 31.03.2019 \_\_\_\_\_

Sl. No.	Financial Year (Starting from COD)	Year 1			Year 2			Year 3					
		2	3	4	5	6	7	8	9	10	11	12	13
		Date	Amount (Foreign Currency)	Relevant Exchange Rate	Amount (Rs.)	Date	Amount (Foreign Currency)	Relevant Exchange Rate	Amount (Rs.)	Date	Amount (Foreign Currency)	Relevant Exchange Rate	Amount (Rs.)
	<b>Currency<sup>1</sup></b>												
A.1	At the date of Drawl <sup>2</sup>												
2	Scheduled repayment date of principal												
3	Scheduled payment date of interest												
4	At the end of Financial year												
	<b>B</b>												
1	In case of Hedging <sup>3</sup>												
1	At the date of hedging												
2	Period of hedging												
3	Cost of hedging												
	<b>Currency<sup>2</sup> &amp; so on</b>												
A.1	At the date of Drawl <sup>2</sup>												
2	Scheduled repayment date of principal												
3	Scheduled payment date of interest												
4	At the end of Financial year												
	<b>B</b>												
1	In case of Hedging <sup>3</sup>												
1	At the date of hedging												
2	Period of hedging												
3	Cost of hedging												

<sup>1</sup> Name of the currency to be mentioned e.g. US \$, DM, etc. etc.<sup>2</sup> In case of more than one drawl during the year, Exchange rate at the date of each drawl to be given.<sup>3</sup> Furnish details of hedging, in case of more than one hedging during the year or part hedging, details of each hedging are to be given. Tax (such as withholding tax) details as applicable including change in rates, date from which change effective etc. must be clearly indicated.

(Petitioner)

**PART-II**  
**FORM HPS-4A**

**Details of Foreign Equity**

(Details only in respect of Equity infusion if any applicable to the project under petition)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Name of the Petitioner**

**Name of the Generating Station**

**Exchange Rate on date/s of infusion**

Sl. No.	Financial Year	Year 1				Year 2				Year 3			
		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.)
	<b>Currency<sup>1</sup></b>												
A.1	At the date of infusion <sup>2</sup>												
	2												
	3												
	4												
	<b>Currency<sup>2</sup></b>												
	1												
	2												
	3												
	<b>Currency<sup>3</sup></b>												
A.1	At the date of infusion <sup>2</sup>												
	2												
	3												
	4												
	<b>Currency<sup>4</sup> &amp; so on</b>												
	1	At the date of infusion <sup>2</sup>											
	2												
	3												

<sup>1</sup> Name of the currency to be mentioned e.g. US \$, DM, etc. etc.

<sup>2</sup> In case of equity infusion more than once during the year, Exchange rate at the date of each infusion to be given.

(Petitioner)

PART-II  
FORM HPS-5**Abstract of Admitted Capital Cost for the existing Projects**

Name of the Petitioner : \_\_\_\_\_

Name of the Generating Station : \_\_\_\_\_

Capital Cost as admitted by MPERC		
a)	Capital cost admitted as on _____ (Give reference of the relevant MPERC Order with Petition No. & Date)	
b)	Foreign Component, if any (In Million US \$ or the relevant Currency)	
c)	Foreign Exchange rate considered for the admitted Capital cost (Rs. Lakh)	
d)	Total Foreign Component (Rs. Lakh)	
e)	Domestic Component (Rs. Lakh)	
f)	Hedging cost, if any, considered for the admitted Capital cost (Rs. Lakh)	
<b>Total Capital cost admitted (Rs. Lakh) (d+e+f)</b>		

(Petitioner)

PART-II  
FORM HPS-5A**Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects**

Name of the Generating 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:		
Price level of approved estimates	<b>Present Day Cost</b> As of End of _____ Qtr. Of the year _____	<b>Completed Cost</b> As on Scheduled COD of the Station
Foreign Exchange rate considered for the Capital cost estimates		
<b>Capital Cost excluding IDC &amp; FC</b>		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. Lakh)		
<b>Capital cost excluding IDC, IEDC, FC, FERV &amp; Hedging Cost (Rs. Lakh)</b>		
<b>IDC, IEDC, FC, FERV &amp; Hedging Cost</b>		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. Lakh)		
<b>Total IDC, IEDC, FC, FERV &amp; Hedging Cost (Rs. Lakh)</b>		
Rate of taxes & duties considered		
<b>Capital cost Including IDC, IEDC, FC, FERV &amp; Hedging Cost</b>		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. Lakh)		
<b>Capital cost Including IDC, IEDC &amp; FC (Rs. Lakh)</b>		
<b>Schedule of Commissioning as per investment approval</b>		
Scheduled COD of Unit-I		
Scheduled COD of Unit-II		
-----		
Scheduled COD of last Unit/Station		

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-14.

(Petitioner)



**PART-II  
FORM HPS-5B**

**Break up of Capital Cost for New Hydro Power Generating Station**

**NAME OF THE PETITIONER:**  
**NAME OF THE GENERATING STATION:**

Sl. No.	Break Down	Original cost as Authority/ Investment Approval	Actual capital expenditure as on actual/ anticipated COD	Liabilities/ Provisions	Variation (6=3-4-5)	(Rs. in Lakh) Reasons for Variation
		3	4	5	6	7
1.	Infrastructure Works					
1.0	Preliminary including Development					
1.1	Land*					
1.2	R & R Expenditure					
1.3	Buildings					
1.4	Township					
1.5	Maintenance					
1.6	Tolls & Fines					
1.7	Communication					
1.8	Environment & Ecology					
1.9	Leases on stock					
1.10	Receipts & Recoveries					
1.11	Total (Infrastructure works)					
2.0	Major Civil Works					
2.1	Div. Inlets & Drafting Chambers					
2.2	HT, TRT, Surge Shaft & Pressure shafts					
2.3	Lower Plant civil works					
2.4	Overhead tanks (if 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	Excise Duty					
5.2	Churn Duty					
5.3	Total Taxes & Duties					
6.0	Construction & Pre-commissioning expenses					
6.1	Excursion, testing & commissioning					
6.2	Construction Insurance					
6.3	Site supervision					
6.4	Total (Const. & Pre-commissioning)					
7.0	Overheads					
7.1	Station					
7.2	Design & Engineering					
7.3	Audit & Accounts					
7.4	Contingency					
7.5	Rehabilitation & Re-estimation					
7.6	Total (Overheads)					
8.0	Capital Cost without IDC, FC, FERV & Hedging Cost					
9.0	IDC, FC, FERV & Hedging Cost					
9.1	Interest during Construction (IDC)					
9.2	Foreign Exchange Rate Variation (FERV)					
9.3	Hedging Cost					
9.4	Total of IDC, FC, FERV & Hedging Cost					
10.0	Capital cost including IDC, FC, FERV & Hedging Cost					

\* Provide details of Freehold Land, Leased Land and Land under reservation separately

- Note:**
- In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost over-run was beyond the control of the generating company.
  - Cost over-run should be detailed note giving reasons of such time and cost over run should be submitted clearly bringing out the agency responsible and whether such time & cost over run was beyond the control of the generating company.
  - The implication on cost due to time over run, if any, shall be submitted separately giving details of increase in prices in different packages from scheduled COD to Actual COD.
  - Impact on account of each reason for Time over run on Cost of Project should be quantified and substantiated with necessary documents and supporting drawings.
  - A list of balance work assets/ work wise including initial spare on original scope of works along with estimate shall be furnished positively.

(Petitioner)

PART-II  
FORM HPS-5CBreak up of Capital Cost for Plant & Equipment (New Project)NAME OF THE PETITIONER:  
NAME OF GENERATING STATION:

Sl. No.	Break Down	Original Cost as approved by Authority/Investment Approval	Cost on Actual/Anticipated COD	Variation	Reasons for Variation*
		3	4	5	6
1	2				
1.0	<b>Generator, turbine &amp; Accessories</b>				
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	<b>Total (Generator, turbine &amp; Accessories)</b>				
2.0	<b>Auxiliary Electrical Equipment</b>				
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	<b>Total (Auxiliary Elect. Equipment)</b>				
3.0	<b>Auxiliary equipment &amp; services for power station</b>				
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	<b>Total (Auxiliary equipt. &amp; services for PS)</b>			
4.0	Switchyard package			
5.0	Initial spares for all above equipments			
6.0	<b>Total Cost (Plant &amp; Equipment) excluding IDC, FC, FERV &amp; Hedging Cost</b>			
7.0	<b>IDC, FC, FERV &amp; Hedging Cost</b>			
7.1	Interest During Construction (IDC)			
7.2	Financing Charges (FC)			
7.3	Foreign Exchange Rate Variation (FERV)			
7.4	Hedging Cost			
7.5	<b>Total of IDC, FC, FERV &amp; Hedging Cost</b>			
8.0	<b>Total Cost (Plant &amp; Equipment) including IDC, FC, FERV &amp; Hedging Cost</b>			

**Note:**

1. In case of cost variation, a detailed note giving reasons for such variation should be submitted clearly indicating whether such cost over run was beyond the control of the generating company

(Petitioner)

**PART-II**  
**FORM HPS-5D**

**Break-up of Construction/Supply/Service packages**

**Name of the Petitioner**

**Name of the Generating Station :**

1	Name/No. of Construction / Supply / Service Package	Package A	Package B	Package C	.....	Total Cost of all packages
2	Scope of works <sup>1</sup> (in line with head of cost break-ups as					
3	Whether awarded through ICB/DCB/Departmentally/ Deposit					
4	No. of bids received					
5	Date of Award					
6	Date of Start of work					
7	Date of Completion of Work/ Expected date of completion of					
8	Value of Award <sup>2</sup> in (Rs. Lakh)					
9	Firm or With Escalation in prices					
10	Actual capital expenditure till the completion or up to COD whichever is earlier (Rs. Lakh)					
11	Taxes & Duties and IEDC (Rs. Lakh)					
12	IDC, FC, FERV & Hedging cost (Rs. Lakh)					
13	Sub-total (10+11+12) (Rs. Lakh)					

**Note:**

<sup>1</sup> If there is any package, which need to be shown in Indian Rupee and foreign currency(ies), the same should be shown separately along with the currency, the exchange rate and the date

(Petitioner)

PART-II  
FORM HPS-5Ei

In case there is cost over run

Name of the Petitioner

Name of the Generating Station

S.No.	Break Down	Original Cost (Rs. Lakh) as approved by the Board of Members		Actual/ Estimated Cost and incurred/ to be incurred (Rs. Lakh)		Difference	Reasons for Variation (Please submit supporting computations and documents wherever applicable)	Increase in soft cost due to increase in hard cost
		Total Cost		Total Cost				
1	Cost of Land & Site Development							
1.1	Land*							
1.2	Rehabilitation & Resettlement (R&R)							
1.3	Preliminary Investigation & Site Development							
2	Plant & Equipment							
2.1	Steam Generator Island							
2.2	Turbine Generator Island							
2.3	BOP Mechanical							
2.3.1	Fuel Handling & Storage System							
2.3.2	External Water Supply 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							
2.4	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				
	<b>Total BOP Electrical</b>				
2.5	Control & Instrumentation (C&I) Package				
	<b>Total Plant &amp; Equipment excluding taxes &amp; Duties</b>				
3	<b>Initial Spares</b>				
4	<b>Civil Works</b>				
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				
	<b>Total Civil Works</b>				
5	<b>Construction &amp; Pre-Commissioning Expenses</b>				
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				
	<b>Total Construction &amp; Pre-Commissioning Expenses</b>				
6	<b>Overheads</b>				
6.1	Establishment				
6.2	Design & Engineering				
6.3	Audit & Accounts				
6.4	Contingency				
	<b>Total Overheads</b>				
7	Capital cost excluding IDC & FC				
8	IDC, FC, FERV & Hedging Cost				
8.1	Interest During Construction (IDC)				
8.2	Financing Charges (FC)				
8.3	Foreign Exchange Rate Variation (FERV)				
8.4	Hedging Cost				
	<b>Total of IDC, FC, FERV &amp; Hedging Cost</b>				
9	Capital Cost including IDC, FC, FERV & Hedging Cost				

\*Submit details of Freehold and Lease hold land

Note: Impact on account of each reason for cost overrun should be quantified and substantiated with necessary documents and supporting workings

(Petitioner)

**PART-II**  
**FORM HPS-5Eii**

In case there is time over run

Name of the Petitioner

Name of the Generating Station

S. No.	Description of Activity/ Works/ Service	Original Schedule (As per Planning)		Actual Schedule (As per Actual)		Time Over-run Days	Reasons for delay	Other Activity effect (Mention Sr. No. of activity affected)
		Start Date	Completion Date	Actual Start Date	Actual Completion Date			
1								
2								
3								
4								
5								
6								
7								
8								
9								
.....	.....							

1. Delay on account of each reason in case of time over run should be quantified and substantiated with necessary documents and supporting workings.
2. Indicates the activities on critical path

(Petitioner)

**PART-II**  
**FORM HPS-5F**

In case there is claim of additional RoE

Name of the Petitioner

Name of the Generating Station

Project	Completion Time as per Investment approval				Actual Completion time				Qualifying time schedule (As per regulation) Months
	Start Date	Schedule d COD (Date)	Months	Installed Capacity	Start Date	Actual COD (Date)	Actual Completion time in Months	Tested Capacity	
Unit 1									
Unit 2									
Unit 3									
Unit 4									
.....									
.....									

Note: Necessary documentary evidence in support of actual completion time to be submitted in accordance with Regulations

(Petitioner)

**PART-II  
FORM HPS-6**

**Financial Package upto COD**

**Name of the Petitioner**

**Name of the Generating Station**

**Project Cost as on COD<sup>1</sup>**

**Date of Commercial Operation of the Station<sup>2</sup>**

1	Financial Package as Approved		Financial Package as on COD		As Admitted on COD	
	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						

<sup>1</sup> Say Rs. 80 Cr. + US \$ 200m or Rs.1320 Cr including US \$200m at an exchange rate of US \$=Rs.62/-

<sup>2</sup> Date of Commercial Operation means Commercial Operation of the last unit

<sup>3</sup> For example : US \$ 200m etc.

**(Petitioner)**



**PART-II**  
**FORM HPS-7**

**Details of Project Specific Loans**

**Name of the Petitioner**

**Name of the Generating Station**

Particulars	Package1	Package2	Package3	Package4	Package5	Package6
1	2	3	4	5	6	7
Source of Loan <sup>1</sup>						
Currency <sup>2</sup>						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto 31.03.2019/COD <sup>3,4,5,13,15</sup>						
Interest Type <sup>6</sup>						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest <sup>7</sup>						
Margin, if Floating Interest <sup>8</sup>						
Are there any Caps/Floor <sup>9</sup>	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
If above is yes, specify caps/floor						
Moratorium Period <sup>10</sup>						
Moratorium effective from						
Repayment Period <sup>11</sup>						
Repayment effective from						
Repayment Frequency <sup>12</sup>						
Repayment Instalment <sup>13,14</sup>						
Base Exchange Rate <sup>16</sup>						
Are foreign currency loan hedged?						
If above is yes, specify details <sup>17</sup>						

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

<sup>2</sup> Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.

<sup>3</sup> Details are to be submitted as on 31.03.2019 for existing assets and as on COD for the remaining assets.

<sup>4</sup> Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.

<sup>5</sup> If the Tariff in the petition is claimed separately for various units, details in the Form is to be given separately for all the units in the same form.

<sup>6</sup> Interest type means whether the interest is fixed or floating.

<sup>7</sup> Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Documentary evidence for applicable base rate on different dates from the date of drawl may also be enclosed.

<sup>8</sup> Margin means the points over and above the floating rate.

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

<sup>10</sup> Moratorium period refers to the period during which loan servicing liability is not required.

<sup>11</sup> Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

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

<sup>13</sup> Where there is more than one drawl/repayment for a loan, the date & amount of each drawl/repayment may also be given separately

<sup>14</sup> If the repayment instalment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.

<sup>15</sup> In case of Foreign loan, date of each drawl & repayment along with exchange rate at that date may be given with documentary evidence.

<sup>16</sup> Base exchange rate means the exchange rate prevailing as on 31.03.2019 for existing assets and as on COD for the remaining assets.

<sup>17</sup> In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.

<sup>18</sup> In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

<sup>19</sup> At the time of trueing up rate of interest with relevant reset date (if any) to be furnished separately.

<sup>20</sup> At the time of trueing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing etc.

<sup>21</sup> Call or put option, if any exercised by the generating company for refinancing of loan.

<sup>22</sup> Copy of loan agreement

(Petitioner)

PART-II  
FORM HPS-8Details of Allocation of corporate loans to various projects

Name of the Petitioner \_\_\_\_\_

Name of the Generating Station \_\_\_\_\_

(Amount in \_\_\_\_\_)

Particulars	Package1	Package2	Package3	Package4	Package5	Remarks
1	2	3	4	5	6	7
Source of Loan <sup>1</sup>						
Currency <sup>2</sup>						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto 31.03.2019/COD <sup>3,4,5,13,15</sup>						
Interest Type <sup>6</sup>						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest <sup>7</sup>						
Margin, if Floating Interest <sup>8</sup>						
Are there any Caps/Floor <sup>9</sup>	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	
If above is yes, specify caps/floor						
Moratorium Period <sup>10</sup>						
Moratorium effective from						
Repayment Period <sup>11</sup>						
Repayment effective from						
Repayment Frequency <sup>12</sup>						
Repayment Installment <sup>13,14</sup>						
Base Exchange Rate <sup>16</sup>						
Are foreign currency loan hedged?						
If above is yes, specify details <sup>17</sup>						
	Distribution of loan packages to various projects					
Name of the Projects						Total
Project 1						
Project 2						
Project 3 and so on						

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

<sup>2</sup> Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.

<sup>3</sup> Details are to be submitted as on 31.03.2019 for existing assets and as on COD for the remaining assets.

<sup>4</sup> Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.

<sup>5</sup> If the Tariff in the petition is claimed separately for various units, details in the Form is to be given separately for all the units in the same form.

<sup>6</sup> Interest type means whether the interest is fixed or floating.

<sup>7</sup> Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Documentary evidence for applicable base rate on different dates from the date of drawal may also be enclosed.

<sup>8</sup> Margin means the points over and above the floating rate.

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

<sup>10</sup> Moratorium period refers to the period during which loan servicing liability is not required.

<sup>11</sup> Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

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

<sup>13</sup> Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayment may also be given separately

<sup>14</sup> If the repayment installment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.

<sup>15</sup> In case of Foreign loan, date of each drawal & repayment along with exchange rate at that date may be given with documentary evidence.

<sup>16</sup> Base exchange rate means the exchange rate prevailing as on 31.03.2019 for existing assets and as on COD for the remaining assets.

<sup>17</sup> In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.

<sup>18</sup> In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

<sup>19</sup> At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.

<sup>20</sup> At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges

<sup>21</sup> Call or put option, if any exercised by the generating company for refinancing of loan.

<sup>22</sup> Copy of loan agreement

(Petitioner)

PART-II  
FORM HPS-9AYear wise Statement of Additional Capitalization after CODName of the Petitioner  
Name of the Generating Station

COD for Financial Year

S. No	Head of Work/Equipment	ACE Claimed (Actual/ Projected)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis	Un-discharged Liability included in Col. 3	Cash basis	IDC included in Col. 3			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)

1. In case the project has been completed and cost has already been admitted under any tariff notification(s) in the past, fill column 10 giving the cost as admitted for the purpose of tariff notification already issued by (Name of the authority) (Enclose 2).
2. The above information needs to be furnished separately for each year/ period of tariff period 2016-19
3. In case of de-capitalization of assets separate details to be furnished at Column 1, 2, 3 and 4. Further, the original book value and year of capitalization of such asset to be furnished at Column 8. Where de-caps are on estimated basis the same to 4.
4. Where any asset is rendered unserviceable the same shall be treated as de-capitalized during that year and original value of such asset to be shown at Col. 3. And impaired value if any, year of its capitalization to be mentioned at Column 8.
5. Justification against each asset of capitalization should be specific to regulations under which claim has been made and the necessity of capitalization of that particular asset.

**Note:**

1. Fill the form in chronological order year wise along with detailed justification clearly bringing out the necessity and the benefits accruing to the beneficiaries
2. In case initial spares are purchased along with any equipment, then the cost of such spares should be indicated separately. Eg. Rotor - 50 Crs. Initial Spares - 5 Crs.

(Petitioner)

PART-II  
FORM HPS-9BStatement of Additional Capitalization during fag end of the ProjectName of the Petitioner  
Name of the Generating Station  
COD

Sr. No.	Year	Work/Equipment added during last five years of useful life of each Unit/Station	Amount capitalized/ Proposed to be capitalized (Rs. Lakh)	Justification for capitalization proposed	Impact of life extension
1	2	3	4	5	6
1					
2					
3					
4					
5					

**Note:**

1. Cost Benefit analysis for capital additions done should be submitted along with petition for approval of such schemes
2. Justification for additional capital expenditure claim for each asset should be relevant to regulation under which claim and the necessity of capitalization of the asset.

(Petitioner)

PART-II  
FORM HPS-9BIDetails of Assets De-Capitalized during the periodName of the Petitioner  
Name of the Generating Station  
Region

State

District

Sr. No.	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalized	Year put to use	Depreciation recovered till date of de-capitalization
1	2	3	4	5	6
1					
2					
3					
4					
5					

**Note:** Year wise detail need to be submitted.

(Petitioner)

**PART-II  
FORM HPS-9C**

**Statement showing reconciliation of ACE claimed with the capital additions as per books**

Name of the Petitioner  
Name of the Generating Station  
COD

Sr. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	Closing Gross Block					
	Less: Opening Gross Block					
	<b>Total Additions as per books</b>					
	Less: Additions pertaining to other Stages (Give Stage wise breakup)					
	<b>Net Additions pertaining to instant project/ Unit/ Stage</b>					
	Less: Exclusions (items not allowable/ not claimed)					
	<b>Net Additional Capital Expenditure Claimed</b>					

**Note:** Reason for exclusion of any expenditure shall be given in Clear terms  
(Petitioner)

PART-II  
FORM HPS-9D**Statement showing items/ assets/ works claimed under Exclusions**

Name of the Petitioner  
Name of the Generating Station  
COD

Sr. No.	Head of Work/ Equipment	ACE Claimed (Actual/ Projected)				Justification
		Accrual basis	Un-discharged Liability included in Col. 3	Cash basis	IDC included in Col. 3	
1	2	3	4	5	6	7

**Note:**

1. Exclusion claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed etc.
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be motioned. It is to be certified that exclusion

(Petitioner)

PART-II  
FORM HPS-9E**Statement of Capital Cost**  
(To be given for relevant dates and year wise)

(Amount in Rs. Lakh)

Name of the Petitioner  
Name of the Generating Station

S. No	Particulars	As on relevant date
A	a) <b>Open Gross Block Amount as per books</b>	
	b) Amount of capital liabilities in A(a) above	
	c) Amount of IDC in A(a) above	
	d) Amount of FC in A(a) above	
	e) Amount of FERV in A(a) above	
	f) Amount of Hedging Cost in A(a) above	
	g) Amount of IEDC in A(a) above	
B	a) <b>Addition in Gross Block Amount during the period (Direct purchase)</b>	
	b) Amount of capital liabilities in B(a) above	
	c) Amount of IDC in B(a) above	
	d) Amount of FC in B(a) above	
	e) Amount of FERV in B(a) above	
	f) Amount of Hedging Cost in B(a) above	
	g) Amount of IEDC in B(a) above	
C	a) <b>Addition in Gross Block Amount during the period (Transferred from</b>	
	b) Amount of capital liabilities in C(a) above	
	c) Amount of IDC in C(a) above	
	d) Amount of FC in C(a) above	
	e) Amount of FERV in C(a) above	
	f) Amount of Hedging Cost in C(a) above	
	g) Amount of IEDC in C(a) above	
D	a) <b>Deletion in Gross Block Amount during the period</b>	
	b) Amount of capital liabilities in D(a) above	
	c) Amount of IDC in D(a) above	
	d) Amount of FC in D(a) above	
	e) Amount of FERV in D(a) above	
	f) Amount of Hedging Cost in D(a) above	
	g) Amount of IEDC in D(a) above	
E	a) <b>Closing Gross Block Amount as per books</b>	
	b) Amount of capital liabilities in E(a) above	
	c) Amount of IDC in E(a) above	
	d) Amount of FC in E(a) above	
	e) Amount of FERV in E(a) above	
	f) Amount of Hedging Cost in E(a) above	
	g) Amount of IEDC in E(a) above	

**Note:**

1. Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

PART-II  
FORM HPS-9F**Statement of Capital Works in Progress**  
(To be given for relevant dates and year wise)

(Amount in Rs. Lakh)

Name of the Petitioner  
Name of the Generating Station

S. No	Particulars	As on relevant date
A	a) Opening CWIP as per books	
	b) Amount of capital liabilities in A(a) above	
	c) Amount of IDC in A(a) above	
	d) Amount of FC in A(a) above	
	e) Amount of FERV in A(a) above	
	f) Amount of Hedging Cost in A(a) above	
	g) Amount of IEDC in A(a) above	
B	a) Addition in CWIP during the period	
	b) Amount of capital liabilities in B(a) above	
	c) Amount of IDC in B(a) above	
	d) Amount of FC in B(a) above	
	e) Amount of FERV in B(a) above	
	f) Amount of Hedging Cost in B(a) above	
	g) Amount of IEDC in B(a) above	
C	a) Transferred to Gross Block Amount during the period	
	b) Amount of capital liabilities in C(a) above	
	c) Amount of IDC in C(a) above	
	d) Amount of FC in C(a) above	
	e) Amount of FERV in C(a) above	
	f) Amount of Hedging Cost in C(a) above	
	g) Amount of IEDC in C(a) above	
D	a) Deletion in CWIP during the period	
	b) Amount of capital liabilities in D(a) above	
	c) Amount of IDC in D(a) above	
	d) Amount of FC in D(a) above	
	e) Amount of FERV in D(a) above	
	f) Amount of Hedging Cost in D(a) above	
	g) Amount of IEDC in D(a) above	
E	a) Closing CWIP as per books	
	b) Amount of capital liabilities in E(a) above	
	c) Amount of IDC in E(a) above	
	d) Amount of FC in E(a) above	
	e) Amount of FERV in E(a) above	
	f) Amount of Hedging Cost in E(a) above	
	g) Amount of IEDC in E(a) above	

**Note:**

1. Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

PART-II  
FORM HPS-10**Financing of Additional Capitalization**Name of the Petitioner  
Name of the Generating Station  
Date of Commercial Operation

(Amount in Rs. lakhs)

Financial Year (Starting from COD) <sup>1</sup>	Actual			Admitted		
	Year1	Year2	Year 3 & so on	Year1	Year2	Year 3 & so on
1	2	3	4	5	6	7
Amount capitalized in Work/Equipment						
Financing Details						
Loan-1						
Loan-2						
Loan-3 and so on						
Total Loan <sup>2</sup>						
Equity						
Internal Resources						
Others (Pl. Specify)						
Total						

**Note:**<sup>1</sup> Year 1 refers to Financial Year of COD and Year 2, Year 3 etc. are the subsequent financial years respectively.<sup>2</sup> Loan details for meeting the additional capitalization requirement should be given as per FORM-7 or 8 whichever is

Petitioner

PART-II  
FORM HPS-11

Calculation of Depreciation

Name of the Petitioner  
Name of the Generating Station

Sl. no.	Name of the Assets <sup>1</sup>	Gross Block as on 31.03.2019 or as on COD, whichever is later and subsequently for each year thereafter up to 31.03.24	Depreciation Rates as per MPERC's Depreciation Rate Schedule	Depreciation Amount for each year up to 31.03.24
	1	2	3	4 = Col.2 X Col.3
1	Land			
2	Building			
3	and so on			
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
	<b>TOTAL</b>			
	<b>Weighted Average Rate of Depreciation (%)</b>			

\* Provide details of Freehold Land, Leasehold Land and Land under reservoir separately

<sup>1</sup> Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notification.

(Petitioner)

**PART-II  
FORM HPS-12**

**Statement of Depreciation**

**Name of the Petitioner**  
**Name of the Generating Station**

Sl. No	Particulars	(Amounting Rs. Lakh)							
		Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	4	5	6	7	8		
	Opening Capital Cost								
	Closing Capital Cost								
	<b>Average Capital Cost</b>								
	Freehold land*								
	Rate of depreciation								
	Depreciable value								
	Balance useful life at the beginning of the period								
	Remaining depreciable value								
	Depreciation (for the period)								
	<b>Depreciation (annualized)</b>								
	Cumulative depreciation at the end of the period								
	Less: Cumulative depreciation adjustment on account								
	Less: Cumulative depreciation adjustment on account of de-capitalization								
	Net Cumulative depreciation at the end of the period								

1. In case of details of FERV and AAD, give information for the applicable period

**(Petitioner)**



**PART-II**  
**FORM HPS-13**

**Calculation of Weighted Average Rate of Interest on Actual Loans<sup>1</sup>**

**Name of the Petitioner**

**Name of the Generating Station**

(Amount in Rs. Lakhs)

Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
2	3	4	5	6	7	8
<b>Loan-1</b>						
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 on annual basis						
Interest on loan						
<b>Loan-2</b>						
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 on annual basis						
Interest on loan						
<b>Loan-3 and so on</b>						
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 on annual basis						
Interest on loan						
<b>Total Loan</b>						
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						
<b>Weighted average Rate of Interest on Loans</b>						

**Note:**

1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculation in Original currency is also to be furnished separately in the same form.

(Petitioner)

**PART - II**  
**FORM HPS - 13A**

Calculation of Interest on Normative Loan

Name of the Petitioner

Name of the Generation Station

Sl. No.	Particulars	(Amount in Rs. lakhs)							
		Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	4	5	6	7	8		
	<b>Gross Normative loan - Opening</b>								
	Cumulative repayment of Normative Loan up to previous year								
	<b>Net Normative loan - Opening</b>								
	Add: Increase due to addition during the year/period								
	Less: Decrease due to de-capitalization during the year/period								
	Less: Decrease due to reversal during the year/period								
	Add: Increase due to discharge during the year/period								
	<b>Net Normative loan - Closing</b>								
	<b>Average Normative Loan</b>								
	Weighted average Rate of Interest								
	<b>Interest on loan</b>								

(Petitioner)

**PART-II**  
**FORM HPS-13B**

**Calculation of Interest on Working Capital**

**Name of the Petitioner**

**Name of the Generating Station**

(Amount in Rs. lacs)

Sl. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1	O&M Expenses						
2	Maintenance Spares						
3	Receivables						
4	Total Working Capital						
5	Rate of Interest						
6	<b>Interest on Working Capital</b>						

(Petitioner)

**PART-II  
FORM HPS-13C**

**Other Income as on actual/ anticipated COD**

**Name of the Petitioner**  
**Name of the Generating Station**

Sl. No.	Parameters	(Amount in Rs. lacs)							
		Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24		
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>		
1	Interest on Loans and advance								
2	Interest received on deposits								
3	Income from Investment								
4	Income from sale of scrap								
5	Rebate for timely payment								
6	Surcharge on late payment from beneficiaries								
7	Rent from residential building								
8	Misc. receipts (Please specify details)								
...	...								
...	... (add)								

(Petitioner)

**PART-II**  
**FORM HPS-13D**

**Incidental Expenditure during Construction**

**Name of the Petitioner**

**Name of the Generating Station**

(Amount in Rs. lacs)

Sl. No	Parameters	Upto Scheduled COD	Up to actual/ anticipated COD
A	Expenses:		
1	Employees' Benefits Expenses		
2	Finance Costs		
3	Water Charges		
4	Communication Expenses		
5	Power Charges		
6	Other Office and Administrative Expenses		
7	Others (Please Specify Details)		
8	Other pre-Operating Expenses		
	.....		
	.....		
B	Total Expenses		
	Less: Income from sale of tenders		
	Less: Income from guest house		
	Less: Income recovered from Contractors		
	Less: Interest on Deposits		
	...		

(Petitioner)

PART-II  
FORM HPS-14**Draw Down Schedule for Calculation of IDC & Financing Charges**

Name of the Petitioner

Name of the Power Station

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 (Rs. Lakh)	Quantum In Foreign currency	Exchange Rate on draw down date	Amount In Indian Rupee (Rs. Lakh)	Quantum In Foreign currency	Exchange Rate on draw down date	Amount In Indian Rupee (Rs. Lakh)
1	<b>Loans</b>									
1.1	<b>Foreign Loans</b>									
1.1.1	<b>Foreign Loan<sup>1</sup></b>									
	Draw down Amount									
	IDC									
	Financing charges									
	Foreign Exchange Rate Variation									
	Hedging Cost									
1.1.2	<b>Foreign Loan<sup>2</sup></b>									
	Draw down Amount									
	IDC									
	Financing charges									
	Foreign Exchange Rate Variation									
	Hedging Cost									
1.1.3	<b>Foreign Loan<sup>3</sup></b>									
	Draw down Amount									
	IDC									
	Financing charges									
	Foreign Exchange Rate Variation									
	Hedging Cost									
1.1.4	--									
	--									
	--									
1.1	<b>Total Foreign Loans</b>									
	Draw down Amount									
	IDC									
	Financing charges									
	Foreign Exchange Rate Variation									
	Hedging Cost									
1.2	<b>Indian Loans</b>									
1.2.1	<b>Indian Loan<sup>1</sup></b>									
	Draw down Amount	--	--	--	--	--	--	--	--	--
	IDC	--	--	--	--	--	--	--	--	--
	Financing charges	--	--	--	--	--	--	--	--	--
1.2.2	<b>Indian Loan<sup>2</sup></b>									
	Draw down Amount	--	--	--	--	--	--	--	--	--
	IDC	--	--	--	--	--	--	--	--	--
	Financing charges	--	--	--	--	--	--	--	--	--
1.2.3	<b>Indian Loan<sup>3</sup></b>									
	Draw down Amount	--	--	--	--	--	--	--	--	--
	IDC	--	--	--	--	--	--	--	--	--
	Financing charges	--	--	--	--	--	--	--	--	--
1.2.4	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
1.2	<b>Total Indian Loans</b>									
	Draw down Amount	--	--	--	--	--	--	--	--	--
	IDC	--	--	--	--	--	--	--	--	--
	Financing charges	--	--	--	--	--	--	--	--	--
1	<b>Total of Loans drawn</b>									
	IDC									
	Financing charges									
	Foreign Exchange Rate Variation									
	Hedging Cost									
2	<b>Equity</b>									
2.1	<b>Foreign equity drawn</b>									
2.2	<b>Indian equity drawn</b>	--	--	--	--	--	--	--	--	--
	<b>Total equity deployed</b>									

Note:

1. Drawal of debt and equity shall be on paripassu basis quarter wise to meet the commissioning schedule. Drawal of higher equity in the beginning is
2. Applicable interest rates including reset dates used for above computation may be furnished separately
3. In case of multi unit project details of capitalization ratio used to be furnished.
4. Detailed calculation of IDC (Actual drawal and repayment dates and amount, rates of interest, etc.) should be furnished.

(Petitioner)

PART-II  
FORM HPS-14A**Actual Cash Expenditure**Name of the Petitioner  
Name of the Power Station

(Amount in Rs. Lakh)

	Quarter-I	Quarter-II	Quarter-III	Quarter-n (COD)
Payment to contractors/ suppliers				
% of fund deployment				

Note: If there is variation between payment and fund deployment justification need to be furnished.

(Petitioner)

PART-II  
FORM HPS-15A

Design energy and peaking capability (month wise)- ROR with Pondage/Storage type new stations			
Name of the Petitioner			
Name of the Generating Station			
Generating Company			
Name of the Hydro-electric Generating Station			
Installed Capacity : No of units X .MW=			
Month		Design Energy* (MUs)	Designed Peaking Capability (MW)*
April	I		
	II		
	III		
May	I		
	II		
	III		
June	I		
	II		
	III		
July	I		
	II		
	III		
August	I		
	II		
	III		
September	I		
	II		
	III		
October	I		
	II		
	III		
November	I		
	II		
	III		
December	I		
	II		
	III		
January	I		
	II		
	III		
February	I		
	II		
	III		
March	I		
	II		
	III		
<b>Total</b>			
*As per DPR/TEC of CEA dated.....			
<b>Note :</b>			
Specify the number of peaking hours for which station has been designed.			

(Petitioner)

PART-II  
FORM HPS -15B

Design energy and MW Continuous (month wise) - ROR type stations			
Name of the Petitioner			
Name of the Generating Station			
Generating Company			
Name of the Hydro-electric Generating Station			
Installed Capacity : No of units X .MW=			
Month		Design Energy* (MUs)	MW continuous*
April	I		
	II		
	III		
May	I		
	II		
	III		
June	I		
	II		
	III		
July	I		
	II		
	III		
August	I		
	II		
	III		
September	I		
	II		
	III		
October	I		
	II		
	III		
November	I		
	II		
	III		
December	I		
	II		
	III		
January	I		
	II		
	III		
February	I		
	II		
	III		
March	I		
	II		
	III		
<b>Total</b>			
*As per DPR/TEC of CEA dated.....			

(Petitioner)



**PART-II  
FORM HPS-16**

**Liability Flow Statement**

Name of the Petitioner		Asset/Work	Year of actual capitalization	Original Liability	Liability as on 31.03.2019	Discharges (Year wise)	Reversal (Year wise)
Party	Name of the Generating Station						

**(Petitioner)**

**PART-II  
FORM HPS-17**

**Statement Operation and Maintenance Expenses**

**Name of the Petitioner**

**Name of the Generating Station**

In case of hydro generating station declared under commercial operation on or after 1.4.2019

Total capital expenditure up to cut-off date (a)	
R&R Expenditure (b)	
IDC and IEDC (c)	
Capital cost considered for O&M expenses (d) = (a) - (b) - (c)	
First year annualize O&M expenses @ 3.50% of above (e) = 3.50% of (d)	
O&M expenses for next year @ 4.77% of above (f) = 4.77% of (e)	
Additional O&M expenses due to 7th pay Commission Wage Revision	
Additional O&M Expenses due to Minimum Wage Revision	
Additional O&M expenses due to Goods and Services Tax (GST)	

**Note:**

Additional O&M expenses with supporting documents and computations to be provided for respective years of tariff period

(Petitioner)

**PART-II  
FORM HPS-18**

**Details of Statutory Charges (if applicable)**

**Name of the Petitioner**

**Name of the Generating Station**

Particular	Unit Rate	No. of Units	Amount Claimed
1	2	3	4
Electricity Duty			
Water Charges			
*****			

(Petitioner)

**PART-II**  
**FORM HPS-19**

**Summary of issues involved in the petition**

**Name of the Petitioner**

**Name of the Generating Station**

<b>1</b>	<b>Petitioner</b>		
<b>2</b>	<b>Subject</b>		
<b>3</b>	<b>Prayer</b>		
	i		
	ii		
	ii		
<b>4</b>	<b>Respondents</b>		
	a		
	b		
	c		
<b>5</b>	<b>Project Scope</b>		
		IC	
		DE	
		FEHS	
		AUX	
		NAPAF	
	<b>Cost</b>	Sanction Cost	
		Latest RCE	
	<b>Commissioning</b>	Unit/Station COD	
	<b>Claim</b>	AFC	
		Capital Cost	
		Initial Spares	
		NAPAF	
		Design Energy	
		Any Specific	

Petitioner