Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019

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Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019Published vide Notification No. L-1/236/2018/CERC dated 7.3.2019Last Updated 21st June, 2019 [act 3397]No.L-1/236/2018/CERC. - In exercise of powers conferred under section 178 of the Electricity Act, 2003 (36 of 2003) read with Section 61 thereof and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations, namely:Chapter - 1 Preliminary

1. Short title and commencement.

(1)These regulations may be called the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019.(2)These regulations shall come into force on 1.4.2019, and unless reviewed earlier or extended by the Commission, shall remain in force for a period of five years from 1.4.2019 to 31.3.2024:Provided that where a generating station or unit thereof and transmission system or an element 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 and transmission system or an element thereof for the period ending 31.3.2019 shall be determined in accordance with the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 as amended from time to time.

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2. Scope and extent of application.

(1)These regulations shall apply in all cases where tariff for a generating station or a unit thereof and a transmission system or an element thereof is required to be determined by the Commission under section 62 of the Act read with section 79 thereof:Provided that any generating station for which agreement(s) have been executed for supply of electricity to the beneficiaries on or before 5.1.2011 and the financial closure for the said generating station has not been achieved by 31.3.2019, such projects shall not be eligible for determination of tariff under these regulations unless fresh consent of the beneficiaries is obtained and furnished.(2)These regulations shall not apply to the following cases:-(a)Generating stations or transmission systems 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 Act;(b)Generating stations based on renewable sources of energy whose tariff is determined in accordance with the Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2017.

3. Definitions.

- 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 or the transmission licensee, as the case may be, in accordance with the provisions of these regulations;(3)"Additional Capitalisation" means the additional capital expenditure admitted by the Commission after prudence 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 and integrated coal mine; 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 or a transmission licensee, as the case may be, 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 clauses (a) or (b) of sub-section 1 of section 79 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 inter-State generating station by Government of India.(9)"Capital Cost" means the capital cost as determined in accordance with Regulation 19 of these regulations;(10)"Change in Law" means occurrence of any of the following events:(a)enactment, bringing into effect or promulgation of any new Indian law; or(b)adoption, amendment, modification, repeal or re-enactment of any existing Indian law; or(c)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(d)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(e)coming into force or change in any bilateral or multilateral agreement or treaty between the Government of India and any other Sovereign Government having implication for the generating station or the transmission system regulated under these regulations.(11)"Commission" means the Central Electricity Regulatory Commission referred to in sub-section (1) of section 76 of the Act;(12)"Communication System" means communication system as defined in sub-clause (h) of clause (i) of Regulation 2 of the Central Electricity Regulatory Commission (Communication System for inter-State transmission of electricity) Regulations, 2017;(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 day of the calendar month after thirty six months from the date of commercial operation of the project;(15)"Date of Commercial Operation" or "COD" shall have the same meaning as defined in the Grid Code as amended from time to time;(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 the Grid Code or whole of the day, duly taking into account the availability of fuel or water, and subject to further qualification in these regulations;(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 or transmission system including communication system or element 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)"Element" means an asset which has been distinctively defined under the scope of the transmission project in the Investment Approval such as transmission lines including line bays and line reactors, substations, bays, compensation device, Interconnecting Transformers;(21)"Existing Project" means a project which has been declared under commercial

operation on a date prior to 1.4.2019;(22)"Expansion project" shall include any addition of new capacity to the existing generating station or augmentation of the transmission system, as the case may be;(23)"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;(24)"Extended Life" means the life of a generating station or unit thereof or transmission system or element thereof beyond the period of useful life, as may be determined by the Commission on case to case basis;(25)"Force Majeure" for the purpose of these regulations means the events or circumstances or combination of events or circumstances including those stated below which partly or fully prevents the generating company or transmission licensee 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 or transmission licensee and could not have been avoided, had the generating company or transmission licensee 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;(26)"Fuel Supply Agreement" means the agreement executed between the generating company and the fuel supplier for generation and supply of electricity to the beneficiaries; (27) "Generating Station" shall have the same meaning as defined under sub-Section 30 of Section 2 of the Act and for the purpose of these regulations shall also include stages or blocks or units of a generating station; (28) "Generating Unit" or "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;(29)"Grid Code" means the Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2010;(30) "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 solid fuel or one litre of liquid fuel or one standard cubic meter of gaseous fuel, as the case may be;(31)"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;(32)"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;(33)"Implementation Agreement" means any agreement or covenant entered into (i) between the transmission licensee and the generating company or (ii) between transmission licensee and developer of the interconnected transmission system for the execution of generation and transmission projects in a coordinated manner, laying down the project implementation schedule and mechanism for monitoring the progress of the projects;(34)"Indian Governmental Instrumentality" means the Government of India, Governments 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;(35)"Infirm Power" means electricity injected into the grid prior to the date of commercial operation of a unit of the generating station in accordance with Central Electricity Regulatory Commission (Grant of Connectivity, Longterm Access and Medium-term Open Access in inter-State Transmission and related matters) Regulations, 2009;(36)"Input Price" means the price of coal or lignite sourced from the integrated mines at which the coal or lignite is transferred to the generating station for the purpose of computing the energy charges for generation and supply of electricity to the beneficiaries and determined in accordance with Chapter 9 of these regulations;(37)"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; (38) "Integrated Mine" means the captive mine (allocated for use in one or more identified generating station) or basket mine (allocated to a generating company for use in any of its generating stations) or both being developed by the generating company for supply of coal or lignite to one or more specified end use generating stations for generation and sale of electricity to the beneficiaries; (39) "Inter-State Generating Station" or "ISGS" has the meaning as assigned in the Grid Code; (40) "Investment Approval" means approval by the Board of the generating company or the transmission licensee or Cabinet Committee on Economic Affairs (CCEA) 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 or the transmission licensee where the Board is competent to accord such approval and from the date of sanction letter of competent authority in other cases;(41)"Landed Fuel Cost" means the total cost of coal (including biomass in case of co-firing), lignite or the gas delivered at the unloading point of the generating station and shall include the base price or input price, washery charges wherever applicable, transportation cost (overseas or inland or both) and handling cost, charges for third party sampling and applicable statutory charges; (42) "Long-Term Customer" shall have the same meaning as "Long Term Customer" as defined in the Central Electricity Regulatory Commission (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State Transmission and related matters) Regulations, 2009;(43)"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;(44)"New Project" means the generating station or unit thereof and the transmission system or element thereof achieving its commercial operation on or after 1.4.2019;(45)"Operation and Maintenance Expenses" or "O&M expenses" means the

expenditure incurred for operation and maintenance of the project, or part thereof, and includes the expenditure on manpower, maintenance, repairs and maintenance spares, consumables, insurance and overheads and fuel other than used for generation of electricity; (46) "Original Project Cost" means the capital expenditure incurred by the generating company or the transmission licensee, as the case may be, within the original scope of the project up to the cut-off date, and as admitted by the Commission; (47) "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; (48) "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: NPLF = 10000 x \(\subseteq \text{SGi} / \{ \text{N x} \) IC x (loo-AUXn)} %i=1Where,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 AUXn = Normative Auxiliary Energy Consumption as a percentage of gross energy generation;(49)"Procedure Regulations" means the Central Electricity Regulatory Commission (Procedure for making of application for determination of tariff, publication of the application and other related matters) Regulations, 2004;(50)"Project" means:(i)in case of thermal generating station, all components of the thermal generating station and includes integrated coal mine, biomass pellet handling system, pollution control system, effluent treatment plan, as may be required; (ii) in case of hydro generating station, all components of the hydro generating station and includes dam, intake water conductor system, power generating station, as apportioned to power generation; and iii) in case of transmission, all components of the transmission system including communication system;(51)"Prudence Check" means scrutiny of reasonableness of any cost or expenditure incurred or proposed to be incurred in accordance with these regulations by the generating company or the transmission licensee, as the case may be;(52)"Pumped Storage Hydro Generating Station" means a hydro generating station which generates power through energy stored in the form of water energy, pumped from a lower elevation reservoir to a higher elevation reservoir; (53) "Rated Voltage" means the manufacturer's design voltage at which the transmission system is designed to operate and includes such lower voltage at which any transmission line is charged or for the time being charged, in consultation with long-term customers; (54)"Revised Emission Standards" in respect of 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; (55) "Run-of-River Generating Station" means a hydro generating station which does not have upstream pondage; (56) "Run-of-River Generating Station with Pondage" means a hydro generating station with sufficient pondage for meeting the diurnal variation of power demand;(57)"Scheduled Commercial Operation Date or 'SCOD" shall mean the date(s) of commercial operation of a generating station or generating unit thereof or transmission system or element thereof and associated communication system as indicated in the Investment Approval or as agreed in power purchase agreement or transmission service agreement as the case may be, whichever is earlier;(58)"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;(59)"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; Note.

- For open cycle gas turbine generating station or a combined cycle generating station if the average frequency for any time-block, is below 49.52 Hz but not below 49.02 Hz and the scheduled generation is more than 98.5% of the declared capacity, the scheduled generation shall be deemed to have been reduced to 98.5% of the declared capacity, and if the average frequency for any time-block is below 49.02 Hz and the scheduled generation is more than 96.5% of the declared capacity, the scheduled generation shall be deemed to have been reduced to 96.5% of the declared capacity. In such an event of reduction of scheduled generation of gas turbine generating station, the corresponding drawl schedule of beneficiaries shall be corrected in proportion to their scheduled drawl with adjustment of transmission losses on post facto basis.(60)"Sharing Regulations" means Central Electricity Regulatory Commission (Sharing of Transmission Charges and Losses in inter-State Transmission System) Regulations, 2010;(61)"Small Gas Turbine Generating Station" means and includes open cycle gas turbine or combined cycle generating station with gas turbines in the capacity range of 50 MW or below; (62) "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;(63)"Statutory Charges" comprises taxes, cess, duties, royalties and other charges levied through Acts of the Parliament or State Legislatures or by Indian Government Instrumentality under relevant statutes; (64) "Storage Type Generating Station" means a hydro generating station associated with storage capacity to enable variation of generation of electricity according to demand;(65)"Thermal Generating Station" means a generating station or a unit thereof that generates electricity using fossil fuels such as coal, lignite, gas, liquid fuel or combination of these as its primary source of energy or co-firing of biomass with coal; (66) "Transmission Line" shall have the same meaning as defined in sub-section (72) of Section 2 of the Act;(67)"Transmission Service Agreement" means the agreement entered into between the transmission licensee and the Designated ISTS Customers in accordance with the Sharing Regulations and shall include the Bulk Power Transmission Agreement and Long Term Access Agreement; (68) "Transmission System" means a line or a group of lines with or without associated sub-station, equipment associated with transmission lines and sub-stations identified under the scheme as per the Investment Approval(s) and shall include associated communication system;(69)"Trial Operation" in relation to transmission system shall have the same meaning as specified in Clause (5) of Regulation 6.3A of Grid Code; (70) "Trial Run" in relation to generating station shall have the same meaning as specified in Clause (3) of Regulation 6.3A of Grid Code; (71) "Sub-Station" shall have the same meaning as defined in sub-section (69) of section 2 of the Act;(72)"Unloading Point" means the point within the premises of the coal or lignite based thermal generating station where the coal or lignite is unloaded from the rake or truck or any other mode of transport; (73) "Useful Life" in relation to a unit of a generating station, integrated mines, transmission system and communication system from the date of commercial operation shall mean the following:

(a) Coal/Lignite based thermal generatingstation	25 years
(b) Gas/Liquid fuel based thermal generatingstation	25 years
(c) AC and DC sub-station	25 years
(d) Gas Insulated Substation (GIS)	25 years
(e) Hydro generating station including pumpedstorage hydro generating stations	40 years

(f) Transmission line (including HVAC &HVDC)

35 years

(g) Communication system

15 years

Provided that the extension of life of the projects beyond the completion of their useful life shall be decided by the Commission on case to case basis;(74)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.

4. Interpretations.

- In these regulations, unless the context otherwise requires:(1)'Day' means a calendar day consisting of 24 hours period starting at 0000 hours;(2)'kCal' means a unit of heat energy contents in mineral, measured in one kilo calories or one thousand calories of heat produced at any instantaneous period;(3)'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;(4)'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;(5)'Year' means a financial year from 1st April to 31st March in case of an existing project, and from date of commercial operation to 31st March in case of a new project;(6)Reference to any Act, Rules and Regulations shall include amendment or consolidation or re-enactment thereof.Chapter - 2 Date of Commercial Operation

5. Date of Commercial Operation.

(1) The date of commercial operation of a generating station or unit thereof or a transmission system or element thereof and associated communication system shall be determined in accordance with the provisions of the Grid Code.(2)In case the transmission system or element thereof executed by a transmission licensee is ready for commercial operation but the interconnected generating station or the transmission system of other transmission licensee as per the agreed project implementation schedule is not ready for commercial operation, the transmission licensee may file petition before the Commission for approval of the date of commercial operation of such transmission system or element thereof: Provided that the transmission licensee seeking the approval of the date of commercial operation under this clause shall give prior notice of at least one month, to the generating company or the other transmission licensee and the long term customers of its transmission system, as the case may be, regarding the date of commercial operation:Provided further that the transmission licensee seeking the approval of the date of commercial operation of the transmission system under this clause shall be required to submit the following documents along with the petition:(a) Energisation certificate issued by the Regional Electrical Inspector under Central Electricity Authority;(b)Trial operation certificate issued by the concerned RLDC for charging element with or without electrical load;(c)Implementation Agreement, if any, executed by the parties;(d)Minutes of the coordination meetings or related correspondences regarding the monitoring of the progress of the generating station and transmission systems; (e) Notice issued by

the transmission licensee as per the first proviso under this clause and the response;(f)Certificate of the CEO or MD of the company regarding the completion of the transmission system including associated communication system in all respects.

6. Treatment of mismatch in date of commercial operation.

(1) In case of mismatch of the date of commercial operation of the generating station and the transmission system, the liability for the transmission charges shall be determined as under:(a)Where the generating station has not achieved the commercial operation as on the date of commercial operation of the associated transmission system (which is not before the SCOD of the generating station) and the Commission has approved the date of commercial operation of such transmission system in terms of clause (2) of the Regulation 5 of these regulations, the generating company shall be liable to pay the transmission charges of the associated transmission system in accordance with clause (5) of Regulation 14 of these regulations to the transmission licensee till the generating station or unit thereof achieves commercial operation:(b)Where the associated transmission system has not achieved the commercial operation as on the date of commercial operation of the concerned generating station or unit thereof (which is not before the SCOD of the transmission system), the transmission licensee shall make alternate arrangement for the evacuation from the generating station at its own cost, failing which, the transmission licensee shall be liable to pay the transmission charges to the generating company as determined by the Commission, in accordance with clause (5) of Regulation 14 of these regulations, till the transmission system achieves the commercial operation.(2)In case of mismatch of the date of commercial operation of the transmission system and the transmission system of other transmission licensee, the liability for the transmission charges shall be determined as under:(a)Where an interconnected transmission system of other transmission licensee has not achieved the commercial operation as on the date of commercial operation of the transmission system (which is not before the SCOD of the interconnected transmission system) and the Commission has approved the date of commercial operation of such transmission system in terms of clause (2) of Regulation 5 of these regulations, the other transmission licensee shall be liable to pay the transmission charges of the transmission system in accordance with clause (5) of Regulation 14 of these regulations to the transmission licensee till the interconnected transmission system achieves commercial operation:(b)Where the transmission system has not achieved the commercial operation as on the date of commercial operation of the interconnected transmission system of other transmission licensee (which is not before the SCOD of the transmission system), the transmission licensee shall be liable to pay the transmission charges of such interconnected transmission system to the other transmission licensee or as may be determined by the Commission, in accordance with clause (5) of Regulation 14 of these regulations, till the transmission system achieves the commercial operation.

7. Sale of Infirm Power.

- Supply of infirm power shall be accounted as deviation and shall be paid for from the regional deviation settlement fund accounts in accordance with the Central Electricity Regulatory Commission (Deviation Settlement Mechanism and Related matters) Regulations, 2014: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. Chapter - 3 Procedure for Tariff Determination

8. Tariff determination.

(1) Tariff in respect of a generating station may be determined for the whole of the generating station or unit thereof, and tariff in respect of a transmission system may be determined for the whole of the transmission system or element thereof or associated communication system:Provided that:(i)In case of commercial operation of all the units of a generating station or all elements of a transmission system prior to 1.4.2019, the generating company or the transmission licensee, as the case may be, shall file consolidated petition in respect of the entire generating station or transmission system for the purpose of determination of tariff for the period 1.4.2019 to 31.3.2024:(ii)In case of commercial operation of units of generating station or elements of the transmission system on or after 1.4.2019, the generating company or the transmission licensee shall file a consolidated petition, in accordance with the provisions of the Procedure Regulations, combining all the units of the generating station or all elements of the transmission system which are anticipated to achieve commercial operation during the next two months from the date of application:(iii)Tariff of the associated communication system forming part of transmission system which has achieved commercial operation prior to 1.4.2014 shall be as per the methodology approved by the Commission prior to 1.4.2014.(2)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.(3)In case of expansion of existing generating station, the tariff shall be determined for the expanded capacity 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, as determined by the Commission, shall be extended to the existing capacity. (4) 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) Energy charge component of tariff of the generating station sourcing coal or lignite from the integrated mine shall be determined based on the input price of coal or lignite, as the case may be, from such integrated mines: Provided that the generating company shall maintain the account of the integrated mine separately and submit the cost of integrated mine, in accordance with these regulations, duly certified by the Auditor.(6)Tariff of generating station using coal washery rejects developed by Central or State PSUs or Joint Venture between a Government Company and company other than 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.(7)In case of multi-purpose hydro schemes, 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.(8)If an existing transmission project is granted licence under section 14 of the Act read with clause (c) of Regulation 6 of the Central Electricity Regulatory Commission (Terms and Conditions of grant of Transmission Licence for inter-State Transmission of electricity and related matters) Regulations, 2009, the tariff of such project shall be applicable from the date of grant of transmission licence or from the date as indicated in the transmission licence, as the case may be. In such cases, the applicant shall file petition as per Annexure-I (Part III) to these regulations, clearly demarcating the assets which form part of the business of generation and transmission, the value of such assets, source of funding and other relevant details after adjusting the cumulative depreciation and loan repayment, duly certified by the Auditor.

9. Application for determination of tariff.

(1) The generating company or the transmission licensee may make an application for determination of tariff for new generating station or unit thereof or transmission system or element thereof in accordance with the Procedure Regulations within 60 days of the anticipated date of commercial operation: Provided that where the transmission system comprises various elements, the transmission licensee shall file an application for determination of tariff for a group of elements on incurring of expenditure of not less than 70% of the cost envisaged in the Investment Approval or Rs. 200 Crore, whichever is lower, as on the anticipated date of commercial operation: Provided further that the generating company or the transmission licensee, as the case may be, shall submit Auditor Certificate and in case of non-availability of Auditor Certificate, a Management Certificate duly signed by an authorised person, not below the level of Director of the company, indicating the capital cost incurred as on the date of commercial operation and the projected additional capital expenditure for respective years of the tariff period 2019-24:Provided also that where interim tariff of the generating station or unit thereof and the transmission system or element thereof including communication system has been determined based on Management Certificate, the generating company or the transmission licensee shall submit the Auditor Certificate not later than 60 days from date of granting interim tariff.(2)In case of an existing generating station or unit thereof, or transmission system or element thereof, the application shall be made by the generating company or the transmission licensee, as the case may be, by 31.10.2019, based on admitted capital cost including additional capital expenditure already admitted and incurred up to 31.3.2019 (either based on actual or projected additional capital expenditure) and estimated additional capital expenditure for the respective years of the tariff period 2019-24 along with the true up petition for the period 2014-19 in accordance with the CERC (Terms and Conditions of Tariff) Regulations, 2014.(3)In case of emission control system required to be installed in existing generating station or unit thereof to meet the revised emission standards, an application shall be made for determination of supplementary tariff (capacity charges or energy charge or both) based on the actual capital expenditure duly certified by the Auditor.(4)Where the generating company has the arrangement for supply of coal or lignite from an integrated mine(s) to one or more of its generating stations, the

generating company shall file a petition for determination of the input price for determining the energy charge along with the tariff petitions for one or more generating stations in accordance with the provision of Chapter 9 of these regulations.

10. Determination of tariff.

(1) The generating company or the transmission licensee, as the case may be, shall file petition before the Commission as per Annexure-I to these regulations containing the details of underlying assumptions for the capital expenditure and additional capital expenditure incurred and projected to be incurred, wherever applicable.(2) If the petition is inadequate in any respect as required under Annexure-I to these regulations, the application shall be returned to the generating company or transmission licensee, as the case may be, for resubmission of the petition within one month after rectifying the deficiencies as may be pointed out by the staff of the Commission.(3)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 in case of new projects. (4) In case of the existing projects, the generating company or the transmission licensee, as the case may be, shall continue to bill the beneficiaries or the long term customers at the capacity charges or the transmission charges respectively as approved by the Commission and applicable as on 31.3.2019 for the period starting from 1.4.2019 till approval of final capacity charges or transmission charges by the Commission in accordance with these regulations: Provided that the billing for energy charges w.e.f. 1.4.2019 shall be as per the operational norms specified in these regulations. (5) The Commission shall grant final tariff in case of existing and new projects, after considering the replies received from the respondents, and suggestions and objections, if any, received from the general public and any other person permitted by the Commission including the consumers or consumer associations. (6) The Commission may hear the petitioner, the respondents and any other person permitted including the consumers or consumer associations while granting interim or final tariff.(7)The difference between the tariff determined in accordance with clauses (3) and (5) above and clauses (4) and (5) above, shall be recovered from or refunded to, the beneficiaries or the long term customers, as the case may be, with simple interest at the rate equal to the bank rate prevailing as on 1st April of the respective year of the tariff period, in six equal monthly instalments. (8) Where the capital cost considered by the Commission on the basis of projected additional capital expenditure exceeds the actual additional capital expenditure incurred on year to year basis by more than 10%, the generating company or the transmission licensee shall refund to the beneficiaries or the long term customers as the case may be, the tariff recovered corresponding to the additional capital expenditure not incurred, as approved by the Commission, along with interest at 1.20 times of the bank rate as prevalent on 1st April of the respective year. (9) Where the capital cost considered by the Commission on the basis of projected additional capital expenditure falls short of the actual additional capital expenditure incurred by more than 10% on year to year basis, the generating company or the transmission licensee shall recover from the beneficiaries or the long term customers as the case may be, the shortfall in tariff corresponding to difference in additional capital expenditure, as approved by the Commission, along with interest at the bank rate as prevalent on 1st April of the respective year.

11. In-principle approval in specific circumstances.

- The generating company or the transmission licensee 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.

12. Truing up of tariff for the period 2014-19.

- The tariff of the generating stations and the transmission systems for the period 2014-19 shall be trued up in accordance with the provisions of Regulation 8 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 along with the tariff petition for the period 2019-24. The capital cost admitted as on 31.3.2019 based on the truing up shall form the basis of the opening capital cost as on 1.4.2019 for the tariff determination for the period 2019-24.

13. Truing up of tariff for the period 2019-24.

(1) The Commission shall carry out truing up exercise for the period 2019-24 along with the tariff petition filed for the next tariff period, for the following:(a)the capital expenditure including additional capital expenditure incurred up to 31.3.2024, as admitted by the Commission after prudence check at the time of truing up:(b)the capital expenditure including additional capital expenditure incurred up to 31.3.2024, on account of Force Majeure and Change in Law.(2)The generating company or the transmission licensee, as the case may be, shall make an application, as per Annexure-I to these regulations, for carrying out truing up exercise in respect of the generating station or a unit thereof or the transmission system or an element thereof by 30.11.2024.(3)The generating company or the transmission licensee, as the case may be, may make an application for interim truing up of tariff in the year 2021-22, if the annual fixed cost increases by more than 20% over the annual fixed cost as determined by the Commission for the respective years of the tariff period: Provided that if the actual additional capital expenditure falls short of the projected additional capital expenditure allowed under provisions of Chapter 7 of these regulations, the generating company or the transmission licensee, as the case may be, shall not be required to file any interim true up petition for this purpose and shall refund to the beneficiaries or the long term customers, as the case may be, the excess tariff recovered corresponding to the projected additional capital expenditure not incurred at the bank rate as on 1st April of the respective years, under intimation to the Commission: Provided further that the generating company or the transmission licensee shall submit the complete details along with the calculations of the refunds made to the beneficiaries or the long term customers, as the case may be, at the time of true up.(4)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 or the transmission licensee, shall refund to or recover from, the beneficiaries or the long term customers, as the case may be, the excess or the shortfall amount along with simple interest at the rate equal to the bank rate as on 1st April of the respective years of the tariff period in six equal monthly instalments. Chapter - 4 Tariff Structure

14. Components of Tariff.

(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 15 of these regulations) and energy charge (for recovery of primary and secondary fuel cost and cost of limestone and any other reagent, where applicable as specified in Regulation 16 of these regulations).(2) The supplementary capacity charges for additional capitalization and supplementary 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.(3)The capacity charge and energy charge of a generating station shall be determined in accordance with the provisions of Chapter 11 of these regulations. The input price of coal or lignite from the integrated mine as determined in accordance with the provisions of Chapter 9 of these regulations shall form part of energy charge of the generating station.(4)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 44 or 45 of these regulations, as may be applicable, for recovery of annual fixed cost consisting of the components referred to in Regulation 15 of these regulations.(5)The tariff for transmission of electricity on inter-State transmission system shall comprise transmission charges for recovery of annual fixed cost consisting of the components specified in Regulation 15 of these regulations.

15. Capacity Charges.

- The capacity charges shall be derived on the basis of annual fixed cost. The Annual Fixed Cost (AFC) of a generating station or a transmission system including communication system shall consist of the following components:(a)Return on equity;(b)Interest on loan capital;(c)Depreciation; Interest on working capital; and(d)Operation and maintenance expenses:Provided that Special Allowance in lieu of R&M, where opted in accordance with Regulation 28 of these regulations, shall be recovered separately and shall not be considered for computation of working capital.

16. Energy Charges.

- 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 limestone or any other reagent, 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 supplementary 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.

17. Special Provisions for Tariff for Thermal Generating Station which have Completed 25 Years of Operation from Date of Commercial Operation.

(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 charges determined under these regulations shall also be recovered based on scheduled generation.(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 Capital Structure

18. Debt-Equity Ratio.

(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: i. where equity actually deployed is less than 30% of the capital cost, actual equity shall be considered for determination of tariff:ii. the equity invested in foreign currency shall be designated in Indian rupees on the date of each investment:iii. 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 or the transmission licensee, as the case may be, 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 or the transmission system. (2) The generating company or the transmission licensee, as the case may be, shall submit the resolution of the Board of the company or approval of the competent authority in other cases regarding infusion of funds from internal resources in support of the utilization made or proposed to be made to meet the capital expenditure of the generating station or the transmission system including communication system, as the case may be.(3)In case of the generating station and the transmission system including communication system 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 or a transmission system including communication system which has completed its useful life as on or after 1.4.2019, if the equity actually deployed as on 1.4.2019 is more than 30% of the capital cost, equity in excess of 30% shall not be taken into account for tariff computation; Provided further that in case of projects owned by Damodar Valley Corporation, the debt: equity ratio shall be governed as per sub-clause (ii) of clause (2) of Regulation 72 of these regulations.(4)In case of the generating station and the transmission system including communication system 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 ratio in accordance with clause (1) of this Regulation.(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 clause (1) of this Regulation. Chapter - 6 Computation of Capital Cost

19. Capital Cost.

(1) The Capital cost of the generating station or the transmission system, as the case may be, as determined by the Commission after prudence check in accordance with these regulations shall form the basis for determination of tariff for existing and new projects.(2)The Capital Cost of a new project shall include the following:(a) The expenditure incurred or projected to be incurred up to the date of commercial operation of the project; (b) 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;(c)Any gain or loss on account of foreign exchange risk variation pertaining to the loan amount availed during the construction period;(d)Interest during construction and incidental expenditure during construction as computed in accordance with these regulations;(e)Capitalised initial spares subject to the ceiling rates in accordance with these regulations;(f)Expenditure on account of additional capitalization and de-capitalisation determined in accordance with these regulations;(g)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 7 of these regulations;(h)Adjustment of revenue earned by the transmission licensee by using the assets before the date of commercial operation; (i) Capital expenditure on account of ash disposal and utilization including handling and transportation facility;(j)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;(k)Capital expenditure on account of biomass handling equipment and facilities, for co-firing;(l)Capital expenditure on account of emission control system necessary to meet the revised emission standards and sewage treatment plant; (m) Expenditure on account of fulfilment of any conditions for obtaining environment clearance for the project;(n)Expenditure on account of change in law and force majeure events; and(o)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.(3)The Capital cost of an existing project shall include the following:(a)Capital cost admitted by the Commission prior to 1.4.2019 duly trued up by excluding liability, if any, as on 1.4.2019;(b)Additional capitalization and de-capitalization for the respective year of tariff as determined in accordance with these regulations;(c)Capital expenditure on account of renovation and modernisation as admitted by this Commission in accordance with these regulations;(d)Capital expenditure on account of ash disposal and utilization including handling and transportation facility;(e)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(f)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. (4) The capital cost in case of existing or new hydro generating station shall also include:(a)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(b)cost of the developer's 10% contribution towards Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) and Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) project in the affected area.(5)The following shall be excluded 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 Assets 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 in case replacement of transmission asset is recommended by Regional Power Committee, such asset shall be de-capitalised only after its redeployment;Provided further 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)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.

20. Prudence Check of Capital Cost.

- The following principles shall be adopted for prudence check of capital cost of the existing or new projects:(1)In case of the thermal generating station and the transmission system, 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: Provided that, while carrying out the prudence check, the Commission shall also examine whether the generating company or transmission licensee, as the case may be, has been careful in its judgments and decisions in execution of the project.(2)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 under Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2009 shall continue till completion of the assigned project.(3)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.(4)The generating company or the transmission licensee, as the case may be, shall furnish the capital cost for execution of the existing and new projects as per Annexure-I to these regulations along with tariff petition for the purpose of creating a database of benchmark capital cost of various components.

21. Interest During Construction (IDC) and Incidental Expenditure during Construction (IEDC).

(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.(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.(3)In case of additional costs on account of IDC and IEDC due to delay in achieving the COD, the generating company or the transmission licensee as the case may be, 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 IEDC during the period of delay and liquidated damages recovered or recoverable corresponding to the delay.(4)If the delay in achieving the COD is not attributable to the generating company or the transmission licensee, IDC and IEDC beyond SCOD may be allowed after 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 or the transmission system, as the case may be.(5)If the delay in achieving the COD is attributable either in entirety on in part to the generating company or the transmission licensee or its contractor or supplier or agency, in such cases, IDC and IEDC beyond SCOD may be disallowed after 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 or the transmission licensee, as the case may be.

22. Controllable and Uncontrollable factors.

- The following shall be considered as controllable and uncontrollable factors for deciding time over-run, cost escalation, IDC and IEDC of the project:(1)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; andb. Delay in execution of the project on account of contractor or supplier or agency of the generating company or transmission licensee.(2)The "uncontrollable factors" shall include but shall not be limited to the following:a. Force Majeure events;b. Change in law; andc. Land acquisition except where the delay is attributable to the generating company or the transmission licensee.

23. Initial Spares.

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

(a) Coal-based/lignite-fired thermal generating stations - 4.00%

(b) Gas Turbine/Combined Cycle thermalgenerating stations - 4.00%

(c) Hydro generating stations including pumpedstorage hydro generating station - 4.00%

(d) Transmission system

(i) Transmission line - 1.00%

(ii) Transmission Sub-station

- Green Field - 4.00% - Brown Field - 6.00% (iii) Series Compensation devices and HVDC Station - 4.00% (iv) Gas Insulated Sub-station (GIS) - Green Field - 5.00% - Brown Field - 7.00% (v) Communication system - 3.50% (vi) Static Synchronous Compensator - 6.00%a

Provided that:i. Plant and Machinery cost shall be considered as the original project cost excluding IDC, IEDC, Land Cost and Cost of Civil Works. The generating company and the transmission licensee for the purpose of estimating Plant and Machinery Cost, shall submit the break-up of head wise IDC and IEDC in its tariff application;ii. where the generating station has any transmission equipment forming part of the generation project, the ceiling norms for initial spares for such equipment shall be as per the ceiling norms specified for transmission system under these regulations. Chapter - 7 Computation of Additional Capital Expenditure

24. Additional Capitalisation within the original scope and upto the cut-off date.

(1)The additional capital expenditure in respect of a 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:(a)Undischarged liabilities recognized to be payable at a future date;(b)Works deferred for execution;(c)Procurement of initial capital spares within the original scope of work, in accordance with the provisions of Regulation 23 of these regulations;(d)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;(e)Change in law or compliance of any existing law; and(f)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.(2)The generating company or the transmission licensee, as the case may be 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.

25. Additional Capitalisation within the original scope and after the cut-off date.

(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:(a)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;(b)Change in law or compliance of any existing law;(c)Deferred works relating to ash pond or ash handling system in the original scope of work;(d)Liability for works executed prior to the cut-off date;(e)Force Majeure events;(f)Liability for works admitted by the Commission after the cut-off date to the extent of discharge of such liabilities by actual payments; and(g)Raising of ash dyke as a part of ash disposal system.(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 is 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.

26. Additional Capitalisation beyond the original scope.

(1) The capital expenditure, in respect of existing generating station or the transmission system including communication system, 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 order or directions of 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)Need for higher security and safety of the plant as advised or directed by appropriate Indian Government Instrumentality or statutory authorities responsible for national or internal security;(e)Deferred works relating to ash pond or ash handling system in additional to the original scope of work, on case to case basis: Provided also that if any expenditure has been claimed under Renovation and Modernisation (R&M) or repairs and maintenance under O&M expenses, the same shall not be claimed under this Regulation;(f)Usage of water from sewage treatment plant in thermal generating station.(2)In case of de-capitalisation of assets of a generating company or the transmission licensee, as the case may be, 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.

27. Additional Capitalisation on account of Renovation and Modernisation.

(1)The generating company or the transmission licensee, as the case may be, intending to undertake renovation and modernization (R&M) of the generating station or unit thereof or transmission system or element 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 or the transmission licensee: Provided that the generating company making the applications for renovation and modernization (R&M) shall not be eligible for Special Allowance under Regulation 28 of these regulations; Provided further that the generating company or the transmission licensee intending to undertake renovation and modernization (R&M) shall be required to obtain the consent of the beneficiaries or the long term customers, as the case may be, for such renovation and modernization (R&M) and submit the same along with the petition.(2)Where the generating company or the transmission licensee, as the case may be, makes an application for approval of its proposal for renovation and modernisation (R&M), 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 or long term customers, if obtained, and such other factors as may be considered relevant by the Commission.(3)In case of gas/liquid fuel based open/combined cycle thermal generating station after 25 years of operation from date of commercial operation, any additional capital expenditure which has become necessary for renovation of gas turbines/steam turbine or additional capital expenditure necessary due to obsolescence or non-availability of spares for efficient operation of the stations shall be allowed: Provided that any expenditure included in the renovation and modernisation (R&M) on consumables and cost of components and spares which is generally covered in the O&M expenses during the major overhaul of gas turbine shall be suitably deducted from the expenditure to be allowed after prudence check.(4) After completion of the renovation and modernisation (R&M), the generating company or the transmission licensee, as the case may be, 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.

28. Special Allowance for Coal-based/Lignite fired Thermal Generating station.

(1)In case of coal-based/lignite fired thermal generating stations, the generating company, instead of availing renovation and modernization (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 2009-14 or 2014-19 as applicable from the date of completion of the useful life.(2)The Special Allowance admissible to a generating station shall be @ Rs 9.5 lakh per MW per year for the tariff period 2019-24.(3)In the event of a generating station availing Special Allowance, the expenditure incurred upon 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.(4)The Special Allowance allowed under this Regulation shall be transferred to a separate fund for utilization towards Renovation & Modernisation activities, for which detailed methodology shall be issued separately.

29. Additional Capitalization on account of Revised Emission Standards.

(1)A generating company requiring to incur additional capital expenditure in the existing generating station for compliance of the revised emissions standards shall share its proposal with the beneficiaries and file a petition for undertaking such additional capitalization.(2)The proposal under clause (1) 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.(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, cost-benefit analysis, and such other factors as may be considered relevant by the Commission.(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. Chapter - 8 Computation of **Annual Fixed Cost**

30. Return on Equity.

(1) Return on equity shall be computed in rupee terms, on the equity base determined in accordance with Regulation 18 of these regulations. (2) Return on equity shall be computed at the base rate of 15.50% for thermal generating station, transmission system including communication system and run-of-river hydro generating station, and at the base rate of 16.50% for the storage type hydro generating stations including pumped storage hydro generating stations and run-of-river generating station with pondage: Provided that return on equity in respect of additional capitalization after cut-off date beyond the original scope excluding additional capitalization due to Change in Law, shall be computed at the weighted average rate of interest on actual loan portfolio of the generating station or the transmission system; Provided further that: i. In case of a new project, the rate of return on equity shall be reduced by 1.00% for such period as may be decided by the Commission, if the generating station or transmission system is found to be declared under commercial operation without commissioning of any of the Restricted Governor Mode Operation (RGMO) or Free Governor Mode Operation (FGMO), data telemetry, communication system up to load dispatch centre or protection system based on the report submitted by the respective RLDC; ii. in case of existing generating station, as and when any of the requirements under (i) above of this Regulation are found lacking based on the report submitted by the concerned RLDC, rate of return on equity shall be reduced by 1.00% for the period for which the deficiency continues; iii. in case of a thermal

generating station, with effect from 1.4.2020:(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 Dispatch Centre by 30.6.2019.

31. Tax on Return on Equity.

(1) The base rate of return on equity as allowed by the Commission under Regulation 30 of these regulations 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 respect of the financial year in line with the provisions of the relevant Finance Acts by the concerned generating company or the transmission licensee, as the case may be. The actual tax paid on income from other businesses including deferred tax liability (i.e. income from business other than business of generation or transmission, as the case may be) shall be excluded for the calculation of effective tax rate.(2)Rate of return on equity shall be rounded off to three decimal places and shall be computed as per the formula given below: Rate of pre-tax return on equity = Base rate / (1-t)Where "t" is the effective tax rate in accordance with clause (1) of this Regulation 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 or non-transmission business, as the case may be, and the corresponding tax thereon. In case of generating company or transmission licensee paying Minimum Alternate Tax (MAT), "t" shall be considered as MAT rate including surcharge and cess.Illustration-(i)In case of a generating company or a transmission licensee paying Minimum Alternate Tax (MAT) @ 21.55% including surcharge and cess: Rate of return on equity = 15.50/(1-0.2155) = 19.758%(ii)In case of a generating company or a transmission licensee paying normal corporate tax including surcharge and cess:(a)Estimated Gross Income from generation or transmission business for FY 2019-20 is Rs 1,000 crore;(b)Estimated Advance Tax for the year on above is Rs 240 crore;(c)Effective Tax Rate for the year 2019-20 = Rs 240 Crore/Rs 1000 Crore = 24%;(d)Rate of return on equity = 15.50/(1-0.24) = 20.395%.(3)The generating company or the transmission licensee, as the case may be, 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 2019-24 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 or the transmission licensee, as the case may be. Any under-recovery or over-recovery of grossed up rate on return on equity after truing up, shall be recovered or refunded to beneficiaries or the long term customers, as the case may be, on year to year basis.

32. Interest on loan capital.

(1) The loans arrived at in the manner indicated in Regulation 18 of these regulations shall be considered as gross normative loan for calculation of interest on loan.(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. (3) 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.(4)Notwithstanding any moratorium period availed by the generating company or the transmission licensee, as the case may be, 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. (5) 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 or the transmission system, as the case may be, does not have actual loan, then the weighted average rate of interest of the generating company or the transmission licensee as a whole shall be considered.(6)The interest on loan shall be calculated on the normative average loan of the year by applying the weighted average rate of interest.(7)The changes to the terms and conditions of the loans shall be reflected from the date of such re-financing.

33. Depreciation.

(1)Depreciation shall be computed from the date of commercial operation of a generating station or unit thereof or a transmission system or element thereof including communication system. In case of the tariff of all the units of a generating station or all elements of a transmission system including communication system 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 or the transmission system 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 or capital cost of all elements of the transmission system, for which single tariff needs to be determined.(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 or multiple elements of a transmission system, weighted average life for the generating station of the transmission system shall be applied. 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.(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 the salvage value for IT equipment and software shall be considered as NIL and 100% value of the assets shall be considered depreciable; Provided further that in case of hydro generating stations, 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 also 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 unit or transmission system as the case may be, shall not be allowed to be recovered at a later stage during the useful life or the extended life.(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.(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 and transmission system: Provided that the remaining depreciable value as on 31st 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.(6)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.(7)The generating company or the transmission licensee, as the case may be, 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.(8)In case of de-capitalization of assets in respect of generating station or unit thereof or transmission system or element 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.

34. Interest on Working Capital.

(1) The working capital shall cover: (a) For Coal-based/lignite-fired thermal generating stations:(i)Cost of coal or lignite and limestone towards stock, if applicable, for 10 days for pit-head generating stations and 20 days for non-pit-head generating stations for generation corresponding to the normative annual plant availability factor or the maximum coal/lignite stock storage capacity whichever is lower; (ii) Advance payment for 30 days towards cost of coal or lignite and limestone 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 including water charges and security expenses; (v) Receivables equivalent to 45 days of capacity charge and energy charge for sale of electricity calculated on the normative annual plant availability factor; and(vi)Operation and maintenance expenses, including water charges and security expenses, for one month.(b)For Open-cycle Gas Turbine/Combined Cycle thermal generating stations:(i)Fuel cost for 30 days corresponding to the normative annual plant availability factor, duly taking into account mode of operation of the generating station on gas fuel and liquid fuel;(ii)Liquid fuel stock for 15 days corresponding to the normative annual plant availability factor, and in case of use of more than one liquid fuel, cost of main liquid fuel duly taking into account mode of operation of the generating stations of gas fuel and liquid fuel;(iii)Maintenance spares @ 30% of operation and maintenance

expenses including water charges and security expenses; (iv) Receivables equivalent to 45 days of capacity charge and energy charge for sale of electricity calculated on normative plant availability factor, duly taking into account mode of operation of the generating station on gas fuel and liquid fuel; and(v)Operation and maintenance expenses, including water charges and security expenses, for one month.(c)For Hydro Generating Station (including Pumped Storage Hydro Generating Station) and Transmission System:(i)Receivables equivalent to 45 days of annual fixed cost;(ii)Maintenance spares @ 15% of operation and maintenance expenses including security expenses; and(iii)Operation and maintenance expenses, including security expenses for one month.(2) The cost of fuel in cases covered under sub-clauses (a) and (b) of clause (1) of this Regulation shall be based on the landed fuel cost (taking into account normative transit and handling losses in terms of Regulation 39 of these regulations) by the generating station and gross calorific value of the fuel as per actual weighted average for the third quarter of preceding financial year in case of each financial year for which tariff is to be determined: 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 handling losses in terms of Regulation 39 of these regulations) 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.(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 2019-24 in which the generating station or a unit thereof or the transmission system including communication system or element thereof, as the case may be, 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 1st April of each of the financial year during the tariff period 2019-24.(4) Interest on working capital shall be payable on normative basis notwithstanding that the generating company or the transmission licensee has not taken loan for working capital from any outside agency.

35. Operation and Maintenance Expenses.

- (1) Thermal Generating Station: Normative Operation and Maintenance expenses of thermal generating stations shall be as follows:(1)Coal based and lignite fired (including those based on Circulating Fluidised Bed Combustion (CFBC) technology) generating stations, other than the generating stations or units referred to in clauses (2), (4) and (5) of this Regulation:(in Rs Lakh/MW)

Year	200/210/ 250 MW Series	300/330/ 350 MW Series	500 MW Series	600 MW Series	800 MW Series and above
FY 2019-20	32.96	27.74	22.51	20.26	18.23
FY 2020-21	34.12	28.71	23.3	20.97	18.87
FY 2021-22	35.31	29.72	24.12	21.71	19.54
FY 2022-23	36.56	30.76	24.97	22.47	20.22
FY 2023-24	37.84	31.84	25.84	23.26	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 operation and maintenance expenses of generating station and the transmission system of Bhakra Beas Management Board (BBMB) and Sardar Sarovar Project (SSP) shall be determined after taking into account provisions of the Punjab Reorganization Act, 1996 and Narmada Water Scheme, 1980 under Section 6-A of the Inter-State Water Disputes Act, 1956 respectively; Provided also that operation and maintenance expenses of generating station having unit size of less than 200 MW not covered above shall be determined on case to case basis.(2)Talcher Thermal Power Station (TPS), Tanda TPS and Chandrapura TPS Unit 3 and Durgapur TPS Unit 1 of DVC:(in Rs Lakh/MW)

Talcher TPS Chandrapura TPS (Unit 3), Tanda TPS, DurgapurTPS(Unit Year

FY 2019-20 to FY

56.34 46.16

2023-24

(3)Open Cycle Gas Turbine/Combined Cycle generating stations:(in Rs Lakh/MW)

Year	Gas Turbine/ Combined Cycle generatingstations other than small gas turbine power generating stations	Small gas turbine power generating stations	Agartala GPS	Advance F Class Machines
FY 2019-20	17.58	36.21	42.85	26.34
FY 2020-21	18.2	37.48	44.35	27.27
FY 2021-22	18.84	38.8	45.91	28.23
FY 2022-23	19.50	40.16	47.52	29.22
FY 2023-24	20.19	41.57	49.19	30.24

(4) Lignite-fired generating stations: (in Rs Lakh/MW)

Year	125 MW Sets	TPS-I of NLC
FY 2019-20	31.15	42.91
FY 2020-21	32.24	44.42
FY 2021-22	33.37	45.98
FY 2022-23	34.54	47.59
FY 2023-24	35.76	49.26

(5)Generating Stations based on coal rejects:(in Rs Lakh/MW)

O&M Expenses Year

FY 2019-20 31.15

FY 2020-21 32.24

FY 2021-22 33.37

FY 2022-23 34.54

FY 2023-24 35.76

(6) The Water Charges, Security Expenses and Capital Spares for thermal generating stations shall be allowed separately after prudence check: Provided that water charges shall be allowed based on water consumption depending upon type of plant and type of cooling water system, subject to prudence check. The details regarding the same shall be furnished along with the petition; Provided further that the generating station shall submit the assessment of the security requirement and estimated expenses; 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 as per Regulation 17 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 or Special Allowance or claimed as a part of additional capitalisation or consumption of stores and spares and renovation and modernization. (7) The additional operation and maintenance expenses on account of implementation of revised emission standards shall be notified separately:Provided that till the norms are notified, the Commission shall decide the additional O&M expenses on case to case basis.(2)Hydro Generating Station: (a) Following operations and maintenance expense norms shall be applicable for hydro generating stations which have been operational for three or more years as on 1.4.2019:(in Rs Lakh)

Particulars	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
THDC Stage I	27788.87	29113.44	30501.14	31955	33478.15
KHEP	13452.46	14093.68	14765.46	15469.26	16206.61
Bairasul	8292.11	8687.36	9101.45	9535.28	9989.78
Loktak	9538.27	9992.91	10469.23	10968.25	11491.06
Salal	19207.75	20123.29	21082.48	22087.39	23140.19
Tanakpur	10520.33	11021.79	11547.15	12097.55	12674.18
Chamera-I	11773.57	12334.77	12922.71	13538.68	14184
Uri I	9865.77	10336.03	10828.7	11344.85	11885.61
Rangit	5336.17	5590.53	5857	6136.18	6428.66
Chamera-II	10670.68	11179.3	11712.17	12270.44	12855.31
Dhauliganga	8813.4	9233.5	9673.61	10134.71	10617.79
Dulhasti	18563.04	19447.85	20374.84	21346.02	22363.49
Teesta-V	12186.58	12767.46	13376.02	14013.6	14681.56
Sewa-II	7079.34	7416.78	7770.31	8140.68	8528.71
TLDP III	7539.76	7899.14	8275.66	8670.12	9083.39
Chamera III	9078.72	9511.46	9964.83	10439.81	10937.43
Chutak	3536.67	3705.25	3881.86	4066.89	4260.74
Nimmo Bazgo	3527.43	3695.57	3871.72	4056.27	4249.61
Uri II	7058.82	7395.28	7747.78	8117.08	8503.99
Parbati III	6618.29	6933.76	7264.26	7610.51	7973.27
Indira Sagar	11728.4	12287.44	12873.12	13486.73	14129.58

Omkareshwar	7198.97	7542.12	7901.62	8278.25	8672.84
Naptha Jhakari	33326.11	34914.62	36578.84	38322.39	40149.04
Rampur	12267.22	12851.94	13464.54	14106.33	14778.72
Koldam	12659.94	13263.39	13895.59	14557.93	15251.84
Karcham Wangtoo	11710.14	12268.31	12853.09	13465.74	14107.59
Kopili-I	9044.47	9475.58	9927.24	10400.43	10896.17
Kopili-II	1130.56	1184.45	1240.9	1300.05	1362.02
Khandong	2261.12	2368.9	2481.81	2600.11	2724.04
Doyang	5654.57	5924.1	6206.47	6502.31	6812.24
Ranganadi	12095.88	12672.44	13276.47	13909.3	14572.3
Maithon	2892.4	3030.26	3174.7	3326.03	3484.56
Panchet	2191.37	2295.83	2405.26	2519.9	2640.02
Tilaiya	900.17	943.08	988.03	1035.13	1084.47

Note. - The impact in respect of revision of minimum wage, pay revision and GST, if any, will be considered at the time of determination of tariff.(b)In case of the hydro generating stations declared under commercial operation on or after 1.4.2019, operation and maintenance expenses of first year shall be fixed at 3.5% and 5.0% of the original project cost (excluding cost of rehabilitation & resettlement works, IDC and IEDC) for stations with installed capacity exceeding 200 MW and for stations with installed capacity less than 200 MW, respectively.(c)In case of hydro generating stations which have not completed a period of three years as on 1.4.2019, operation and maintenance expenses for 2019-20 shall be worked out by applying escalation rate of 4.77% on the applicable operation and maintenance expenses as on 31.3.2019. The operation and maintenance expenses for subsequent years of the tariff period shall be worked out by applying escalation rate of 4.77% per annum.(c)The Security Expenses and Capital Spares for hydro generating stations shall be allowed separately after prudence check: Provided further that the generating station shall submit the assessment of the security requirement and estimated expenses, the details of year-wise actual capital spares consumed at the time of truing up with appropriate justification. (3) Transmission system: (a) The following normative operation and maintenance expenses shall be admissible for the transmission system:

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Norms for sub-station Bays (Rs Lakh per bay)					
765 kV	45.01	46.6	48.23	49.93	51.68
400 kV	32.15	33.28	34.45	35.66	36.91
220 kV	22.51	23.3	24.12	24.96	25.84
132 kV and below	16.08	16.64	17.23	17.83	18.46
Norms for Transformers (Rs Lakh per MVA)					
765 kV	0.491	0.508	0.526	0.545	0.564
400 kV	0.358	0.371	0.384	0.398	0.411
220 kV	0.245	0.254	0.263	0.272	0.282
132 kV and below	0.245	0.254	0.263	0.272	0.282

Norms for A C and HVDC lines (Rs Lakh per km)					
Single Circuit (Bundled Conductor with six ormore sub-conductors)	0.881	0.912	0.944	0.977	1.011
Single Circuit (Bundled conductor with foursub-conductors)	0.755	0.781	0.809	0.837	0.867
Single Circuit (Twin & Triple Conductor)	0.503	0.521	0.539	0.558	0.578
Single Circuit (Single Conductor)	0.252	0.260	0.270	0.279	0.289
Double Circuit (Bundled conductor with four ormore sub-conductors)	1.322	1.368	1.416	1.466	1.517
Double Circuit (Twin & Triple Conductor)	0.881	0.912	0.944	0.977	1.011
Double Circuit (Single Conductor)	0.377	0.391	0.404	0.419	0.433
Multi Circuit (Bundled Conductor with four ormore sub-conductor)	2.319	2.401	2.485	2.572	2.662
Multi Circuit (Twin & Triple Conductor)	1.544	1.598	1.654	1.713	1.773
Norms for HVDC stations					
HVDC Back-to-Back stations (Rs Lakh per 500 MW)(Except Gazuwaka BTB)	834	864	894	925	958
Gazuwaka HVDC Back-to-Back station (Rs. Lakh per500 MW)	1,666	1,725	1,785	1,848	1,913
500 kV Rihand-Dadri HVDC bipole scheme (Rs Lakh)(1500 MW)	2,252	2,331	2,413	2,498	2,586
±500 kV Talcher- Kolar HVDC bipole scheme(Rs Lakh) (2000 MW)	2,468	2,555	2,645	2,738	2,834
±500 kV Bhiwadi-Balia HVDC bipole scheme(Rs Lakh) (2500 MW)	1,696	1,756	1,817	1,881	1,947
±800 kV, Bishwanath-Agra HVDC bipolescheme (Rs Lakh) (3000 MW)	2,563	2,653	2,746	2,842	2,942

Provided that the O&M expenses for the GIS bays shall be allowed as worked out by multiplying 0.70 of the O&M expenses of the normative O&M expenses for bays; Provided further that: (i) the operation and maintenance expenses for new HVDC bi-pole schemes commissioned after 1.4.2019 for a particular year shall be allowed pro-rata on the basis of normative rate of operation and maintenance expenses of similar HVDC bi-pole scheme for the corresponding year of the tariff period; (ii) the O&M expenses norms for HVDC bi-pole line shall be considered as Double Circuit quad AC line; (iii) the O&M expenses of ±500 kV Mundra-Mohindergarh HVDC bipole scheme (2500 MW) shall be allowed as worked out by multiplying 0.80 of the normative O&M expenses for ±500 kV Talchar-Kolar HVDC bi-pole scheme (2000 MW); (iv) the O&M expenses of ±800 kV Champa-Kurukshetra HVDC bi-pole scheme (3000 MW) shall be on the basis of the normative O&M expenses for ±800 kV, Alipurduar-Agra HVDC bi-pole scheme (3000 MW) shall be allowed as worked out by multiplying 0.80 of the normative O&M expenses for ±800 kV, Bishwanath-Agra HVDC bi-pole scheme; and(v) the O&M expenses of Static Synchronous Compensator and Static Var Compensator

shall be worked at 1.5% of original project cost as on commercial operation which shall be escalated at the rate of 3.51% to work out the O&M expenses during the tariff period. The O&M expenses of Static Synchronous Compensator and Static Var Compensator, if required, may be reviewed after three years.(b)The total allowable operation and maintenance expenses for the transmission system shall be calculated by multiplying the number of sub-station bays, transformer capacity of the transformer (in MVA) and km of line length with the applicable norms for the operation and maintenance expenses per bay, per MVA and per km respectively.(c)The Security Expenses and Capital Spares for transmission system shall be allowed separately after prudence check:Provided that the transmission licensee shall submit the assessment of the security requirement and estimated security expenses, the details of year-wise actual capital spares consumed at the time of truing up with appropriate justification.(4)Communication system: The operation and maintenance expenses for the communication system shall be worked out at 2.0% of the original project cost related to such communication system. The transmission licensee shall submit the actual operation and maintenance expenses for truing up.Chapter - 9 Computation of Input Price of Coal and LigniteFrom Integrated Mine

36. Input Price of coal and lignite for energy charges.

(1)Where the generating company has the arrangement for supply of coal or lignite from the integrated mine(s) allocated to it, for use in one or more of its generating stations as end use, the energy charge component of tariff of the generating station shall be determined based on the input price of coal or lignite, as the case may be, from such integrated mines computed in accordance with the regulations to be notified separately by the Commission.(2)Till the regulation for computation of input price of coal is notified, the generating company shall continue to adopt the notified price of Coal India Limited commensurate with the grade of the coal from the integrated mine:Provided that after notification of the regulation for input price of coal, the same shall be applicable from 1.4.2019 or the date of commercial operation of the integrated mine, whichever is later, and the difference between the input price of coal so decided and the input price of coal for quantity billed shall be adjusted in accordance with the regulations to be notified.(3)Till the regulations for computation of input price of lignite is notified, the input price of lignite shall continue to be determined as per the guidelines specified by Ministry of Coal, Government of India.Chapter - 10 Components of Energy Charge

37. Energy Charge.

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

38. Landed Fuel Cost of Primary Fuel.

- The landed fuel cost of primary fuel for any month shall consist of base price or input price of fuel corresponding to the grade and quality of fuel and shall be inclusive of statutory charges as applicable, washery charges, transportation cost by rail or road or any other means and loading,

unloading and handling charges:Provided that procurement of fuel at a price other than Government notified prices may be considered, if it is based on competitive bidding through transparent process;Provided further that landed fuel cost of primary fuel 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 in case of coal-fired or lignite based thermal generating station, the Gross Calorific Value shall be measured by third party sampling and the expenses towards the third party sampling facility shall be reimbursed by the beneficiaries.

39. Transit and Handling Losses.

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

Thermal Generating Station Transit and Handling Loss (%)

Pit head 0.20% Non-pit head 0.80%

Provided that in case of pit-head stations, if coal or lignite 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.

40. Gross Calorific Value of Primary Fuel.

(1)The gross calorific value for computation of energy charges as per Regulation 43 of these regulations shall be done in accordance with 'GCV as received' basis.(2)The generating company shall provide to the beneficiaries of the generating station the details in respect of GCV and price of fuel i.e. domestic coal, imported coal, e-auction coal, lignite, natural gas, RLNG, liquid fuel etc. as per the Form 15 prescribed at Annexure-I (Part I) to these regulations:Provided that the additional details of the weighted average GCV of the fuel on as received basis used for generation during the period, blending ratio of the imported coal with domestic coal, proportion of e-auction coal shall be provided, along with the bills of the respective month;Provided further that copies of the bills and details of parameters of GCV and price of fuel such as domestic coal, imported coal, e-auction coal, lignite, natural gas, RLNG, liquid fuel, 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.

41. Landed Cost of Reagent.

(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.(2)The normative consumption of specific reagent for the various technologies installed for meeting revised emission standards shall be notified separately. Chapter - 11 Computation of Capacity Charges and Energy Charges

42. Computation and Payment of Capacity Charge for Thermal Generating Stations.

(1)The fixed cost of a thermal generating station shall be computed on annual basis based on the 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 or 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 (CCy) =Sum of Capacity Charge for three months of High Demand Season +Sum of Capacity Charge for nine months of Low Demand Season(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 (CCm) =Capacity Charge for Peak Hours of the Month (CCp) +Capacity Charge for Off-Peak Hours of the Month (CCp)Where,High Demand Seasons:

```
Ccp1= \{(0.20 \text{ xAFC})x (1) \text{ x (PPFMp1) subject to ceiling of } (0.20 \text{ xAFC}) \text{ X (1)}
        NAPAF
12
                         12
Ccp2= \{(0.20 \text{ xAFC})x (1) x (PAFMp2) \text{ subject to ceiling of } (0.20 \text{ xAFC}) X (1)\} - CCP1
6
        NAPAF
Ccp3 = \{(0.20 \text{ xAFC})x (1) x (PAFMp3)\}
                                                    ) subject to ceiling of
        NAPAF
4
        \{(0.20 \text{ xAFC})x (1)\} x (CCP1 + CCP2)\}
Ccop1= \{(0.80 \text{ xAFC})x (1) \text{ x (PPFMop1) subject to ceiling of } (0.80 \text{ xAFC}) \text{ X (1)} \}
         NAPAF
12
                           12
Ccop2= \{(0.80 \text{ xAFC})x (1) x (PAFMop2) \text{ subject to ceiling of } (0.80 \text{ xAFC}) X (1)\} - CCop1
6
         NAPAF
                           6
Ccop3 = \{(0.80 \text{ xAFC})x (1) x (PAFMop3)\}
                                                        ) subject to ceiling of
4
         NAPAF
          \{(0.80 \text{ xAFC})x (1)\} x (CCop1 + CCop2)
Low Demand Season:
Ccp1= \{(0.20 \text{ xAFC})x (1) x ((PPFMp1)) \text{ subject to ceiling of } (0.20 \text{ xAFC}) X (1) \}
        NAPAF
12
                         12
Ccp2= \{(0.20 \text{ xAFC})x (1) x (PAFMp2) \text{ subject to ceiling of } (0.20 \text{ xAFC}) X (1)\} - CCP1
        NAPAF
Ccp3 = \{(0.20 \text{ xAFC})x (1) x (PAFMp3)\}
                                                    ) subject to ceiling of
        NAPAF
4
```

```
\{(0.20 \text{ xAFC})x (1)\} x (CCP1 + CCP2)
4
Ccp4 = \{(0.20 \text{ xAFC})x (1) x (PAFMp4)\} subject to ceiling of
        NAPAF
3
        \{(0.20 \text{ xAFC})x (1)\} x (CCP1 + CCP2 + CCP3)
4
Ccp5= \{(0.20 \text{ xAFC})x (5) x (PAFMp5)\}
                                                                          ) subject to ceiling of
        NAPAF
12
        \{(0.20 \text{ xAFC})x (5)\} x (CCP1 + CCP2 + CCP3 + CCP4)
12
                                                                                               subject
                                                                                               to
Ccp6 = \{(0.20 \text{ xAFC})x (1) x (PAFMp6)\}
                                                                                               ceiling
                                                                                               of
2
         NAPAF
          \{(0.20 \text{ xAFC})x (1)\} x (CCP1 + CCP2 + CCP3 + CCP4 + CCP5)
2
                                                                                                subject
                                                                                                to
Ccp7= \{(0.20 \text{ xAFC})x (7) \text{ x ( PAFMp7)}\}
                                                                                                ceiling
                                                                                                of
12
         NAPAF
         {(0.20 xAFC)x ( 7 )} x ( \frac{\text{CCP1} + \text{CCP2} + \text{CCP3} + \text{CCP4} + \text{CCP5}}{+\text{CCP6}}
                                                                                             )
12
Ccp8= {(0.20
                                                                                        ) subject to ceiling of
                        (2) x (PAFMp8
        xAFC)x
        NAPAF
3
                        ( 2 )} x ( \frac{\text{CCP1} + \text{CCP2} + \text{CCP3} + \text{CCP4} + \text{CCP5} + \text{CCP6} + \text{CCp7}}{\text{CCP6} + \text{CCp7}}
        \{(0.20)
        xAFC)x
3
Ccp9= {(0.20
                                                                                         ) subject to ceiling of
                        (3) x (PAFMp9
        xAFC)x
        NAPAF
3
                        (3)} x ( CCP1 + CCP2 + CCP3 + CCP4 + CCP5 + CCP6 + CCp7 + CCp8
        \{(0.20)
                                                                                         )
        xAFC)x
Ccop1= \{(0.80 \text{ xAFC})x (1) \text{ x (PPFMop1) subject to ceiling of } (0.80 \text{ xAFC}) \text{ X (1)} \}
12
         NAPAF
                            12
```

```
Ccop2= \{(0.80 \text{ xAFC})x (1) x (PAFMop2) \text{ subject to ceiling of } (0.80 \text{ xAFC}) X (1)\} - CCop1
          NAPAF
Ccop3= \{(0.80 \text{ xAFC})x (1) x (PAFMop3) \} subject to ceiling of
          NAPAF
4
          \{(0.80 \text{ xAFC})x (1)\} x (CCop1 + CCop2)
4
Ccop4 = \{(0.80 \text{ xAFC})x (1) x (PAFMop4)\}
                                                                             ) subject to ceiling of
          NAPAF
3
          \{(0.80 \text{ xAFC})x (1)\} x (CCop1 + CCop2 + CCop3)
3
                                                                                          ) subject to ceiling of
Ccop5= \{(0.80 \text{ xAFC})x (5) \text{ x ( PAFMop5)}\}
          NAPAF
12
          \{(0.80 \text{ xAFC})x (5)\} x (CCop1 + CCop2 + CCop3 + CCop4)
12
                                                                                                         subject
                                                                                                         to
Ccop6= \{(0.80 \text{ xAFC})x (1) x (PAFMop6)\}
                                                                                                         ceiling
                                                                                                         of
           NAPAF
2
           {(o.8o xAFC)x ( 1 )} x ( \frac{\text{CCop1} + \text{CCop2} + \text{CCop3} + \text{CCop4} + \text{CCop5}}{\text{CCop5}}
                                                                                                      )
2
          {(o.8o
                                                                                                ) subject to ceiling of
Ccop7=
                            (7) x (PAFMop7
          xAFC)x
          NAPAF
12
                            ( 7 )} x ( \frac{\text{CCop1} + \text{CCop2} + \text{CCop3} + \text{CCop4} + \text{CCop5}}{\text{CCop5} + \text{CCop6}}
          \{(0.80)\}
                                                                                                )
          xAFC)x
12
          (0.80
                                                                                                  ) subject to ceiling of
Ccop8=
                           (2) x (PAFMop8
           xAFC)x
           NAPAF
3
                           ( 2 )} x ( \frac{\text{CCop1} + \text{CCop2} + \text{CCop3} + \text{CCop4} + \text{CCop5}}{\text{+ CCop6} + \text{CCop7}} )
           \{(0.80)\}
           xAFC)x
3
           (0.80
                                                                                                   ) subject to ceiling of
Ccop9=
                           (3) x (PAFMop9
           xAFC)x
          NAPAF
4
                          ( 3 )} x ( \frac{\text{CCop1} + \text{CCop2} + \text{CCop3} + \text{CCop4} + \text{CCop5} +}{\text{CCop6} + \text{CCop7} + \text{CCop8}} )
           (0.80)
          xAFC)x
```

4

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, CCm = Capacity Charge for the Month; CCp = Capacity Charge for the Peak Hours of the Month; CCop = Capacity Charge for the Off-Peak Hours of the Month; CCpn = Capacity Charge for the Peak Hours of nth Month in a specific Season; CCopn = Capacity Charge for the Off-Peak of nth Month in a specific Season; AFC = Annual Fixed Cost; PAFMpn = Plant Availability Factor achieved during Peak Hours upto the end of nth Month in a Season; PAFMopn = Plant Availability Factor achieved during Off-Peak Hours upto the end of nth Month in a Season; NAPAF = Normative Annual Plant Availability Factor.(3)Normative Plant Availability Factor for "Peak" and "Off-Peak" Hours in a month shall be equivalent to the NAPAF specified in Clause (A) of 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 RLDC 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 RLDC, at least six months in advance: Provided that RLDC, 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 region to the maximum extent possible: Provided further that in respect of a generating station having beneficiaries across different regions, the High Demand Season and the Peak Hours shall correspond to the High Demand Season and Peak Hours of the region in which majority of its beneficiaries, in terms of percentage of allocation of share, are located.(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.(5)The Plant Availability Factor achieved for a Month (PAFM) shall be computed in accordance with the following formula:N $PAFM = 1000 \text{ x} | \square DCi[N \text{ x IC x } (100 - Aux)]| \% | |$

i=1Where,AUX = Normative auxiliary energy consumption in percentage.DCi = Average declared capacity (in ex-bus MW), for the ith 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 stationN = Number of days during the periodNote. - 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.(6)In addition to the capacity charge, an incentive shall be payable to a generating station or unit thereof @ 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 Clause (B) of Regulation 49 of these regulations.(7)The provisions under Clauses (1) to (6) of this Regulation shall come into force with effect from 1.4.2020. 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 Clauses (1) to (4) of Regulation 30 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014, subject to the condition that the NAPAF and NAPLF shall be taken as specified under these regulations.

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

(1) The energy charge shall cover the primary and secondary fuel cost and limestone consumption cost (where applicable), 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 and limestone price adjustment). Total Energy charge payable to the generating company for a month shall be: Energy Charges = (Energy charge rate in Rs./kWh) x {Scheduled energy (ex-bus) for the month in kWh}(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 formulae:(a)For coal based and lignite fired stations:ECR = {(SHR - SFC x CVSF) x LPPF / (CVPF + SFC x LPSFi + LC x LPL) x 100 /(100 - AUX)(b)For gas and liquid fuel based stations: ECR = SHR x LPPF x 100 / {(CVPF) x (100 - AUX)}Where,AUX =Normative auxiliary energy consumption in percentage.CVPF = (a) Weighted Average Gross calorific value of coal as received, in kCal per kg for coal based stations less 85 Kcal/Kg on account of variation during storage at generating station;(b)Weighted Average Gross calorific value of primary fuel as received, in kCal per kg, per litre or per standard cubic meter, as applicable for lignite, gas and liquid fuel based stations;(c)In case of blending of fuel from different sources, the weighted average Gross calorific value of 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;LC = Normative limestone consumption in kg per kWh;LPL = Weighted average landed cost of limestone in Rupees per kg;LPPF = Weighted average landed fuel cost of primary fuel, in Rupees per kg, per litre or per standard cubic metre, as applicable, during the month. (In case of blending of fuel from different sources, the weighted average landed fuel cost of primary fuel shall be arrived in proportion to blending ratio); SFC = Normative Specific fuel oil consumption, in ml per kWh;LPSFi = Weighted Average Landed Fuel Cost of Secondary Fuel in Rs./ml during the month:Provided that energy charge rate for a gas or liquid fuel based station shall be adjusted for open cycle operation based on certification of Member Secretary of respective Regional Power Committee during the month.(3)In case of part or full use of alternative source of fuel supply by coal based thermal generating stations 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 fuel or optimization of economical operation through blending, the use of alternative source of fuel supply shall be permitted to generating station: 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 alternative

source of fuel shall not exceed 30% of base price of fuel computed as per clause (5) of this Regulation: Provided also that where the energy charge rate based on weighted average price of fuel upon use of alternative source of fuel supply exceeds 30% of base energy charge rate as approved by the Commission for that year or exceeds 20% of energy charge rate for the 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. (4) Where biomass fuel is used for blending with coal, the landed cost of biomass fuel shall be worked out based on the delivered cost of biomass at the unloading point of the generating station, inclusive of taxes and duties as applicable. The energy charge rate of the blended fuel shall be worked out considering consumption of biomass based on blending ratio as specified by Authority or actual consumption of biomass, whichever is lower. (5) The Commission through 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 Commission from time to time under competitive bidding guidelines.(6)The tariff structure as provided in this Regulation 42 and Regulation 43 of these regulations may be adopted by the Department of Atomic Energy, Government of India for the nuclear generating stations by specifying annual fixed cost (AFC), normative annual plant availability factor (NAPAF), installed capacity (IC), normative auxiliary energy consumption (AUX) and energy charge rate (ECR) for such stations.

44. Computation and Payment of Capacity Charge and Energy Charge for Hydro Generating Stations.

(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 charge, 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 for the generating station, for the purpose of determining the capacity charge and energy charge payment during such period.(2)The capacity charge (inclusive of incentive) payable to a hydro generating station for a calendar month shall be:AFC x 0.5 x NDM / NDY x (PAFM / NAPAF) (in Rupees)Where,AFC = Annual fixed cost specified for the year, in RupeesNAPAF = Normative plant availability factor in percentageNDM = Number of days in the monthNDY = Number of days in the yearPAFM = Plant availability factor achieved during the month, in percentage(3)The PAFM shall be computed in accordance with the following formula:NPAFM = 10000 x DCi / { N x IC x (100 - AUX) } %i = 1WhereAUX = Normative auxiliary energy consumption in percentageDCi = Declared capacity (in ex-bus MW) for the ii 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 stationN = Number of days in the month(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-bus basis, at the computed energy charge rate. Total energy charge payable to the generating company for a month shall be: Energy Charges = (Energy charge rate in Rs. / kWh) x {Scheduled energy (ex-bus) for the month in kWh} x (100 - FEHS) / 100(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 clause (7) of this Regulation: ECR = AFC x 0.5 x 10 / {DE x (100 - AUX) x (100 - FEHS)}Where, DE = Annual design energy specified for the hydro generating station, in MWh, subject to the provision in clause (6) below. FEHS = Free energy for home State, in per cent, as mentioned in Note 3 under Regulation 55 of these regulations.(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 shall be as per clause (7) of this Regulation, on an application filed by the generating company. (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 four years on account of hydrology factor, the generating station shall approach the Central Electricity Authority with relevant hydrology data for revision of design energy of the station. (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 clause (7) of this Regulation.(9)In case the energy charge rate (ECR) for a hydro generating station, computed as per clause (5) of this Regulation exceeds one hundred and twenty paise per kWh, and the actual saleable energy in a year exceeds { DE x (100 - AUX) x (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. (10) In case of the hydro generating stations located in the State of Jammu and Kashmir, any expenditure incurred for payment of water usage charges to the State Water Resources Development Authority, Jammu under Jammu Kashmir Water Resources (Regulations and Management) Act, 2010 shall be payable by the beneficiaries as additional energy charge in proportion of the supply of power from the generating stations on month to month basis: Provided that the provisions of this clause shall be subject to the decision of the Hon'ble High Court of Jammu Kashmir in OWP No. 604/2011 and shall stand modified in accordance with the decision of the High Court.

45. Computation and Payment of Capacity Charge and Energy Charge for Pumped Storage Hydro Generating Stations.

(1)The fixed cost of a pumped storage hydro generating station shall be computed on annual basis, based on norms specified under these regulations, and recovered on monthly basis as capacity charge. The capacity charge shall be payable by the beneficiaries in proportion to their respective allocation in the saleable capacity of the generating station, i.e., 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 be worked out based on the latest estimate of the completion cost for the generating station, for the purpose of determining the capacity charge payment during such period.(2)The capacity charge payable to a pumped storage hydro generating station for a calendar

month shall be:(AFC x NDM / NDY) (In Rupees), if actual Generation during the month is = 75 % of the Pumping Energy consumed by the station during the month and {(AFC x NDM / NDY) x (Actual Generation during the month during peak hours / 75% of the Pumping Energy consumed by the station during the month) (in Rupees)}, if actual Generation during the month is 75 % of the Pumping Energy consumed by the station during the month. Where, AFC = Annual fixed cost specified for the year, in RupeesNDM = Number of days in the monthNDY = Number of days in the yearProvided that there would be adjustment at the end of the year based on actual generation and actual pumping energy consumed by the station during the year. (3) The energy charge shall be payable by every beneficiary for the total energy scheduled to be supplied to the beneficiary in excess of the design energy plus 75% of the energy utilized in pumping the water from the lower elevation reservoir to the higher elevation reservoir, at a flat rate equal to the average energy charge rate of 20 paise per kWh, excluding free energy, if any, during the calendar month, on ex power plant basis.(4)Energy charge payable to the generating company for a month shall be:= 0.20 x {Scheduled energy (ex-bus) for the month in kWh - (Design Energy for the month (DEm) + 75% of the energy utilized in pumping the water from the lower elevation reservoir to the higher elevation reservoir of the month)} x (100 - FEHS)/ 100.Where,DEm = Design energy for the month specified for the hydro generating station, in MWhFEHS = Free energy for home State, in per cent, as mentioned in Note 3 under Regulation 55 of these regulations, if any. Provided that in case the Scheduled energy in a month is less than the Design Energy for the month plus 75% of the energy utilized in pumping the water from the lower elevation reservoir to the higher elevation reservoir of the month, then the energy charges payable by the beneficiaries shall be zero.(5)The generating company shall maintain the record of daily inflows of natural water into the upper elevation reservoir and the reservoir levels of upper elevation reservoir and lower elevation reservoir on hourly basis. The generator shall be required to maximize the peak hour supplies with the available water including the natural flow of water. In case it is established that generator is deliberately or otherwise without any valid reason, is not pumping water from lower elevation reservoir to the higher elevation during off-peak period or not generating power to its potential or wasting natural flow of water, the capacity charges of the day shall not be payable by the beneficiary. For this purpose, outages of the unit(s)/station including planned outages and the forced outages up to 15% in a year shall be construed as the valid reason for not pumping water from lower elevation reservoir to the higher elevation during off-peak period or not generating power using energy of pumped water or natural flow of water:Provided that the total capacity charges recovered during the year shall be adjusted on pro-rata basis in the following manner in the event of total machine outages in a year exceeds 15%:(ACC)adj = (ACC) R x (100-ATO)/85Where,(ACC)adj - Adjusted Annual Capacity Charges(ACC)R - Annual Capacity Charges recoveredATO - Total Outages in percentage for the year including forced and planned outagesProvided further that the generating station shall be required to declare its machine availability daily on day ahead basis for all the time blocks of the day in line with the scheduling procedure of Grid Code.(6)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.

46. Computation and Payment of Transmission Charge for Inter-State Transmission System and Communication System.

(1) The fixed cost of the transmission system or communication system forming part of transmission system shall be computed on annual basis, in accordance with norms contained in these regulations, aggregated as appropriate, and recovered on monthly basis as transmission charge from the users, who shall share these charges in the manner specified in clause (2) of this Regulation.(2) The Transmission charge (inclusive of incentive) payable for a calendar month for transmission system or part shall be computed for each region separately for AC and DC system as under: For AC system:a) For TAFM n 98.00%AFC x (NDMn/NDY) x (TAFMn/98.00%)b) For TAFMn: 98.00% TAFMn 98.50%AFC x (NDMn/NDY) x (1)c) For TAFMn: 98.50% TAFMn 99.75%AFC x (NDMn/NDY) x (TAFM/98.50%)d) For TAFMn 99.75%AFC x (NDMn/NDY) x (99.75%/98.50%)Where,AFC = Annual Fixed Cost specified for the year in RupeesNDMn = Number of days in nth monthNDY = Number of days in the yearTAFMn = Transmission System availability factor for the nth month, in percent computed in accordance with Appendix II. For HVDC bi-pole links and HVDC back-to-back Stations:TC1 = AFC x (NDM1 / NDY) x (TAFM1/NATAF)TC2 = AFC x $(NDM2 / NDY) \times (TAFM2/NATAF) - TC1TC3 = AFC \times (NDM3 / NDY) \times (TAFM3/NATAF) (TC1+TC2)TC4 = AFC \times (NDM4 / NDY) \times (TAFM4/NATAF) - (TC1+TC2+TC3)....TC11 = AFC \times (TC1+TC2+TC3)$ $(NDM_{11}/NDY) \times (TAFM_{11}/NATAF) - (TC_{1}+TC_{2}+....+TC_{10})TC_{12} = AFC \times (TAFY/NATAF) - (TC_{1}+TC_{10}+...+TC_{10})TC_{12} = AFC \times (TAFY/NATAF) - (TC_{1}+TC_{10}+...+TC_{10})TC_{12} = AFC \times (TAFY/NATAF) - (TC_{1}+TC_{10}+...+TC_{10})TC_{12} = AFC \times (TAFY/NATAF) - (TC_{1}+TC_{10}+...+TC_{10}+...+TC_{10})TC_{12} = AFC \times (TAFY/NATAF) - (TC_{1}+TC_{10}+...+TC_{10}$ (TC1+TC2+....+TC11);If,(i)TAFM: 95.00% TAFM 97.50%, then TAFM=NATAF;(ii)TAFM: 97.50% TAFM 99.75%, then NATAF=97.50%; and(iii)For TAFM 99.75%, then TAFM=99.75% and NATAF= 97.50%. Where, TCn = Transmission charges inclusive of incentive up to the nth month AFC = Annual fixed cost specified for the year in rupeesNATAF = Normative Annual Transmission Availability Factor in percentageNDMn = No of days upto the end of nth month of the financial yearNDY = No. of days in the yearTAFMn = Transmission availability factor up to the end of the nth month of the year in percentage computed in accordance with Appendix -IITAFY = Transmission availability factor in percent for the year.(3)The transmission charges shall be calculated separately for part of the transmission system having different NATAF and aggregated thereafter, according to their sharing by the long term customers. The charges of the communication system shall be a part of the transmission charges and shall be shared by the long term customers.

47. Deviation Charges.

(1) Variations between actual net injection and scheduled net injection for the generating stations, and variations between actual net drawl and scheduled net drawl 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.(2) Actual net deviation of every Generating Station and Beneficiary shall be metered on its periphery through special energy meters (SEMs) installed by the Central Transmission Utility (CTU), and computed in MWh for each 15-minute time block by the concerned Regional Load Despatch Centre. Chapter - 12 Norms of Operation

48. Recovery of Tariff and Incentive.

(1)Recovery of capacity charge, energy charge, transmission charge and incentive by the generating company and the transmission licensee shall be based on the achievement of the operational norms specified in the Regulation 49 to Regulation 52 of these regulations.(2)The Commission may on its own revise the norms of Station Heat Rate specified in Regulation 49 (C) of these regulations in respect of any of the generating stations for which relaxed norms have been specified. Norms of operation for thermal generating station

49.

The norms of operation as given hereunder shall apply to thermal generating stations.(A)Normative Annual Plant Availability Factor (NAPAF)(a)For all thermal generating stations, except those covered under clauses (b), (c), (d), (e) - 85%; (b)For following Lignite-fired Thermal generating stations of NLC India Ltd:

TPS-I 72.00%

(c)For following Thermal Generating Stations of DVC:

Bokaro TPS 75.00%

Chandrapura TPS 75.00%

Durgapur TPS 74.00%

(d)For following Gas based Thermal Generating Stations of NEEPCO:

Assam GPS 72.00%

(e)For Lignite fired Generating Stations using Circulatory Fluidized Bed Combustion (CFBC) Technology and Generating stations based on coal rejects:

1. First Three years from the date of commercial operation - 75%

2. For next year after completion of three years of the date of commercial operation - 80%

(B)Normative Annual Plant Load Factor (NAPLF) for Incentive:(a)For all thermal generating stations, except those covered under clauses (b), (c) - 85%;(b)For following Lignite-fired Thermal generating stations of NLC India Ltd:

TPS-I 75%

(c) For following Thermal Generating Stations of Damodar Valley Corporation (DVC):

Bokaro TPS 80%

Chandrapura TPS 80%

Durgapur TPS 80%

(C)Gross Station Heat Rate:(a)Existing Thermal Generating Stations(i)For existing Coal-based Thermal Generating Stations, other than those covered under clauses (ii) and (iii) below:

200/210/250 MW Sets 500 MW Sets (Sub-critical)

2,430kCal/kWh 2,390kCal/kWh

Note 1. - In respect of 500 MW and above units where the boiler feed pumps are electrically operated, the gross station heat rate shall be 40 kCal/kWh lower than the gross station heat rate specified above.Note 2. - For the generating stations having combination of 200/210/250 MW sets and 500 MW and above sets, the normative gross station heat rate shall be the weighted average gross station heat rate of the combinations.Note 3. - The normative gross station heat rate above is exclusive of the compensation specified in Regulation 6.3 B of the Grid Code. The generating company shall, based on unit loading factor, consider the compensation in addition to the normative gross heat rate above.Note 4. - The gross station heat rate for the unit capacity of less than 200 MW sets, shall be dealt on case to case basis.(ii)For following Thermal generating stations of NTPC Ltd:

Talcher TPS 2,830 kCal/kWh

Tanda TPS 2,750 kCal/kWh

(iii)For Thermal Generating Stations of Damodar Valley Corporation (DVC):

Bokaro TPS 2,700 kCal/kWh

Chandrapura TPS (Unit 3) 3,000 kCal/kWh

Durgapur TPS 2,750 kCal/kWh

(iv)For Lignite-fired Thermal Generating Stations: For lignite-fired thermal generating stations, except for TPS-I and TPS-II (Stage I II) of NLC India Ltd, the gross station heat rates specified under sub-clause (i) for coal-based thermal generating stations shall be applied with correction, using multiplying factors as given below:(a)For lignite having 50% moisture: 1.10(b)For lignite having 40% moisture: 1.07(c)For lignite having 30% moisture: 1.04For other values of moisture content, multiplying factor shall be pro-rated for moisture content between 30-40% and 40-50% depending upon the rated values of multiplying factor for the respective range given under subclauses (a) to (c) above.(v)TPS-I and TPS-II (Stage I II) of NLC India Ltd:

TPS-I : 4,000 kCal/kWh
TPS-II : 2,890 kCal/kWh
TPS-I (Expansion) : 2,720 kCal/kWh

(vi)Open Cycle Gas Turbine/Combined Cycle Generating Stations: For the following gas based thermal generating stations:

Name of generating station Combined cycle (kCal/kWh) Open Cycle (kCal/kWh)

Gandhar GPS	2040	2960
Kawas GPS	2050	3010
Anta GPS	2075	3010
Dadri GPS	2000	3010
Auraiya GPS	2100	3045
Faridabad GPS	1975	2900
Kayamkulam GPS	2000	2900
Assam GPS	2600	3578
Agartala GPS	2600	3578

Ratnagiri 1820 2641

(b)Thermal Generating Stations achieving COD on or after 1.4.2009:(i)For Coal-based and lignite-fired Thermal Generating Stations:1.05X 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/cm2)	150	170		170	
SHT/RHT (oC)	535/535	537/537		537/565	
Type of BFP	Electrical Driv	en Turbine I	riven	Turbine Di	riven
Max Turbine Heat Rate (kCal/kWh)	1955	1950		1935	
Min. Boiler Efficiency					
Sub-Bituminous Indian Coal	0.86	0.86		0.86	
Bituminous Imported Coal	0.89	0.89		0.89	
Max. Design Heat Rate (kCal/kWh)					
Sub-Bituminous Indian Coal	2273	2267		2250	
Bituminous Imported Coal	2197	2191		2174	
Pressure Rating (Kg/cm2)	247	247	27	0	270
SHT/RHT (oC)	537/565	565/593	59	3/593	600/600
Type of BFP	Turbine	Turbine	Tu	ırbine	Turbine
Type of BM	Driven	Driven	Dr	riven	Driven
Max Turbine Heat Rate	1900	1850	18	10	1800
(kCal/kWh)	1,00	1000	10		1000
Min. Boiler Efficiency					
Sub-Bituminous Indian Coal	0.86	0.86	0.8	87	0.87
Bituminous Imported Coal	0.89	0.89	0.9	9	0.9
Max. Design Heat Rate (kCal/kWh)					
Sub-Bituminous Indian Coal	2222	2151	21	05	2081
Bituminous Imported Coal	2135	2078	20	34	2022
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Provided further that in case pressure and temperature parameters of a unit are different from above ratings, the maximum design heat rate of the unit of the nearest class shall be taken:Provided also that where heat rate of the unit has not been guaranteed but turbine cycle heat rate and boiler efficiency are guaranteed separately by the same supplier or different suppliers, the design heat rate of the unit shall be arrived at by using guaranteed turbine cycle heat rate and boiler efficiency:Provided also that where the boiler efficiency is lower than 86% for Sub-bituminous Indian coal and 89% for bituminous imported coal, the same shall be considered as 86% and 89% for Sub-bituminous Indian coal and bituminous imported coal respectively, for computation of station heat rate:Provided also that maximum turbine cycle heat rate shall be adjusted for type of dry cooling system:Provided also that in case of coal based generating station if one or more generating units were declared under commercial operation prior to 1.4.2019, the heat rate norms

for those generating units as well as generating units declared under commercial operation on or after 1.4.2019 shall be lowest of the heat rate norms considered by the Commission during tariff period 2014-19 or those arrived at by above methodology or the norms as per the sub clause (C)(a)(i) of this Regulation: Provided also that in case of lignite-fired generating stations (including stations based on CFBC technology), maximum design heat rates shall be increased using factor for moisture content given in sub-clause (C)(a)(iv) of this Regulation:Provided also that for Generating stations based on coal rejects, the Commission shall approve the Station Heat Rate on case to case basis. Note. - In respect of generating units where the boiler feed pumps are electrically operated, the maximum design heat rate of the unit shall be 40 kCal/kWh lower than the maximum design heat rate of the unit specified above with turbine driven Boiler Feed Pump.(c)For Gas-based/ Liquid-based Thermal Generating Unit(s)/ Block(s) having COD on or after 1.4.2009:For Natural Gas = 1.050 X Design Heat Rate of the unit/block (kCal/kWh)For RLNG =1.071 X Design Heat Rate of the unit/block for Liquid Fuel (kCal/kWh)Where the Design Heat Rate of a unit shall mean the guaranteed heat rate for a unit at 100% MCR and at site ambient conditions; and the Design Heat Rate of a block shall mean the guaranteed heat rate for a block at 100% MCR, site ambient conditions, zero percent make up, design cooling water temperature/back pressure.(D)Secondary Fuel Oil Consumption:(a)For Coal-based generating stations other than at (c) below: 0.50 ml/kWh(b)(i)For Lignite-fired generating stations except TPS-I: 1.0 ml/kWh(ii)For TPS-I: 1.5 ml/kWh(c)For Coal-based generating stations of DVC:

Bokaro TPS 1.5 ml/kWh Chandrapur TPS 1.5 ml/kWh Durgapur TPS 2.4 ml/kWh

(d)For Generating Stations based on Coal Rejects: 2.0 ml/kWh(E)Auxiliary Energy Consumption:(a)For Coal-based generating stations except at (b) below:

S. No.	Generating Station	With Natural Draft cooling tower or withoutcooling tower			
(i)	200 MW series	8.50%			
(ii)	300 MW and above				
	Steam driven boiler feed pumps	5.75%			
	Electrically driven boiler feed	8.00%			
	pumps	0.00/0			

Provided that for thermal generating stations with induced draft cooling towers and where tube type coal mill is used, the norms shall be further increased by 0.5% and 0.8% respectively:Provided further that Additional Auxiliary Energy Consumption as follows shall be allowed for plants with Dry Cooling Systems:

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

Note: The auxiliary energy consumption for the unit capacity of less than 200 MW sets shall be dealt on case to case basis.(b)For other Coal-based generating stations:

(i) Talcher Thermal Power Station 10.50%(ii) Tanda Thermal Power Station 11.50%

(iii) Bokaro Thermal Power Station 10.25%

(iv) Chandrapur Thermal Power Station 9.50%

(v) Durgapur Thermal Power Station 10.50%

(c)For Gas Turbine /Combined Cycle generating stations:

(i) Combined Cycle : 2.75%(ii) Open Cycle : 1.00%

Provided that where the gas based generating station is using electric motor driven Gas Booster Compressor, the Auxiliary Energy Consumption in case of Combine Cycle mode shall be 3.30% (including impact of air-cooled condensers for Steam Turbine Generators): Provided further that an additional Auxiliary Energy Consumption of 0.35% shall be allowed for Combine Cycle Generating Stations having direct cooling air cooled condensers with mechanical draft fans.(d)For Lignite-fired thermal generating stations:(i)For all generating stations with 200 MW sets and above: The auxiliary energy consumption norms shall be 0.5 percentage point more than the auxiliary energy consumption norms of coal-based generating stations at (E) (a) above. Provided that for the lignite fired stations using CFBC technology, the auxiliary energy consumption norms shall be 1.5 percentage point more than the auxiliary energy consumption norms of coal-based generating stations at (E) (a) above.(ii)For Barsingsar Generating station of NLC using CFBC technology: 12.50%(iii)For TPS-I, TPS-I (Expansion) and TPS-II Stage-III of NLC India Ltd.:

TPS-I 12.00%
TPS-II 10.00%
TPS-I (Expansion) 8.50%

(iv)Limestone consumption for lignite-based generating station using CFBC technology:

Barsingsar : 0.056 kg/kWh TPS-II (Expansion) : 0.046 kg/kWh

(e)For Generating Stations based on coal rejects: 10%

50. Norms of Operation for Hydro Generating Stations.

- The norms of operation as given hereunder shall apply to hydro generating station:(A)Normative Annual Plant Availability Factor (NAPAF): (1) The following normative annual plant availability factor (NAPAF) shall apply to hydro generating station:(a)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%;(b)In case of storage and pondage type plants with head variation between full reservoir level and minimum draw down level is 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;(c)Pondage type plants where plant availability is significantly affected by silt: 85%.Run-of-river generating stations: NAPAF to be determined plant-wise, based on 10-day design energy data, moderated by past experience where available/relevant.(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.(3)A further allowance of 5% may be allowed for difficulties in North East Region.(4)Based on the above, the Normative annual plant availability factor (NAPAF) of the hydro generating stations already in operation shall be as follows:-

Station	Type of Plant	Plant Capacity No. of Units x MW	NAPAF (%)
THDC			
THDC Stage I	Storage	4x250	80
KHEP	Storage	4x100	68
NHPC			
Bairasul	Pondage	3x60	90
Loktak	Pondage	3x35	88
Salal	ROR	6x115	64
Tanakpur	ROR	3x31.4	59
Chamera-I	Pondage	3x180	90
Uri I	ROR	4x120	74
Rangit	Pondage	3x20	90
Chamera-II	Pondage	3x100	90
Dhauliganga	Pondage	4x70	78
Dulhasti	Pondage	3x130	90
Teesta-V	Pondage	3x170	87
Sewa-II	Pondage	3x40	89
TLDP III	Pondage	4x33	77
Chamera III	Pondage	3x77	87
Chutak	ROR	4x11	48
Nimmo Bazgo	Pondage	3x15	70
Uri II	ROR	4x60	70
Parbati III	Pondage	4x130	43
NHDC			
Indira Sagar	Storage	8x125	87
Omkareshwar	Pondage	8x65	90
NEEPCO			
Kopili I	Storage	4x50	69
Khandong	Storage	2x25	67
Kopili II	Storage	1x25	69

Doyang	Storage	3x25	70
Ranganadi	Pondage	3x135	88
NTPC			
Koldam	Storage	4x200	90
SJVNL			
Nathpa Jhakri	ROR	6x250	90
Rampur	ROR	6x68.67	85
DVC			
Panchet	Storage	2x40	80
Tilaya	Storage	2x2	80
Maithon	Storage	3x20	80
Teesta III	Pondage	6x200	85

(B)In case of pumped storage hydro generating stations, the quantum of electricity required for pumping water from down-stream reservoir to up-stream reservoir shall be arranged by the beneficiaries duly taking into account the transmission and distribution losses up to the bus bar of the generating station. In return, beneficiaries shall be entitled to equivalent energy of 75% of the energy utilized in pumping the water from the lower elevation reservoir to the higher elevation reservoir from the generating station during peak hours and the generating station shall be under obligation to supply such quantum of electricity during peak hours:Provided that in the event of the beneficiaries failing to supply the desired level of energy during off-peak hours, there will be pro-rata reduction in their energy entitlement from the station during peak hours:Provided further that the beneficiaries may assign or surrender their share of capacity in the generating station, in part or in full, or the capacity may be reallocated by the Central Government, and in that event, the owner or assignee of the capacity share shall be responsible for arranging the equivalent energy to the generating station in off-peak hours, and be entitled to corresponding energy during peak hours in the same way as the original beneficiary was entitled.(C)Auxiliary Energy Consumption (AEC):

Type of Statio	n	AEC

Installed Capacity above 200 MW Installed Capacity upto 200 MW

Surface

Rotating Excitation 0.70% 0.70%
Static 1.00% 1.20%
Underground

Rotating Excitation 0.90% 0.90% Static 1.20% 1.30%

Norms of operation for transmission system

51. Normative Annual Transmission System Availability Factor (NATAF).

(a)For recovery of Annual Fixed Cost, NATAF shall be as under:(1)AC system: 98.00%;(2)HVDC bi-pole links 95.00% and HVDC back-to-back stations: 95.00%:Provided that the normative annual transmission availability factor of the HVDC bi-pole links shall be 85%for first twelve months from the date of commercial operation.(b)For Incentive, NATAF shall be as under:(1)AC system: 98.50%;(2)HVDC bi-pole links and HVDC back-to-back Stations: 97.50%:Provided that no Incentive shall be payable for availability beyond 99.75%:Provided further that for AC system, actual outage hours shall be considered for computation of availability upto two trippings per year. After two trippings in a year, for every tripping, additional 12 hours outage shall be considered in addition to the actual outage hours:Provided also that in case of outage of a transmission element affecting evacuation of power from a generating station, outage hours shall be multiplied by a factor of 2.

52. Auxiliary Energy Consumption in the Sub-station.

(1)AC System: The charges for auxiliary energy consumption in the AC sub-station for the purpose of air-conditioning, lighting and consumption in other equipment shall be borne by the transmission licensee and included in the normative operation and maintenance expenses.(2)HVDC sub-station: For auxiliary energy consumption in HVDC sub-stations, the Central Government may allocate an appropriate share from one or more ISGS. The charges for such power shall be borne by the transmission licensee from the normative operation and maintenance expenses.Chapter - 13 Scheduling, Accounting and Billing

53. Scheduling.

- The methodology for scheduling and dispatch for the generating station shall be as specified in the Grid Code.

54. Metering and Accounting.

- For metering and accounting, the provisions of the Grid Code shall be applicable.

55. Billing and Payment of charges.

(1)Bills shall be raised for capacity charge and energy charge by the generating company and for transmission charge by the transmission licensee on monthly basis in accordance with these regulations, and payments shall be made by the beneficiaries or the long term customers directly to the generating company or the transmission licensee, as the case may be:Provided that the physical copy of the Bill in Original at the office of the Authorised Person of the beneficiary or long term customer, as the case may be, or the scanned copy of Original Bill through official email ID of the Authorised Signatory of the Generating Company or the Transmission Licensee, as the case may be, shall be recognized as valid mode of presentation of Bill:Provided further that Authorized 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 for the purpose, shall be communicated in the same manner. (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 charge and energy charge 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 or allocations of each beneficiary in the total capacity of Central sector generating stations shall be as determined by the Central 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. Based on the decision of the Central Government, the changes in allocation shall be communicated by the Member-Secretary, Regional Power Committee in advance, at least three days prior to beginning of a calendar month, except in case of an emergency calling for an urgent change in allocations out of unallocated capacity. The total capacity share of a 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 Central 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 within or outside the region. In such cases, depending upon the technical feasibility of power transfer and specific agreements reached by the generating company with other States within or outside the region for such transfers, the shares of the beneficiaries may be re-allocated by the Central 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) 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 Member Secretary, Regional Power Committee 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. Provided that in cases where the site of a hydro project is awarded to a developer, 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 month to every project affected family for a period of 10 years from the date of commercial operation.

56. Recovery of Statutory Charges.

- The generating company shall recover the statutory charges imposed by the State and Central Government such as electricity duty, water cess by considering normative parameters specified in

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

57. Sharing of Transmission Charges.

(1)The sharing of transmission charges shall be governed by the Sharing Regulations.(2)The charges determined under these regulations in relation to communication system forming part of transmission system shall be shared by the beneficiaries or long term customers in accordance with the Sharing Regulations:Provided that charges determined under these regulations in relation to communication system other than that of central portion shall be shared by the beneficiaries in proportion to the capital cost belonging to respective beneficiaries.

58. Rebate.

(1)For payment of bills of the generating company and the transmission licensee through letter of credit on presentation or through National Electronic Fund Transfer (NEFT) or Real Time Gross Settlement (RTGS) payment mode within a period of 5 days of presentation of bills by the generating company or the transmission licensee, a rebate of 1.50% 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 5th 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).(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 transmission licensee, a rebate of 1% shall be allowed.

59. Late payment surcharge.

- In case the payment of any bill for charges payable under these regulations is delayed by a beneficiary or long term customers as the case may be, beyond a period of 45 days from the date of presentation of bills, a late payment surcharge at the rate of 1.50% per month shall be levied by the generating company or the transmission licensee, as the case may be.Chapter - 14 Sharing of Benefits

60. Sharing of gains due to variation in norms.

(1)The generating company or the transmission licensee 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.(2)The financial gains by the generating company or the transmission licensee, as the case may be, on account of controllable parameters shall be shared between generating company or transmission licensee and the beneficiaries or long

term customers, as the case may be 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 Clause (1) of this Regulation shall be shared in the ratio of 50:50 between the generating stations and beneficiaries. Net Gain = (ECRN- ECRA) x Scheduled GenerationWhere, ECRN = Normative Energy Charge Rate computed on the basis of norms specified for Station Heat Rate, Auxiliary Energy Consumption and Secondary Fuel Oil consumption. ECRA = 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 %)/(100actual AEC in %)]}x [1.20 or ECR, whichever is lower]

61. Sharing of saving in interest due to re-financing or restructuring of loan.

(1)If re-financing or restructuring of loan by the generating company or the transmission licensee, as the case may be, 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 or the transmission licensee, as the case may be, in the ratio of 50:50.(2)In case of dispute, any of the parties may make an application in accordance with the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 for settlement of the dispute:Provided that the beneficiaries or the long term customers shall not withhold any payment on account of the interest claimed by the generating company or the transmission licensee during the pendency of any dispute arising out of re-financing of loan.

62. Sharing of Non-Tariff Income.

- The non-tariff net income in case of generating station and transmission system from rent of land or buildings, sale of scrap and advertisements shall be shared between the beneficiaries or the long term customers and the generating company or the transmission licensee, as the case may be, in the ratio 50:50.

63. Sharing of Clean Development Mechanism Benefits.

- 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 or the transmission system, as the case may be;(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 or the transmission licensee, as the case may be, and the beneficiaries.

64. Sharing of income from other business of transmission licensee.

- The income from other business of transmission licensee shall be shared with the long term customer in the manner as specified in the Central Electricity Regulatory Commission (Sharing of revenue derived from utilization of transmission assets for other business) Regulations, 2007.

Chapter 15 Miscellaneous Provisions

65. Operational Norms to be ceiling norms.

- Operational norms specified in these regulations are the ceiling norms and shall not preclude the generating company or the transmission licensee, as the case may be, and the beneficiaries and the long-term customers 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.

66. Deviation from ceiling tariff.

(1) The tariff determined in these regulations shall be a ceiling tariff. The generating company or the transmission licensee and the beneficiaries or the long-term customer, as the case may be, may mutually agree to charge a lower tariff.(2) The generating company or the transmission licensee, may opt to charge a lower tariff for a period not exceeding the validity of these regulations on agreeing to deviation from operational parameters, reduction in operation and maintenance expenses, reduced return on equity and incentive specified in these regulations.(3) If the generating company or the transmission licensee opts to charge a lower tariff for a 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 or the transmission licensee during useful life shall be allowed to be recovered after the useful life in these regulations.(4)The deviation from the ceiling tariff specified by the Commission, shall come into effect from the date agreed to by the generating company or the transmission licensee and the beneficiaries or the long-term customer, as the case may be. (5) The generating company and the beneficiaries of a generating station or the transmission licensee and the long term customer of transmission system shall be required to approach the Commission for charging lower tariff in accordance with clauses (1) to (3) above. The details of the accounts and the tariff actually charged under clauses (1) to (3) shall be submitted at the time of true up.

67. Deferred Tax liability with respect to previous tariff period.

- Deferred tax liabilities for the period upto 31st March, 2009 whenever they materialise shall be recoverable directly by the generating companies or transmission licensees from the then beneficiaries or long term customers, as the case may be. Deferred tax liabilities for the period arising from 1.4.2009 to 31.3.2014 if any, shall not be recoverable from the beneficiaries or the long term customers, as the case may be.

68. Hedging of Foreign Exchange Rate Variation.

(1)The generating company or the transmission licensee, as the case may be, may hedge foreign exchange exposure in respect of the interest and repayment of foreign currency loan taken for the generating station or the transmission system, in part or in full at their discretion.(2)If the petitioner enters into hedging arrangement(s) based on its approved hedging policy, the petitioner shall communicate to the beneficiaries concerned, of entering into such arrangement(s) within thirty days.(3)Every generating company and transmission licensee 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.(4)To the extent the generating company or the transmission licensee 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 the transmission licensee or its suppliers or contractors.

69. Recovery of cost of hedging or Foreign Exchange Rate Variation (FERV).

(1)Every generating company and the transmission licensee 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.(2)Recovery of cost of hedging or foreign exchange rate variation shall be made directly by the generating company or the transmission licensee, as the case may be, from the beneficiaries or the long term customers, as the case may be, without making any application before the Commission:Provided that in case of any objections by the beneficiaries or the long term customers, as the case may be, to the amounts claimed on account of cost of hedging or foreign exchange rate variation, the generating company or the transmission licensee, as the case may be, may make an appropriate application before the Commission for its decision.

70. Application fee and the publication expenses.

- The following fees, charges and expenses shall be reimbursed directly by the beneficiary in the manner specified herein:(1)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 or the transmission licensee, as the case may be, directly

from the beneficiaries or the long term customers, as the case may be.(2) The following fees and charges shall be reimbursed directly by the beneficiaries in proportion of their allocation in the generating stations or by the long term customers in proportion to their share in the inter-State transmission systems determined in accordance with the Central Electricity Regulatory Commission (Sharing of inter-State Transmission Charges and Losses) Regulations, 2010, as amended from time to time.(3)Fees and charges paid by the generating companies and inter-State transmission licensees (including deemed inter-State transmission licensee) under the Central Electricity Regulatory Commission (Fees and Charges of Regional Load Despatch Centre and other related matters) Regulations, 2009, as amended from time to time or any subsequent amendment thereof.(4)Licence fees paid by the inter-State transmission licensees (including the deemed inter-State transmission licensee) in terms of Central Electricity Regulatory Commission (Payment of Fees) Regulations, 2012.(5) Licence fees paid by NHPC Ltd to the State Water Resources Development Authority, Jammu in accordance with the provisions of Jammu Kashmir Water Resources (Regulations and Management) Act, 2010.(6)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.

71. Special Provisions relating to NLC India Limited.

- The tariff of the existing generating stations of NLC India Ltd, namely, TPS-I and TPS-II (Stage I II) and TPS-I (Expansion), whose tariff for the tariff periods 2004-09, 2009-14 and 2014-19 has been determined by following the Net Fixed Assets approach, shall continue to be determined by adopting Net Fixed Assets approach.

72. Special Provisions relating to Damodar Valley Corporation.

(1)Subject to clause (2), this Regulation shall apply to determination of tariff of the projects owned by Damodar Valley Corporation (DVC).(2)The following special provisions shall apply for determination of tariff of the projects owned by DVC:(i)Capital Cost: The expenditure allocated to the object 'power', in terms of sections 32 and 33 of the Damodar Valley Corporation Act, 1948, to the extent of its apportionment to generation and inter-state transmission, shall form the basis of capital cost for the purpose of determination of tariff:Provided that the capital expenditure incurred on head office, regional offices, administrative and technical centers of DVC, after due prudence check, shall also form part of the capital cost.(ii)Debt Equity Ratio: The debt equity ratio of all projects of DVC commissioned prior to 01.01.1992 shall be 50:50 and that of the projects commissioned thereafter shall be 70:30.(iii)Depreciation: The depreciation rate stipulated by the Comptroller and Auditor General of India in terms of section 40 of the Damodar Valley Corporation Act, 1948 shall be applied for computation of depreciation of projects of DVC.(iv)Funds under section 40 of the Damodar Valley Corporation Act, 1948: The Fund(s) established in terms of section 40 of the Damodar Valley Corporation Act, 1948 shall be considered as items of expenditure to be recovered through tariff.

73. Special Provisions relating to BBMB and SSP.

- The tariff of generating station and the transmission system of Bhakra Beas Management Board (BBMB) and Sardar Sarovar Project (SSP) shall be determined after taking into consideration, the provisions of the Punjab Reorganization Act, 1996 and Narmada Water Scheme, 1980 under Section 6-A of the Inter-State Water Disputes Act, 1956, respectively.

74. Special Provisions Relating to Certain Inter-State Generation Projects.

- The tariff of generating station and the transmission system of Indira Sagar generation project and such other inter-state generation projects shall be determined on case to case basis.

75. Transmission Majoration Factor.

- Transmission Majoration Factor admissible for the transmission projects executed through JV route in terms of Regulation 4.10A of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2001 shall be available for a period of 25 years from the date of issue of the transmission licence.

76. Power to Relax.

- 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.

77. Power to Remove Difficulty.

- 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. Appendix IDepreciation Schedule

		Depreciation
Sr. No.	Asset Particulars	Rate(Salvage
		Value=10%)
		SLM
A	Land under full ownership	0.00%
В	Land under lease	
(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%

C Assets purchased new

a.	P1 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-generating stations	
(i)	Dams, Spillways, Weirs, Canals, Reinforced concrete flumes andsiphons	5.28%
(ii)	Reinforced concrete pipelines and surge tanks, steelpipelines, sluice gates, steel surge tanks, hydraulic controlvalves 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	100.00%
(v)	Roads other than Kutcha roads	3.34%
(vi)	Others	3.34%
e.	Transformers, Kiosk, sub-station equipment other fixedapparatus (including plant	
e. (i)		5.28%
	(including plant	5.28% 5.28%
(i)	(including plant Transformers including foundations having rating of 100 KVAand over	
(i) (ii)	(including plant Transformers including foundations having rating of 100 KVAand over Others	5.28%
(i) (ii) f.	(including plant Transformers including foundations having rating of 100 KVAand over Others Switchgear including cable connections	5.28%
(i) (ii) f. g.	(including plant Transformers including foundations having rating of 100 KVAand over Others Switchgear including cable connections Lightning arrestor	5.28% 5.28%
(i) (ii) f. g. (i)	(including plant Transformers including foundations having rating of 100 KVAand over Others Switchgear including cable connections Lightning arrestor Station type	5.28%5.28%5.28%
(i) (ii) f. g. (i) (ii)	(including plant Transformers including foundations having rating of 100 KVAand over Others Switchgear including cable connections Lightning arrestor Station type Pole type	5.28% 5.28% 5.28% 5.28%
(i) (ii) f. g. (i) (ii) (iii) h.	(including plant Transformers including foundations having rating of 100 KVAand over Others Switchgear including cable connections Lightning arrestor Station type Pole type Synchronous condenser Batteries	5.28% 5.28% 5.28% 5.28% 5.28% 5.28%
(i) (ii) f. g. (i) (ii) (iii) h.	(including plant Transformers including foundations having rating of 100 KVAand over Others Switchgear including cable connections Lightning arrestor Station type Pole type Synchronous condenser Batteries Underground cable including joint boxes and disconnected boxes	5.28% 5.28% 5.28% 5.28% 5.28% 5.28%
(i) (ii) f. g. (i) (ii) (iii) h.	(including plant Transformers including foundations having rating of 100 KVAand over Others Switchgear including cable connections Lightning arrestor Station type Pole type Synchronous condenser Batteries	5.28% 5.28% 5.28% 5.28% 5.28% 5.28%
(i) (ii) f. g. (i) (ii) (iii) h.	(including plant Transformers including foundations having rating of 100 KVAand over Others Switchgear including cable connections Lightning arrestor Station type Pole type Synchronous condenser Batteries Underground cable including joint boxes and disconnected boxes	5.28% 5.28% 5.28% 5.28% 5.28% 5.28%
(i) (ii) f. g. (i) (ii) (iii) h. (i) (ii)	(including plant Transformers including foundations having rating of 100 KVAand over Others Switchgear including cable connections Lightning arrestor Station type Pole type Synchronous condenser Batteries Underground cable including joint boxes and disconnected boxes Cable duct system	5.28% 5.28% 5.28% 5.28% 5.28% 5.28%

Lines on fabricated steel operating at terminal voltageshigher than 66 KV

(ii)	Lines on steel supports operating at terminal voltages higherthan 13.2 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%
		001
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 fiitings	5.28%
n.	Apparatus let on hire	
(i)	Other than motors	9.50%
(ii)	Motors	6.33%
0.	Communication equipment	
(i)	Radio and high frequency carrier system	6.33%
(-)		0.00/0
(ii)	Telephone lines and telephones	6.33%
(iii)	Fibre Optic	6.33%
p .	I.T. Equipment including software	15.00%
	Annually an amedian of accountable and	00/

Note. - Where life of the particular asset is less than useful life of the project, the useful life of such particular asset shall be considered as per the provisions of the Companies Act, 2013 and subsequent amendment thereto. Appendix-II Procedure for Calculation of Transmission System Availability Factor for a Month

q.

Any other assets not covered above

5.28%

- 1. Transmission system availability factor for nth calendar month (TAFPn) shall be calculated by the respective transmission licensee, got verified by the concerned Regional Load Dispatch Centre (RLDC) and certified by the Member-Secretary, Regional Power Committee of the region concerned, separately for each AC and HVDC transmission system and grouped according to sharing of transmission charges. In case of AC system, transmission System Availability shall be calculated separately for each Regional Transmission System and interregional transmission system. In case of HVDC system, transmission System Availability shall be calculated on consolidate basis for all inter-state HVDC system.
- 2. Transmission system availability factor for nth calendar month (TAFPn) shall be calculated by consider following:

(i)AC transmission lines: Each circuit of AC transmission line shall be considered as one element; (ii)Inter-Connecting Transformers (ICTs): Each ICT bank (three single phase transformer together) shall form one element; (iii)Static VAR Compensator (SVC): SVC along with SVC transformer shall form one element; (iv)Bus Reactors or Switchable line reactors: Each Bus Reactors or Switchable line reactors shall be considered as one element; (v)HVDC Bi-pole links: Each pole of HVDC link along with associated equipment at both ends shall be considered as one element; (vi)HVDC back-to-back station: Each block of HVDC back-to-back station shall be considered as one element. If associated AC line (necessary for transfer of inter- regional power through HVDC back-to-back station) is not available, the HVDC back-to-back station block shall also be considered as unavailable; (vii)Static Synchronous Compensation (STATCOM): Each STATCOM shall be considered as separate element.

3. The Availability of AC and HVDC portion of Transmission system shall be calculated by considering each category of transmission elements as under:

% TAFM for AC system:

 $= \mid o \ X \ AVo) + (p \ X \ AVp) + (q \ X \ AVq) + (r \ X \ AVr) + (u \ X \ AVu)(o + p + q + r + u) \mid x \ 100$ Where, $o = Total \ number \ of \ AC \ lines. AVo = Availability \ of \ o \ number \ of \ AC \ lines. p = Total \ number \ of \ bus \ reactors/switchable \ line \ reactors/switchable \ line \ reactors = Total \ number \ of \ ICTs. AVq = Availability \ of \ q \ number \ of \ ICTs. r = Total \ number \ of \ SVCs. AVr = Availability \ of \ r \ number \ of \ SVCsu = Total \ number \ of \ STATCOM. AVu = Availability \ of \ u \ number \ of \ STATCOMSTAFMn \ (in \%) \ for \ HVDC \ System:$

= | Lsx=1 Cxbp(act) XAV xbp+ Lly=1 Cy (act) btb XAV ybtb Lsx=1 Cxbp+Lly=1Cybtb | x 100 WhereCxbp(act) = Total actual operated capacity of xth HVDC poleCxbp = Total rated capacity of xth HVDC poleAVxbp = Availability of xth HVDC poleCybtb(act) = Total actual operated capacity of yth HVDC back-to-back station blockCybtb = Total rated capacity of yth HVDC back-to-back station

blockAVybtb = Availability of yth HVDC back-to-back station blocks = Total no of HVDC polest = Total no of HVDC Back to Back blocks

3. The availability for each category of transmission elements shall be calculated based on the weightage factor, total hours under consideration and non-available hours for each element of that category. The formulae for calculation of Availability of each category of the transmission elements are as per Appendix-III. The weightage factor for each category of transmission elements shall be considered asunder:

(a)For each circuit of AC line Number of sub-conductors in the line multiplied by ckt-km;(b)For each HVDC pole- The rated MW capacity x ckt-km;(c)For each ICT bank The rated MVA capacity;(d)For SVC- The rated MVAR capacity (inductive and capacitive);(e)For Bus Reactor/switchable line reactors The rated MVAR capacity;(f)For HVDC back-to-back station connecting two Regional grids- Rated MW capacity of each block; and(g)For STATCOM Total rated MVAR Capacity.

4. The transmission elements under outage due to following reasons shall be deemed to be available:

i. Shut down availed for maintenance of another transmission scheme or construction of new element or renovation/upgradation/additional capitalization in existing system approved by the Commission. If the other transmission scheme belongs to the transmission licensee, the Member-Secretary, RPC may restrict the deemed availability period to that considered reasonable by him for the work involved. In case of dispute regarding deemed availability, the matter may be referred to Chairperson, CEA within 30 days.ii. Switching off of a transmission line to restrict over voltage and manual tripping of switched reactors as per the directions of concerned RLDC.

5. For the following contingencies, outage period of transmission elements, as certified by the Member Secretary, RPC, shall be excluded from the total time of the element under period of consideration for the following contingencies:

(i)Outage of elements due to acts of God and force majeure events beyond the control of the transmission licensee. However, whether the same outage is due to force majeure (not design failure) will be verified by the Member Secretary, RPC. A reasonable restoration time for the element shall be considered by Member Secretary, RPC and any additional time taken by the transmission licensee for restoration of the element beyond the reasonable time shall be treated as outage time attributable to the transmission licensee. Member Secretary, RPC may consult the transmission licensee or any expert for estimation of reasonable restoration time. Circuits restored through ERS (Emergency Restoration System) shall be considered as available; (ii)Outage caused by grid incident/disturbance not attributable to the transmission licensee, e.g. faults in substation or bays

owned by other agency causing outage of the transmission licensee s elements, and tripping of lines, ICTs, HVDC, etc. due to grid disturbance. However, if the element is not restored on receipt of direction from RLDC while normalizing the system following grid incident/disturbance within reasonable time, the element will be considered not available for the period of outage after issuance of RLDC s direction for restoration; Provided that in case of any disagreement with the transmission licensee regarding reason for outage, same may be referred to Chairperson, CEA within 30 days. The above need to be resolved within two months: Provided further that where there is a difficulty or delay beyond sixty days, from the incidence in finalizing the recommendation, the Member Secretary of concerned RPC shall allow the outage hours on provisional basis till the final view.

6. Time frame for certification of transmission system availability: (1) Following schedule shall be followed for certification of availability by Member Secretary of concerned RPC:

• Submission of outage data by Transmission Licensees to RLDC/ constituents By 5th of the following month;• Review of the outage data by RLDC / constituents and forward the same to respective RPC by 20th of the month;• Issue of availability certificate by respective RPC by 3rd of the next month. Appendix-IIIFormulae for Calculation of Availability of each Category of Transmission ElementsFor AC transmission system

```
AVo(Availability of o no. of AC lines) = | □Di=1Wi(Ti-TNAi)/Ti□oi=1Wi|
AVq(Availability of q no. of ICTs) = | \Box qk=1Wk(Tk-TNAk)/Tk \Box qk=1Wk|
AVr(Availability of r no. of SVCs) = | \Box I = 1WI(TI-TNAI)/TI \Box I = 1WI|
AVp(Availability of p no. of Switched Bus reactors) = | □pm=1Wm(Tm-TNAm)/Tm□pm=1Wm|
AVu(Availability of u no. of STATCOMs) = | □lin=1Wn(Tn-TNAn)/Tn□lin=1Wn|
AVxbp(Availability of an individual HVDC pole) = | (Tx-TNAx)Tx|
AVybtb (Availability of an individual HVDC Back-to-back Blocks) = | (Ty-TNAy)Ty|
For HVDC transmission systemFor the new HVDC commissioned but not completed twelve
months; For first 12 months: [(AVxbp or AVybtb)x95%/85%], subject to ceiling of 95%. Where, o =
Total number of AC lines; AVo = Availability of o number of AC lines; p = Total number of bus
reactors/switchable line reactors; AVp = Availability of p number of bus reactors/switchable line
reactors; q = Total number of ICTs; AVq = Availability of q number of ICTs; r = Total number of
SVCs;AVr = Availability of r number of SVCs;.U = Total number of STATCOM;AVu = Availability of
u number of STATCOMs; Wi = Weightage factor for ith transmission line; Wk = Weightage factor for
kth ICT;Wl = Weightage factors for inductive capacitive operation of lth SVC;Wm = Weightage
factor for mth bus reactor; Wn = Weightage factor for nth STATCOM. Ti, , Tk, Tl, , - The total hours
of ith AC line, kth ICT, lth SVC, mth Switched Bus ReactorTm, Tn, Tx, Ty nth STATCOM, xth HVDC
pole, yth HVDC back-to-back blocks during the period under consideration (excluding time period
for outages not attributable to transmission licensee for reasons given in Para 5 of the
procedure)TNAi, TNAk - The non-availability hours (excluding the time period for outages not
TNAl, TNAm, attributable to transmission licensee taken as deemed availability as TNAi, TNAi,
TNAy per Para 5 of the procedure) for ith AC line, kth ICT, lth SVC, mth SwitchedBus Reactor, nth
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STATCOM, xth HVDC pole and yth HVDC back-to-back block .Tariff Filing Forms (Thermal)For Determination of TariffMain Tariff FormPart-I Annexure-IChecklist of Main Tariff Forms and other information for tariff filing for Thermal Stations

	on for tariff filing for Thermal Stations	i roinis and
	Title of Tariff Filing Forms (Thermal)	Tick
Form- 1	Summary of Tariff	
Form -1	(I) Statement showing claimed capital cost	
Form -1	(II) Statement showing Return on Equity	
Form-2	Plant Characteristics	
Form-3	Normative parameters considered for tariffcomputations	
Form- 4	Details of Foreign loans	
Form- 4A	Details of Foreign Equity	
Form-5	Abstract of Admitted Capital Cost for the existing Projects	
Form- 6	Financial Package upto COD	
Form- 7	Details of Project Specific Loans	
Form-8	Details of Allocation of corporate loans tovarious projects	
Form-9	Statement of Additional Capitalisation after COD	
Form-	10 Financing of Additional Capitalisation	
Form-	11 Calculation of Depreciation on original project cost	
Form-	12 Statement of Depreciation	
Form-	13 Calculation of Weighted Average Rate ofInterest on Actual Loans	
Form-	14 Draw Down Schedule for Calculation of IDCFinancing Charges	
Form-	15 Details of Fuel for Computation of EnergyCharges1	
Form-	16 Details of Limestone for Computation of Energy Charge Rate	
Form-17	Details of Capital Spares	
Form- 18	Non-Tariff Income	
Form-19	Details of Water Charges	
Form-20	Details of Statutory Charges	
	of Supporting Forms / documents for tariff filing for Thermal Stations	
Form No.	Title of Tariff Filing Forms (Thermal)	Tick
Form-A	Abstract of Capital Cost Estimates	
Form-B	Break-up of Capital Cost for Coal/Lignite basedprojects	
Form-C	Break-up of Capital Cost for Gas/Liquid fuelbased Projects	
Form-D	Break-up of Construction/Supply/Service packages	
Form-E	Details of variables , parameters , optionalpackage etc. for New Project	
Form-F	Details of cost over run	
Form-G	Details of time over run	
Form –H	Statement of Additional Capitalisation duringend of the useful life	

Form –I Details of Assets De-capitalised during theperiod

- Form –J Reconciliation of Capitalisation claimedvis-à-vis books of accounts
- Form -K Statement showing details of items/assets/worksclaimed under Exclusions
- Form-L Statement of Capital cost
- Form-M Statement of Capital Woks in Progress
- Form-N Calculation of Interest on Normative Loan
- Form-O Calculation of Interest on Working Capital
- Form-P Incidental Expenditure up to SCOD and up to Actual COD
- Form-Q Expenditure under different packages up to SCODand up to Actual COD
- Form-R Actual cash expenditure
- Form-S Statement of Liability flow
- Form-T Summary of issues involved in the petition

List of supporting documents for tariff filing for Thermal Stations

S. No. Information / Document

Tick

- Certificate of incorporation, Certificate for Commencement of Business, Memorandum of
- 1 Association, Articles of Association (For New Station setup by a companymaking tariff application for the first time to CERC)
 - A. Station wise and Corporate audited BalanceSheet and Profit Loss Accounts with all the Schedulesannexures on COD of the Station for the new station for therelevant years B Station wise and Corporate audited BalanceSheet and Profit Loss Accounts with
- years.B.Station wise and Corporate audited BalanceSheet and Profit Loss Accounts with all the Schedulesannexures for the existing station for relevant years.
- 3 Copies of relevant loan Agreements
- 4 Copies of the approval of Competent Authority for the Capital Cost and Financial package.
- Copies of the Equity participation agreements and necessary approval for the foreign equity.
- 6 Copies of the BPSA/PPA with the beneficiaries, if any
 - Detailed note giving reasons of cost and timeover run, if applicable. List of supporting
- documents to be submitted:a. Detailed Project Reportb. CPM Analysisc. PERT Chart and Bar Chartd. Justification for cost and time Overrun
 - Generating Company shall submit copy of CostAudit Report along with cost accounting records, cost details, statements, schedules etc. for the Generating Unit wise /stagewise/Station wise/ and subsequently consolidated at Company levelas 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 2021-22 and for balance period of tariff period 2019-24 at the time offinal true-up in 2024-25. In case of initial tariff filing thelatest available Cost Audit Report should be furnished.
- 9 Any other relevant information, (Please specify)
- Reconciliation with Balance sheet of any actual additional capitalization and amongst stages of a generating station

11

BBMB is maintaining the records as per therelevant applicable Acts. Formats specified herein may not besuitable to the available information with BBMB. BBMB may modifythe formats suitably as per available information to them forsubmission 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-I Form- 1Summary of TariffName of the Petitioner _______Name of the Generating

	ite and shall also be furnished e Petitioner	-	•				ry of Tari Generatii	
Station:Place (Region/District/State):					O			
S. No.	Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8	9
1.1	Depreciation	Rs Lakh						
1.2	Interest on Loan	Rs Lakh						
1.3	Return on Equity1	Rs Lakh						
1.4	Interest on Working Capital	Rs Lakh						
1.5	OM Expenses	Rs Lakh						
1.6	Special Allowance (If applicable)	Rs Lakh						
1.7	Compensation Allowance (If applicable –relevant for column 4 only)	Rs. Lakh						
	Total	Rs Lakh						
2.1	Landed Fuel Cost (coal/gas/RLNG/ liquid) as perFSA approved by beneficiaries	Rs/Ton						
	(%) of Fuel Quantity	(%)						
2.2	Landed Fuel Cost Imported Coal as per FSAapproved by beneficiaries							
	(%) of Fuel Quantity							
2.3	Landed Fuel Cost (coal/gas /RLNG/liquid) otherthan FSA	Rs/Ton						
	(%) of Fuel Quantity	(%)						
2.4	Landed Fuel Cost Imported Coal other than FSA.							
	(%) of Fuel Quantity	D /77 1						
2.5	Secondary fuel oil cost	Rs/Unit						

Energy Charge Rate ex-bus (Paise/kWh) 2A, 2B,2C, 2D Rs/Unit

(Petitioner)Note: - 1. Details of calculations, considering equity as per regulation, to be furnished.

- 2A. If multi fuel is used simultaneously, give 2 in respect of every fuel individually.
- 2B. The rate of energy charge shall be computed for open cycle operation and combined cycle operation separately in case of gas/liquid fuel fired plants.
- 2C. The total energy charge shall be worked out based on ex-bus energy scheduled to be sent out.
- 2D. The Energy Charge rate for the month shall be based on fuel cost(s) and GCV(s) for the month as per Regulation 43.
- 2E. In case breakup is not available for 2.1 to 2.5, consolidated statement needs to be submitted.

Part-I	Form-1(I)Name of the Petitioner					_Name		
of the Generating Station:					atement s	howing		
claime	d capital cost (A+B)							
~	- · · ·							
S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	4	5	6	7		
1	Opening Capital Cost							
2	Add: Addition during the year/period							
3	Less: De-capitalisation 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							
Statem	nent showing claimed capital cost eligible for Ro	E at norn	nal rate (A	A)				
S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	4	5	6	7		
1	Opening Capital Cost							
2	Add: Addition during the year/period							
3	Less: De-capitalisation during the year/period							

Less: Reversal during the year / period 4 Add: Discharges during the year/period 5 6 **Closing Capital Cost Average Capital Cost** Statement showing claimed capital cost eligible for RoEat weighted average rate of interest on actual loan portfolio (B) S. No. Particulars 2019-20 2020-21 2021-22 2022-23 2023-24 1 5 7 4 **Opening Capital Cost** 1 Add: Addition during the year/period 2 Less: De-capitalisation during the year/period 3 Less: Reversal during the year / period 4 Add: Discharges during the year/period 5 6 **Closing Capital Cost Average Capital Cost** (Petitioner)Part 1 Form-1(IIA)Name of the Petitioner Name of the Generating Station: Statement showing Return on Equity at Normal Rate: Sr Particulars 2019-20 2020-21 2021-22 2022-23 2023-24 6 2 4 5 7 3 Return on Equity 1 Gross Opening Equity (Normal) 2 Less: Adjustment in Opening Equity 3 Adjustment during the year 4 Net Opening Equity (Normal) Add: Increase in equity due to addition duringthe 5 year / period Less: Decrease due to De-capitalisation during the year / period Less: Decrease due to reversal during the year /period Add: Increase due to discharges during the year/ period 10 Net closing Equity (Normal) 11 Average Equity (Normal) 12 Rate of ROE 12 Total ROE

(P	etitioner)Part 1 Form-1(IIB)Name of the Petitioner	r					
		Name of t	he Genera	ating Stat	ion:		
_		Statement	showing	Return o	n Equity	at Normal	
	ite:						
	Particulars					2023-24	
1		3	4	5	6	7	
	Return on Equity (beyond the original scopeof work excluding additional capitalization due to change in Law)						
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 duringthe year / period	e					
7	Less: Decrease due to De-capitalisation duringthe year / period	e					
8	Less: Decrease due to reversal during the year /period						
9	Add: Increase due to discharges during the year/period						
10	Net closing Equity (Normal)						
11	Average Equity (Normal)						
12	Rate of ROE						
12	Total ROE						
(P	etitioner)Part 1 Form-2Plant CharacteristicsName						
		Name o	of the Ger	erating S	Station		
 U1	nit(s)/Block(s)/Parameters		Ū	Jnit-I Un	it-II Unit	-III	
In	stalled Capacity (MW)						
Sc	chedule COD as per Investment Approval						
A	Actual COD /Date of Taken Over (as applicable)						
Pi	t Head or Non Pit Head						
N	ame of the Boiler Manufacture						
N	ame of Turbine Generator Manufacture						
M	ain Steams Pressure at Turbine inlet (kg/Cm2)abs	31.					
M	ain Steam Temperature at Turbine inlet (oC) 1						
Re	eheat Steam Pressure at Turbine inlet (kg/Cm2)1						
Re	eheat Steam Temperature at Turbine inlet (oC)1						

Main Steam flow at Turbine inlet under MCR condition (tons /hr)1

Main Steam flow at Turbine inlet under VWOcondition (tons /hr)2

Unit Gross electrical output under MCR /Ratedcondition (MW)2

Unit Gross electrical output under VWO condition(MW)2

Guaranteed Design Gross Turbine Cycle Heat Rate(kCal/kWh)3

Conditions on which design turbine cycle heatrate guaranteed

% MCR

% Makeup Water Consumption

Design Capacity of Make up Water System

Design Capacity of Inlet Cooling System

Unit(s)/Block(s)/Parameters

Design Cooling Water Temperature (oC)

Back Pressure

Steam flow at super heater outlet under BMCRcondition (tons/hr)

Steam Pressure at super heater outlet under BMCRcondition)

(kg/Cm2)

Steam Temperature at super heater outlet underBMCR condition (oC)

Steam Temperature at Reheater outlet at BMCR condition (oC)

Design / Guaranteed Boiler Efficiency (%)4

Design Fuel with and without Blending ofdomestic/imported coal

Type of Cooling Tower

Type of cooling system5

Type of Boiler Feed Pump6

Type of Coal Mill

Fuel Details7

- -Primary Fuel
- -Secondary Fuel
- -Alternate Fuels

Types of SOX control system

Types of NOX control system

Details of SPM control system

Special Features/Site Specific Features8

Special Technological Features9

Environmental Regulation related features 10

Any other special features

Unit-I Unit-II Unit-III

Unit(s)/Block(s)/Parameters

Unit-I Unit-II Unit-III

- 1. At Turbine MCR condition.
- 2. With 0% (Nil) make up and design Coolingwater temperature
- 3. At TMCR output based on gross generation, o%(Nil) makeup and design Cooling water temperature.
- 4. With Performance coal based on Higher HeatingValue (HHV) of fuel and at BMCR) out put
- 5. Closed circuit cooling, once through cooling, sea cooling, natural draft cooling, induced draft cooling etc.
- 6. Motor driven, Steam turbine driven etc.
- 7. Coal or natural gas or Naptha or lignite etc.
- 8. Any site specific feature such as Merry-Go-Round, Vicinity to sea, Intake /makeup water systemsetc. scrubbers etc. Specify all such features
- 9. Any Special Technological feature likeAdvanced class FA technology in Gas Turbines, etc.
- 10. Environmental Regulation related featureslike 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 TechnicalStandards for Construction of Electric Plants and Electric LinesRegulations –2010 notified by the Central ElectricityAuthority.

Normative parameters considered for tariff computations Name of the Petitioner

Part 1 - Form-3

Effective Tax Rate4

Target Availability

	Name of the Generating Station(Year Ending March)						
Particulars	Unit	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 Add.Capitalization	%						

%

%

In H	igh Demand	d Season %							
Peak	Hours		%						
Off-	Peak Hours		%						
In L Peak		Season(Off-							
Peak	Hours		%						
Off-	Peak Hours		%						
	liary Energy sumption	Į.	%						
Gros	s Station He	eat Rate	kCal/kWh						
Specific Fuel Oil Consumption			ml/kWh						
Cost	of Coal/Lig	nite for WC1	in Months						
	of Main Sec or WC1	condary Fuel	in Months						
Fuel	Cost for WC	C1	in Months						
Liqu	id Fuel Stoc	k for WC1	in Months						
OM	Expenses		Rs lakh / MW						
Maintenance Spares for WC			% of OM						
Receivables for WC		in Months							
Storage capacity of Primary fuel			MT						
SBI 1 Year MCLR plus 350 basis point3			%						
	ding ratio of imported co								
Note gene Men actua .(Pet	(1). For C rating statio tion relevan al tax (or adv itioner)Part	coal based/lig ons duly takin t date. Effecti vance tax)/gr 1 Form- 4De	g into account the ve tax rate is to be oss income, where	mode of oper computed in gross income). For Gas Turbine/Combined Cycle ation on gas fuel and liquid fuel.(3). accordance with Regulation 31 i.e. refers the profit before tax. ly in respect of loans applicable to the				
				Name	of the Generating Station				
					nge Rate at COD or 31.03.2019,				
					Exchange Rate as on				
31.3. S.		Year Year 2	Year 3and						
	Year	1	so on						
	(Starting								

from COD)

2 6 8 1 3 4 7 9 10 12 5 11 Relevant Amount Amount Amount Relevant Amount Amount Exchange (Rs. Date (Foreign Date (Foreign Exchange (Rs. Date (Foreign Currency) Rate Lakh) Currency) Rate Lakh) Currency)

Currency11

At the date

of Drawl or

at the

A.1 beginning

to theyear

of the

period2

Scheduled

repayment 2

date of

principal

Scheduled

payment 3

date of

interest

At the end

of

4 Financial

year

B In case of

Hedging3

At the date

of hedging

Period of

hedging

Cost of

3 hedging

Currency21

At the date

of Drawl2

Scheduled

repayment 2

date of

principal

- Scheduled
- payment 3
- date of
 - interest
 - At the end
 - of
- 4 Financial
 - year
- B In case of
 - Hedging3
- At the date
- of hedging
- Period of
 - hedging
- Cost of
- 3 hedging
 - Currency31
 - so on
- At the date
 - of Drawlı
 - Scheduled
 - repayment
- date of
 - principal
 - Scheduled
 - payment
- date of
 - interest
 - At the end
 - of
- 4 Financial
 - year
- B In case of
 - Hedging3
- At the date
- of hedging
- Period of
- hedging
- Cost of
- 3 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.

		ioner)Part 1 Form- 4ADetails of Foreign Equity(Details only in respect of Equity infusion if any table to the project under petition)Name of the Petitioner Name of the Generating Station Exchange Rate on date/s of infusion									
S. No	Financial Year	Year	Year 2	Year 3 and so on							
1	2	3 Date	4 Amount (Foreign Currency)	5 Relevant Exchange Rate	6 Amount (Rs. Lakh)		8 Amount (Foreign Currency)	9 Relevant Exchange Rate	Amount (Rs. Lakh)		Amount (Foreign Currency
A.1 2 3	Currency11 At the date of infusion2										
A.1 2 3	Currency21 At the date of infusion2										
A.1 2	Currency31 At the date of infusion2										

Currency1and so on

At the date of infusion2

2

- 1. Name of the currency to be mentioned e.g. US\$, DM, etc.
- 2. In case of equity infusion more than once during the year, Exchange rate at the date of each infusion to be given. (Petitioner)

Part 1 – Form- 5

Abstract of Admitt	ed Capital Cost for the ex	isting ProjectsName of the P	etitioner
	.	Name of the Ger	
Last date of order	of Commission for thepro	oject	Date (DD-MM-YYYY)
Reference of petiti	ion no. in which the abov	eorder was passed	Petition no.
· ·	•	orconsidered) as on the last d te above order by the Commi	
Capital cost			(Rs. in lakh)*
Amount of un-disc admitted capital c	· ·	ed inabove (forming part of	
	•	onding to above admitted car al cost being allowed on cash	•
Gross Normative	Debt		
Cumulative Repay	ment		
Net Normative De	bt		
Normative Equity			
Cumulative Depre	ciation		
Freehold land			
(Petitioner)Part 1	Form- 6Financial Packag	e up to CODName of the Peti	itioner
		Name of the Ger	· ·
		Project Cost as o	on COD1
	Financial Package as Approved	Financial Package as on COD	As Admitted on COD

Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019

	, , ,	,		
	Currency and Amount3	Currency and Amount3	Currency and Amount3	
1	2	3	4	567
Loan-I	US \$	200m		
Loan-II				
Loan-III				
and so on				
Equity-				
Foreign				
Domestic				
Total Equity				
Debt : Equity				
Ratio				
Note 1. Say Rs. US\$=Rs70	80 Cr. + US\$ 200 m or Rs.	1480 Cr. including US\$ 20	o m at an exchange r	ate of
2. Provide de	tails on commercial o	peration as on COD	of each Unit	

3. For example: US \$ 200m, etc.

(Petitioner)Part 1 Form- 7Details of p		nsName of the Petitioner Name of the Generating Station				
Particulars	Package1	Package2	Package3	Package4	Package5	Package6
1	2	3	4	5	6	7
Source of Loan1						
Currency3						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto 31.03.2019/COD3,4,5,13,15						
Interest Type6						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest7						
Margin, if Floating Interest8						
Are there any Caps/Floor9	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
If above is yes, specify caps/floor						

Moratorium Period10

Moratorium effective from

Repayment Period11

Repayment effective from

Repayment Frequency12

Repayment Instalment13, 14

Base Exchange Rate16

Are foreign currency loan hedged?

If above is yes, specify details17

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

- 2. Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.
- 3. Details are to be submitted as on 31.03.2019 for existing assets and as on COD for the remaining assets.
- 4. Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.
- 5. 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.
- 6. Interest type means whether the interest is fixed or floating.
- 7. Base rate means the base as PLR, MCLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.
- 8. Margin means the points over and above the floating rate.
- 9. At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

- 10. Moratorium period refers to the period during which loan servicing liability is not required.
- 11. Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.
- 12. Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.
- 13. Where there is more than one drawl/repayment for a loan, the date amount of each drawl/repayment may also be given separately
- 14. If the repayment installment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.
- 15. In case of Foreign loan, date of each drawl repayment along with exchange rate at that date may be given.
- 16. Base exchange rate means the exchange rate prevailing as on 31.03.2019 or COD, whichever is later
- 17. In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.
- 18. In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.
- 19. At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately
- 20. 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 1 Form-	8Details of Allocation of corporate loans to various projectsName of the
Petitioner	Name of the Generating Station

Particulars Package1 Package2 Package3 Package4 Package5 Remarks 6 1 2 4 5 3 Source of Loan1 Currency2 Amount of Loan sanctioned Amount of Gross Loan drawn upto 31.03.2019/COD3,4,5,13,15 **Interest Type6** Fixed Interest Rate, if applicable Base Rate, if Floating Interest7 Margin, if Floating Interest8 Are there any Caps/Floor9 Yes/No Yes/No Yes/No Yes/No If above is yes, specify caps/floor Moratorium Period10 Moratorium effective from Repayment Period11 Repayment effective from Repayment Frequency12 Repayment Instalment₁₃, 14 Base Exchange Rate16 Are foreign currency loan hedged? If above is yes, specify details17 Distribution of loan packages to

variousprojects

Name of the Projects

Project 1

Project 2

Project 3 and so on

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

- 2. Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.
- 3. Details are to be submitted as on 31.03.2019 for existing assets and as on COD for the remaining assets.
- 4. Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.
- 5. 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.
- 6. Interest type means whether the interest is fixed or floating.
- 7. Base rate means the base as PLR, MCLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.
- 8. Margin means the points over and above the floating rate.
- 9. At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.
- 10. Moratorium period refers to the period during which loan servicing liability is not required.
- 11. Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.
- 12. Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half-yearly, annual, etc.
- 13. Where there is more than one drawl/repayment for a loan, the date amount of each drawl/repayment may also be given separately

- 14. If the repayment installment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.
- 15. In case of Foreign loan, date of each drawl repayment along with exchange rate at that date may be given.
- 16. Base Exchange Rate means the exchange rate prevailing as on 31.03.2019 or COD, whichever is later
- 17. In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.
- 18. In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.
- 19. At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately
- 20. 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.

(Petition	er)Part 1 Form- 9Yea er	ır wise Stateme	COD	-	after CODName of the Generating Sta	
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 column 3	Cash basis	IDC included in col. 3			
1	2	3	4	(5 = 3 - 4)	6	789

- 1. In case the project has been completed and cost has already been admitted under any tariff notification(s) in the past, fill column 9 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 that 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.

(Petitioner)Part 1 Form- 10Financing of Additional CapitalisationName of the Petitioner

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.

Name of the Generating Station

	Date of Commercial Operation (Amount in Rs Lakh)									
	Actual	Admitted								Year
Financial Year (Starting from COD)1	Year 1	Year 2	Year 3	Year 4	Year 5 So on			Year 3	Year 4	5 So on
1	2	3	4	5	6	7	8	9	10	11

Amount capitalised in
Work/ Equipment
Financing Details
Loan-1
Loan-2
Loan-3 and so on
Total Loan2
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 1 Form- 11Calculation of DepreciationName of the Petitioner Name of the Generating Station (Amount in Rs Lakh) Gross Block as on 31.03.2019 or as Depreciation Rates as Depreciation Name of the on COD, whichever is later and per CERC's Amount for S. No. Assets1 subsequently for each year DepreciationRate each year up Schedule thereafter upto31.3.2024 to31.03.2024 5 = Col.3 X1 2 3 4 Col.4 Land* 1 **Building** 2 and so on 3 4 5 6 7 8 9

*Provide details of Freehold land and Lease hold land separatelyNote. - 1. Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notification.(Petitioner)Part 1 Form - 12Statement of DepreciationName of the Petitioner

Name of the Generating Station

(Amount in Rs Lakh) S. Existing **Particulars** 2019-20 2020-21 2021-22 2022-23 2023-24 No. 2018-19 8 6 1 2 3 4 5 7 **Opening Capital Cost** 1 2 Closing Capital Cost **Average Capital Cost** 3 Freehold land 4 Rate of depreciation 5 6 Depreciable value Balance useful life at the beginning 7 of theperiod 8 Remaining depreciable value Depreciation (for the period) 9 Depreciation (annualised) 10

Cumulative depreciation at the end

of the period

Less: Cumulative depreciation

adjustment onaccount of

un-discharged liabilities deducted as

on 01.04.2009

Less: Cumulative depreciation

13 adjustment onaccount of

de-capitalisation

Net Cumulative depreciation at the

end of theperiod

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

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
Loan-1		
Gross loan - Opening		
Cumulative repayments of Loans upto previousyear)	
Net loan - Opening		
Add: Drawl(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		
Loan-2		
Gross loan - Opening		
Cumulative repayments of Loans upto previousyear	0	
Net loan - Opening		

Add: Drawl(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

Loan-3 and so on

Gross loan - Opening

Cumulative repayments of Loans upto

previousyear

Net loan - Opening

Add: Drawl(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

Total Loan

Gross loan - Opening

Cumulative repayments of Loans upto

previousyear

Net loan - Opening

Add: Drawl(s) during the Year

Less: Repayment (s) of Loans during

the year

Net loan - Closing

Average Net Loan

Interest on loan

Weighted average Rate of Interest on

Loans

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 1 Form- 14Draw Down Schedule for Calculation of IDC Financing

ChargesName of the Petitioner ______Name of the

Generating Station Quarter 1 Quarter Quarter Draw S. No. n (COD) Down Amount **Amount** Amount Exchange Exchange Exchange in Quantum in Quantum in Rate on Rate on Quantum Rate on Indian in Indian in Indian Particulars in Foreign draw draw draw Rupee Foreign Rupee Rupee Foreign currency down down down currency (Rs (Rs currency (Rs date date date Lakh) Lakh) Lakh) Loans 1 Foreign 1.1 Loans Foreign 1.1.1 Loan 1 Draw down **Amount** IDC Financing charges Foreign Exchange Rate Variation Hedging Cost Foreign 1.1.2 Loan 2 Draw down **Amount** IDC Financing charges Foreign Exchange Rate

Variation

Hedging Cost Foreign 1.1.3 Loan 3 Draw down **Amount** IDC Financing charges Foreign Exchange Rate Variation Hedging Cost 1.1.4 Total Foreign 1.1 Loans Draw down Amount IDC Financing charges Foreign Exchange

> Hedging Cost

Rate Variation

Indian 1.2 Loans

1.2.1	Indian Loan 1 Draw down Amount IDC Financing charges	 	 	
1.2.2	Indian Loan 2 Draw			
	down Amount	 	 	
	IDC	 	 	
	Financing charges	 	 	
1.2.3	Indian Loan 3 Draw			
	down Amount	 	 	
	IDC	 	 	
	Financing charges	 	 	
1.2.4		 	 	
1.2	Total Indian Loans Draw			
	down Amount	 	 	
	IDC	 	 	

(Petitioner)Part 1 Form- 15Details of Source wise Fuel for Computation of Energy Charges1Name of

Station

the Petitioner _____

Name of the Generating

	, ,	,	`		, , ,	
S. No.	Month	Unit	For preceding	For preceding	For preceding	
	3rd Month (from COD or from 1.4.2019 as thecase may be)	2nd Month (from COD or from 1.4.2019 as thecase may be)	1st Month (from COD or from 1.4.2019 as thecase may be)			
		Domestic Source (1)	Domestic Source (2)	Imported	Domestic	Imported Domestic Impor
(A)	Opening Quantity					
1	Opening Quantity of Coal/Lignite	(MMT)				
2	Value of Stock					
(B)	Quantity					
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MMT)				
4	Adjustment (+/-) in quantity supplied made by Coal/LigniteCompany	(MMT)				
5	Coal supplied by Coal/Lignite Company (3+4)	(MMT)				
6	Normative Transit Handling Losses (For coal/Lignitebased Projects)	(MMT)				
7	Net coal / Lignite Supplied (3-4)	(MMT)				
(C)	Price					
8	Amount charged by the Coal /Lignite Company	(Rs.)				
9	Adjustment (+/-) in amount charged made by Coal/LigniteCompany	(Rs.)				
10	Handling, Sampling and such other similar charges					
11	Total amount Charged (8+9+10)	(Rs.)				
(D)	Transporation					

Transporation charges by (Rs.) 12 rail/ship/road transport By Rail By Road By Ship Adjustment (+/-) in amount charged made by (Rs.) 13 Railways/TransportCompany Demurrage Charges, if any 14 (Rs.) Cost of diesel in transporting coal through MGR system, (Rs.) 15 ifapplicable **Total Transportation Charges** (Rs.) 16 (12+13+14+15)Total amount Charged for coal/lignite supplied (Rs.) 17 includingTransportation (11+16)(E) Total Cost Landed cost of coal/Lignite 18 Rs./MT (2+17)(1+7)**Blending Ratio** 19 (Domestic/Imported) Weighted average cost of 20 coal/Lignite for preceding Rs./MTsss threemonths (F) Quality GCV of Domestic Coal of the opening coal stock as per bill (kCal/Kg) 21 ofCoal Company GCV of Domestic Coal 22 supplied as per bill of Coal (kCal/Kg) Company GCV of Imported Coal of the 23 opening stock as per bill (kCal/Kg) CoalCompany GCV of Imported Coal 24 supplied as per bill Coal (kCal/Kg) Company

Weighted average GCV of (kCal/Kg) 25 coal/Lignite as Billed GCV of Domestic Coal of the 26 opening stock as received (kCal/Kg) atStation GCV of Domestic Coal (kCal/Kg) 27 supplied as received at Station GCV of Imported Coal of 28 opening stock as received as (kCal/Kg) Station GCV of Imported Coal of 29 opening stock as received at (kCal/Kg) Station Weighted average GCV of (kCal/Kg) coal/Lignite as Received

Note. - 1. Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants with appropriate units.

- 2. As billed and as received GCV, quantity of coal, and price should be submitted as certified by statutory auditor.
- 3. Details to be provided for each source separately. In case of more than one source, add additional column.
- 4. Break up of the amount charged by the Coal Company is to be provided separately.

(Petitioner)Part 1 Form- 16Details of Limestone for Computation of Energy Charge RateName of the

_Name of the Generating Station Petitioner _____ For For For S. No. Month Unit preceding preceding 3rd Month 1st Month (from COD or (from COD or and Month (from COD or from from 1.4.2019 from 1.4.2019 1.4.2019 as the casemay be) as the casemay as the casemay be) be) Quantity of Limestone supplied (MMT) 1 by Limestonesupply Company (MMT) 2

Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019

	Adjustment (+/-) in quantity supplied made byLimestone supply Company	
	Limestone supplied by	
3	Limestone supplyCompany(1+2)	(MMT)
4	Net Limestone Supplied (3-4)	(MMT)
5	Amount charged by the Limestone supply Company	(Rs.)
6	Adjustment (+/-) in amount charged made byLimestone supply Company	(Rs.)
7	Total amount Charged (6+7)	(Rs.)
8	Transportation charges by rail/ship/roadtransport	(Rs.)
9	Adjustment (+/-) in amount charged made byRailways/Transport Company	(Rs.)
10	Demurrage Charges, if any	(Rs.)
11	Total Transportation Charges (8+/-9-10)	(Rs.)
12	Total amount Charged for Limestone suppliedincluding Transportation (7+11)	(Rs.)

(Petitioner)Part 1 Form- 17Details of Capital SparesName of the Petitioner

_____Name of the Generating Station

S. No.	Details of Capital Spares and Expenses	Claimed as a part of additional Capitalisation	Funded through compensatory allowance	Funded through Special allowance (IfApplicable	Claimed as a part of stores and spares
	Name of spare	Amount in Rs. Lakh			
1					
2					
3					
4					

Indian Kanoon - http://indiankanoon.org/doc/151510064/

5 6

((Petitioner))Part 1 Form-	· 18Non-Tariff	IncomeName	e of the Petition	er

			Name of the Gene	rating Station	
S. No.	Parameters	Existing 2018-19	2019-20 2020-21	2021-22 2022	-23 2023-24
1	Income from rent of land buildings	or			
2	Income from sale of scrap				
3	Income from advertiseme	nts			
Note.	- To be submitted at the tir	ne of truing up.(Peti	tioner)Part 1 Form-	19Details of W	ater
Char	gesName of the Petitioner _				Name of the
Gene	rating Station				
S. No	Details of Water charges Quan (excluding allocates)	consumption a	Rate specified (as per govt. notification oragreement)	Spillage of water (in percentage)	Amount Claimed
Nam sourd quan	ce and Amount Unit.	Unit			
1					
2					
3					
4					
5					
6					
-	ioner)Part 1 Form- 20Detai	ls of Statutory Charg	gesName of the Petit Name of the Gene		
Parti	culars Unit Rate No. o	of Units Amount Cla	— imed		
Elect	ricity Duty				
Wate	er Cess				
 (Petit	ioner)Part 1 Form- AAbstra	ect of Capital Cost Es	timates and Schedul	e of Commissi	oning for the
	ProjectsName of the Petition	-			Name of
	enerating Station				jectsCapital
	Estimates			•	· •
	d of Director/ Agency appro calcost estimates	oving the			

Date of approval of the Capital cost estimates

Present Day Cost Completed Cost

As on end of _____Qtr. of the As on Scheduled COD

year _____ of the Station

Price level of approved estimates

Foreign Exchange rate considered for the Capitalcost estimates

Capital Cost excluding IDC, IEDC FC(Rs. Lakh)

Foreign Component, if any (In Million US \$ orthe relevant Currency)

Domestic Component (Rs. Lakh)

Capital cost excluding IDC, IEDC, FC, FERVHedging Cost (Rs. Lakh)

IDC, IEDC,FC, FERV Hedging Cost Foreign Component, if any (In Million US \$ orthe relevant Currency) Domestic Component (Rs. Lakh)

Total IDC, IEDC, FC, FERV Hedging Cost(Rs. Lakh) Rate of taxes duties considered

Capital cost Including IDC, IEDC, FC, FERVHedging Cost Foreign Component, if any (In Million US \$ orthe relevant Currency)

Domestic Component (Rs. Lakh)

Capital cost Including IDC, IEDC FC (Rs.Lakh)

Schedule of Commissioning Scheduled COD of Unit-I/Block-I as perInvestment Approval

Scheduled COD of Unit-II/Block-II as perInvestment 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 B or C as applicable.

3. Details of IDC Financing Charges are to be furnished as per FORM-14.

(Petitioner)Part 1 Form- BBreak-up of Capital Cost for Petitioner			r New Coal/Lignite based projectsName of theName of the Generating Station(Amount in Rs. Lakh)					
S. No.	Break Down	As per Original Estimates as per InvestmentApproval	Actual Capital Expenditure as on COD/anticip COD	Liabilities/Provisions	Variation (3 – 4 - 5)	Special Reason for Varia		
	Actual Amount							
1	2	3	4	5	6	7		
1	Cost of Land Site Development							
1.1	Land*							
1.2	Rehabilitation Resettlement (RR)							
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 **Fuel Handling Storage** 2.3.6 system 2.3.7 Ash Handling System 2.3.8 Coal Handling Plant Rolling Stock and 2.3.9 Locomotives 2.3.10 MGR 2.3.11 Air Compressor System 2.3.12 Fire fighting System
- 2.3.14 HP/LP Piping
- 2.3.15 FGD 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**
- **BOP Electrical** 2.4
- 2.4.1 Switch Yard Package
- 2.4.2 Transformers Package
- 2.4.3 Switch gear Package
 - Cables, Cable facilities
- 2.4.4 grounding
- 2.4.5 Lighting
- 2.4.6 Emergency D.G. set **Total BOP Electrical**
 - **Control Instrumentation**
- 2.5 (C I)Package **Total Plant Equipment** excluding taxesDuties
- **Taxes Duties** 2.6
- **Initial Spares** 3
- Civil Works 4

4.1	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
4.1	Ash Handling System
4.11	Ash disposal area development
4.12	Fire fighting System
4.13	Township Colony
4.14	Temp. construction enabling works
4.15	Road Drainage Total Civil works
4.155	
	Total Civil works Construction Pre-
5	Total Civil works Construction Pre- CommissioningExpenses Erection Testing and
5 5.1	Total Civil works Construction Pre- CommissioningExpenses Erection Testing and commissioning
5 5.1 5.2	Total Civil works Construction Pre- CommissioningExpenses Erection Testing and commissioning Site supervision
5 5.1 5.2 5.3	Total Civil works Construction Pre- CommissioningExpenses Erection Testing and commissioning Site supervision Operator's Training
5 5.1 5.2 5.3 5.4	Total Civil works Construction Pre- CommissioningExpenses Erection Testing and commissioning Site supervision Operator's Training Construction Insurance
5.1 5.2 5.3 5.4 5.5	Total Civil works Construction Pre- CommissioningExpenses Erection Testing and commissioning Site supervision Operator's Training Construction Insurance Tools Plant
5.1 5.2 5.3 5.4 5.5	Construction Pre- CommissioningExpenses Erection Testing and commissioning Site supervision Operator's Training Construction Insurance Tools Plant Startup fuel Total Construction Pre-
5.1 5.2 5.3 5.4 5.5 5.6	Total Civil works Construction Pre- CommissioningExpenses Erection Testing and commissioning Site supervision Operator's Training Construction Insurance Tools Plant Startup fuel Total Construction Pre- CommissioningExpenses

Main plant/Adm.

4.1

Audit Accounts

6.3

- 6.4 Contingency
 - **Total Overheads**
- Total Capital costexcluding IDC FC
- 8 IDC, FC, FERV Hedging
 - Cost
- 8.1 Interest During
 - Construction (IDC)
- 8.2 Financing Charges (FC)
- Foreign Exchange Rate
- 8.3 Variation (FERV)
- 8.4 Hedging Coat

Total of IDC, FC,FERV Hedging Cost

Capital cost including

9 IDC, FC, FERVHedging Cost

*Provide details of Freehold land and Lease hold land separatelyNote. - 1. 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.

- 2. In case of both time cost overrun, 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 overrun was beyond the control of the generating company.
- 3. 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 IEDC from scheduled COD to actual COD/anticipated COD and increase of IDC from scheduled COD to actual anticipated COD.
- 4. 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.

5. 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 1 Form- CBreak-up of Capital Cost for Gas/Liquid fuel based projectsName of					
Petitioner	Name of the Generating Station				
	(Amount in Rs. Lakh)				

			(Amount in R	s. Lakh)	
S. No.	Break Down	As per Original Estimates as per InvestmentApproval	Actual Capital Expenditure	Liabilities/Provisions	Variation (3 – 4 - 5)
1	2	3	4	5	6
1	Cost of Land Site Development				
1.1	Land*				
1.2	Rehabilitation Resettlement (RR)				
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	WHRB Island				
2.4	BOP Mechanical				
2.4.1	Fuel Handling Storage system				
2.4.2	External water supply system				
2.4.3	CW system				
2.4.4	Cooling Towers				
2.4.5	DM water Plant				
2.4.6	Clarification plant				
2.4.7	Chlorination Plant				
2.4.8	Air Condition Ventilation System				
2.4.9	Fire fighting System				

2.4.10 HP/LP Piping

Specia

Reaso

Varia

for

7

Variation

Total BOP Mechanical

2.5	BOP Electrical
2.5.1	Switch Yard Package
2.5.2	Transformers Package
2.5.3	Switch gear Package
2.5.4	Cables, Cable facilities grounding
2.5.5	Lighting
2.5.6	Emergency D.G. set
	Total BOP Electrical
2.6	Control Instrumentation (C I)Package
	Total Plant Equipment
	excluding taxesDuties
2.7	Taxes Duties
3	Initial Spares
4	Civil Works
4.1	Main plant/Adm.
	Building
4.2	External Water Supply System
4.3	CW system
4.4	Cooling Towers
4.5	DM water Plant
4.6	Clarification plant
4. 7	Fuel handling Storage system
4.8	Township Colony
4.9	Temp. construction enabling works
4.1	Road Drainage
4.11	Fire fighting System
-	Total Civil works

- 5 Construction Pre-CommissioningExpenses
 - Erection Testing and
- 5.1 commissioning
- 5.2 Site supervision
- 5.3 Operator's Training
- 5.4 Construction Insurance
- 5.5 Tools Plant
- 5.6 Startup fuel

Total Construction Pre-CommissioningExpenses

- 6 Overheads
- 6.1 Establishment
- 6.2 Design Engineering
- 6.3 Audit Accounts
- 6.4 Contingency

Total Overheads

- 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
 - ·S Variation (FERV)
- 8.4 Hedging Coat

Total of IDC, FC,FERV

Hedging Cost

Capital cost including

9 IDC, FC, FERVHedging

Cost

*Provide details of Freehold land and Lease hold land separatelyNote. - 1. 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.

- 2. In case of time cost overrun, 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 overrun was beyond the control of the generating company.
- 3. 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 IEDC from scheduled COD to actual COD/anticipated COD and increase of IDC from scheduled COD to actual anticipated COD.
- 4. 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 1 Form- DBreak-up of Construction/Supply/Service packagesName of the						
Petitioner					ne Generating Station		
-		(Amour	it in Rs. La	Kn)			
S. No.	Name/No. of Construction / Supply / ServicePackage	Package A	Package B	Package C		Total Cost of all packages	
1	Scope of works1 (in line with head of costbreak-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 Award2 in (Rs. Lakh)						
8	Firm or With Escalation in prices						
9	Actual capital expenditure till the completionor 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/lignite based plants in the FORM-B to the extent possible. In case of Gas/Liquid fuel based projects, break down in the similar manner in the relevant heads as per FORM-C.

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. +US\$50m=Rs.430Cr. at US\$=Rs70 as on say 1.4.19.

	ls of variables, parameters, optional packa	-
		Name of the
Generating Station		_
Unit Size		
Number of Units		
Greenfield/Extension		
S. No.	Variables	(Design Operating Range) Values
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 handling Mechanism	
15	Type of Fly Ash Disposal and Distance	

		e of Bottom As	sh Disposal	and	
17	Тур	e of Soil			
18	Fou	ndation Type ((Chimney)		
19	Wat	er Table			
20	Seis	mic and Wind	Zone		
21	Con	densate Coolir	ng Method		
22	Des	alination/RO I	Plant		
23	Eva	cuation Voltag	e Level		
24	• •	e of Coal mestic/Import	ted)		
Parameter/Variables	Valı	ies			
Completion Schedule					
Terms of Payment					
Performance Guarantee Liability					
Basis of Price (Firm/Escalation-l	Linked)				
Equipment Supplier (Country of	Origin)				
Optional Packages	Yes,	/No			
Desalination Plant/RO Plant					
MGR					
Railway Siding					
Unloading Equipment at Jetty					
Rolling Stock/Locomotive					
FGD Plant					
Length of Transmission Line till	Tie				
Point (inkm)					
(Petitioner)Part 1 Form- FDetail	of cost over 1				
		Nan	ne of the Ge	nerating Station	
	Original			Reasons for	Incress
	Cost (Rs.	Actual/		Variation	Increase in soft
	Lakh) as	Estimated		(Please	
S. No. Break Down	approved by	Cost as incurred/to	Difference	submitsupporting computations	to
	theBoard	beincurred		and documents	increase ·
	of	(Rs. Lakh)		wherever	ın hardcost
	Members			applicable)	narucost
Total Cost Cost	Total Cost				

1	Development				
1.1	Land*				
1.2	Rehabilitation Resettlement (RR)				
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				
	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				

Cost of Land Site

	Central Electricity Regula				
2.4.5	Lighting				
2.4.6	Emergency D.G. set				
	Total BOP Electrical				
2.5	Control Instrumentation (C I)Package				
	Total Plant Equipment				
	excluding taxesDuties				
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				
4.1	Ash Handling System				
4.11	Ash disposal area development				
4.12	Fire fighting System				
4.13	Township Colony				
4.14	Temp. construction enabling works				
4.15	Road Drainage				
	Total Civil works				
5	Construction Pre-				
J	CommissioningExpenses				
5.1	Erection Testing and				
	commissioning				
5.2	Site supervision				

Tools Plant

Startup fuel

Operator's Training

Construction Insurance

Indian Kanoon - http://indiankanoon.org/doc/151510064/

5.3

5.4

5.5 5.6 Total Construction Pre-CommissioningExpenses

- 6 Overheads
- 6.1 Establishment
- 6.2 Design Engineering
- 6.3 Audit Accounts
- 6.4 Contingency

Total Overheads

- Capital cost excluding IDC
- 7 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 Coat

Total of IDC, FC, FERV

Hedging Cost

Capital cost including

9 IDC, FC, FERVHedging Cost

*Submit details of Freehold and Lease hold landNote. - Impact on account of each reason for Cost overrun should be quantified and substantiated with necessary documents and supporting workings.(Petitioner)Part 1 Form- GDetail of time over runName of the Petitioner

_____Name of the Generating Station

S. No A	Activity / Works	Original Schedule (As per Planning)	Actual Schedule (As per Actual)	Time Over-Run	Reasons for delay	Other Activity affected (Mention S. No. ofactivity affected)
		Actual Start Date	Actual Completion Date	Days		
1						
2						
3						
4						

7 8 9

6

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 1 Form- HStatement of Additional Capitalisation during five year before the end of useful life of the ProjectName of the Petitioner

Name of the Generating Station
 COD
(Amount in Rs. Lakh)

S. No. Year la	Work / Equipment added during ast five yearsof aseful life of each Unit/Station	ACE Claimed (Actual / Projected)	Regulations under which Justification claimed	Impact on life extension
----------------	---	---	---	--------------------------------

	Un-discharged Liability included in col.	Cash basis	IDC included in col. 4
1	2	3	4

4 5 (6 = 4 - 5) 7 8 9 10

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 1 Form-	IDetails of	Assets De-	-capitalized (during th	e period

Petit Nam	ne of the cioner ne of the					_	
Gene Regi	erating St	ation State				District	
Kegi	Oli	Nature of				(4	Amount in s. Lakh) Whether earning RoE at the
S. No.	Name of the Asset	de-capitalization (whether claimedunder exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised		Depreciati till date ofde-capit	ion recovered	normal rate ofweightage average rate of interest on loan
1 1 2 3 4 5	2	3	4	5	6		7
		ise detail need to be submi claimed vis-à-vis booksNa	me of the Petitio	oner Name of COD		nting Station	
S. No.	Particula	ars	20	019-20	2020-21 20)21-22 2022	-23 2023-24
1	2	o ni i nya ca	3		4 5	6	7
1	_	Gross Block as per IND AS					
2	•	ss: Adjustments*					
3	_	Gross Block as per IGAAP	Q				
4	-	g Gross Block as per IND A ss: Adjustments*	J				
5 6	-	ss. Aujustments g Gross Block as per IGAAF	•				
7	-	ditions as per books ($G = 3$					
/	10.001110	- O) who has been been for - f	, 0/				

- 8 Less: Additions pertaining to other Stages (giveStage wise breakup)
- 9 Net Additions pertaining to instantproject/Unit/Stage
- Less: Exclusions (items not allowable / notclaimed)
- Net Additional Capital Expenditure Claimed(on accrual basis)
- 12 Less: Un-discharged Liabilities (as perIGAAP)
 - Add: Discharges of un-discharged
- 13 liabilities, corresponding to admitted assets/works (as per IGAAP)
- Net Additional Capital Expenditure Claimed(on cash basis)

Note. - (1) Form is to be certified by the Auditor and Certificate issued as per the guidelines prescribed by their governing body.(2)Reason for exclusion of any expenditure shall be given in Clear terms. *Break-up to be specified.(Petitioner)Part 1 Form- KStatement showing items/assets/works claimed under Exclusions:Name of the Petitioner

		Name of theCOD (Amount in 1	Generating Station	
S. 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 - 6 7 4)

Note 1. - Exclusions 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 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 1 Form- LName of the Petitioner	
	Name of the Generating Station
	(To be given for relevant dates and year

wise)(Amount in Rs. Lakh)

S. No. Particulars

As on relevant date

Accrual Basis Un-discharged Liabilities

date 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 theperiod (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

 \mathbf{C}

- (a) Addition in Gross Block Amount during the period (Transferred from CWIP)
- (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 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 end date(Petitioner)Part 1 Form- MName of the Petitioner

______Name of the Generating Station
______Statement of Capital Woks in Progress(To be

given for relevant dates and year wise)(Amount in Rs. Lakh)

S. 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 date(Petitioner)Part 1 Form- NCalculation of Interest on Normative LoanName of the Petitioner

				of the Gei int in Rs I	C	Station	
S. No.	Particulars	Existing 2018-19	2019-20	0 2020-2	1 2021-22	2 2022-23	3 2023-24
1	2	3	4	5	6	7	8
1	Gross Normative loan – Opening						
2	Cumulative repayment of Normative loan up toprevious year						
3	Net Normative loan – Opening						
4	Add: Increase due to addition during the year /period						
5	Less: Decrease due to de-capitalisation duringthe year / period						
6	Less: Decrease due to reversal during the year /period						
7	Add: Increase due to discharges during the year/ period						

- 8 Net Normative loan - Closing Average Normative loan 9 Weighted average rate of interest Interest on Loan 11 (Petitioner)Part 1 Form- OCalculation of Interest on Working CapitalName of the Petitioner Name of the Generating Station (Amount in Rs Lakh) Existing S. No. Particulars 2019-20 2020-21 2021-22 2022-23 2023-24 2018-19 1 2 5 6 7 8 3 4 Cost of Coal/Lignite1 1 Cost of Main Secondary Fuel 2 Oil1 Fuel Cost2 3 Liquid Fuel Stock2 4 O M Expenses 5 **Maintenance Spares** 6 Receivables 7
- **Interest on Working Capital** 10 Note. - 1. For Coal based/Lignite based generating stations

Total Working Capital

Rate of Interest

8

9

2. For Gas Turbine/Combined Cycle generating stations duly taking into account the annual mode of operation (last available) on gas fuel and liquid fuel

(Petiti	oner)Part 1 Form- PIncidental Exp	enditure up to SCOD an	d up to Actual/anticipated
CODN	Tame of the Petitioner		Name of the
Generating Station(Amount			(Amount in Rs. Lakh)
S. No.	Parameters	As on Scheduled COD	As on actual COD/anticipated COD
A	Head of Expenses:		
1	Employees' Benefits Expenses		
2	Finance Costs		
3	Water Charges		
4	Communication Expenses		
5	Power Charges		

6	Depreciation	
7	Other Office and Administrative Expenses	
8	Others (Please Specify Details)	
9	Other Pre-Operating Expenses	
•••		
В	Total Expenses	
	Less: Income from sale of tender	rs
	Less: Income from guest house	
	Less: Income recovered from	
	Contractors	
	Less: Interest on Deposits	
	oner)Part 1 Form- QExpenditure I/anticipated CODName of the Pe	under different packages up to SCOD and up to
rictuu	difference Copyramic of the re	Name of the Generating Station
		(Amount in Rs. Lakh)
S. No.	Parameters A	s on Scheduled COD As on actual/anticipated COD
1	Package 1	
2	Package 2	
3	Package 3	
4		
5		
6		
(Petiti	oner)Part 1 Form- RActual cash 6	expenditureName of the Petitioner
		Name of the Generating Station (Amount in Rs. Lakh)
Partic	rulars	Quarter-I Quarter-II Quarter-III DOCO
Exper	nditure towards Gross Block	
Add: 1	Expenditure towards CWIP	
Add: 0	Capital Advances, if any	
Less:	Un-discharged liabilities (include	ed above)
Add/I	Less: Others	
	ent to contractors / suppliers dscapital assets	
Cumu	llative payments	

Note. - If there is variation between payment and fund deployment justification need to be furnished(Petitioner)Part 1 Form- SStatement of Liability FlowName of the Petitioner

_____Name of the Generating Station

Party

Asset / Year of actual Work capitalisation Original Liability

Liability as on Discharges 31.03.2019 (Year wise)

Reversal (Year wise)

(a) For assets eligible for normal RoE

(b) For assets eligible for RoE at weightageaverage rate of interest on loan

(Petitioner)Part 1 Form TSummary of issue involved in the petition

- 1 Petitioner:
- 2 Subject
- 3 Prayer:
- 4 Respondents

Name of Respondents

a.

b.

c.

5 Project Scope

Cost

Commissioning

Claim

AFC

Capital cost

Initial spare

NAPAF (Gen)

Any Specific

Tariff Filing Forms (Hydro)For Determination of TariffPart-IIAnnexure-IPart-II Checklist of Forms and other information/ documents for tariff filing for Hydro Stations

and other infor	mation/ documents for tarm iming for Hydro Stations	
Form No.	Title of Tariff Filing Forms (Hydro)	Tick
FORM- 1	Summary of Tariff	
FORM -1	(I) Statement showing claimed capital cost	
FORM -1	(II) Statement showing Return on Equity	
FORM-2	Details of COD, Type of hydro station, NormativeAnnual Plant Availability Factor(NAPAF) Other normativeparameters considered for tariff calculation	
FORM-3	Salient Features of Hydroelectric Project	
FORM- 4	Details of Foreign loans	
FORM- 4A	Details of Foreign Equity	
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	
FORM-5A	Abstract of Capital Cost Estimates and Scheduleof Commissioning for the New projects	
FORM-5B	Break-up of Capital Cost for Hydro PowerGenerating Station	
FORM-5C	Break-up of Capital Cost for PlantEquipment	
FORM-5D	Break-up of Construction/Supply/Service packages	
FORM-5Ei	In case there is cost over run	
FORM-5Eii	In case there is time over run	
FORM- 6	Financial Package upto COD	
FORM-7	Details of Project Specific Loans	
FORM-8	Details of Allocation of corporate loans tovarious projects	
FORM-9A	Statement of Additional Capitalisation after COD	
FORM 9B	Statement of Additional Capitalisation duringend of the Project	
FORM 9Bi	Details of Asset De-capitalized during theperiod	
FORM- 9C	Statement showing reconciliation of ACE claimed with the capital additions as per books	
FORM- 9D	Statement showing items/assets/works claimedunder Exclusions	
FORM- 9E	Statement of Capital cost	
FORM- 9F	Statement of Capital Woks in Progress	
FORM- 10	Financing of Additional Capitalisation	
FORM- 11	Calculation of Depreciation on original projectcost	
FORM- 12	Statement of Depreciation	
FORM- 13	Calculation of Weighted Average Rate of Intereston Actual Loans	
FORM- 13A	Calculation of Interest on Normative Loan	
FORM- 13B	Calculation of Interest on Working Capital	
FORM- 13C	Non-Tariff Income	
FORM- 13D	Incidental Expenditure during Construction	

	Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019
FORM- 14	Draw Down Schedule for Calculation of IDCFinancing Charges
FORM- 14A	Actual cash expenditure
FORM- 15A	Design energy and peaking capability (monthwise)- ROR with Pondage/Storage type new stations
FORM- 15B	Design energy and MW Continuous (month wise)-ROR type stations
FORM- 16	Statement of Liability Flow
FORM- 17	Operation Maintenance Expense
FORM- 18	Details of Statutory Charges
FORM- 19	Summary of issue involved in the petition
Other Information/ Documents	Tick
Sl. No.	Information/Document
1	Certificate of incorporation, Certificate forCommencement of Business, Memorandum of Association, Articles of Association (For New Station setup by a companymaking tariff application for the first time to CERC)
2	A. Station wise and Corporate audited BalanceSheet and Profit Loss Accounts with all the Schedulesannexures on COD of the Station for the new station for therelevant years.
	B. Station wise and Corporate audited BalanceSheet and Profit Loss Accounts with all the Schedulesannexures for the existing station for the relevant years.
3	Copies of relevant loan Agreements
4	Copies of the approval of Competent Authorityfor 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 givingreasons of cost and time over run, if applicable.List of supportingdocuments to be submitted:a. Detailed Project Reportb. CPM Analysisc. PERT Chart and Bar Chartd. Justification for cost and time Overrun
8	Generating Company shall submit copy of CostAudit Report along with cost accounting records, cost details, statements, schedules etc. for the Generating Unit wise /stagewise/Station wise/ and subsequently consolidated at Company levelas 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 offinal 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)

	Central Electricity Regulato	ry Commission (Terms a	nd Condition	ns of Tariff) F	Regulations, 2	2019			
10	Reconciliation with Balance sheet of any actualadditional capitalization and amongst stages of a generating station								
	0 0	0		arrant and	oliochlo A	ata Earma	a+a		
11	BBMB is maintaini specified herein ma BBMB may modify forsubmission of re	y not besuitable to the formats suitab	the avai ly as per	lable info available	rmation informat	with BBM	B.		
Note 1	Electronic copy of the petit	ion (in words form	nat) and d	letailed c	alculation	ı as per th	iese		
	ts (in excel format) and any ot					_			
websit	e and shall also be furnished i	n pen drive/flash	drive.Par	t-II Form	ı- 1Summ	ary of Ta	riffName		
of the	Petitioner:					ting Stati	on:		
		Place (Reg		•					
	Particulars	Existing 2018-19				2022-23			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
1.1	Depreciation								
1.2	Interest on Loan								
1.3	Return on Equity1								
1.4	Interest on Working Capital								
1.5	O M Expenses								
	Total								
	- 1. Details of calculations, con ned.(Petitioner)Part-II Form-		etitioner: he Gener	: ating Stat	ion:	ost- (A+B)			
S. No.	Particulars		2019-20	2020-21	2021-22	2022-23	2023-24		
(1)	(2)		(3)	(4)	(5)	(6)	(7)		
1	Opening Capital Cost								
2	Add: Addition during the year	ar / period							
3	Less: De-capitalisation durin period	g the year /							
4	Less: Reversal during the year	ar / period							
5	Add: Discharges during the y	vear / period							
6	Closing Capital Cost								
7	Average Capital Cost								
Staten	nent showing claimed capital o	cost eligible for Ro	E at norn	nal rate (A)				
S. No.	Particulars		2019-20	2020-21	2021-22	2022-23	2023-24		
(1)	(2)		(3)	(4)	(5)	(6)	(7)		
1	Opening Capital Cost								
2	Add: Addition during the year	ar / period							
3									

	Less: De-capitalisation 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					
	ment showing claimed capital cost eligible for R loan portfolio (B)	oE at we	ighted av	verage ra	te of inter	est on
S. No.	. Particulars	2019-2	2020-	21 2021-	22 2022-	23 2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Opening Capital Cost					
2	Add: Addition during the year / period					
3	Less: De-capitalisation 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					
(Petiti	ioner)Part II Form-1(II)Name of the Petitioner:					
	Name of		_			1 D .
	Statemen	it showir	ig Keturi	ı on Equi	ity at Nor	mal Kate
S. No.	Particulars	2019-2	2020-	21 2021-	22 2022-	23 2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Gross Opening Equity (Normal)					
2	Less: Adjustment in Equity					
3	Adjustment during the year					
4	Net Opening Equity(Normal)					
5	Add: Increase in equity due to addition duringthe year / period					
6	Less: Decrease due to de-capitalisation duringthe year / period					
7	Less: Decrease due to reversal during the year /period					
8	Add: Increase due to discharges during the year/ period					
9	Net closing Equity (Normal)					
10	Average Equity (Normal)					
11	Rate of ROE					

12	Total ROE					
(Peti	tioner)Statement showing Return on Equityat W	eighted	Average I	Rate of I	nterest on	Actual
Loan	Portfolio					
S. No.	Particulars	2019-2	20 2020-2	21 2021-2	22 2022-	23 2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Gross Opening Equity [pertaining to Proviso toRegulation 30(2)]					
2	Less: Adjustment in Equity					
3	Adjustment during the year					
4	Net Opening Equity					
5	Add: Increase in equity due to addition duringthe year / period					
6	Less: Decrease due to de-capitalisation duringthe year / period					
7	Less: Decrease due to reversal during the year /period					
8	Add: Increase due to discharges during the year/ period					
9	Net closing Equity [pertaining to Proviso toRegulation 30(2)]					
10	Average Equity [pertaining to Proviso toRegulation 30(2)]					
11	Rate of ROE (weighted average rate of intereston actual loan portfolio)					
12	Total ROE					
Note.	- 1.Adjustment of equity as per Proviso to Regu	lation 18	3(3) of 20	19 Tariff	Regulatio	ons.
2 14	lith roopeet to Equity influeion, the Co	noroti	na Com	nony i	a roquir	and to
	ith respect to Equity infusion, the Ge		_		=	
	stantiate with supporting documents			resor	utions,	Dalance
sne	et/ reconciliation statement with balar	ice sn	eet.			
Avail	tioner)Part-II Form- 2Details of COD, Type of hy ability Factor(NAPAF) other normative parameteritioner:		sidered for	r tariff ca		Name of

Unit

(3)

2018-19

(5)

(4)

Particulars

No.

(1) (2)

(9)

_Year Ending March

Existing 2019-20 2020-21 2021-22 2022-23 2023-24

(7)

(8)

(6)

1	Installed Capacity	MW
2	Free power to home state	%
3	Free Power under Local Area Development Fund(LADF)	%
4	Date of commercial operation(actual/anticipated)	
	Unit-1	
	Unit-2	
	Unit-3	
5	Type of Station	
	(b) Purely ROR/ Pondage/Storage	
	(c) Peaking/non-peaking	
	(d) No. of hours of peaking	
	(e) Overload capacity(MW) period	
6	Type of excitation	
	(a) Rotating exciters on generator	
	(b) Static excitation	
7	Design Energy (Annual)1	GWh
	Auxiliary Consumption	
8	including Transformationlosses	%
9	Normative Plant Availability Factor (NAPAF)	
9.1	Maintenance Spares for WC	% of OM
9.2	Receivables for WC	in Months
9.3	Base Rate of Return on Equity	%
9.4	Base Rate of Return on Equity on Add.Capitalization	
9.5	Tax Rate2	%
9.6	Effective Tax Rate4	
9.7	SBI Base Rate + 350 basis points as	%
	on3	

- 1. Monthwise 10day Design energy figures to be given separately with the petition.
- 2. Tax rate applicable to the company for the year FY2018-19should also be furnished.
- 3. Mention relevant date
- 4. Effective tax rate is to be computed in accordance with Regulation 31 i.e. actual tax (or advance tax)/gross income, where gross income refers the profit before tax.

(Petitioner)Part-II Form- 3Salient Features of H	
1. Location	
State/Dist.	
River	
2. Diversion Tunnel	
Size, shape	
Length (M)	
3. Dam	
Type	
Maximum dam height (M)	
4. Spillway	
Type	
Crest level of spillway (M)	
5. Reservoir	
Full Reservoir Level (FRL) (M)	
Minimum Draw Down Level (MDDL) (M)	
Live storage (MCM)	
6. De-silting Chamber	
Type	
Number and Size	
Particle size to be removed(mm)	

7. Head Race Tunnel

Size and type

Lend	gth (M)		,(
`	gn discharg	re(Cumecs)		
	arge Shaft	(Cullicus)		
Тур	_			
	neter (M)			
	ght (M)			
-		ssure shafts		
Туре	,	33 41 6 3144163		
	neter Lengt	h (M)		
	Power Hous			
		ty (No of units x	MW)	
	e of turbine	., (
• -	ed Head(M)			
	ed Discharge			
	Ü	servoir Level (M)	
		ım Draw down I		
MW	Capability	at FRL		
MW	Capability	at MDDL		
11. T	ail Race Tu	nnel/Channel		
Diar	neter (M) ,	shape		
Leng	gth (M)			
Min	imum tail w	vater level (M)		
12. 8	Switchyard			
Туре	e of Switch g	gear		
No.	of generator	r bays		
No.	of Bus coup	ler bays		
No.	of line bays			
Effic	eiency (over	rall) Turbine and	l generator	
				cific time period(s) on account of restrictions on
		_	_	ial, environmental considerations
			etails of Foreign Io e of the Petitioner	ans(Details only in respect of loans applicable to
the p	noject unde	er petition/ivallic	e of the feutioner	Name of the Generating Station
				Exchange Rate at COD
				Exchange Rate as on 31.3.2019
	Financial	Year Year 2	Year 3	
	Year	1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and so on	
	(Starting			

from COD)

(1) (2) (3) (4)(5) (6) (7) (8)(9) (10)(11) (12) Relevant Amount **Amount Amount** Relevant Amount Amount Exchange (Rs. Date (Foreign Date (Foreign Exchange Date (Foreign (Rs.Lakh) Currency Currency) Rate Lakh) Currency) Rate

Currency11

A.1 At the date of Drawl2

Scheduled

repayment

date of principal

Scheduled

payment 3

date of

interest

At the end

of

4 Financial

year

B In case of Hedging3

At the date of hedging

Period of hedging

Cost of hedging

Currency21

A.1 At the date of Drawl2

or Drawiz

Scheduled

repayment 2

date of

principal

Scheduled

payment

date of

interest

4

At the end

of

Financial

year

- B In case of
 - Hedging3
- At the date
 - of hedging
- Period of
- 2 hedging
- Cost of
- 3 hedging

Currency31

so on

A.1 At the date

of Drawl2

Scheduled

- repayment 2
 - date of
 - principal

Scheduled

payment

date of

interest

At the end

of

1

4 Financial

year

B In case of

Hedging3

At the date

of hedging

Period of

hedging

Cost of

3 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.

——————————————————————————————————————	ny applicable to the project under petition)Name of the Petitioner Name of the Generating Station Exchange Rate on date/s of infusion										
S. No.	Financial Year	Year	Year 2	Year 3 and so on							
(1)	(2)	(3) Date	(4) Amount (Foreign Currency)	(5) Relevant Exchange Rate			(8) Amount (Foreign Currency)	(9) Relevant Exchange Rate	(10) Amount (Rs. Lakh)		(12) Amoun (Foreign Currence
A.1 2 3	Currency11 At the date of infusion2										
A.1 2 3	Currency21 At the date of infusion2										
A.1 2	Currency31 At the date of infusion2										

3

	Currency41and
	so on At the date of
A.1	infusion2
2	
3 1. N	lame of the currency to be mentioned e.g. US\$, DM, etc.
	n case of equity infusion more than once during the year, Exchange rate he date of each infusion to be given
	itioner)Part-II Form- 5Abstract of Admitted Capital Cost for the existing ProjectsName of the tionerName of the Generating Station
(Capital Cost as admitted by CERC
(a)	Capital cost admitted as on
((Give reference of the relevant CERC Order withPetition No. Date)
(b)	Foreign Component, if any (In Million US \$ orthe relevant Currency)
(c)	Foreign Exchange rate considered for theadmitted Capital cost (Rs Lakh)
(d) '	Total Foreign Component (Rs. Lakh)
(e)	Domestic Component (Rs. Lakh.)
(f)	Hedging cost, if any, considered for theadmitted Capital cost (Rs. Lakh)
,	Total Capital cost admitted (Rs. Lakh)(d+e+f)
	itioner)Part-II Form- 5AAbstract of Capital Cost Estimates and Schedule of Commissioning for
me I	New ProjectsName of the PetitionerName of the Generating Station
	rd of Director/ Agency approving the ital costestimates:

Date of approval of the Capital cost estimates:		
	Present Day Cost	Completed Cost
Price level of approved estimates	As on End of the year	As on scheduled COD of the Station
Foreign Exchange rate considered for the Capital costestimates		
Capital Cost excluding IDC, IEDC FC		
Foreign Component, if any (In Million US \$ or the relevantCurrency)		
Domestic Component (Rs. Lakh)		
Capital cost excluding IDC, IEDC, FC, FERV HedgingCost (Rs. Lakh)	,	
IDC, IEDC, FC, FERV Hedging Cost		
Foreign Component, if any (In Million US \$ or the relevantCurrency)		
Domestic Component (Rs. Lakh)		
Caipital cost Including IDC, IEDC FC (Rs. Lakh)		
Schedule of Commissioningas per investment approval		
Scheduled COD of Unit-I		
Scheduled COD of Unit-II		
Scheduled COD of last Unit/Station		
Note 1. Copy of approval letter should be e	nclosed	

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.

		- 5BBreak-up of Capital ioner	•		O	ne of the
					ount in Rs	
S. No. (1)	Break Down (2)	Original Cost as approved byAuthority/Investme Approval (3)	Actual Capital Expenditure as entactual/anticipat COD (4)	Liabilities/ Provisions ted (5)	Variation (6=3-4-5)	Reasons for Variation (7)
1	Infrastructure Works					
1.1	Preliminary including Development					
1.2	Land*					
1.3	RR expenditure					
1.4	Buildings					
1.5	Township					
1.6	Maintenance					
1.7	Tools Plants					
1.8	Communication					
1.9	Environment Ecology					
1.1	Losses on stock					
1.11	Receipt Recoveries					
1.12	Total (Infrastructure works)					
2	Major Civil Works					
2.1	Dam, Intake De-silting Chambers					
2.2	HRT, TRT, Surge Shaft Pressure shafts					
2.3	Power Plant civil works					
2.4	Other civil works					

(to be specified)

- Total (Major Civil 2.5
- Works)
- Hydro Mechanical 3 equipment
- Plant Equipment 4
- Initial spares of 4.1 Plant Equipment
- Total (Plant 4.2 Equipment)
- Taxes and Duties 5
- 5.1 Custom Duty
- 5.2 Other taxes Duties
- 5.3 Total Taxes Duties
 - Construction
- Precommissioning expenses
- Erection, testing 6.1 commissioning
- Construction 6.2
 - Insurance
- 6.3 Site supervision
- Total (Const.
- Precommissioning)
- Overheads
- 7.1 Establishment
- 7.2 Design Engineering
- 7.3 Audit Accounts
- 7.4 Contingency
 - Rehabilitation
- Resettlement
- 7.6 Total (Overheads)

8

Capital Cost without IDC, FC, FERVHedging Cost

- 9 IDC, FC, FERV Hedging Cost
- 9.1 Interest During
 Construction (IDC)
- 9.2 Financing Charges (FC)

Foreign Exchange

- 9.3 Rate Variation (FERV)
- 9.4 Hedging Cost
- 9.5 Notional IDC
- 9.6 Total of IDC, FC, FERV Hedging Cost
- 9.7 Revenue from Infirm Power Capital cost
- including IDC, FC,FERVHedging Cost

*Provide details of Freehold Land, Leasehold Land and Land under reservoir separatelyNote. - 1. 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.

- 2. In case of both time cost overrun, 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 overrun was beyond the control of the generating company.
- 3. 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 IEDC from scheduled COD to actual COD/anticipated COD and increase of IDC from scheduled COD to actual anticipated COD.

- 4. 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.
- 5. A list of balance work assets/work wise including initial spare on original scope of works along with estimate shall be furnished positively.

		Break-up of Capital Cost fo		New Project of the Gene	
Stati	on		(Amount in F	ks Lakh)	
S. No.	Break Down	Original Cost as approved byAuthority/Investment Approval	Cost on Actual/anticipated COD	Variation	Reasons for Variation*
(1)	(2)	(3)	(4)	(5)	(6)
		Total Cost	Total Cost		
1	Generator, turbine Accessories				
1.1	Generator package				
1.2	Turbine package				
1.3	Unit control Board				
1.4	CI package				
1.5	Bus Duct of GT connection				
1.6	Total (Generator, turbine Accessories)				
2	Auxiliary Electrical Equipment				
2.1	Step up transformer				
2.2	Unit Auxiliary Transformer				
2.3	Local supply transformer				
2.4	Station transformer				
2.5	SCADA				
2.6	Switchgear, Batteries, DC dist. Board				

2.7

Telecommunication equipment

- 2.8 Illumination of Dam, PH and Switchyard
- 2.9 Cables cable facilities, grounding
- 2.1 Diesel generating sets
- 2.11 Total (Auxiliary Elect. Equipment)

Auxiliary equipment

- 3 services for power station
- 3.1 EOT crane
- 3.2 Other cranes
- 3.3 Electric lifts elevators
- 3.4 Cooling water system
- Drainage dewatering
- 3.5 system
- 3.6 Firefighting equipment
- Air conditioning,
- ventilation and heating
- 3.8 Water supply system
- 3.9 Oil handling equipment
- 3.1 Workshop machines equipment
- Total (Auxiliary equip.
- 3.11 services for PS)
- 4 Switchyard package
- 5 Initial spares for all above equipment
 Total Cost (Plant
- 6 Equipment) excluding IDC, FC, FERVHedging Cost
- 7 IDC, FC, FERV Hedging Cost

Interest During 7.1 Construction (IDC) 7.2 Financing Charges (FC) Foreign Exchange Rate 7.3 Variation (FERV) 7.4 Hedging Cost Total of IDC, FC, FERV 7.5 **Hedging Cost** Total Cost (Plant Equipment) including 8 IDC, FC, FERVHedging Cost

Note. - In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost overrun was beyond the control of the generating company.(Petitioner)Part-II Form- 5DBreak-up of Construction/Supply/Service packagesName of the Petitioner Name of the Generating Station (Amount in Rs Lakh) Package Package Package S. Name/No. of Construction / Supply / Total Cost of all No ServicePackage В C packages Α Scope of works1 (in line with head of

- costbreak-ups as applicable)
- 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 Award2 in (Rs. Lakh)
- 8 Firm or With Escalation in prices
 - Actual capital expenditure till the
- 9 completionor 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 (10+11+12) (Rs. Lakh)

Note. - 1. The scope of work in any package should be indicated in conformity of Capital cost break-up for the new Hydro Power Generating Station in the FORM-5B to the extent possible. For Plant Equipment (New Projects)break down in the similar manner in the relevant heads as per FORM-5C.

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

(Petitioner)Part-II Form- 5EiIn case, there is cost over runName of the Petitioner

_______Name of the GeneratingStation

			Name of the	e Generatin	gStation	
S. No.	. Break Down	as	Actual/Estimated Cost as incurred/to beincurred(Rs. Lakh)		Reasons for Variation(Please submit supportingcompound documents wherever applicable)	cost due
			Total Cost	Total Cost		2
(1)1	(2) Cost of Land Site Development	(3)	(4)	(5)	(6)	(7)
1.1	Land*					
1.2	Rehabilitation Resettlement (RR)					
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
 - Air Condition Ventilation
- 2.3.12 System
- 2.3.12 Firefighting System
- 2.3.14 HP/LP Piping

Total BOP Mechanical

- 2.4 BOP Electrical
- 2.4.1 Switch Yard Package
- 2.4.2 Transformers Package
- 2.4.3 Switch gear Package
- Cables, Cable facilities
- grounding
- 2.4.5 Lighting
- 2.4.6 Emergency D.G. set

Total BOP Electrical

Control Instrumentation (C

I)Package

Total Plant Equipment excluding taxesDuties

- 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
- 4.1 Ash Handling System
 - Ash disposal area
- 4.11 development

3.1.1

- Firefighting System 4.12 **Township Colony** 4.13 Temp. construction enabling 4.14 works 4.15 **Road Drainage Total Civil works** Construction 5 **Pre-Commissioning Expenses Erection Testing and** 5.1 commissioning Site supervision 5.2 **Operator's Training** 5.3 **Construction Insurance** 5.4 **Tools Plant** 5.5 Startup fuel 5.6 **Total Construction** Pre-CommissioningExpenses 6 Overheads 6.1 Establishment 6.2 **Design Engineering** 6.3 **Audit Accounts** 6.4 Contingency **Total Overheads** Capital cost excluding IDC FC 7 8 IDC, FC, FERV Hedging Cost **Interest During Construction** 8.1 (IDC) 8.2 Financing Charges (FC) Foreign Exchange Rate 8.3 Variation (FERV)
- 8.2 Financing Charges (FC)

 Foreign Exchange Rate
 Variation (FERV)

 8.4 Hedging Coat

 Total of IDC, FC, FERV

 Hedging Cost

 Capital cost including IDC,
 FC, FERVHedging Cost

 *Submit details of Freehold and Legers and conditions are also as a second condition.

^{*}Submit details of Freehold and Lease hold landNote. - Impact on account of each reason for Cost overrun should be quantified and substantiated with necessary documents and supporting workings.(Petitioner)Part-II Form- 5EiiIn case, there is time over runName of the Petitioner

Other Activity Original Description of effected Actual Schedule (As Time Reasons S. No Activity/ Schedule (As (Mention S. No per Over-Run for delay ofactivity Works/Service per Actual) Planning) affected) Actual **Actual Start** Start **Completion Date** Completion Days Date Date Date (2) (3)(1) (4) (5)(6) (7) (8)(9)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-	II Form- 6Financial Package	upto CODName of the	Petitioner			
	Name of the Generating Station					
	Project Cost as on COD1Date of Commercial Operation of the					
Station2						
Particulars	Financial Package as Approved	Financial Package as on COD	As Admitted on COD			
Currency and Amount3	Currency and Amount3	Currency and Amount3				
(1)	(2)	(3)	(4)	(5) (6) (7)		
Loan-I	US \$	200m				
Loan-II						

Loan-III

and so on

Equity-

Foreign

Domestic

Total Equity

Debt: Equity Ratio

Note. - 1. Say Rs. 80 Cr. + US\$ 200 m or Rs. 1480 Cr. including US\$ 200 m at an exchange rate of US\$=Rs70 $\,$

2. Date of Commercial Operation means Commercial Operation of the last unit

3. For example: US \$ 200m, etc.

(Petitioner)Part-II Form- 7Details of Project Specific LoansNan				nsName of the Petitioner Tame of the Generating Station			
Particulars	Package1	Package2	Package3	Package4	Package5	Package	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Source of Loan1							
Currency2							
Amount of Loan sanctioned							
Amount of Gross Loan drawn upto							
31.03.2019/COD3,4,5,13,15							
Interest Type6							
Fixed Interest Rate, if applicable							
Base Rate, if Floating Interest7							
Margin, if Floating Interest8							
Are there any Caps/Floor9	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	
If above is yes, specify caps/floor							
Moratorium Period10							
Moratorium effective from							
Repayment Period11							
Repayment effective from							
Repayment Frequency12							
Repayment Instalment13,14							
Base Exchange Rate16							

Are foreign currency loan hedged?

If above is yes, specify details17

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

- 2. Currency refers to currency of loan such as US Dollars (\$), DM, Yen, Indian Rupee etc.
- 3. Details are to be submitted as on 31.03.2019 for existing assets and as on COD for the remaining assets.
- 4. Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.
- 5. 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.
- 6. Interest type means whether the interest is fixed or floating.
- 7. Base rate means the base as PLR, MCLR, LIBOR etc. over which the margin is to beadded. Documentary evidence for applicable base rate on different dates from the date of drawl may also be enclosed.
- 8. Margin means the points over and above the floating rate.

9.

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

- 10. Moratorium period refers to the period during which loan servicing liability is not required.
- 11. Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

- 12. Repayment frequency means the interval at which the debt servicing is to bedone such as monthly, quarterly, half-yearly, annual, etc.
- 13. Where there is more than one drawl/repayment for a loan, the date amount of each drawl/repayment may also be given separately.
- 14. If the repayment installment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.
- 15. In case of foreign loan, date of each drawl repayment along with exchange rate at that date may be given with documentary evidence.
- 16. Base exchange rate means the exchange rate prevailing as on 31.03.2019 for existing assets and as on COD for the remaining assets.
- 17. In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.
- 18. In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.
- 19. At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.
- 20. 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.
- 21. Call or put option, if any exercised by the generating company for refinancing of loan.
- 22. Copy of loan agreement.

(Petitioner)Part-II Form-8Deta	ils of Allocation of corporate loans to various projectsName of the
Petitioner	Name of the Generating Station

Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 -1 -6 -2 -3 -5 -7 Source of Loan1 Currency2 Amount of Loan sanctioned Amount of Gross Loan drawn upto 31.03.2019/COD3,4,5,13,15 **Interest Type6** Fixed Interest Rate, if applicable Base Rate, if Floating Interest7 Margin, if Floating Interest8 Are there any Caps/Floor9 Yes/No Yes/No Yes/No Yes/No If above is yes, specify caps/floor Moratorium Period10 Moratorium effective from Repayment Period11 Repayment effective from Repayment Frequency12 Repayment Instalment13,14 Base Exchange Rate16 Are foreign currency loan hedged? If above is yes, specify details17 Distribution of loan packages to

variousprojects

Name of the Projects Total

Project 1

Project 2

Project 3 and so on

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

- 2. Currency refers to currency of loan such as US Dollars (\$), DM, Yen, Indian Rupee etc.
- 3. Details are to be submitted as on 31.03.2019 for existing assets and as on COD for the remaining assets.

- 4. Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.
- 5. 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.
- 6. Interest type means whether the interest is fixed or floating.
- 7. Base rate means the base as PLR,MCLR, 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.
- 8. Margin means the points over and above the floating rate.
- 9. At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.
- 10. Moratorium period refers to the period during which loan servicing liability is not required.
- 11. Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.
- 12. Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half-yearly, annual, etc.
- 13. Where there is more than one drawl/repayment for a loan, the date amount of each drawl/repayment may also be given separately
- 14. If the repayment installment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.
- 15. In case of foreign loan, date of each drawl repayment along with exchange rate at that date may be given with documentary evidence.

- 16. Base exchange rate means the exchange rate prevailing as on 31.03.2019 for existing assets and as on COD for the remaining assets.
- 17. In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.
- 18. In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.
- 19. At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.
- 20. 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.
- 21. Call or put option, if any exercised by the generating company for refinancing of loan.

22. Copy of loan agreement.

(Petition	er)Part-II Form- 9. er	AYear wise Sta	tement of Addi	-	sation after CODN e of the Generating	
			C	OD		3
			F	or Financial Y	ear	
S. No.	Head of Work / Equipment	ACE Claimed (Actual / Projected)	O	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 9 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 to 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-capitalized during that year and original value of such asset to be shown at col. 3. In addition, 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.

•		r)Part-II Form- 9BStatement o tioner	of Additional Capitalisat	tion during end of theName of the	•
Stati	on			COD	
S. No.	Year	Work/Equipment added during last five years ofuseful life of each Unit/Station	Amountcapitalized /Proposed to be capitalized(Rs Lakh)	Justification for capitalisation proposed	Impact on life extension
(1) 1	(2)	(3)	(4)	(5)	(6)

Indian Kanoon - http://indiankanoon.org/doc/151510064/

2						
3						
4						
5						
	1. Cost B oval of such	enefit analysis for capital additions a schemes	done should be sul	bmitted	along with petition fo	r
be r	elevant t	on for additional capital exposers or regulation under which contact the access.				
•		n of the asset -II Form- 9BiDetails of Assets De-c	capitalized during tl	ne perio	1	
Nam	ie of the Pet	citioner				
Nam	ne of the Ge	nerating Station				
Regi	on	State			District	
S. No.		Nature of de-capitalization (whether claimedunder exclusion or as additional capital expenditure)	Original Value of the Asset Capitalized	Year Put to use	Depreciation recovered till date ofde-capitalization	
(1)	(2)	(3)	(4)	(5)	(6)	
1						
2						
3						
4						
5						
		e detail need to be submitted.(Petit with the capital additions as per bo	oksName of the Pe Name of the G	titioner	-	1
			COD	. I al-b)		
S.	Particular	s	(Amount in Rs 2019-20 2020-		-22 2022-23 2023-24	ļ

Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019

Closing Gross Block as per IND AS

1

1

2

6

7

3 4 5

Add/Less: Adjustments 2 Closing Gross Block as per IGAAP 3 Opening Gross Block as per IND AS 4 Add/Less: Adjustments 5 6 Opening Gross Block as per IGAAP Total Additions as per books (G=3-5)7 Less: Additions pertaining to other Stages 8 (giveStage wise breakup) Net Additions pertaining to 9 instantproject/Unit/Stage Less: Exclusions (items not allowable / 10 notclaimed) Net Additional Capital Expenditure Claimed(on 11 accrual basis) Less: Un-discharged Liabilities 12 Add: Discharges of un-discharged liabilities, corresponding to admitted 13 assets/works Net Additional Capital Expenditure Claimed(on 14 cash basis) Note. - Reason for exclusion of any expenditure shall be given in clear terms.(Petitioner)Part-II Form- 9DStatement showing items/assets/works claimed under Exclusions:Name of the Petitioner Name of the Generating Station COD ACE Claimed under

S. No.	Head of Work /Equipment	Exclusion 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. - 1. Exclusions 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 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-II Form- 9EName of the Petitioner

Name of the Generating Station Statement of Capital cost(To be submitted for relevant dates and year wise)(Amount in Rs. Lakh) As on S. No. **Particulars** relevant date. Cash Accrual Basis Un-discharged Liabilities **Basis** (1) (2)(3)(4) (5)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 (a) Addition in Gross Block Amount during theperiod (Direct В 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 (a) Addition in Gross Block Amount during theperiod \mathbf{C} (Transferred from CWIP) (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 Gross Block Amount during theperiod (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 book	ks	
	(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		
	. Relevant date/s means date of COD of unit/s/sta	ation and financial year star	t date and end
date(Pet	itioner)Part-II Form- 9FName of the Petitioner		
		ame of the Generating Station at the areast of Capital Woks in	
submitte	ed for relevant dates and year wise)(Amount in Rs	_	Progress(10 be
S. No.	Particulars	As on releva	nt date.
Accrual	Basis Un-discharged Liabilities	Cash Basis	
(1)	(2)	(3)	(4) (5)
A	(a) Opening CWIP as per books	(0)	(1) (0)
	(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		
В	(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 dur	ing theperiod	
	(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		

	Central Electric	ity Regulato	ory Commis	sion (Terms	s and Cor	nditions of T	Γariff) Re	gulation	s, 2019		
	(c) Amount o	of FC in I	O(a) abo	ve							
	(d) Amount of	of FERV	in D(a) a	above							
	(e) Amount o	of Hedgi	ng Cost i	n D(a) a	bove						
	(f) Amount o	f IEDC i	n D(a) al	oove							
E	(a) Closing C	WIP as _I	per book	S							
	(b) Amount of	of IDC in	E(a) abo	ove							
	(c) Amount o	of FC in I	E(a) abov	⁄e							
	(d) Amount of	of FERV	in E(a) a	bove							
	(e) Amount o	of Hedgi	ng Cost i	n E(a) al	bove						
	(f) Amount o	f IEDC i	n E(a) al	ove							
date(Petition	er)Part-II For	m- 10Fir	nancing o	of Additi	Naı Dat	apitalisa me of the te of Cor nount in	e Gene nmerc	rating ial Op	Statio	on	ıer
		Actual	Admitte	d				,,			
Financial Year from COD)1	ar (Starting	Year 1	Year 2	Year3	Year4	Year 5 So on	Year 1	Year	Year	Year 4	Year 5 So on
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Amount Capi Work/Equip											
Financing De	etails										
Loan-1											
Loan-2											

Loan-3 and so on

Total Loan2

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.

(Pet	itioner)Part-II	Form- 11Calculation of Dep]	Name o	of the Petition of the Gener on in Rs Lak	ating S	Station	
S. No.	Name of the Assets1	Gross Block as on 31.03.2 on COD, whichever is late subsequently for each yea thereafter upto31.03.202	r and ar	per CE	ERC's ciationRate	A ye	epreciation mount foear up 131.03.20	r each
(1)	(2)	(3)		(4)		(5	5= Col.3 X	(Col.4)
1	Land*							
2	Building							
3	and so on							
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
	Total							
	Weighted Average Rate							
	of							
	Depreciation							
	(%)							
*Pro	vide details of l	Freehold Land, Leasehold I	and and	Land u	nder reservo	oir sep	aratelyNo	ote 1.
		should conform to the desc	_				_	
		to the Notification.(Petitio					Depreciat the Gene	
					(Amount in			rating
S. No.	Particulars				2020-21 20			3 2023-24
(1)	(2)	(3) (4	4)	(5) (6	5)	(7)	(8)
1	Opening Capi	tal Cost						

Closing Capital Cost 2 **Average Capital Cost** 3 Freehold land* 4 Rate of depreciation 5 6 Depreciable value Balance useful life at the beginning of 7 theperiod 8 Remaining depreciable value Depreciation (for the period) 9 Depreciation (annualized) 10 Cumulative depreciation at the end of 11 the period Less: Cumulative depreciation adjustment onaccount of 12 un-discharged liabilities deducted as on 01.04.2009 Less: Cumulative depreciation adjustment onaccount of 13 de-capitalisation Net Cumulative depreciation at the 14 end of theperiod

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

Petitioner			Name	of the Ge	nerating	Station
		(Amour	nt in Rs L	akh)		
Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Loan-1						
Gross loan - Opening						
Cumulative repayments of Loans upreviousyear	ıpto					
Net loan - Opening						
Add: Drawl(s) during the Year						
Less: Repayment (s) of Loans duri	ng					
the year						
Net loan - Closing						

Average Net Loan

Rate of Interest on Loan on annual

basis

Interest on loan

Loan-2

Gross loan - Opening

Cumulative repayments of Loans upto

previousyear

Net loan - Opening

Add: Drawl(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

Loan-3 and so on

Gross loan - Opening

Cumulative repayments of Loans upto

previousyear

Net loan - Opening

Add: Drawl(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

Total Loan

Gross loan - Opening

Cumulative repayments of Loans upto

previousyear

Net loan - Opening

Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 Add: Drawl(s) during the Year Less: Repayment (s) of Loans during the year Net loan - Closing Average Net Loan Interest on loan Weighted average Rate of Interest on 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-13ACalculation of Interest on Normative LoanName of the Petitioner Name of the Generating Station (Amount in Rs Lakh) S. Existing **Particulars** 2019-20 2020-21 2021-22 2022-23 2023-24 No. 2018-19 (1) (2)(3)(4) (5)(6) (7) (8)Gross Normative loan - Opening 1 Cumulative repayment of 2 Normative loan uptoprevious year Net Normative loan – Opening 3 Add: Increase due to addition 4 during the year /period Less: Decrease due to de-capitalisation during the year / 5 period Less: Decrease due to reversal 6 during the year /period Add: Increase due to discharges 7 during the year/ period 8 Net Normative loan - Closing Average Normative loan 9 Weighted average rate of interest 10 Interest on Loan 11 (Petitioner)Part-II Form -13BCalculation of Interest on Working CapitalName of the Petitioner Name of the Generating Station (Amount in Rs Lakh)

Existing

2018-19

(4)

(5)

(3)

S. No. Particulars

(2)

O M Expenses

(1)

1

(8)

2019-20 2020-21 2021-22 2022-23 2023-24

(7)

(6)

- 2 Maintenance Spares
- 3 Receivables
- 4 Total Working Capital
- 5 Rate of Interest
- 6 Interest on Working Capital

S.No.	Parameters	Existing 2018-19	2019-2	2019-20 2020-21 2021-22 2022-				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
1	Income from rent of land or buildings							
2	Income from sale of scrap							
3	Income from advertisements							
Note	To be submitted at the time of t	ruing up(Pet	titioner)Pa	art-II Fo	rm -131	OIncident	al	
Expen	diture during ConstructionName	e of the Petiti		C-1 - C		a		
				of the Ge nt in Rs		ng Station		
			(Aiii0u	III III NS .	Lakii)	Upto		
S. No.	Parameters		Upto S	Upto Schedule COD		Actual/Anticipated COD		
(1)	(2)		(3)			(4)		
A	Expenses:		107					
1	Employees' Benefits Expense	s						
2	Finance Costs							
3	Water Charges							
4	Communication Expenses							
5	Power Charges							
6	Depreciation							
7	Other Office and Administrat	ive Expense	S					
8	Others (Please Specify Detail	s)						
9	Other pre-Operating Expense	es						
	•••••							
В	Total Expenses							
10	Less: Income from sale of ten	ders						
11	Less: Income from guest hou	se						
12	Less: Income recovered from	Contractors						
13	Less: Interest on Deposits							

(Petitioner)Part-II Form- 14Draw Down Schedule for Calculation of IDC Financing ChargesName of the Petitioner _ Name of the Generating Station Quarter Quarter Draw S. No. Quarter 1 Down n (COD) Amount Amount Amount Exchange Exchange Exchange in in Quantum Quantum Rate on Rate on Quantum Rate on Indian in Indian Indian in Particulars in Foreign draw draw draw Rupee Foreign Rupee Foreign Rupee currency down down down (Rs currency (Rs currency (Rs date date date Lakh) Lakh) Lakh) (1) (2) (3)(4) (5) (6) (7) (8) (9) (10)(11) Loans 1 Foreign 1.1 Loans Foreign 1.1.1 Loan 1 Draw down **Amount** IDC **Financing** charges Foreign Exchange Rate Variation Hedging Cost Foreign 1.1.2 Loan 2 Draw down **Amount** IDC **Financing** charges Foreign Exchange

Rate Variation Hedging Cost Foreign 1.1.3 Loan 3 Draw down Amount IDC Financing charges Foreign Exchange Rate Variation Hedging Cost 1.1.4 Total Foreign 1.1 Loans Draw down Amount IDC Financing charges Foreign Exchange Rate

Variation Hedging Cost

1.2	Indian Loans			
1.2.1	Indian Loan 1 Draw down	 	 	
	Amount			
	IDC	 	 	
	Financing charges	 	 	
1.2.2	Indian Loan 2			
	Draw down Amount	 	 	
	IDC Financing charges	 	 	
1.2.3	Indian Loan 3 Draw			
	down Amount	 	 	
	IDC	 	 	
	Financing charges	 	 	
1.2.4		 	 	
1.2	Total Indian Loans Draw	 	 	
	down			

	Amount IDC Financing charges	 	 	
1	Total of Loans drawn IDC Financing charges Foreign Exchange Rate Variation Hedging Cost			
2	Equity			
2.1	Foreign equity drawn			
2.2	Indian equity drawn	 	 	
	Total equity deployed			

Note. - 1. Drawl of debt and equity shall be on pari-passu basis quarter wise to meet the commissioning schedule. Drawl 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 capitalisation ratio used to be furnished.

4. Detailed calculation of IDC (Actual drawl and repayment dates and amount, rates of interest, etc.) should be furnished.

(Petitioner)Part-II Form- 14AActual Cash Expend			f the Petition of the Genera		ntion
			nt in Rs Lakh	_	ation
Particulars	Quarter-	-I Qu	arter-II Quai	ter-III	Quarter-n (DOCO)
(1)	(2)	(3)	(4)		(5)
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 towardscapital assets					
Cumulative payments					
Note If there is variation between payment and furnished(Petitioner)Part-II Form- 15ADesign en with Pondage/Storage type new stationsName of	ergy and the Petit	l peak tioner	ing capabilit	y (mon	th wise)- ROR
GeneratingCompany					
Name of Hydro-Electric Generating Station:	······				
Installed Capacity: No of Units X MW=					
Month			Design Energy* (MUs)		signed Peaking pability (MW)*
April		I			
•		II			
		III			
May		I			
v		II			
		III			
June		Ι			

	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
Total	
*As per DPR/TEC of CEA dated	
Note:	
Specify the number of peaking hours for whichstation has been designed.	S
(Petitioner)Part-II Form- 15BDesign energy and MW Con	atinuous (month wise) - RORtype
stationsName of the Petitioner	
Generating Station	
GeneratingCompany	

Name of Hydro-Electric Generating Station:....

Installed Capacity: No of Units X MW=

Month	Design Energy* (MUs) Designed Peakin 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		
Total						
*As per DPR/TEC of C	EA dated	l				
Note:						
Specify the number of been designed.	peaking l	hours for whichs	tation has			
(Petitioner)Part-II For	m- 16Sta	tement of Liabili	•	ne of the Petition ne of the Generat		
Party	Asset / Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2019	Discharges (Year wise)	Reversal (Year wise)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
(a) For assets eligible for normal RoE						
(b) For assets eligible for RoE at weightageaverage rate of interest on loan						

(Petitioner)Part II Form 17Operation and Maintenance ExpenseIn case of the hydro generating stations declared under commercial operation on or after 1.4.2019

Total capital expenditure up to cutoff date (a)

RR Expenditure (b)

IDC IEDC (c)

Capital cost considered for OM expense(d)= (a)-(b)-(c)

First year annualize OM expenses @ 3.50% of above (e) =3.50% of (d)

OM expense for next year @ 4.77% of above (f) = 4.77% of(e)

Additional OM expenses due to 7thPay Commission WageRevision

Additional OM expenses due to Minimum Wage Revision

Additional OM expenses due to Goods and Services Tax(GST)

				Nam	COI
Partic	Ŭ			Amount Claimed	
(1)		(2)	(3)	(4)	
Electr	icity Duty				
Water	· Cess				
	•				
(Petiti	oner)Part	II Form 19	Summary of	issue involved in the petition	
1.	Petitione	r:			
2.	Subject				
3.	Prayer:(1)(2)(3)	•••••		
4.	Responde	ents			
	Name of	Responder	nts:		
	a.				
	b.				
	c.				
5.	Project S	cope	ICDEF	EHSAUXNAPAF	
	Cost		Sanctio	on Cost Latest RCE	
	Commiss	ioning	Unit/S	tation COD	
Claim					
	AFC				
	Capital co	ost			
	Initial sp	are			
	NAPAF				
	Design E	nergy			
	Any Spec	ific			
Tariff	Filing For	ms (Transı	mission Com	munication System)For Determination of TariffPart-III	
Annex	ure-IInde	xPart-III C	hecklist of Fo	orms and other information/ documents for tariff filing	for
Transı	mission Sy		munication S		
Form	No.	Title of Ta	riff Filing Fo	rms (TransmissionCommunication System) Tick	Tick

Summary of Tariff

FORM- 1

FORM- 1A	Summary of Asset level cost
FORM-2	Details of Transmission Lines and Substationsand Communication System covered in the project scope and OMfor instant asset
FORM-3	Normative parameters considered for tariffcomputations
FORM- 4	Abstract of existing transmissionassets/elements under project, Determination of Effective COD andWeighted Average Life for single AFC for the project as whole.
FORM- 4A	Statement of Capital cost
FORM-4B	Statement of Capital Works in Progress
FORM- 4C	Abstract of Capital Cost Estimates and Scheduleof Commissioning for the New Project/Element
FORM-5	Element wise Break-up of Project/Asset/ElementCost for Transmission System or Communication System
FORM-5A	Break-up of Construction/Supply/Service packages
FORM-5B	Details of all the assets covered in the project
FORM-6	Actual Cash Expenditure and Financial Package upto COD
FORM-7	Statement of Additional Capitalisation after COD
FORM- 7A	Financing of Additional Capitalisation
FORM- 7B	Statement of Additional Capitalisation duringfive year before the end of the useful life of the project.
FORM-8	Calculation of Return on Equity
FORM-8A	Details of Foreign Equity
FORM-9	Details of Allocation of corporate loans tovarious transmission elements
FORM-9A	Details of Project Specific Loans
FORM-9B	Details of Foreign loans
FORM-9C	Calculation of Weighted Average Rate of Intereston Actual Loans
FORM-9D	Loans in Foreign Currency
FORM-9E	Calculation of Interest on Normative Loan
FORM- 10	Calculation of Depreciation Rate on original project cost
FORM- 10A	Statement of Depreciation
FORM- 10B	Statement of De-capitalisation
FORM- 11	Calculation of Interest on Working Capital
FORM- 12	Details of time over run
FORM- 12A	Incidental Expenditure during Construction
FORM- 12B	Calculation of IDC Financing Charges
FORM- 13	Details of Initial spares
FORM- 14	Non-Tariff Income
FORM- 15	Summary of issue involved in the petition

Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019

Summary of Capital Cost Annual Fixed Cost(AFC) Claimed for ALL the assets FORM A covered in the present petition. Other Information/ **Documents** S. No. Information/Document Tick Tick Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, Articles of Association (For New Project(s) 1 setup by a companymaking tariff application for the first time to CERC) Region wise and Corporate audited Balance Sheetand Profit Loss Accounts with all the SchedulesAnnexure for the new Transmission System 2 CommunicationSystem for the relevant years. Copies of relevant loan Agreements 3 Copies of the approval of Competent Authority for the Capital Cost and 4 Financial package. Copies of the Equity participation agreements and necessary approval for the 5 foreign equity. 6 Copies of the BPTA/TSA/PPA with thebeneficiaries, if any Detailed note giving reasons of cost and time over run, if applicable. List of supportingdocuments to be submitted:a. Detailed ProjectReportb. CPM 7 Analysisc. PERT Chart and BarChartd. Justification for cost and time Overrun Transmission Licensee shall submit copy of CostAudit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system assubmitted to the Govt. of India for first two years i.e. 2019-20and 2020-21 at the time of mid-term true-up in 2021-22 and 8 forbalance period of tariff period 2019-24 at the time of finaltrue-up in 2024-25. In case of initial tariff filing the latestavailable Cost Audit Report should be furnished. BBMB is maintaining the records as per therelevant applicable Acts. Formats specified herein may not besuitable to the available information with BBMB. 9 BBMB may modify the formats suitably as per available information to them forsubmission of required information for tariff purpose Any other relevant information, (Please specify) 10 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-III Summary of TariffForm-1Name of the Transmission Assets S.No. Particulars Form No. 2019-20 2020-21 2021-22 2022-23 2023-24 1 4 5 6 8 3 Depreciation 1

Interest on Loan

2

- 3 Return on Equity
- 4 Interest on Working Capital
- 5 O M Expenses

Total AFC

Note. - This Form is a summary form and the Data to this from should flow from other base forms.(Petitioner)Part-III Form-1ASummary of Asset Level CostName of the Transmission Assets

_____(Amount in Rs. Lakh)

(A) Summary

of Capital

Cost, Means

of Financeof

the Asset

(i)

Particular Apportioned

Approved Cost (ii) Summary of

Actual / Projected

CapitalCost

as per IA

As per RCE

As on COD/01-04-2019

2019-20(Actual/Projected) 2020-21(Actual/Projected) 2021

Land

(Freehold

Land)

Land

(Leasehold)

Building

Civil Works

Transmission

Line

Sub-Station

PLCC

Total Capital

Cost as per

Books

Less:

Liability

Add:

Discharge of

liability

Total Capital

Cost

Equity

Debt

Note. - This Form is a summary form and the Data to this from should flow from other base forms.Part-III Form-2Details of Transmission Lines,Substations and Communication System covered in the project scope and OM for instant assetName of the Transmission Asset:

1. Transmission Lines:

S. No. Name of Line	Type of Line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage Level kV	Line	Line Reactor(Including Switchable Reactor)	Line length km	Date of Commercial Operation
---------------------	----------------------------	------------------	--------------------------	------------------------	------	--	----------------------	------------------------------

Yes/No Petition

If No, No.

1

2

3

Summary:

O M Expenses for the Transmission linescovered in the instant petition

 $2019\hbox{-}20\ 2020\hbox{-}21\ 2021\hbox{-}22\ 2022\hbox{-}23\ 2023\hbox{-}24$

Normative rate of OM as per Regulation (Rupees in Lakh)

Length in km

OM Claimed (Rupees in Lakh)

2. Substations:

S.No.	Name of Substation	Type of SubstationConventional(Greenfield/Brownfield)/Oterminal/HVDC Backto Back	_	No. of transformers D(Reactors/SVC etc. (withcapacity)	No. of Bays	MVA Capacit
765 kV	400kV	220 kV	132 kV Below	765 kV	400 kV	220 kV
1						

2

3

_

_

Summary:

O M Expenses for the Substationscovered in the instant petition

2019-20 2020-21 2021-22 2022-23 2023-24

Normative rate of OM as per Regulation (Rupees in Lakh)

No. of Units

OM Claimed (Rupees in Lakh)

Note 1. - Number of bays is inclusive of line bays, ICT bays, reactor bays etc. Each ICT bays, line bays, reactor bays shall be considered separately for purpose of O M expenses.

2. The MVA Capacity shall exclude the capacity of reactor, FSE, Stat Com

3. Communication System:

S. No.	Name of Communication System	Type of Communication System –Communication System under ULDC/ SCADA/ WAMS/Fibre OpticCommunication System/RTU/PABX/PMU etc	Length of OPGWlinks	No. of RTU	No. of PMU	Date of Commercial operation	Capital Cost upto Cutoff date(Original Projectcost)
Yes/No	If No, Petition No.						
1							

Summary

2 3

O M Expenses for the Comunication systemcovered in the instant petition

2019-20 2020-21 2021-22 2022-23 2023-24

OM expenses as per Regulation

Actual O M Expenses (Rupees in Lakh)

The original project cost/ Asset related to the communication system

Note. - The OM expenses as per regulation shall be worked on based on estimated project cost. The actual OM expenses to be provided at the time of true up.(4)Summary of OM Expenses claim(Rupees in Lakh)

S. No Particulars

2019-20 2020-21 2021-22 2022-23 2023-24

(A) Normative OM

1 Transmission line

- 2 Substation
- 3 Communication System

Total Normative OM

- (B) OM Claimed under Regulation 35 (3)(C)
- 1 Security Expenses
- 2 Actual Capital Spare consumed
- 3 Total OM

March Particulars Unit Existing 2018-19 (1) (2) (3) (4) (5) (6) Base Rate of Return on Equity Base Rate of Return on Equity on Additional Capitalizationafter Cut-off Date 1 Tax Rate Effective Tax Rate2 7 Target Availability Normative OM per km Normative OM per Bay Rs. Lakh Normative OM per MVA Spares for WC as % of OM Receivables in Days for WC Bank Rate as on first day of financial year3 Lapsed life as on 01.04.2019 and beginning of every year(incompleted years) Normative OM per Wan Normative OM Existing 2019-20 2020-21 2021-2021-2021-2021-2021-202	Transmission Assets						Year En	aing
Particulars Unit 2018-19 2019-20 2020-21 2021-2 (1) (2) (3) (4) (5) (6) Base Rate of Return on Equity % Base Rate of Return on Equity on Additional Capitalizationafter % Cut-off Date 1 Tax Rate % Effective Tax Rate2 % Target Availability % Normative OM per km Rs. Lakh Normative OM per Bay Rs. Lakh Normative OM per MVA Spares for WC as % of OM Receivables in Days for WC Bank Rate as on first day of financial year3 Lapsed life as on 01.04.2019 and beginning of every Value 1019-20 2020-21 2021-2 2019-20 2020-21 2021-2 2019-20 2020-21 2021-2 2019-20 2020-21 2021-2 2019-20 2020-21 2021-2 2019-20 2020-21 2021-2 2019-20 2020-21 2021-2 2019-20 2020-21 2021-2 2019-20 2020-21 2021-2 2019-20 2020-21 2021-2 2019-20 2020-21 2021-2 2019-20 2020-21 2021-2 44) (5) (6) 8 Rs. Lakh Normative OM per km Rs. Lakh Normative OM per Bay Rs. Lakh Normative OM per MVA Roccivables in Days for WC Days Bank Rate as on first day of financial year3 Lapsed life as on 01.04.2019 and beginning of every	March							
Base Rate of Return on Equity on Additional Capitalizationafter Cut-off Date 1 Tax Rate	Particulars	Unit	O	2019-20	2020-21	2021-22	2022-23	2023-24
Base Rate of Return on Equity on Additional Capitalizationafter Cut-off Date 1 Tax Rate	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Additional Capitalizationafter Cut-off Date 1 Tax Rate	Base Rate of Return on Equity	%						
Cut-off Date 1 Tax Rate % Effective Tax Rate2 % Target Availability % Normative OM per km Rs. Lakh Normative OM per Bay Rs. Lakh Normative OM per MVA Rs. Lakh Spares for WC as % of OM Receivables in Days for WC Bank Rate as on first day of financial year3 Lapsed life as on 01.04.2019 and beginning of every % Work of the control of	Base Rate of Return on Equity on							
Tax Rate % Effective Tax Rate2 % Target Availability % Normative OM per km Rs. Lakh Normative OM per Bay Rs. Lakh Normative OM per MVA Rs. Lakh Spares for WC as % of OM Receivables in Days for WC Bank Rate as on first day of financial year3 Lapsed life as on 01.04.2019 and beginning of every % Rs. Vo. of vears	Additional Capitalizationafter	%						
Effective Tax Rate2 % Target Availability % Normative OM per km Rs. Lakh Normative OM per Bay Lakh Normative OM per MVA Rs. Lakh Spares for WC as % of OM % Receivables in Days for WC Days Bank Rate as on first day of financial year3 Lapsed life as on 01.04.2019 and beginning of every % Rs. Days No. of years	Cut-off Date 1							
Target Availability % Normative OM per km Rs. Lakh Normative OM per Bay Rs. Lakh Normative OM per MVA Rs. Lakh Spares for WC as % of OM Receivables in Days for WC Bank Rate as on first day of financial year3 Lapsed life as on 01.04.2019 and beginning of every No. of years	Tax Rate	%						
Normative OM per km Rs. Lakh Normative OM per Bay Rs. Lakh Normative OM per MVA Rs. Lakh Spares for WC as % of OM Receivables in Days for WC Bank Rate as on first day of financial year3 Lapsed life as on 01.04.2019 and beginning of every Rs. Lakh No. of vears	Effective Tax Rate2	%						
Normative OM per km Lakh Normative OM per Bay Lakh Normative OM per MVA Rs. Lakh Spares for WC as % of OM Receivables in Days for WC Bank Rate as on first day of financial year3 Lapsed life as on 01.04.2019 and beginning of every Lakh No. of vears	Target Availability	%						
Normative OM per Bay Rs. Lakh Normative OM per MVA Rs. Lakh Spares for WC as % of OM Receivables in Days for WC Bank Rate as on first day of financial year3 Lapsed life as on 01.04.2019 and beginning of every Rs. Lakh No. of vears	Normativa OM par km	Rs.						
Normative OM per Bay Lakh Normative OM per MVA Rs. Lakh Spares for WC as % of OM Receivables in Days for WC Bank Rate as on first day of financial year3 Lapsed life as on 01.04.2019 and beginning of every Lakh No. of years	Normative Owi per kili	Lakh						
Normative OM per MVA Rs. Lakh Spares for WC as % of OM Receivables in Days for WC Bank Rate as on first day of financial year3 Lapsed life as on 01.04.2019 and beginning of every Rs. Lakh No. of	Normative OM nor Pov	Rs.						
Normative OM per MVA Lakh Spares for WC as % of OM % Receivables in Days for WC Days Bank Rate as on first day of financial year3 Lapsed life as on 01.04.2019 and beginning of every No. of years	Normative Ow per Bay	Lakh						
Spares for WC as % of OM % Receivables in Days for WC Days Bank Rate as on first day of financial year3 Lapsed life as on 01.04.2019 and beginning of every No. of years	Normative OM per MVA	Rs.						
Receivables in Days for WC Bank Rate as on first day of financial year3 Lapsed life as on 01.04.2019 and beginning of every No. of vears	Normative OW per WVA	Lakh						
Bank Rate as on first day of financial year3 Lapsed life as on 01.04.2019 and beginning of every No. of years	Spares for WC as % of OM	%						
financial year3 Lapsed life as on 01.04.2019 and beginning of every No. of years	Receivables in Days for WC	Days						
Lapsed life as on 01.04.2019 and beginning of every No. of vears	Bank Rate as on first day of	0/						
beginning of every	financial year3	/0						
beginning of every	Lapsed life as on 01.04.2019 and	No. of						
year(incompleted years)	beginning of every							
	year(incompleted years)	Jears						

- 1. The additional capitalization on account of Change-in-Law to be excluded and To be equivalent to Weighted Average Rate of Loan in accordance with first Proviso to Regulation 30.
- 2. To be supported by necessary documents and calculations. Effective tax rate is to be computed in accordance withRegulation 31 i.e. actual tax (or estimated tax)/gross income, where gross income refers the profit before tax.
- 3. For Tariff Petition, it should be 1.4.2019, while for True-up Petition, it should be 1st April of the respective financial years.

(Petitioner)Part-III Form 4Abstract of existing transmission assets/elements under project,
Determination of Effective COD and Weighted Average Life for single AFC for the project as
wholeName of the Transmission Project: _______(Amount
in Rs. Lakh)(A)Details of All the Asset Covered under the Scope of the Project

Balance Effective Weighted Lapsed useful useful Life COD for the Average useful Asset No. COD Life of the project of the Actual considered life of the **Asset Name** project as COD as ono1-04-2019 Project as for Tariff description whole (Refer projectc(Refer (Refer E) ono1.04.2019 C) D) (Refer E)

(B) Details as on 01-04-2019 fordetermination of Single Tariff for the Projects Commissionedprior to 01.04.2019

Capital Cost as on 31.03.2019 Cumulative Depreciation as on 31-03-2019 Debt Equity Ratio as on 31.03.2019 Gross Equity for Normative ROE as on 31.03.2019 Gross Loan as on 31.03.2019 Cumulative Re-payment of Loan as on 31.03.2019

C) Computation of Effective COD fordetermining lapsed useful life of the project as whole.

 $\{|$

	A agot A		Agget	Agget	And so Total		
Asset No.	Asset	Asset	Asset	Asset	so	Total	
	1	2	3	4	on		
A	В	C	D	E	F	g=(b+c+d+e+f)	

- (1) Actual COD of the Asset.
- (2) COD considered for tariff purpose (i)
- (3) No. of days between the COD of the assetconsidered for tariff and the COD of the Project (ii)(iii)
- (4) True up Capital Cost as on 31-03-2019 (in Lakh)
- (5) Weight of the Cost of an asset (in %)(iv)
- (6) Weighted days = (3x5)
- (7) Effective COD = (i.e. COD of the Project Total Weighted days)
- |-| Note:(i)COD of the Assetconsidered for tariff: This normally refers the actual COD of theproject. In case commission had admitted clubbing of the assetsif any in previous tariff period, then the COD considered forsuch clubbed asses for tariff purpose has to be considered here(eg. Notional COD)|-| (ii) No. of days fromthe COD of the Project: It refers the distance between the CODconsidered for tariff for the individual Asset and the COD of theProject. This has been computed by (COD of the project COD ofthe individual asset)|-| (iii) COD of theProject = The COD of the last asset of the Project.|-| (iv) Weight of theCost of an asset = It refers the proportion (i.e. weight) ofindividual asset's cost on comparing the Total capital cost ofthe project. It has to be computed by (Trued up cost of concernedasset as on 31.03.2019 /Total of true up cost of all the assets)x100|-| (v) Weighted days:This is the product of the Weight of the Cost of an asset and the distance from its COD to the COD of the project.|}
- (D) Weighted Average useful Life of the Project as whole

Particulars	Capital Cost as on 01-04-2019 after true up of2014-19		Useful life / Extended life	Weighted Cost	
Asset 1	Asset 2	Asset 3	Asset 4	and so on	
a	b	c	d	e	f g=(b+c+d+e+f) h

		i = (g)x(h)
Freehold Land	O	
Leasehold Land	25	
Building Other Civil	0.5	
Works	25	
Transmission Line	35	
Sub-Station	25	
Equipment	23	
PLCC	15	
and so on		
Total		
Weighted Average		
life = Total		
WeightedCost/Total Years		
Combine Cost(Rounded off to		
get complete year)		
(E) Lapsed weighted average useful life of the project Balance weighted average Use	eful	
life		
This refers to the No. of completed years from the Effective COD till the last day of previous tariff period(i.e. 31.03.2019)	the	
(i) Effective COD		
(ii) Last day of the previous tariff controlperiod	03	/31/19
(iii) No. ofCompleted years lapsed as on 01.04.2019(ii)-(i)		
(iv) Remaining useful life (in year) (WAL-lapsedyear)		
Note (1) The petitioner has tomaintain the identity of the individual assets. In consolidation petitions, the petitioner has to maintain and provide the details of ind like description, actual COD, effective COD, cut-off date, admitted capital cost, OM petitioner has to make all claims of additional capital expenditure or de-capitalization project, along with Auditor certificate by clearly mentioning the individual assets to has been made. Accordingly the relevant tariffforms should show the individual asset 2) This form is required to be submitted when the project is commissioned prior to the last element of the project commissioned prior to 01.04.2019. 3) The No. of combe arrived by the excel function viz.YEARFRAC(31-03-2019, Effective COD) and ignificant form the result. (Petitioner) Part-III Form- 4AStatement of Capital cost (To be given for relevant data wise) Name of the Transmission Asset: in Rs Lakh)	Expenses ion for the which the set wise b 01.04.201 npleted ye nore the f	etc.The e e claim reakup. 19 (i.e. earcan raction
(A) Capital Cost As on relevant date.1		

Un-discharged Cash **Particulars Accrual Basis** Liabilities **Basis** (a) Opening Gross Block Amount as per 1 books (b) Amount of (i) IDC (ii) FC (iii) FERV(iv) (i)(ii) Hedging cost included in A(a) above ...(iii)...(iv) ... (c) Amount of IEDC (excluding IDC, FC, FERVHedging cost) included in A(a) above (a) Addition in Gross Block Amount during 2 theperiod (b) Amount of (i) IDC (ii) FC (iii) FERV(iv) (i)(ii) Hedging cost included in B(a) above ...(iii)...(iv) ... (c) Amount of IEDC (excluding IDC, FC, FERVHedging cost) included in B(a) above (a) Closing Gross Block Amount as per 3 books (b) Amount of (i) IDC (ii) FC (iii) FERV(iv) (i)(ii) Hedging cost included in C(a) above ...(iii)...(iv) ... (c) Amount of IEDC (excluding IDC, FC, FERVHedging cost) included in C(a) above (Amount in Rs. Lakh) (B) Flow of liability for the Asset As on **Particulars** 2019-20 2020-21 2021-22 2022-23 2023-24 COD/01-04-2019 1. Opening balance of liability2 2 . Add: Liability from ACE3 3. Discharge of liability by payment and claimed as ACE 4 4. Reversal/cancelation (to be entered)5 5. Closing Balance of Admittedliability6

1. Relevant date/s means date of COD of transmission element/s or Communication system and financial year start date and end date

- 2. In case of new asset it should flow from Form 5 and in case of existing asset it should flow from admitted liability as on 31.03..2019.
- 3. It refers to the liability included in the addition into gross block as on last day of the concerned year as mentioned in Form 7 of the concerned year.
- 4. It refers the actual payment of capital liability which was admitted by Commission as on 31.03.2019 and/or the liability included in the COD cost and /or the liability included in the ACE of previous years. (eg. If any payment is made during 2021-22 towards the un-discharged liability)
- 5. It refers the liability included in the Gross Block but reversed or cancelled due to any reason. (e g. The liability no more payable due to non-fulfilment of any condition of the contractor, book adjustment etc.)
- 6. It refers the closing balance of capital liability (i.e. as on 31st march of the concerned year and it will be the opening balance as on 01st April of the next year.
- 7. The balances mentioned in flow of liability in Table B above and the liability as on relevant date as mentioned in Table A above should match.
- 8. If any of the project asset does not required to be consolidated due to any reason, the reason has to be explained and the opening position of those assets has to be shown in the format mentioned Table B above.

(Petitioner)Part-III Form- 4BStatement of Capital Works in Progress(To be given for relevant dates and year wise)Name of the Transmission Asset:

_____(Amount in Rs lakh)

As on relevant date.1

Particulars Accrual Basis Un-discharged Cash Liabilities Basis

A (a) Opening CWIP Amount as per books

(b) Amount of (i) IDC (ii) FC (iii) FERV(iv) (i)(ii) Hedging cost included in A (a) above(iii)....(iv)

B (a) Addition/Adjustment in CWIP Amount during the period

(b) Amount of (i) IDC (ii) FC (iii) FERV(iv) Hedging cost included in B (a) above		(i)(ii) (iii)(iv)		
C (a) Capitalization/Transfer to F Amount during the period	ixed asset ofCWIP			
(b) Amount of (i) IDC (ii) FC (iii) FERV(iv) Hedging cost included in C (a) above		(i)(ii) (iii)(iv)		
D (a) Closing CWIP Amount as pe	er books			
(b) Amount of (i) IDC (ii) FC (iii) FERV(iv) Hedging cost in D (a) above		(i)(ii) (iii)		
Note Relevant date/s means dat	e of COD of transmissi Form- 4CAbstract of Ca	ion element/s and financial year start date apital Cost Estimates and Schedule of		
Estimates Board of Director/ Agency approving the Capitalcost estimates:				
Date of approval of the Capital cost estimates:				
Price level of approved estimates	Present Day Cost As of End ofQtr. of the year	Completed Cost As on Scheduled CODof the transmission system/transmission element/ CommunicationSystem		
Foreign Exchange rate considered for the Capitalcost estimates	l			
Capital Cost excluding IDC, IEDC FC				
Foreign Component, if any (In Million US \$ orthe relevant Currency)				
Domestic Component (Rs. Lakh)				
Capital cost excluding IDC, FC, FERVHedging Cost (Rs. Lakh)				

IDC, IEDC, FC, FERV Hedging

Cost

Foreign Component, if any (In Million US \$ orthe relevant Currency)

Domestic Component (Rs Lakh)

Total IDC, FC, FERV Hedging Cost (RsLakh)

Rate of taxes duties considered

Capital cost Including IDC, IEDC, FC, FERVHedging Cost Foreign Component, if any (In Million US \$ orthe relevant Currency)

Domestic Component (Rs Lakh)

Capital cost Including IDC, IEDC FC (RsLakh)

Schedule of Commissioning
COD of transmission system 1
/transmissionelement
1/Communication System 1
COD of transmission system 1/
transmissionelement 2/
Communication System 2

COD of last transmission system /transmissionelement /

Communication System

Note. - 1. Copy of approval letter by the Board duly certified by the Company secretary should been closed

2. Details of Capital Cost are to be furnished as per FORM-5 or 5A as applicable

3. Details of IDC Financing Charges are to be furnished as per FORM-12(B).

(Petitioner)Part-III Form 5Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication SystemName of the Transmission Asset:

Rs. Lakh)				_(Amount in	
		0 11			
S. No. (1)	Particulars (2)	Cost in Lakh	The secondian		Ì
As per Original Estimates (3)	As per Revised Cost Estimates (if any)(4)	Actual Capital Expenditure (Gross Block) as onCOD as per Books of Account3,4,5 (5)	not eligible for	Projected/actual cost of Deferred work to becapitalised after COD but before cut-off date (7)	
A	Transmission Line	Quantity	Rate	Estimated Cost	Qua
1	Preliminary works				
1.1	Design Engineering				
1.2	Preliminary Investigation, Right of way, forestclearance, PTCC, general civil works etc.				
1.3	Total Preliminary works (1.1+1.2)				
2	Transmission Lines material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor Earth wire accessories				
2.7	Spares				
2.8	Erection, Stringing Civil works including foundation				
2.9	Total Transmission Lines material(2.1+2.2+2.3+2.4+2.5+2.6+2.7+2.8)				
3	Taxes and Duties				

Custom Duty 3.1 Other Taxes Duties 3.2 3.3 Total Taxes Duties (3.1+3.2) Total - Transmission lines (1.3+2.9+3.3) 3.4 В Substations Preliminary works land 4 **Design Engineering** 4.1 Land2 4.2 **Site Preparation** 4.3 Total Preliminary works land(4.1+4.2+4.3) 4.4 Total Preliminary works land(4.1+4.2+4.3) 4.4 Civil Works 5 **Control Room Office Building** 5.1 includingHVAC **Township Colony** 5.2 Roads and Drainage 5.3 Foundation for structures 5.4 Misc. civil works 5.5 5.6 Total Civil Works(5.1+5.2+5.3+5.4+5.5) 6 **Substation Equipment** Switchgear, (CT,PT,Circuit Breaker, 6.1 Isolatoretc) 6.2 **Transformers** Compensating Equipment (Reactor, SVCs 6.3 etc) Control, Relay Protection Panel 6.4 6.5 **PLCC** 6.6 **HVDC** package 6.7 Bus Bars/ conductors / Insulat ors 6.8 **Outdoor lighting** 6.9 Emergency D.G. Set 6.1 **Grounding System** Structure for Switchyard 6.11 Total Substation Equipment (Sum of 6.1 to 6.12 6.11)**Spares** 7 8 Taxes and Duties 8.1 **Custom Duty**

8.2	Other Taxes Duti	es			
8.3	Total Taxes Duty	(8.1+8.2+8.3)			
8.4	Total (Sub-Statio	n)(4.4+5.6+6.	12+8.3)		
C	Communication	System			
9.1	Preliminary Wor	ks			
9.2	Communication	System equipn	nent's		
9.3	Taxes and Duties	;			
9.4	Total (Communic	cation System)	(9.1+9.2+9.3)		
10	Cost of Plant Mac	chinery(3.4+8.	4+9.4)		
11	Construction and expenses	l precommissio	oning		
11.1	Site supervision s	site administra	tion .etc.		
11.2	Tools and Plants				
11.3	construction Insu	ırance			
11.4	Total Construction expenses (11.1+11	-	nmissioning		
12	Overheads				
12.1	Establishment				
12.2	Audit Accounts				
12.3	Contingency				
12.4	Other overheads				
12.5	Total Overheads((12.1+12.2+13.	3+12.4)		
13	IDC, FC, FERV H	ledging Cost			
13.1	Interest During C	Construction (I	DC)		
13.2	Financing Charge	es (FC)			
13.3	Foreign Exchang	e Rate Variatio	on (FERV)		
13.4	Hedging Cost				
13.5	Total of IDC, FC, Cost(13.1+13.2+1	C	g		
14	Capital cost inclu Hedging Cost(10	_			
Cost and L	oetween actual A/RCE costas 5-6+7)-(3 or 4)	Reasons for Variation 1 (9)	Un-Discharge Liabilities included in Col. 5(10)	Admitted cost7 (11)	Capital Work in progress as per Books ofAccount as on COD (12)

(B) Summary of Capital Cost as on COD

	Plant Machinery Cost including initialspare but excluding IDCIEDC	Initial Spare capitalised	IEDC capitalised	IDC capitalised	Loan FERV	Gross Block as per books of Account as on COD	Deduction from Gross Block3	Gross bl meant fo tariff as COD /01.04.2 (after deduction)
1	2	3	4	5	6=(1+3+4+5)	7	8=(6-7)	9

Land (Freehold

Land)

Land

(Leasehold)

Building Civil

Works

Transmission

Line

Sub-Station

PLCC

Total Capital

Cost as per

Books of

Account

Less:

Un-discharged

liabilities

Total Capital
Cost Claimed
for tariff
% of IDC /
IEDC on the
base of
(PlantMachinery
cost including
initial spare as
per Books of
Account)
Means of
Finance
Equity
Debt
Note 1. In case

Note. - 1. 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 transmission licensee.

- 2. Separate details of free hold/lease hold land should be submitted.
- 3. Deduction form Gross Block includes the Grant Received as on COD, Gross block as on COD which pertains to other business, Adjustment of excess initial spare etc.
- 4. The capital cost as per books of accounts and liability should be supported by Auditor Certificate.

(Petitioner)Part-III Form- 5ABreak-up of Construction/Supply/Service PackagesName of the Transmission Asset:

S. Name/No.
No. ofConstruction/supply/servicepackage Scope of works(in linewith headof costbreak-upsas applicable)

Whether awardedthroughICB/DCB/Departmentally/I

Note. - 1 The scope of work in any package should be indicated in conformity of cost break-up in Form-5 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. 800 Lakh. + US\$ 5m=Rs. 4300 Lakh. at US\$=Rs.70 as on say 01.04.2019.

(Petition Project:			- 5BDetails of all the assets covered in the projectName of the second s								the T	ransmission
S. No.	Name of Asset	COD	Delay (in No. of in days)		ved cost	estii appl	sed cos nates, i icable Lakh)	f (Comp Cost (Lakh)	1	th	overed in e present etition
Yes/No	If No, Petition No.											
1												
2												
3												
4												
5												
Total												
	ner)Part-III ission Asset		ı- 6Actual	Cash 1	Expenditu	ıre and	Financ	ial Pack	kage 1	ıpto C	ODN	ame of the
										(A	A)Act	tual Cash
Expend	iture up to (COD (Rupees in	Lakh)								
Particul	lars		Quarter- (Investn Approva	nent	Quarter- II	Quarte	er-III	Quarto (SCOI	er-n))	Quarto	er	Quarter-n (Actual COD)
contrac	Payment to tors/supplic he quarter	ers										
O	ntive Cash											

payments at the end of the Quarter	f									
% of cumulative cash Payment on Total Payment upto Actual COD										
(B)Financial package										
	Financial I Approved	Package as		Financ COD	cial Package as	A	s dmitted n COD			
Currency and Amount\$	Currency a	and Amount	\$	Curren	ncy Amount\$					
1	2		;	3		4		5	6 7	,
Loan-I	US \$		į	5m						
Loan-II										
and so on										
Total Loans										
Equity-										
Foreign										
Domestic										
Total Equity										
Debt : Equity Ratio										
Total Cost										
Add Cap.		Debt Equit	y Actua	al Deb	t Actual equity	y Debt I	Equity			
Add cap for Year-1										
Add cap for Year-2										
Total Capital Cost with	h add cap.									
Note:* Say Rs. 800 La US\$=Rs. 70.# For Exa of commercial operation CODName of the Trans	ample: US\$ on.(Petition	5m, etc.\$ In er)Part-III	case o	f foreig	gn loans excha ment of Additi	nge rate	consider	ed or		te
					COD					
(A) ACE for the year :@(Actual/	Projected)									
Particulars		Addition	Less:		Add:	ACE o				
					Discharge of	cash	Cost i	n		
		Block as per books		•	earlier admitted		for final tariff1	Ĺ		
		per books	towar	ds	admitted	tariff	tariff1			

ofAccount

purpose (Rs

liability

	during the				Lakh)	
	year					
	Asset pertaining	Other	Less: Undischarged			
Grants Received (if any)	to other	Deduction	liability			
		(if any)	included			
	(If any)		in(2-4-5)			
1	2	3	4	5	6	7 8=(2-3-4-5-
Land (Freehold Land)	0	0	O	0	0	0 0
Land (Leasehold)	0	0	O	O	0	0 0
Building, Civil Work	0	0	O	0	0	0 0
Transmission Line	0	0	O	0	0	0 0
Sub-Station	0	0	O	0	0	0 0
PLCC	0	0	O	0	0	0 0
Total	0	0	0	O	0	0 0
@ Papart the above table for other	r voore					

[@] Repeat the above table for other years.

(B) Regulation wise ACE claim on Cash basis

on cush busis		
Regulation No.	Particulars	2019-20 2020-21 2021-22 2022-23 2023-24
Reg. 24	ACE within the original scope and upto thecut-off date.	
24 (1) (a)	Un-discharged liabilities recognized to bepayable at a future date	:
24 (1) (b)	Works deferred for execution	
24 (1) (c)	Procurement of initial capital spares	
24 (1) (d)	Liabilities to meet award of arbitration etc.	
24 (1) (e)	Change in law or compliance of any existing law	
24 (1) (f)	Force Majeure events	
Total under		
Regulation 24		
Reg. 25	ACE within the original scope and after thecut-off date	
25 (1) (a)	Liabilities to meet award of arbitration etc.	
25 (1) (b)		

Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019

Change in law or compliance of

any existing law

Liability for works executed prior

25 (1) (d) to the cut-off date

25 (1) (e) Force Majeure events

Liability for works admitted by the Commissionafter the cut-off date

Total under Regulation 25

Reg. 26 ACE beyond the original scope:

Liabilities to meet award of

arbitration etc.

Change in law or compliance of

26 (1) (b) any existing law;

26 (1) (c) Force Majeure Events;

Need for higher security and safety

of theplant....

Total under Regulation 26

RM for extension of life beyond

theoriginally recognized useful life

(with the consent of Long

TermCustomers)

Total ACE

claimed for tariff

Total Admitted

ACE during Final

tariff1.

Note. - 1. In case the true up, provide the ACE allowed in final tariff and enclose the copy of the tariff order(s).

- 2. Year wise details of the Work/Equipment proposed to be added after COD upto Cut-off Date/ beyond Cut- off Date has to be provided along with justification.
- 3. In case of de-capitalisation of assets details to be furnished in Form 10B.
- 4. The capital cost as per books of accounts and liability should be supported by Auditor Certificate.

 $(Petitioner) Part-III\ Form\ 7 A Financing\ of\ Additional\ Capitalisation Name\ of\ the\ Transmission\ Asset:$

(Amount in Rs.

Lakh)

Financial Year					Year					Year
(Starting from	Year1	Year2	Year	3 Year	4 5 So	Year	Year2	Year3	Year4	5 So
COD)					on					on
1	2	3	4	5	6	7	8	9	10	11

Amount capitalised in Work/Equipment

Financing Details

Loan-1

Loan-2

Loan-3 and so on

Total Loan

Equity

Internal Resources

Others

Total

Note. - 1. Year 1 refers to Financial Year of COD in case of new elements. For existing elementsit is from 2019-20and 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-9 or 9(A) whichever is relevant.

(Petitioner)Part-III Form- 7BStatement of Additional Capitalisation claimed during five year before the end of the useful lifeof the ProjectName of the Transmission Asset:

____COD

S. No.	Year	Work/Equipment added five years before theuseful life	Amount capitalised /Proposed to be capitalized(Rs Lakh)	Justification for capitalisation proposed	Impact on life extension
1	2	3	4	5	6

1

2

3

4

5

Note: Cost Benefit analysis for capital additions done should be submitted along with petition for approval of such schemes *Five years before the completion of useful life.(Petitioner)Part-III Form 8Calculation of Return on Equity at Normal RateName of the Transmission Asset:

					(Amou	nt in Rs. 1	Lakh)
S. No.	Particulars	As on 01-04-2019 / as on COD whichever islater	2019-20	2020-21	2021-22	2022-23	2023-24
1)	(2)		(3)	(4)	(5)	(6)	(7)
	No. of Days in the year		366	365	365	365	366
	No. of days for which tariff claimed						
1	Opening Normative Equity						
2	Less: Adjustment in Equity*						
3	Adjustment during the year						
1	Net Opening Equity (Normal)						
5	Add: Increase in Equity due to addition duringthe year/period						
5	Less: Decrease due to de-capitalisation duringthe year						
7	Less: Decrease due to de-capitalisation during the year/period.						
3	Add: Increase due to discharges during theyear/period						
9	Closing Normative Equity						
10	Average Normative Equity						
11	Rate of Return on Equity (Base Rate)		15.50%	15.50%	15.50%	15.50%	15.50%
12	Reduced rate of 1% decided by commission underRegulation 30 (2) (if						

		,	,				,	-,	
	any)								
13	Effective tax rate / MAT								
10	rate for the respectiveyears								
14	Rate of Return on Equity (Pre Tax)								
15	Return on Equity on project cost till Cutoffdate (Pre Tax)								
S. No.	Particulars		Existing	2013-	·14 2014	ļ-15 201 <u>5</u>	-16 2016	-17 2017-18	3 2018-19
1	2		3	4	5	6	7	8	
1.1	Equity as on COD/Admitted equity	d							
1.2	Notional Equity for Add Ca	p							
1.3	Total Equity								
1.4	Return on Equity*								
	Total								
State	ement showing Return on Equ	ity a	at Weighte	ed Ave	erage Ra	te of Inte	erest on A	ctual Loan	Portfolio
S.			on 01-04-	2019					
No.	Particulars	•	s on COD ichever is	later	2019-2	0 2020-2	21 2021-2	22 2022-23	2023-24
(1)	(2)	(3)			(4)	(5)	(6)	(7)	
1	Gross Opening Equity[pertaining to Proviso toRegulation 30(2)]								
2	Less: Less: Adjustment in Equity1								
3	Adjustment during the year								
4	Net Opening Equity [pertaining to Proviso toRegulation 30(2)]								
5	Add: Increase in equity due to addition duringthe year/period								
6	Less: Decrease due to de-capitalisation duringthe year/period								
7	Less: Decrease due to reversal during the year								

/period

- Add: Increase due to
- 8 discharges during the year/ period
- 9 Closing Normative Equity
- 10 Average Normative Equity
- 11 Rate of Return on Equity Reduced rate of 1% decided
- by commission underRegulation 30 (2) (if any)
- Effective tax rate / MAT rate for the respectiveyears
- Rate of Return on Equity
- (Pre Tax)
- Return on Equity on project cost till Cutoffdate (Pre Tax)

(Petitioner)Note 1. - Adjustment of equity as per Proviso to Regulation 18(3) of 2019 Tariff Regulations.

2. In respect to Equity infusion the Generating Company is required to substantiate with supporting documents such as board resolutions, balance sheet/reconciliation statement with balance sheet.

Part-III Form 8ADetails of Foreign Equity(Details only in respect of Equity infusion if any applicable to the Asset/Element under petition)Name of the Transmission Asset:

Exchange Rate on date/s

							_Exchange	Rate on	date/	s of	
Infu	sion:										
S. No.	Financial Year	Year 1	Year 2	Year 3 and so on							
1	2	3	4	5	6	7	8	9	10	11	12
	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs Lakh)		Amount (Foreign Currency)	Exchange Rate	Amount (Rs Lakh)		Amount (Foreign Currency)	Exc Rat
	Currency11										
A.1	At the date of infusion2										
2											
	Currency21										

A.1

At the date of infusion2

2

Currency31

A.1 At the date of infusion2

2

Currency41and

so on

A.1 At the date of infusion2

2

3

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

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

(Petitioner)Part-IIIForm- 9Details of Allocation of corporate loans to various transmission elementsName of the Transmission Asset:

Particulars Package1 Package2 Package3 Package4 Package5 Rema 1 2 3 4 6 7 5 Source of Loan1 Currency2 Amount of Loan sanctioned Amount of Gross Loan drawn upto31.03.2019/COD3,4,5,13,15 **Interest Type6** Fixed Interest Rate, if applicable Base Rate, if Floating Interest7 Margin, if Floating Interest8 Are there any Caps/Floor9 Yes/No Yes/No Yes/No Yes/No If above is yes, specify caps/floor Moratorium Period10 Moratorium effective from Repayment Period11 Repayment effective from

Repayment Frequency12
Repayment Instalment13,14
Base Exchange Rate16
Are foreign currency loan
hedged?

If above is yes, specify details17

Distribution of loan packages to varioustransmission elements/Communication system

Name of the Projects

Total

Transmission element 1/Communication system 1 Transmission element 2 /Communication system 2 Transmission element

3/Communication system 3and

so on

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

- 2. Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.
- 3. Details are to besubmitted as on 31.03.2019 for existing assets and as on COD for the remaining assets.
- 4. Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.
- 5. If the Tariff in the petition is claimed separately for various transmission elements/Communication system, details in the Form is to be given separately for all the transmission elements/ Communication system in the same form.

- 6. Interest type means whether the interest is fixed or floating.
- 7. Base rate means the base as PLR, MCLR,LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.
- 8. Margin means the points over and above the floating rate.
- 9. At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.
- 10. Moratorium period refers to the period during which loan servicing liability is not required.
- 11. Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.
- 12. Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.
- 13. Where there is more than one drawl/repayment for a loan, the date amount of each drawl/repayment may also be given separately.
- 14. If the repayment installment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.
- 15. In case of Foreign loan, date of each drawl repayment of principal and interest along with exchange rate at that date may be given.
- 16. Base exchange rate means the exchange rate as on 31.03.2019 or as on COD whichever is later.
- 17. In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.

18. At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.

19. 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-III Form- 9ADetails of Project Specific LoansName of the Transmission Asset:

Particulars Package1 Package2 Package3 Package4 Package5 Package6 3 4 5 Source of Loan1 Currencv2 Amount of Loan sanctioned Amount of Gross Loan drawn upto31.03.2019/COD3,4,5,13,15 Interest Type6 Fixed Interest Rate, if applicable Base Rate, if Floating Interest7 Margin, if Floating Interest8 Are there any Caps/Floor9 Yes/No Yes/No Yes/No Yes/No Yes/No If above is yes, specify caps/floor Moratorium Period10 Moratorium effective from Repayment Period11 Repayment effective from Repayment Frequency12 Repayment Instalment13,14 Base Exchange Rate16 Are foreign currency loan hedged? If above is yes, specify details17

Note. - 1. Source of loan means the agency from whom the loan has been taken such as WB, ADB,

WMB, PNB, SBI, ICICI, IFC, PFC etc.

- 2. Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.
- 3. Details to be submitted as on 31.03.2019 for existing assets and as on COD for the remaining assets.
- 4. Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.
- 5. If the Tariff in the petition is claimed separately for various transmission system/transmission elements/Communication system, details in the Form is to be given separately for all the transmission system/transmission element/Communication system in the same form.
- 6. Interest type means whether the interest is fixed or floating.
- 7. Base rate means the base as PLR, MCLR,LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.
- 8. Margin means the points over and above the floating rate.
- 9. At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.
- 10. Moratorium period refers to the period during which loan servicing liability is not required.
- 11. Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.
- 12. Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.
- 13. Where there is more than one drawl/repayment for a loan, the date amount of each drawl/repayment may also be given separately.

- 14. If the repayment installment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.
- 15. In case of Foreign loan, date of each drawl repayment of principal and interest along with exchange rate at that date may be given.
- 16. Base exchange rate means the exchange rate as on 31.03.2019 or as on COD whichever is later.
- 17. In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.
- 18. At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.
- 19. 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-III Form- 9BDetails of Foreign loans(Details only in respect of loans applicable to the Asset/Element under Petition)Name of the Transmission Asset:

							Exchange	Rate at	
COD)/31.03.2019 wh	ichev	er is later					-	
S. No.	Financial Year (Starting from COD)	Year 1	Year 2 and so on						
	1	2	3	\$4.00	5	6	7	\$8.00	9
	Particulars	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs Lakh)	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs Lakh)
	Currency11								
A.1	At the date of Drawl2								
2	Scheduled repayment date of principal								

- Scheduled
- 3 payment date of interest
- 4 At the end of Financial year
- B In case of Hedging3
- At the date of
- 1 hedging
- Period of
- 2 hedging
- Cost of
- 3 hedging

Currency21

- At the date of
 - Drawl2
 - Scheduled
- repayment
- 2 date of
 - principal
 - Scheduled
- 3 payment date
 - of interest
- At the end of
- 4 Financial year
- B In case of
 - Hedging3
- At the date of
 - hedging
- Period of
 - hedging
- Cost of
- 3 hedging

Currency31 so

- on
- At the date of
 - Drawl2
- 2 Scheduled

repayment

date of

principal

Scheduled

- payment date 3 of interest
 - At the end of
- 4 Financial year
- In case of В
 - Hedging3
 - At the date of
 - hedging

1

- Period of 2
 - hedging
 - Cost of
- 3 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.

Note. - In case of refinancing similar details with supporting documents to be furnished.\$ -Exchange rate at COD/31.03.2019whichever is later.(Petitioner)Part-III Form-9CCalculation of Weighted Average Rate of Interest on Actual Loans1Name of the Transmission Asset:

(Amount in Rs. Lakh)

Existing **Particulars** 2019-20 2020-21 2021-22 2022-23 2023-24 2018-19 1 2 6 3 4 5 7

Loan-1

Gross loan - Opening

Cumulative repayments of Loans up to

previousyear

Net loan - Opening

Add: Drawl(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

Loan repayment effective from (date to beindicated)

Loan-2 and so on

Gross loan - Opening

Cumulative repayments of Loans upto

previousyear

Net loan - Opening

Add: Drawl(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

Loan repayment effective from (date to beindicated)

Total Loan

Gross loan - Opening

Cumulative repayments of Loans up to

previousyear

Net loan - Opening

Add: Drawl(s) during the Year

Less: Repayment (s) of Loans during

the year

Net loan - Closing

Average Net Loan

Interest on loan

Weighted average Rate of Interest on

Loans

Note 1. - In case of Foreign Loans, the calculations in Indian Rupees is to be furnished as per Form 9(D). However, the calculation in original currency is also to be furnished separately in the same

form.

2. In case of already commissioned combined assets the details may be provided asset wise as well as combined.

3. Details of Financing Charges.

(Petitioner)Part-III Form 9DLoans in Foreign CurrencyName of the Transmission Asset:

Particulars

Existing
2018-19

2019-20 2020-21 2021-22 2022-23 2023-24

2 3 4 5 6 7

Foreign Loan-1 (USD in Lakh)

Exchange rate

Gross loan - Opening

Cumulative repayments of Loans upto

previous year

Net loan - Opening

Add: Drawl(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

Loan repayment effective from (date

to be indicated)

Foreign Loan-2 (USD in Lakh)

Exchange rate

Gross loan - Opening

Cumulative repayments of Loans upto

previous year

Net loan - Opening

Add: Drawl(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 Loan repayment effective from (date to be indicated) Foreign Loan-3 (USD in Lakh) Exchange rate •••• (Petitioner)Part-III Form 9ECalculation of Interest on Normative LoanName of the Transmission (Amount in Rs. Lakh) As on 01-04-2019 / S. **Particulars** as on COD 2019-20 2020-21 2021-22 2022-23 2023-24 No. whichever islater No. of Days in the year 366 365 365 365 366 No. of days for which tariff claimed Gross Normative loan -1 Opening Cumulative repayment of Normative Loan 2 uptoprevious year Net normative loan -3 Opening Addition in Normative 4 loan towards the ACE Adjustment of Normative Gross loan pertaining 5 to the decapitalised assset. Normative Repayments of Normative Loan duringthe 6 year Adjustment of Cum. repayment pertaining to 7

thedecapitalised asset. Net Normative loan –

8

Closing

9	Average Normativ	re Loan		
10	Weighted average Interest of actualI			
11	Interest on Norma	ative		
	tioner)Part-III For	m 10Calculation of Depreciation		ect costName of the (Amount
	s. Lakh)			
S. No.	Name of the Assets1	Gross Block as on 31.03.2019 or as on COD, whichever is later and subsequently for each year thereafter upto31.3.2024	as per CERC's	Depreciation Amount for each year up to31.03.2024
	1	2	3	4= Col.2 X Col.3
1	Land			
2	Building			
3	and so on			
4				
5				
6				
7				
8				
9				
10				
18				
19				
20				
21				
22				
23				
24				
25				
	Total			
	Weighted Average Rate of			
NT△± -	Depreciation (%)	gasta abould sonform to the decre	wintion of the section	antioned in
Depi	reciation Schedule a	ssets should conform to the descr appended to the Notification.(Pet	_	- 10 AName of the
Tran	smission Asset:			(Amount

in Rs. Lakh)

Statement of Depreciation

Particulars	As on 01-04-2019 / COD	2019-20	2020-21	2021-22	2022-23	2023-24
No. of Days in the year		366	365	365	365	366
No. of days for which tariff claimed						
Weighted Average useful Life of theAsset/Project.						
Lapsed weighted average useful life of theasset/project (in Completed no. of Year).						
Balance weighted average useful life of theasset/project (in Completed no. of Years)						
Opening Capital Cost						
Additional Capital Expenditure dr. the year						
De-Capitalisation during the year						
Closing Capital Cost						
Average Capital Cost						
Freehold land included in 1.8						
Asset having NIL Salvage value						
	No. of Days in the year No. of days for which tariff claimed Weighted Average useful Life of theAsset/Project. Lapsed weighted average useful life of theasset/project (in Completed no. of Year). Balance weighted average useful life of theasset/project (in Completed no. of Years) Opening Capital Cost Additional Capital Expenditure dr. the year De-Capitalisation during the year Closing Capital Cost Average Capital Cost Freehold land included in 1.8 Asset having NIL	Particulars 01-04-2019 / COD No. of Days in the year No. of days for which tariff claimed Weighted Average useful Life of theAsset/Project. Lapsed weighted average useful life of theasset/project (in Completed no. of Year). Balance weighted average useful life of theasset/project (in Completed no. of Year). Balance weighted average useful life of theasset/project (in Completed no. of Years) Opening Capital Cost Additional Capital Expenditure dr. the year De-Capitalisation during the year Closing Capital Cost Average Capital Cost Freehold land included in 1.8 Asset having NIL	Particulars O1-04-2019 /COD No. of Days in the year No. of days for which tariff claimed Weighted Average useful Life of theAsset/Project. Lapsed weighted average useful life of theasset/project (in Completed no. of Year). Balance weighted average useful life of theasset/project (in Completed no. of Year). Balance weighted average useful life of theasset/project (in Completed no. of Years) Opening Capital Cost Additional Capital Expenditure dr. the year De-Capitalisation during the year Closing Capital Cost Average Capital Cost Freehold land included in 1.8 Asset having NIL	Particulars 01-04-2019 2019-20 2020-21 / COD No. of Days in the year No. of days for which tariff claimed Weighted Average useful Life of theAsset/Project. Lapsed weighted average useful life of theasset/project (in Completed no. of Year). Balance weighted average useful life of theasset/project (in Completed no. of Years) Opening Capital Cost Additional Capital Expenditure dr. the year De-Capitalisation during the year Closing Capital Cost Average Capital Cost Average Capital Cost Freehold land included in 1.8 Asset having NIL	Particulars C1-04-2019 2019-20 2020-21 2021-22	Particulars

Cent		ommission (Terms and Cond	litions of Tariff) Regulations,	, 2019	
	included in 1.8				
	Asset having 10%				
1.11	Salvage value				
	included in 1.8				
1.12	Depreciable value				
1.12	(1.10+ 90% of 1.11))			
Depreciation for					
the period and					
Cum.Depreciation					
	Weighted Average				
1.13	Rate of				
	depreciation				
1 1 4	Depreciation (for				
1.14	the period)				
	Depreciation				
1.15	(annualised)				
	Cumulative				
(depreciation at the	2			
1.16	beginning of				
	theperiod				
	Less: Adj. of				I
	Cum.dep.				
1.17	pertaining to				
	thedecapitalised				
	asset				
	Cumulative				
1.18	depreciation at the	<u>)</u>			
	end of the period				Ì
(Petitioner)Part-III	_	nt of De-capitalisation	nName of the Transr	nission Asset:	
		_	OD:		
S. No. Category\$. Data	Details ofthe	Date / Yearof	OriginalCapital	De
5. No. Category			•	etÇ oquiфmitht d fortariff	Ec
	ODecapitansation	AssetDecapitansea	beingdecapitalised		co
			Demiguecapitansea	assetbeingdecapitalised	
				assetsemgaecapitansea	~

(5

(1)	(2)	(3)	(4)	(5)	(6)					
2019)-20									
1										
2										
Tota	ıl									
2020	0-21									
1										
2										
Tota	ıl									
202	1-22									
1										
2										
Tota	ıl									
202	2-23									
1										
2										
Tota	ıl									
202	3-24									
1										
2										
Tota	ıl									
Note	Category	include								
	Replacement due to no usable condition like destroyed, completed useful life etc.									
2. R	Replacem	ent due to d	change in law.							
3. Ir	nter Unit	transfer(tra	nsfer outside of tl	ne project)						
4. A	sset not	put to use								
			alculation of Interest o		Name of the Transmissi (Amount in Rs. Lakl					
S. No.	Particulars	S	As on 01-04-2019 / as on COD	2019-20 2020-2	1 2021-22 2022-23 202	3-24				

(7

whichever islater

- I No. of Days in the year 366 365 365 365 366
- II No. of days for which tariff claimed
- 1 O M Expenses one month
- Maintenance Spares 15% of
- OM Expenses
- Receivables equivalent to
- 3 45 days of AFC
- 4 Total Working Capital

Bank rate as on 01.04.2019

- or as on 01st Aprilof the
- 5 COD year, whichever is later.
- 6 Interest on Working Capital

(Petitioner)Part-III Form- 12Details of time over runName of the Transmission Asset:

`	,						
S.No.	Description of Activity/Works/Service	Original Schedule (As per Planning)	Actual Achieved (As per Actual)	Time Over-Run	Agency responsible and whether such time overrun was beyond the control of the Transmission Licensee	Reasons for delay	Other Activity affected (Mention Sr. No ofactivity affected)
Start Date	Completion Date	Start Date	Completion Date	Months			
1	Notification under Section 164 of EA,2003						
2	Award of Forest Proposal submission, Clearancetree cutting order						

Land acquisition

erection package

Award of tower supply

Tower Supply, Supply

of HardwareAccessories

3

4

5

- 6 Supply of Conductor
- 7 Supply of Insulators
- 8 Tower Foundation
- erection
- 9 Stringing
- 10 Testing Commissioning
- 1. Delay on account of each reason in case of time overrun should be quantified and substantiated with necessary documents and supporting workings.
- 2. In case any margin (in schedule) is kept for the purpose of probable issue of RoW, the same may be indicated separately by the petitioner

	oner)Part-III Form- 12AIncidental Expendit		_	structio	nName of the		
Transı	mission Asset:					_Date of	
Comm	ercial Operation	(Amount in Rs. Lakh)					
S. No.	Parameters	Year -1	Year-2	Year 3	Year-4 Year-5		
A	Expenses:						
1	Employees' Remuneration Benefits						
2	Finance Costs						
3	Water Charges						
4	Communication Expenses						
5	Power Charges						
6	Depreciation						
7	Other Office and Administrative Expenses						
8	Others (Please Specify Details)						
9	Other pre-Operating Expenses						
В	Total Expenses						
	Less: Income from sale of tenders						
	Less: Income from guest house						
	Less: Income recovered from Contractors						
	Less: Interest on Deposits						
	Total						

Note. - IEDC should be duly reconciled with the corresponding figures of Auditor's

Certificate.(Petitioner)Part-III Form- 12BDrawdown schedule Calculation of IDC Financing

ChargesName of the Transmission Asset:

Interest During Construction: Foreign Loan Draw Quarter Quarter S. No. Quarter 1 Down n (COD) Amount Amount Amount Exchange Exchange Exchange in Quantum Quantum in Rate on Quantum Rate on Rate on Indian Indian Indian in in **Particulars** in Foreign draw draw draw Rupee Foreign Rupee Foreign Rupee currency down down down (Rs. currency (Rs. currency (Rs. date date date Lakh) Lakh) Lakh) 1 Loans Foreign 1.1 Loans Foreign 1.1.1 Loan 1 Draw down Amount **IDC Financing** charges Foreign Exchange Rate Variation Hedging Cost Foreign 1.1.2 Loan 2 Draw down **Amount IDC Financing**

charges

	Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019
	Foreign
	Exchange
	Rate
	Variation
	Hedging
	Cost
1.1.3	
	Total
1.1	Foreign
	Loans
	Draw
	down
	Amount
	IDC
	Financing
	charges
	Foreign
	Exchange
	Rate
	Variation
	Hedging
	Cost
	Drawl of debt and equity shall be on pari-passu basis quarter wise to meet the
commissi	oning schedule. Drawl of higher equity in thebeginning is permissible
) A!	cable interest rates including reset dates used for above co
, Annii	rania iniarasi ratas incilining rasar gates lisad tor anova co

2. Applicable interest rates including reset dates used for above computation may be furnished separately

3. In case of multi element project details of capitalization ratio used to be furnished.

A) Interest
During
Construction:
Domestic
Loan

Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019

S. No.	Name of the Lender Loan			Interest frequency	Interes Due dates	t Date of infusion	Loan Principal Amount	Rate of Interest	COD	No. of Interest Days
	1	2	3	4	5	6	7	8	9	10=(9-6)
1	Loan 1									
2	Loan 2									
3	Loan 3									
4										
6	Loan2									
Total						0.00				
A) Interest Du	ıring									
Construction:										
DomesticLoar	ı									
Interest up to	('())	justment iny	S	Up to o	nterest n Cash asis)d	Un-Discha IDC liabil	•	r 1 y charge f l	vear 2 Dischar	rge g
11=(7*8*10)	12		13=1	1-12 14	1	15=(11-14)) 16	1	7	

0.00

(a)Loan Type (Project Specific loan/ Allocated loan),(b)Interest type (Fixed / Floating)(c)Interest on Cash basis (i.e. Interest Actually paid up to Actual COD)(d)Un-Discharge IDC liability as on COD(e)Discharge payment frequency (Annual, Semi-Annual, Qtrly/Monthly etc.(f)of IDC liability claimed as ACE in Year 1(g)Discharge of IDC liability claimed as ACE in Year 2(B)Capitalised Finance Charges (Domestic Loan)

Name of the S. No $\frac{\text{the}}{\text{Finance}}$ Charge	Whether one time payment/periodical payment?	Basis of payment	Finance Date Charges paid/Payable	Capitalised FC	FC on Liabilities Cash Basis
--	--	------------------	-----------------------------------	-------------------	------------------------------------

Total

Note 1. -) In case of Floating rate of Interest or multiple drawl of same loan or repayment during construction period, the petitioner has to provide a separate interest calculation for every such loans and the finally computed interest amount has to be shown in the above statement. The Applicable

interest rates including reset dates used for above computation may be furnished separately

2.

) In case of re-payment if any made during the construction period, a separate calculation has to be enclosed for such loans and the final Interest amount has to be shown in the above statement.

4.

) The date should be shown in DD/MM/YYYY format

5.

). In case of multi element project details of capitalization ratio used to be furnished.

6.

) If any of the debt fund infused prior to the zero date, the IDC is entitled only from the zero date.

7.

) Applicable interest rates including reset dates used for above computation may be furnished separately(Petitioner)Part III Form -13

Details of Initial Spares

Name of the petitioner

Claimed / Admitted COD

(A) Determination of Excess i

(A) Determination of Excess initials spare andits adjustment from Capital cost

Particulars	machinery Capitalised as per cost as on Books of Account					
	cut-off Date1	up to Cut-off Date				
As on COD	As ACE dr. Y1	As ACE dr. Y2	As ACE dr. Y3	Total as on Cut off Date3		
1	2	3	4	5	6 7	

Plant and

Initial Spare

Transmission Line

Substation Green field

Substation Brown Field

Series Compensation devices and

GIS/S- Green field

GIS/S-Brown field

Communication System

Static Synchronous Compensator

initial spare as per Books of Account

Un-Discharge liabilities included above

Total Capitalized initial spare

Note.- (1)Plant and machinery cost as on cut-off Date for the purpose ofinitial spare (As computed in Col. L of the below table)(2) The column 10 hasto be shown as nil in case the claimed initial spare is with inthe ceiling limit.(3) Total cost should be excluding IDC and IEDC.

Details of Initial Spares

Cut-off Data of the Asset:

A) Determination of Excess initials spare andits adjustment from Capital cost

Ceiling limit as	Entitled Initial	Excess of capitalised	Adjustment of Excess	
O		Initial Spare to	Initial Spare	
mentioned in Regulations		bereduced from	fromCapital cost of	
23	Regulations	Capital cost.	Plant and Machinery	
COD	ACE for Y1	ACE for Y2	ACE for Y3	
8	9	10=7-9(Note 2)	11	12 13 14

(B) Determination of Plant MachineryCost for ceiling of initial spare

Particulars	Gross Block of Asset as on COD	Less: Amount included in Col. B towards	Plant and machinery cost as on COD for InitialSpare purpose	3	
Land Cost	Cost of Civil Works	IEDC	IEDC	Initial Spare	
a	b	c	d	e	f g h=b-c-d-e-f-g

Transmission Line

Substation Green field

Substation Brown Field

Series Compensation devices

and HVDC Station

Gas Insulated Substation-

Green field

Gas Insulated

Substation-Brown field

Communication System

Static Synchronous

Compensator

Note.- The Cost details for the year inwhich Cut-off date falls has to be provide only up to the cut-offdate

(B) Determination of Plant MachineryCost for ceiling of initial spare

Plant Machinery Capitalised as ACE up tocut off date

plant and machinery cost as on cut-off Datefor the purpose of initial spare

Year-1 Year-2 Year-3

i j k l=h+i+j+k

(Petitioner)Part-III Form- 14Non-Tariff Income

Existing S. **Parameters** 2019-20 2020-21 2021-22 2022-23 2023-24 No. 2018-19

Income from rent of land or

- 1 buildings
- Income from sale of scrap 2
- Income from advertisements

Note. - To be submitted at the time of truing up(Petitioner)Part-III Form- 15Summary of issue involved in the petition

- 1 Name of the Petitioner
- 2 Petition Category
- 3 Tariff Period
- 4 Name of the Project
- 5 Investment Approval date
- 6 SCOD of the Project
- 7 Actual COD of the project
- 8 Whether entire scope is covered in the present petition.
- 9 No. of Assets covered in instant petition
- 10 No. of Assets having time over run
- 11 Estimated Project Cost as per IA
- 12 Is there any REC? if so, provide the date
- 13 Revised Estimated Project Cost (if any)
- 14 Completion cost for all the assets covered in he instant petition.
- 15 No. of Assets covered in instant petition andhaving cost overrun.

Prayer in brief 16 Key details and any Specific issue 17 involved 18 Respondents Name of Respondents

1 4

2 5 3

(Petitioner)Part-III Form AFOSummary of Capital Cost Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.

Summary of

Capital Cost

Annual

FixedCost (AFC)

Claimed for ALL

the assets

covered in the

presentpetition.

Name of the

Petitioner

Tariff Period 2019-24

Name of the

Transmission

Project

COD of the

Project(if entire

scope ofproject

is completed)

Rupees in lakh

A) Summary of

Capital Cost as

on COD

andAdditional

Capital

Expenditure

claimed for all

the assets

Coveredin the

instant petition.

ii) **Summary** Capital i) of Actual Cut-off Apportioned Cost as Asset S. No. COD No. Date Approved on Cut Projected Cost off Date Capital Cost 2019-20 2020-21 2021-22 2022-23 2023-24

`	Jentral Licet	noity riogulati	ory Commiss	ion (Terms and Gor	riditions of Tam	i) ricgulation	5, 2010	
As per	As per	As on						Capital
Investment	RCE	COD						Cost as on
approval								31.03.2024
1	2	3	4	5	6	7	8	9
1	Asset 1							
2	Asset 2							
	Asset							
Total Capital								
Cost Claimed								
B) Summary of								
Annual Fixed								
Cost (AFC)								
claimedfor all								
the assets								
covered in the								
instant petition.								
		Asset						
S. No.	Asset	Name	2019-20	2020-21	2021-22	2022-23	2023-24	
	No.	and its				O		
		location						
1	Asset 1							
2	Asset 2							
	Asset							
	••••							
Total AFC for all	l							
the Assets								
Note: 1) The								
purpose of this								
form is to								
summarise								
theCapital cost								
theCapital cost AFC claimed for								
theCapital cost AFC claimed for all the assets								
theCapital cost AFC claimed for all the assets covered in								
theCapital cost AFC claimed for all the assets								

(Petitioner)

10 11=