

## UTTARAKHAND SHASAN

**Uttarakhand Electricity Regulatory Commission**Institution of Engineers (I) Building, 1<sup>st</sup> Floor, Near ISBT, Majra, Dehradun**Notification****19.12.2011**

No. F 9(25)/RG/UERC/2011/1263: In exercise of powers conferred under section 61 read with section 181 of the Electricity Act, 2003, and all other powers enabling it in this behalf, and after previous publication, the Uttarakhand Electricity Regulatory Commission hereby makes the following regulations, namely:

**PART I  
PRELIMINARY**

**1. Short Title, extent and Commencement**

- (1) These Regulations shall be called the Uttarakhand Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2011, in short, UERC Tariff Regulations, 2011.
- (2) These Regulations shall extend to the whole of the State of Uttarakhand.
- (3) These Regulations shall be applicable for determination of tariff in all cases covered under these Regulations from FY 2013-14, i.e., April 1, 2013 onwards up to FY 2015-16 i.e. March 31, 2016. However, for all purposes including the review matters pertaining to the period till FY 2012-13, the issues related to determination of tariff shall be governed by following Regulations including amendments thereto :—
  - a) UERC (Terms and Conditions for Determination of Hydro Generation Tariff) Regulations, 2004 as amended from time to time.
  - b) UERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2004 as amended from time to time.
  - c) UERC (Terms and Conditions for Determination of Distribution Tariff) Regulations, 2004 as amended from time to time.
  - d) UERC (Terms and Conditions for Truing Up of Tariff) Regulations, 2008.
  - e) UERC (Terms and Conditions for Determining Escalation Factor) Regulations, 2008.

2. Notwithstanding anything contained in these regulations the Commission shall adopt the tariffs as may be determined through the process of competitive bidding, under Section 63 of the Act, in accordance with the competitive bidding guidelines notified by the Central Government.

### 3. Definitions

In these Regulations, unless the context otherwise requires,

- (1) "Accounting Statement" means for each financial year, the following statements, namely :--
- a) Balance sheet, prepared in accordance with the form contained in Part I of Schedule VI to the Companies Act, 1956;
  - b) Cash flow statement, prepared in accordance with the Accounting Standard on Cash Flow Statement (AS-3) of the Institute of Chartered Accountants of India;
  - c) Cost records prescribed by the Central Government under Section 209(1) (d) of the Companies Act, 1956;
  - d) Together with notes thereto, and such other supporting statements and information as the Commission may direct from time to time;
  - e) Profit and loss account, complying with the requirements contained in Part II of Schedule VI to the Companies Act, 1956;
  - f) Report of the statutory auditors';
  - g) Provided that in case of any local authority engaged in the business of distribution of electricity, the Accounting Statement shall mean the items, as mentioned above, prepared and maintained in accordance with the relevant Acts or Statutes as applicable to such local authority.
- (2) "Act" means the Electricity Act, 2003 (36 of 2003), including amendments thereto;
- (3) "Additional Capitalisation" means the capital expenditure actually incurred or projected to be incurred, after the date of commercial operation of the Project and admitted by the Commission after prudence check subject to provisions of Regulation 24;
- (4) "Aggregate Revenue Requirement" means the requirement of the Transmission Licensee or the Distribution Licensee or Generating Company or SLDC for recovery, through tariffs, of all the allowable expenses and return pertaining to his Licensed/Regulated Business for a particular financial year, in accordance with these Regulations;

- (5) "Allocation Statement" means for each financial year, a statement in respect of each of the separate businesses of the Licensee/Generating Company, showing the amounts of any revenue, cost, asset, liability, reserve or provision, which has been either;
- a) Charged from or to each such separate business together with a description of the basis of that charge; or
  - b) Determined by apportionment or allocation between the Licensed/Regulated Business and every other separate business of the Licensee/Generation Company, together with a description of the basis of the apportionment or allocation;
  - c) Provided that such allocation statement in respect of a generating station shall be maintained in a manner so as to enable tariff determination, stage-wise, unit-wise or for the whole generating station.
- (6) "Applicant" means a Generating Company or a Transmission Licensee or a Distribution Licensee or SLDC who has made an application/Petition for determination of Aggregate Revenue Requirement and/or tariff or an application for Annual Performance Review in accordance with the Act and these Regulations and includes a Generating Company or a Transmission Licensee or a Distribution Licensee or SLDC whose tariff is the subject of a review by the Commission either suo motu or on a petition filed by any interested or affected person or as part of an Annual Performance Review;
- (7) "Auditor" means an auditor appointed by the generating company or licensee, as the case may be, in accordance with the provisions of Sections 224, and 619 of the Companies Act, 1956 (1 of 1956), or any other law for the time being in force;
- (8) "Auxiliary Energy Consumption" in relation to a period, in case of generating station means the quantum of energy consumed by auxiliary equipment of the generating station, and transformer losses within the generating stations and shall be expressed as a percentage of the sum of gross energy generated at the generator terminals of all the units of the generating station:
- Provided that the colony consumption of a Generating Station shall not be included as part of the Auxiliary Energy Consumption for the purpose of these Regulations.
- (9) "Availability" in relation to a transmission system for a given period means the time in hours during that period in which the transmission system is capable of transmitting electricity at its rated voltage to the delivery point and shall be expressed in percentage of total hours in the given period;

- (10) "Bank rate" means the bank rate of Reserve Bank of India as on April 1, of the relevant year;
- (11) "Base year" means the two financial years immediately preceding the first year of the control period and for first Control Period, base year shall be FY 2011-12;
- (12) "Beneficiary" in relation to a generating station means a person purchasing electricity generated at such generating station whose tariff is determined under these Regulations.; "Beneficiary" in relation to transmission business means the person who has contracted the transmission capacity on payment of transmission charges;
- (13) "Block" in relation to a combined cycle thermal generating station includes combustion turbine - generators, associated waste heat recovery boilers, connected steam turbine - generators and auxiliaries;
- (14) "Capital Cost" means the Capital Cost as defined in Regulation 23;
- (15) "CERC" means the Central Electricity Regulatory Commission;
- (16) "Change in law" means occurrence of any of the following events:
  - a) The enactment, bringing into effect, adoption, promulgation, amendment, modification or repeal of any law; or
  - b) Change in interpretation of any law by a competent court, Tribunal or Indian Governmental Instrumentality which is the final authority under law for such interpretation; or
  - c) Change by any competent statutory authority, in any consent, approval or licence available or obtained for the project.
- (17) "Commission" shall mean the Uttarakhand Electricity Regulatory Commission;
- (18) "Contracted Power" means the power in MW which the Applicant has agreed to transmit/wheel/supply, as per agreement;
- (19) "Control period" means a period comprising one or more financial years, as may be stipulated by the Commission, for submission of forecast and shall be three years for the First Control Period, i.e. from April 1, 2013 to March 31, 2016;
- (20) "Conventional Power Plants" means lignite, coal or gas based thermal, or hydro generating stations of capacity of 25 MW and above;
- (21) "Cut-off Date" means 31st March of the year closing after two years of the year of commercial operation of the project, and in case the project is declared under commercial



operation in the last quarter of a year, the cut-off date shall be 31st March of the year closing after three years of the year of commercial operation;

(22) "Date of commercial operation" or 'COD' means:

- a) In relation to a unit or block of the thermal generating station, the date declared by the generating company after demonstrating the maximum continuous rating (MCR) or the installed capacity (IC) through a successful trial run after notice to the beneficiaries, from 0000 hour of which scheduling process as per the Indian Electricity Grid Code (IEGC) and /or UERC (State Grid Code) Regulations, 2007 is fully implemented, and in relation to the generating station as a whole, the date of commercial operation of the last unit or block of the generating station;
- b) In relation to a unit of hydro generating station, the date declared by the Generating Company from 0000 hour of which, after notice to the beneficiaries, scheduling process in accordance with the Indian Electricity Grid Code and /or UERC (State Grid Code) Regulations, 2007 is fully implemented, and in relation to the generating station as a whole, the date declared by the Generating Company after demonstrating peaking capability corresponding to installed capacity of the generating station through a successful trial run, after notice to the beneficiaries:

**Note**

- i. In case the hydro generating station with pondage or storage is not able to demonstrate peaking capability corresponding to the installed capacity for the reasons of insufficient reservoir or pond level, the date of commercial operation of the last unit of the generating station shall be considered as the date of commercial operation of the generating station as a whole, provided that it will be mandatory for such hydro generating station to demonstrate peaking capability equivalent to installed capacity of the generating unit or the generating station as and when such reservoir / pond level is achieved.
- ii. In case of purely run-of-river hydro generating station if the unit or the generating station is declared under commercial operation during lean inflows period when the water is not sufficient for such demonstration, it shall be mandatory for such hydro generating station or unit to demonstrate peaking capability equivalent to installed capacity as and when sufficient inflow is available.

- c) In relation to the transmission system, the date declared by the Transmission Licensee from 0000 hour of which an element of the transmission system is in regular service after successful charging at rated voltage and after trial operation:

Provided that the date shall be the first day of a calendar month and transmission charge for the element shall be payable and its availability shall be accounted for, from that date:

Provided further that in case an element of the transmission system is ready for regular service but is prevented from providing such service for reasons not attributable to the Transmission Licensee, its suppliers or contractors, the Commission may approve the date of commercial operation prior to the element coming into regular service.

- d) In case of a Distribution Licensee, means the date of charging the electric line or substation of a Distribution Licensee to its rated voltage level or seven days after the date on which it is declared ready for charging by the Distribution Licensee, but not able to charge for reasons not attributable to its suppliers or contractors, whichever is earlier:

Provided that the date of commercial operation shall not be a date prior to the scheduled date of commercial operation mentioned in power purchase agreement or the implementation agreement or the transmission service agreement or wheeling agreement or the investment approval, as the case may be, unless mutually agreed to by all Parties,

- (23) "Day" means the 24 hour period starting at 0000 hour;
- (24) "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 or whole of the day, duly taking into account the availability of fuel or water, and subject to further qualification in the relevant Regulation;
- (25) "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;
- (26) "Distribution Business" means the business of operating and maintaining a distribution system for supplying electricity in the area of the supply of the Distribution Licensee;
- (27) "Distribution loss" means the energy losses in the distribution system of a distribution licensee including auxiliary power consumption in the sub-station for the purpose of

air-conditioning, lightning, battery charging, accessories of sub-station equipments etc and shall be accounted for separately;

- (28) "Existing Generating Station" means a generating station, which has achieved COD prior to the date of notification of these Regulations;
- (29) "Existing project" means the project declared under commercial operation from a date prior to the date of notification of these Regulations;
- (30) "Expected Revenue from Tariff and Charges" means the revenue estimated to accrue to the Licensee/Generating Company/SLDC from the Licensed/Regulated Business at the prevailing tariffs;
- (31) "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;
- (32) "Financial year" means a period commencing on 1st April of a calendar year and ending on 31st March of the subsequent calendar year;
- (33) "Force Majeure Event" means, with respect to any party, any event or circumstance which is not within the reasonable control of, or due to an act or omission of, that party and which, by the exercise of reasonable care and diligence, that party is not able to prevent, including, without limiting the generality of the foregoing:
  - a) acts of God, including but not limited to lightning, storm, action of the elements, earthquakes, flood, drought and natural disaster;
  - b) strikes, lockouts, go-slow, bandh or other industrial disturbances;
  - c) acts of public enemy, wars (declared or undeclared), blockades, insurrections, riots, revolution, sabotage, vandalism and civil disturbance;
  - d) unavoidable accident, including but not limited to fire, explosion, radioactive contamination and toxic dangerous chemical contamination;
  - e) any shutdown or interruption of the grid, which is required or directed by the State or Central Government or by the Commission or the State Load Despatch Centre; and any shut down or interruption, which is required to avoid serious and immediate risks of a significant plant or equipment failure;
- (34) "Generation Business" means the business of production of electricity from a generating station;

- (35) "Generation Tariff" means tariff for ex- bus supply of electricity from a generating station;
- (36) "Gross Calorific Value" in relation to a thermal generating station means the heat produced in kcal by complete combustion of one kilogram of solid fuel or one litre of liquid fuel or one standard cubic metre of gaseous fuel, as the case may be;
- (37) "Gross Station Heat Rate" means the heat energy input in kcal required to generate one kWh of electrical energy at generator terminals of a Thermal Generating Station;
- (38) "Infirm Power" means electricity generated prior to commercial operation of the Unit of the generating station;
- (39) "Installed Capacity" means the summation of the name plate capacities of all the Units of the generating station or the capacity of the generating station (reckoned at the generator terminals) as approved by the Commission from time to time;
- (40) "Interconnection Point" means a point at EHV substation of Transmission Licensee or HV sub-station of Distribution Licensee, as the case may be, where the electricity produced from the generating station is injected into the Uttarakhand Grid or the point of interconnection between the transmission network and distribution network;
- (41) "Inter-State generating station" or "ISGS" has the meaning as assigned in the Indian Electricity Grid Code specified by the Central Commission;
- (42) "Inter-State transmission system" includes-
- a) Any system for the conveyance of electricity by means of main transmission line from the territory of one State to another State;
  - b) The conveyance of electricity across the territory of an intervening State as well as conveyance within the State which is incidental to such inter-State transmission of electricity;
  - c) The transmission of electricity within the territory of a State on a system built, owned, operated, maintained or controlled by a Central Transmission Utility.
- (43) "Intra-State generating station" shall mean a generating station or a captive generating plant (CGP) which is not an Inter-State generating station;
- (44) "Intra-State transmission system" means any system for conveyance of electricity by transmission lines within the area of the State, other than "inter-state transmission system" as defined above, and includes all transmission lines, sub-stations and associated equipment of the transmission licensees in the State;

- (45) "Licensee" any person who has been granted licence under Section 14 of the Electricity Act 2003 and includes a person deemed to be a licensee under the above Section of the Act;
- (46) "Long-term transmission customer" means a person having a long-term contractual right to use Intra-State transmission system by paying transmission charges;
- (47) "Maximum Continuous Rating" or 'MCR' in relation to a 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;
- (48) "New Generating Station" means a generating station with a COD on or after the date of notification of these Regulations;
- (49) "Non-Tariff Income" means income other than from income from tariff derived by use of assets of core business and may include proportion of income from other business and, in case of the Retail Supply Business of a Distribution Licensee, excluding income from wheeling and receipts on account of cross-subsidy surcharge and additional surcharge on charges of wheeling;
- (50) "Normative Annual Plant Availability Factor" or "NAPAF" in relation to a thermal generating station means the availability factor specified in Regulation 48 (1) and in relation to a hydro generating station means the availability factor specified in Regulation 51(1);
- (51) "Operation and maintenance expenses" or 'O&M expenses' means the expenditure incurred on operation and maintenance and includes the expenditure on manpower, repairs, spares, consumables, insurance and overheads;
- (52) "Original project cost" means the capital expenditure incurred by the Generating Company or the Licensee, as the case may be, within the original scope of the project up to the cut-off date as admitted by the Commission;
- (53) "Other Business" means any business engaged in by a Transmission Licensee under Section 41 of the Act or by a Distribution Licensee under Section 51 of the Act for optimum utilization of the assets of such Transmission Licensee or of such Distribution Licensee;
- (54) "Plant Availability Factor (PAF)" in relation to a generating station for any period means the average of the daily declared capacities (DCs) for all the days during that period expressed

as a percentage of the installed capacity in MW, reduced by the normative auxiliary energy consumption;

- (55) "Project" means a Generating station or the Transmission system or the Distribution system, as the case may be, and in case of a hydro generating station includes all components of generating facility such as dam, intake water conductor system, power generating station and generating units of the scheme, as apportioned to power generation;
- (56) "Rated Voltage" in relation to a transmission or distribution system means the design voltage at which the transmission or distribution system is designed to operate or such lower voltage at which the line is charged, for the time being, in consultation with long-term transmission customers or Users;
- (57) "Retail Supply Business" means the business of sale of electricity by a Distribution Licensee to his consumers in accordance with the terms of his licence;
- (58) "Run-of-river generating station" means a hydro generating station which does not have upstream pondage;
- (59) "Run-of-river generating station with pondage" means a hydro generating station with sufficient pondage for meeting the diurnal variation of power demand;
- (60) "Retail Supply Tariff" is the rate charged by the Distribution Licensee for supply to Non-open access Customers/consumers which includes charges for Wheeling and Retail Supply;
- (61) "Scheduled energy" means the quantum of energy scheduled by the concerned Load Despatch Centre to be injected into the grid by a generating station over a day;
- (62) "Scheduled generation" or "SG" at any time or for any period or time-block means schedule of generation in MW or MWh ex-bus, given by the concerned Load Despatch Centre;

#### NOTE

For the 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.

- (63) "Small gas turbine generating station" means and includes open cycle gas turbine or combined cycle generating stations with gas turbines in the capacity range of 50 MW or below;
- (64) "State Load Despatch Centre" or 'SLDC' means the centre established by the State Government for purposes of exercising the powers and discharging the functions under Section 31 of the Act;
- (65) " "Storage type power station" means a hydro power generating station associated with large storage capacity to enable variation in generation of electricity according to demand;
- (66) "Tariff" means the schedule of charges for generation, transmission, wheeling and supply of electricity together with terms and conditions for application thereof;
- (67) "Tariff period" means the period for which tariff or the Aggregate Revenue Requirement is determined by the Commission under these Regulations;
- (68) "Time Block" means a block of 15 minutes starting from 00.00 hrs, unless the context requires otherwise;
- (69) "Trading Business" means the business of purchase of electricity by the Trading Licensee or Distribution Licensee for resale of electricity to other Licensee or consumers or category of consumers outside the area of supply of the Distribution Licensee;
- (70) "Transmission Business" means the business of establishing or operating transmission lines;
- (71) "Transmission Loss" means the energy losses in the transmission system of a Transmission Licensee. Auxiliary power consumption in the sub-station for the purpose of air-conditioning, lighting, battery charging, accessories of sub-station equipments, etc., shall be billed and considered as part of repair & maintenance expenses;
- (72) "Transmission Service Agreement" means the agreement, contract, memorandum of understanding, or any such covenants, entered into between the Transmission Licensee and the user of the transmission service/lines;
- (73) 'Transmission system' means a line or a group of lines with or without associated sub-station, and includes equipment associated with transmission lines and sub-stations;
- (74) "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; and in relation to a hydro generating station means turbine-generator and its auxiliaries;

- (75) "Unscheduled interchange" (UI) means unscheduled interchanges as defined in Indian Electricity Grid Code;
- (76) "Useful life" in relation to a unit of a generating station and transmission system from the COD shall mean the following, namely:-
- a) Hydro generating station - 35 years
  - b) Coal/Lignite based thermal generating station - 25 years
  - c) Gas/Liquid fuel based thermal generating station - 25 years
  - d) Transmission line - 35 years
  - e) Distribution line and distribution systems - 35 years
- (77) "User" means a Transmission or Distribution Licensee, a Generating Company, a person who has set up a captive generating plant or a consumer availing open access, utilizing the transmission system of a Transmission Licensee or distribution system of a Distribution Licensee;
- (78) "Wheeling" means the operation whereby the distribution system and associated facilities of a Distribution Licensee, are used by another person for the conveyance of electricity on payment of charges to be determined under Section 62 of the Act;
- (79) "Year" means financial year ending on 31st March, and
- a) "Current Year" shall mean the year in which the statement of annual accounts or petition for determination of tariff is filed,
  - b) "Previous Year" shall mean the year immediately preceding the current year,
  - c) "Ensuing Year" shall mean the year following the current year.

Words or expressions used in these regulations and not defined herein but defined in the Act shall bear the same meaning as in the Electricity Act, 2003, as amended from time to time.

#### **4. Scope of Regulations**

- (1) These Regulations shall apply in respect of the following cases:-
- a) Supply of electricity by a Generating Company to a Distribution Licensee:



Provided that the Commission may, in case of shortage of supply of electricity, fix the minimum and maximum ceiling of tariff for sale or purchase of electricity in pursuance of an agreement, entered into between a Generating Company and a Licensee or between Licensees, for a period not exceeding one year to ensure reasonable prices of electricity;

- b) Intra-State transmission of electricity;
- c) SLDC Charges;
- d) Retail supply of electricity;

Provided that in case of distribution of electricity in the same area by two or more Distribution Licensees, the Commission may, for promoting competition among Distribution Licensees, fix only maximum ceiling of tariff for retail sale of electricity:

Provided further that where the Commission has permitted open access to any category of consumers under section 42 of the Act, the Commission shall determine the wheeling tariff, cross-subsidy surcharge, additional surcharge and other open access related charges in accordance with these Regulations and the Uttarakhand Electricity Regulatory Commission (Terms & Conditions of Intra-State Open Access) Regulations, 2010.

- (2) Notwithstanding anything contained in these Regulations, the Commission shall adopt the tariff if such tariff has been determined through a transparent process of bidding in accordance with the guidelines issued by the Central Government.
- (3) These Regulations shall not apply to renewable sources of energy, which shall be governed by UERC (Tariff and Other Terms for Supply of Electricity Renewable Energy Sources and non-fossil fuel based Co-generating stations) Regulations, 2010 as amended from time to time.
- (4) The following Regulations shall stand repealed after coming into effect of these Regulations:
  - a) UERC (Terms and Conditions for Determination of Hydro Generation Tariff) Regulations, 2004 as amended from time to time.
  - b) UERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2004 as amended from time to time.
  - c) UERC (Terms and Conditions for Determination of Distribution Tariff) Regulations, 2004 as amended from time to time.
  - d) UERC (Terms and Conditions for Truing Up of Tariff) Regulations, 2008.
  - e) UERC (Terms and Conditions for Determining Escalation Factor) Regulations, 2008.

However, for all purposes including the review matters pertaining to the period till the notification of these Regulations, the issues related to determination of tariff shall be governed by the Regulations prevalent during that period.

**PART II:**

**MULTI YEAR TARIFF FRAMEWORK GENERAL PRINCIPLES**

**5. Multi-year Framework**

The Commission shall adopt multiyear tariff framework for approval of ARR and expected revenue from tariffs and charges for the control period. The multiyear tariff framework shall be based on the following: -

- a) Business plan submitted by the applicant for the entire control period for the approval of the Commission prior to the beginning of the control period;
- b) Applicant's forecast of expected ARR for each year of the control period, based on reasonable assumptions and financial & operational principles/parameters laid down under these Regulations submitted alongwith the MYT petition for determination of Aggregate Revenue Requirement and Tariffs for first year of the control period;
- c) Trajectory for specific parameters as may be stipulated by the Commission based on submissions made by the Licensee, actual performance data of the Applicants and performance achieved by similarly placed utilities;
- d) Annual review of performance shall be conducted vis-à-vis the approved forecast and categorization of variations in performance into controllable factors and uncontrollable factors;
- e) Sharing of excess profit or loss due to controllable and uncontrollable factors as per provisions of these Regulations.

**6. Control Period**

The first Control Period under these Regulations shall be of three (3) financial years; the first application under these Regulations shall be made for the control period of three financial years from April 01, 2013 to March 31, 2016:

Provided that in case any generating station gets commissioned after notification of these Regulations but before commencement of the first Control Period, the Commission may consider, determining the tariff based on the norms as specified for such generating station under these Regulations, under special case through separate Order.

## **7. Norms of operation to be ceiling norms**

The norms of operation specified herein are the ceiling norms and this shall not preclude the Commission from stipulating or the Generating Company, Transmission Licensee, Distribution Licensee, and the Beneficiaries from agreeing to improved norms of operation and in that case such improved norms shall be applicable for determination of tariff.

## **8. Determination of Baseline**

The baseline values (operating and cost parameters) for the base year of the control period shall be determined by the Commission based on historical data, latest audited accounts, estimates for the relevant year and prudence check as may be applied by the Commission:

Provided that in case of substantial difference between the estimates earlier provided / considered for determination of baseline values and the actual audited accounts, the Commission may re-determine the baseline values for the base year *suo-moto* or on an application filed by the Applicant.

## **9. Business Plan**

- (1) An Applicant shall submit, under affidavit and as per the UERC (Conduct of Business) Regulations, 2004, a Business Plan by May 31, 2012, for the Control Period of three (3) financial years from April 1, 2013 to March 31, 2016,
  - a) The Business Plan for the Generating Company shall be for the entire control period and shall, interalia, contain-
    - (i) Capital investment plan, which shall include details of the investments planned by the Generating Company for existing stations, yearly phasing of capital expenditure alongwith the source of funding, financing plan and corresponding capitalisation schedule. This plan shall be commensurate with R&M schemes and proposed efficiency improvements for various plants of the company.
    - (ii) The capital investment plan shall show separately, on-going projects that will spill over into the years under review, and new projects (along with justification) that will commence in the years under review but may be completed within or beyond the tariff period.
    - (iii) The Generating Company shall submit plant-wise details of the capital structure and cost of financing (interest on debt and return on equity), after considering the

existing market conditions, terms of the existing loan agreements, risks associated in generation business and creditworthiness;

- (iv) Details related to major shut down of machines, if any.
  - (v) Trajectory of performance parameters
- b) The Business Plan for the Transmission Licenses shall be for the entire control period and shall, *interalia*, contain-
- (i) Capital investment plan which should be commensurate with load growth and quality improvement proposed in the business plan. The investment plan should also include yearly phasing of capital expenditure alongwith the source of funding, financing plan and corresponding capitalisation schedule. The system augmentation/expansion plan to be submitted as a part of Capital Investment Plan by the Transmission Licensee shall be consistent with the load growth forecast/ generation evacuation requirement during the control period. Further, the Capital Investment Plan shall be in conformity with the plans made by the CEA/ CTU/ STU/ Distribution Licensee.
  - (ii) The appropriate capital structure of each scheme proposed and cost of financing (interest on debt) and return on equity, terms of the existing loan agreements, etc;
  - (iii) Transmission loss reduction trajectory for each year of the control period, including details of the measures proposed to be taken for achieving the target loss.
- c) The Business Plan for the Distribution Licenses shall be for the entire control period and shall, *interalia*, contain-
- (i) Sales/demand forecast for each customer category and sub-categories for each year of the control period;
  - (ii) Distribution loss reduction trajectory for each year of the control period; including details of the measures proposed to be taken for achieving the target loss;
  - (iii) Power procurement plan based on the sales forecast and distribution loss trajectory for each year of the business plan period; the power procurement plan may also include energy efficiency and demand side management measures;
  - (iv) Collection efficiency improvement trajectory for each year of the control period;
  - (v) Capital investment plan considering the sales/demand forecast, power procurement plan, distribution loss trajectory, targets for quality of supply, etc. The capital investment plan shall be consistent with the perspective plan drawn by the State Transmission Utility (STU), and the investment plan should also

include yearly phasing of capital expenditure alongwith the source of funding, financing plan and corresponding capitalisation schedule;

- (vi) The appropriate capital structure of each scheme proposed and cost of financing (interest on debt and return on equity), terms of the existing loan agreements, etc;
  - (vii) Details related to availability of power from renewable energy sources and likelihood of complying with the RPO specified by the Commission.
- d) The Business Plan for the State Load Despatch Centre shall be for the entire control period and shall, *interalia*, contain-
- (i) Capital Investment Plan including phasing of expenditure and funding pattern;
  - (ii) Estimated budget for the control period.
- (2) The Applicant shall also submit the details in respect of its manpower planning for the Control Period as part of Business Plan.
- (3) The Applicant shall, prior to filing of MYT petition, get the Business Plan approved by the Commission.
- (4) The Commission shall scrutinize and approve the business plan after following the due consultation process.

#### 10. Specific Trajectory for Certain Variables

- (1) The Commission shall stipulate a trajectory for certain variables having regard to the past performance:

Provided that the variables for which a trajectory shall be stipulated, shall include but not limited to,

- a) In case of Generating Stations:

Generating station's availability, station heat rate, secondary oil consumption, auxiliary consumption, transit losses, etc.

- b) In case of Transmission Licensee:

Transmission losses, transmission system availability, etc.

- c) In case of Distribution Licensee:

Supply availability, wires availability, distribution losses, collection efficiency, etc.

Provided further that this trajectory should provide for sharing of gains and losses with the consumers on account of superior and inferior performance as against the targets defined:

Provided further that the Commission shall review the trajectory at the beginning of each Control Period and consider the performance achieved by the licensee/Generating Company during the last Control Period.

- (2) The trajectory stipulated by the Commission in accordance with these Regulations shall be incorporated by the applicant in its MYT Petition.

#### **11. MYT Petition for the Control Period**

- (1) The applicant shall submit under affidavit and as per the UERC (Conduct of Business) Regulations, 2004, the forecast of Aggregate Revenue Requirement and expected revenue from tariff for each year of the Control Period, accompanied by fees applicable, latest by 30th November of the year previous to the start of the Control Period in the format prescribed by the Commission.
- (2) Forecast of Aggregate Revenue Requirement for each of the financial year of the Control Period
  - a) For projecting different components of Aggregate Revenue Requirement for each financial year of the Control Period Applicant shall develop a mathematical model. For this purpose applicant may utilize suitable macro-economic variables, market indexes, past year's growth trends etc. Applicant shall further submit a soft copy of the above model with all the formulas and linkages along with its MYT petition and petition for Annual Performance Review and Tariff determination.
  - b) Where, for any Control Period, the applicant seeks to change the methodology for forecasting any components of the Aggregate Revenue Requirement, he shall apply to the Commission for approval of change of methodology along with the rationale thereof and such other details as the Commission may require, at least nine (9) months before the commencement of such Control Period.
- (3) Forecast of expected revenue from tariff and charges

The applicant shall develop mathematical model for projecting the expected revenue from tariff and charges based on the following--

- (i) In the case of a Generating Company, based on prevailing generation tariffs as on the date of making the application and estimates of capacity allocated to Distribution Licensees and Open Access Customers and expected energy generation for each financial year of the Control Period;
  - (ii) In the case of a Transmission Licensee, based on prevailing transmission tariffs as on the date of making the application and estimates of transmission capacity allocated to Transmission System Users which includes Open Access Customers for each financial year of the Control Period;
  - (iii) In the case of a Distribution Licensee, based on prevailing retail & wheeling tariffs as on the date of making the application and estimates of quantum of electricity supplied to consumers in different categories and wheeled for open access consumers for each financial year of the Control Period;
  - (iv) In case of SLDC, based on Fee and Charges as applicable on the date of making the application and allocated transmission capacity to users of intra State Transmission System;
  - (v) Applicants shall submit a soft copy of the above model with all the formulas and linkages along with its MYT petition and petition for annual performance review and tariff determination.
- (4) After examining the application, the Commission shall either-
- a) Pass an order approving the forecast of Aggregate Revenue Requirement and expected revenue from tariff and charges for the Control Period, subject to such modifications and conditions as it may specify in the said Order; or
  - b) Reject the application for reasons to be recorded in writing:
- Provided that the applicant shall be given a reasonable opportunity of being heard before rejecting his application.
- (5) In its MYT Order, the Commission shall specify the variables comprised in the Aggregate Revenue Requirement and expected revenue from tariff and charges of the applicant that shall be reviewed by the Commission as part of the Annual Performance Review:
- Provided that such variables shall be limited to the major items of cost and revenue forecast of the applicant that in the Commission's opinion could have a material impact on the cost of supply of electricity to consumers in the State over the Control Period:

Provided further that the variables, as may be stipulated by the Commission under Regulations below, shall form part of the Annual Performance Review, unless exempted by the Commission from such review in its Order.

## **12. Preparation & submission of Annual Accounts, Reports etc.**

- (1) Every Applicant shall prepare annual statement of accounts and also prepare annual reports and statistics, giving an account of its activities during the current and previous year and likely to be undertaken in the remaining years of the MYT Control Period, including the ensuing year. The report of activities shall also indicate targets and achievements in respect of various performance parameters. These reports shall be furnished to the Commission in duplicate, by 30th November every year.
- (2) The Commission may also direct the Applicants to submit to the Commission or such other authority, as it may designate in this behalf, such additional information as the Commission may require for the performance of its functions.
- (3) The Commission at an appropriate time may specify the forms for preparation of separate regulatory accounts.

## **13. Annual Performance Review**

- (1) Under the multi-year tariff framework, the performance of the Generating Company or Transmission and Distribution Licensees or SLDC, shall be subject to an Annual Performance Review.
- (2) The Applicant shall under affidavit and as per the UERC (conduct of Business) Regulations 2004 make an application for Annual Performance Review by November 30th of every year:

Provided that the Applicant shall submit information to the Commission in such form as may be stipulated by the Commission from time to time, together with the Accounting Statements, extracts of books of account and such other details as the Commission may require to assess the reasons for and extent of any variation in financial performance from the approved forecast of Aggregate Revenue Requirement and expected revenue from tariff and charges:

Provided further that the application for Annual Performance Review shall be submitted to and dealt with by the Commission in the manner provided under these Regulations for



submission of and dealing with an application for determination of tariff within the time limit specified in the Regulations for such application.

- (3) The scope of the Annual Performance Review shall be a comparison of the performance of the Applicant with the approved forecast of Aggregate Revenue Requirement and expected revenue from tariff and charges and shall comprise of following:--

- a) A comparison of the audited performance of the applicant for the previous financial year with the approved forecast for such previous financial year and truing up of expenses and revenue subject to prudence check including pass through of impact of uncontrollable factors;
- b) Categorisation of variations in performance with reference to approved forecast into factors within the control of the applicant (controllable factors) and those caused by factors beyond the control of the applicant (un-controllable factors);
- c) Revision of estimates for the ensuing financial year, if required, based on audited financial results for the previous financial year;
- d) Computation of the sharing of gains and losses on account of controllable factors for the previous year.

- (4) Upon completion of the review, the Commission shall attribute any variations or expected variations in performance, for variables stipulated under this Regulation, to factors within the control of the applicant (controllable factors) or to factors beyond the control of the applicant (uncontrollable factors):

Provided, however, that where the applicant or any interested or affected party believes, for any variable not stipulated while specifying this Regulation, that there is a material variation or expected variation in performance, for any financial year, on account of uncontrollable factors or some new controllable factor, such applicant or interested or affected party may apply to the Commission for inclusion of such variable, at the Commission's discretion, in the review under this Regulation above for such financial year.

- (5) The "uncontrollable factors" shall include the following factors which were beyond the control of, and could not be mitigated by, the applicant, as determined by the Commission. Some examples of uncontrollable factors are as follows:--

- a) Force Majeure events, such as acts of war, fire, natural calamities, etc.;

- b) Change in law, judicial pronouncements and Orders of the Central Government, State Government or Commission;
  - c) Economy wide influences such as unforeseen changes in inflation rate, market interest rates, taxes and statutory levies;
  - d) Variation in power purchase expenses for the Distribution Licensees etc.;
  - e) Variation in freight rates;
  - f) Variation on account of change in hydro-thermal mix due to adverse natural events; and
  - g) Variation in number or mix of consumers or quantities of electricity supplied to the consumers.
- (6) Some illustrative variations or expected variations in the performance of the applicant which may be attributed by the Commission to controllable factors shall include, but not limited to, the following:--
- a) Variations in capital expenditure on account of time and/or cost overruns/ efficiencies in the implementation of a capital expenditure project not attributable to an approved change in scope of such project, change in statutory levies or force majeure events;
  - b) Variations in technical and commercial losses, including bad debts;
  - c) Variations in performance parameters;
  - d) Variations in working capital requirements;
  - e) Failure to meet the standards specified in the UERC (Standards of Performance) Regulations, except where exempted in accordance with those Regulations;
  - f) Variation in financing pattern due to variation in capital expenditure;
  - g) Variation in quality of supply;
  - h) Variation in operation & maintenance expenses.
- (7) Applicants may, as a result of additional information not previously known or available to them at the time the forecast under Regulation 11 was developed, apply for a modification in the approved forecast of Aggregate Revenue Requirement and expected revenue from tariff and charges for the remainder of the Control Period, as part of the Annual Performance Review.

- (8) The Commission may, as a result of additional information not previously known or available to it at the time the forecast under Regulation 11 was developed, if it so deems appropriate, either suo moto or on an application made by any interested or affected party, modify the approved forecast of Aggregate Revenue Requirement and expected revenue from tariff and charges for the remainder of the Control Period, as part of the Annual Performance Review.
- (9) The Commission shall treat an application made to it under Regulation 9 and Regulation 13 above in the same manner as the original application for determination of tariff and upon completion of such review, either approve the proposed modification with such changes as it deems appropriate or reject the application made for reasons to be recorded in writing.
- (10) Upon completion of the Annual Performance Review, the Commission shall pass an order recording-
  - a) The approved aggregate gain or loss to the Applicant on account of uncontrollable factors and the mechanism by which the Applicant shall pass through such gains or losses in accordance with Regulation 14;
  - b) The approved aggregate gain or loss to the Applicant on account of controllable factors and the amount of such gains or such losses that may be shared in accordance with Regulation 15;
  - c) The approved modifications to the forecast of the Applicant for the ensuing year, if any;

The surplus/deficit determined by the Commission in accordance with these Regulations on account of truing up of the ARR of Applicant shall be carried forward to the ensuing financial year.

#### **14. Sharing of Gains and Losses on account of Uncontrollable factors**

- (1) The approved aggregate gain or loss to the Applicant on account of uncontrollable factors shall be passed through as an adjustment in the tariff/charges of the Applicant over such period as may be specified in the Order of the Commission;
- (2) Nothing contained in sub-regulation (1) above shall apply in respect of any gain or loss arising out of variations in the price of fuel, which shall be dealt with as specified under relevant parts of the Regulations.

**15. Sharing of Gains and Losses on account of Controllable factors**

- (1) The approved aggregate gain to the Applicant on account of controllable factors shall be dealt with in the following manner:--
  - a) 20% of such gain shall be passed on as a rebate in tariffs over such period as may be specified in the Order of the Commission;
  - b) The balance amount of gain may be utilized at the discretion of the Applicant.
- (2) The approved aggregate loss to the Applicant on account of controllable factors shall be dealt with in the following manner:--
  - a) 25% of the amount of such loss shall be allowed by the Commission to be recovered through tariffs over such period as may be specified in the Order of the Commission under;
  - b) The balance amount of loss shall be absorbed by the Applicant.

**16. Periodicity of Tariff determination**

- (1) The Commission shall determine the tariff/charges, of a Generating Company/Transmission Licensee/Distribution Licensees/SLDC covered under a multi-year tariff framework for each financial year during the Control Period, at the commencement of such financial year, having regard to the following:--
  - a) The MYT principles specified under these Regulations; and
  - b) The approved forecast of Aggregate Revenue Requirement and expected revenue from tariff and charges for such financial year, including approved modifications to such forecast; and
  - c) Impact of truing up for previous financial year and provisional truing up for the current financial year; and
  - d) Approved gains and losses to be passed through in tariffs, following the Annual Performance Review.
- (2) The tariff and charges for recovery of ARR for a Transmission Licensee or a Distribution Licensee or a Generating Company or SLDC shall ordinarily be determined not more than once in a year, except in respect of any changes expressly permitted under the terms of fuel

surcharge formula as may be specified under these Regulations. on account of fuel cost and power purchase cost.

#### **17. Petition for determination of Tariff**

- (1) An application for determination of Tariff under the Act shall be made in such form and in such manner as specified in these Regulations, and accompanied by such fees as may be specified under the UERC (Fees and Fine) Regulations, 2002 as amended from time to time.
- (2) An application for determination of tariff for first year of the Control Period shall be made along with the Multi Year Tariff Petition for the Control Period under Regulation 11 and the Petition for determination of Tariff for subsequent years of the Control Period shall be made along with Petition for Annual Performance Review under Regulation 13.
- (3) The formats for furnishing information for calculating expected revenue and expenditure and for determining tariff shall be specified separately for Generation, Transmission, Distribution and SLDC charges. Information submitted in these formats should be accompanied by supporting documents/calculations and soft copies.
- (4) The Petition for determination of tariff shall include the following:--
  - a) A statement of the current tariff and all applicable terms and conditions and expected revenue from the current tariff for each year of the Control Period.
  - b) A statement of proposed tariffs containing full details of calculation of any subsidy received, due or assumed to be due from the State Government, the purpose/consumers to whom it is directed, and showing how the subsidy is reflected in the current and proposed tariff applicable to those consumers. This statement shall also include the tariff calculated without consideration of the subsidy for those consumers. The subsidy calculations shall also compare the situation for the period for which the tariff is to be implemented.
  - c) A statement of the estimated change in annual revenues that would result from the proposed tariff changes in the period in which they are to be implemented.
  - d) If the proposed tariff is to be introduced after the start of a financial year, a statement of the proportion of revenue expected and quantities of electricity supplied under the proposed tariff modification during the remaining months of the financial year shall be included.

- e) In case of a Distribution Licensee, detailed calculations of voltage-wise cost of supply, exclusive of external subsidies and cross-subsidies in respect of each category of consumer.
  - f) In case of a Distribution Licensee, a statement showing calculations of the amount of cross-subsidy in the existing tariff and in the proposed tariff. Such determination shall be as per the guidelines issued by the Commission.
  - g) An explanatory note giving rationale for the proposed tariff changes.
  - h) Any other information, as required by the relevant licence conditions or specified by the Commission.
- (5) If a person holds more than one licence and/or is deemed to be Licensee for more than one area of distribution or transmission, he shall submit separate calculations as above in respect of each licence or area of transmission or distribution. Similarly, a generating company shall submit generating station-wise calculations.
- (6) A Transmission Licensee or Distribution Licensee owning and operating a generating station shall maintain and submit separate accounts of generation, its licensed business, and other business.
- (7) The Transmission Licensee Or Distribution Licensees or SLDC are required to file petition for 'in-principle' approval of all projects/schemes whose capital cost is more than Rs. 2.5 Crs in a manner specified in Regulation 23:
- Provided that where the Commission has given an 'in-principle' acceptance to the estimated capital cost and financing plan, it shall act as a guiding factor for applying prudence check on the actual capital expenditure.
- (8) Tariff petitions will be submitted in English. Soft copy of the Petition and the formats along with computations sheets and supporting documents will also be submitted to the Commission.
- (9) Notwithstanding anything contained in these Regulations, in case of delay/ non-submission of the application for determination of tariff and annual performance review beyond one month from the scheduled date of submission, the Commission may initiate suo-moto proceedings for filing the said applications.

Provided that in the event of the applicant not filing the application despite the aforesaid proceeding, the Commission may on its own, decide the tariff based on the information available with the Commission and after incorporating suitable adjustments, as deemed appropriate by the Commission:

Provided further that the Commission may also pass directions under Section 129 and/or Section 142 of the Act, if required.

### **18. Review at the End of the Control Period**

- (1) At the end of the control period, the Commission shall review the achievement of objectives and implementation of the principles of MYT laid- down in these Regulations.
- (2) The end of the one control period may be the beginning of the next control period or as decided by the Commission. The Commission shall analyse the performance with respect to the targets set out at the beginning of the control period and shall determine the base value for the next control period, based on actual performance achieved, expected improvement and other relevant factors.
- (3) The Commission shall undertake the annual review of performance of the final year of control period and truing-up of the immediately preceding final year of the control period with the ARR/tariff petition filed for the first year of the subsequent control period. The annual review of performance of the final year of control period and truing-up of the immediately preceding final year of the control period shall be undertaken based on the norms as defined in these Regulations.

### **19. Orders by Commission**

- (1) The Commission shall, within one hundred and twenty (120) days from the receipt of a complete application i.e. admission of the Petition and after considering all suggestions and objections received from the public:
  - a) Issue an Order accepting the application with such modifications or such conditions as may be contained in such Order; or
  - b) Reject the application for reasons to be recorded in writing if such application is not in accordance with the provisions of the Act and the rules and regulations made thereunder or the provisions of any other law for the time being in force:

Provided that an applicant shall be given a reasonable opportunity of being heard before his application is rejected.

- (2) The tariff determined by the Commission shall come into force from the date specified in the Tariff Order.

## **20. Publication of Tariff**

The applicants shall publish the tariff or tariffs approved by the Commission in at least two (2) English and two (2) local language daily newspapers having circulation in the area of licence and shall put up the approved tariff/tariff schedule on its internet website and make available for sale, a booklet containing such tariff or tariffs, as the case may be, to any person upon payment of reasonable reproduction charges:

Provided that where the applicant is a Generating Company, the publication shall be in such newspapers as are widely circulated in the area of supply of the Distribution Licensee to whom the electricity is proposed to be supplied in terms of the Tariff Order and shall also be put up on the website of such Generating Company.

## **21. Communication of Tariff orders**

The Commission shall, within seven days of making the order, send a copy of the order to the Government of Uttarakhand, the Central Electricity Authority, applicant and respondents.



### **PART III**

## **FINANCIAL PRINCIPLES FOR COMPUTING COSTS AND RETURN**

### **22. Debt-equity ratio**

- (1) For a project declared under commercial operation on or after 1.4.2013, debt-equity ratio shall be 70:30. Where equity employed is more than 30%, the amount of equity for the purpose of tariff shall be limited to 30% and the balance amount shall be considered as normative loan. Where actual equity employed is less than 30%, the actual equity would be used for determination of Return on Equity in tariff computations.
- (2) In case of Generating Company, Transmission Licensee, Distribution Licensee, or SLDC where investments have been made prior to 1.4.2013, Debt: Equity Ratio shall be as approved by the Commission in the previous Orders.
- (3) The premium raised by the Generating Company, or the Transmission Licensee or the Distribution Licensee or SLDC while issuing share capital and investment of internal resources created out of free reserve, if any, shall also be reckoned as paid up capital for the purpose of computing return on equity, provided such premium amount and internal resources are actually utilised for meeting capital expenditure.
- (4) Equity invested in foreign currency shall be converted to rupee currency based on the exchange rate prevailing on the date(s) it is subscribed.

### **23. Capital Cost and capital structure**

- (1) In case of a Generating Company, Transmission Licensee, Distribution Licensee and SLDC, investments made prior to 1.4.2013 shall be accepted on the basis of investments approved by the Commission in the previous Orders.
- (2) Petition for 'in principle' approval of capital cost

Any licensee intending to establish, operate and maintain or augment capacity of a transmission system or distribution system or SLDC shall file an application/petition under affidavit to the Commission in accordance with UERC (Conduct of Business) Regulations, 2004 for 'in principle' approval of the project capital cost and financing plan before taking up a project. The application/petition of transmission system or distribution system or SLDC for investment approval shall clearly provide the purpose of the project as follows:—

The transmission application /petition shall consist of information on system strengthening, load growth, etc. as may be relevant for particular utility, its cost-benefit analysis and other details such as location of the project, site specific features, break up of capital cost, financial package, performance parameters, commissioning schedule, reference price level, estimated completion cost including foreign exchange component (if any), environment standards prescribed and to be achieved, etc:

The distribution application /petition shall consist of information on system strengthening, loss reduction, to meet load growth, fulfill obligations under UERC (Standards of Performance) Regulations, 2007 etc financial package, performance parameters, commissioning schedule, reference price level, estimated completion cost including foreign exchange component (if any), environment standards prescribed and to be achieved, etc.

Provided that where the Commission has given an 'in principle' approval to the estimated capital cost and financing plan, the same shall act as a guiding factor for applying prudence check on the actual capital expenditure while determining the ARR and Tariffs for a particular utility.

- (3) The approved Capital Cost shall be considered for tariff determination and if sufficient justification is provided for any escalation in the Project Cost, the same may be considered by the Commission subject to prudence check:

Provided that in case the actual capital cost is lower than the approved capital cost, then the actual capital cost will be considered:

Provided that prudence check of capital cost may be carried out based on the benchmark norms to be specified by the Commission from time to time:

Provided further that in cases where benchmark norms have not been published, prudence check may include scrutiny of the reasonableness of the capital expenditure, financing plan, interest during construction, use of efficient technology, cost over-run and time over-run, and such other matters as may be considered appropriate by the Commission for determination of tariff:

Provided also that the Commission may issue guidelines for vetting of capital cost of projects by independent agency or expert and in that event the capital cost as vetted by such agency or expert may be considered by the Commission while determining the tariff:

Provided also that in case, the site of a hydro generating station is awarded to a developer (not being a State controlled or owned company), by a State Government by following a two

stage transparent process of bidding, any expenditure incurred or committed to be incurred by the project developer including premium paid/payable for getting the project site allotted shall not be included in the capital cost:

Provided also that the capital cost in case of such hydro generating station shall 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 project developer's 10% contribution towards Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) project in the affected area.
- (4) The actual capital expenditure on date of capitalization based on audited accounts of the company, limited to original scope of work, may be considered subject to prudence check by the Commission.
- (5) Where power purchase agreement or transmission or wheeling agreement provides for a ceiling of capital cost, the capital expenditure admitted by the Commission shall take into consideration such ceiling for determination of tariff.
- (6) The capital cost may include capitalised initial spares which may be as follows:—
- a) Upto 2.5% of original capital cost in case of coal-based/lignite-fired thermal generating stations;
  - b) Upto 4.0% of original capital cost in case of gas turbine/combined cycle thermal generating stations;
  - c) Upto 1.5% of original capital cost in case of hydro-generating stations;
  - d) Upto 0.75% of original capital cost in case of Transmission Line;
  - e) Upto 2.5% of original capital cost in case of Transmission Sub-Station; and
  - f) Upto 2.5% of original capital cost in case of Distribution System including Distribution Lines
- (7) Impact of revaluation of assets shall be permitted during the Control Period, provided it does not result in increase in tariff of Generating Company, Transmission Licensee and Distribution Licensee. Any benefit from such revaluation shall be passed on to persons sharing the capacity charge in case of a Generating Company and to long-term Intra-State open access customers of Transmission Licensee or Distribution Licensee, or retail supply consumers in case of Distribution Licensees, at the time of Annual Truing Up.

- (8) Restructuring of capital in terms of relative share of equity and loan shall be permitted during the tariff period provided it does not affect tariff adversely. Any benefit from such restructuring shall be passed on to persons sharing the capacity charge in case of a generating company and to long term intra-State open access customers of Transmission or Distribution Licensee or consumers in case of such Licensees.

#### **24. Additional capitalization**

- (1) The following capital expenditure within the original scope of work actually incurred or projected to be incurred 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;
- b) Works deferred for execution;
- c) Procurement of initial capital spares within the original scope of work, subject to the provisions of Regulation 23(6);
- d) Liabilities to meet award of arbitration or for compliance of the order or decree of a court; and
- e) On account of change in law.

Provided that the details included in the original scope of work along with estimates of expenditure, deferred liabilities and the works deferred for execution shall be submitted along with the application for determination of tariff.

- (2) The capital expenditure of the following nature actually incurred after the cut-off date may, in its discretion, be admitted by the Commission, subject to prudence check:

- a) Liabilities to meet award of arbitration or for compliance of the order or decree of a court;
- b) Change in law;
- c) Deferred work related to ash pond or ash handling system within the original scope of work;
- d) In case of hydro generating stations, any additional expenditure which has become necessary on account of damage caused by natural calamities (but not due to flooding of power house attributable to the negligence of the generating company), including

due to geological surprises after adjusting for proceeds from any insurance scheme, and expenditure incurred due to any additional work which has become necessary for successful and efficient plant operation; and

- e) In case of transmission and distribution system any additional expenditure on items such as relays, control and instrumentation, computer system, power line carrier communication, DC batteries, replacement of switchyard, equipment due to increase of fault level, emergency restoration system, insulators cleaning infrastructure, replacement of damaged equipment not covered by insurance and any other expenditure which has become necessary for successful and efficient operation of transmission or distribution system:

Provided that in respect to sub-clause d) & e) above, any additional expenditure on acquiring minor items/assets like tools and tackles, furniture, air-conditioners, voltage stabilizers, refrigerators, coolers, fans, washing machines, heat convectors, mattresses, carpets, etc. brought after the cutoff date shall not be considered for additional capitalization for determination of tariff w.e.f. 1.4.2013.

## **25. Renovation and Modernisation**

- (1) The generating company or the transmission company, as the case may be, for meeting the expenditure on renovation and modernization (R&M) for the purpose of extension of life beyond the useful life of the generating station or a unit thereof or the transmission system, shall make an application 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, record of consultation with beneficiaries and any other information considered to be relevant by the generating company or the transmission company:

Provided that in case of coal-based/lignite fired thermal generating station, the generating company, may, in its discretion, avail of a 'special allowance' in accordance with the norms specified in Regulation 25 (4), 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 revision of the capital cost shall not be considered and the applicable operational norms shall not be relaxed but the special allowance shall be included in the annual fixed cost:

Provided also that such option shall not be available for a generating station or unit 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.

- (2) Where the Generating Company or the Transmission Company, as the case may be, makes an application for approval of its proposal for renovation and modernisation, the approval shall be granted after due consideration of 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.
- (3) Any expenditure incurred or projected to be incurred and admitted by the Commission after prudence check based on the estimates of renovation and modernization expenditure and life extension, and after deducting the accumulated depreciation already recovered from the original project cost, shall form the basis for determination of tariff.
- (4) A generating company on opting for the alternative in the first proviso to Regulation 25 (1) of these Regulations, for a coal-based/lignite fired thermal generating station, shall be allowed special allowance @ Rs. 6.25 lakh/MW/year in 2013-14 and thereafter escalated @ 5.72% every year during the tariff period 2014-16, unit-wise from the next financial year from the respective date of the completion of useful life with reference to the date of commercial operation of the respective unit of generating station:

Provided that in respect of a unit in commercial operation for more than 25 years for thermal power plants, this allowance shall be admissible from the financial year 2013-14.

Provided that in respect of a unit in commercial operation for more than 25 years as on 01.04.2013, this allowance shall be admissible from the year 2013-14.

## **26. Treatment of Consumer contribution, Deposit works and Grants/ Subsidies**

- (1) The following nature of works carried out by the Licensee shall be classified under this category:
  - a) Works after obtaining a part or all of the funds from the users in the context of deposit works.

- b) Capital works undertaken by utilising grants received from the State and Central Governments, including funds under RGGVY, APDRP, etc.
- (2) Principles for treatment of the expenses on such capital expenditure shall be as follows :—
- a) Normative O&M expenses as specified in these Regulations shall be allowed.
  - b) Provisions related to Depreciation as specified in Part III, shall be applicable to the extent of financial support, including the loan and equity contribution, provided by the Licensee or Generating Company, as the case may be. The depreciation shall not be allowed on the assets funded through Consumer Contribution or Capital Grants/Subsidies.
  - c) Provisions related to return on equity, as specified in Part III shall be applicable to the extent of normative debt: equity mix of 70:30 or actual equity, whichever is less, on the contribution made by the Licensee or Generating Company, as the case may be.

## **27. Return on Equity**

- (1) Return on equity shall be computed on the equity base determined in accordance with Regulation 22:

Provided that, Return on Equity shall be allowed on amount of allowed equity capital for the assets put to use at the commencement of each financial year.

- (2) Return on equity shall be computed on at the rate of 15.5% for Generating Stations, Transmission Licensee and SLDC and at the rate of 16% for Distribution Licensee on a post-tax basis:

Provided that in case of generation and transmission projects commissioned on or after 1st April, 2013, an additional Return of 0.5% shall be allowed if such projects are completed within the timeline as specified in Appendix - I to these Regulations.

## **28. Interest and finance charges on loan capital and on Security Deposit**

- (1) The loans arrived at in the manner indicated in Regulation 22 shall be considered as gross normative loan for calculation of interest on loan.

- (2) The normative loan outstanding as on 1.4.2013 shall be worked out by deducting the cumulative repayment as admitted by the Commission up to 31.3.2013 from the gross normative loan.
- (3) The repayment for each year of the Control Period shall be deemed to be equal to the depreciation allowed for that year.
- (4) Notwithstanding any moratorium period availed by the Generating Company or the Transmission Licensee or the Distribution Licensee or the SLDC, 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 annual depreciation allowed.
- (5) The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio at the beginning of each year applicable to the project:

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 or the distribution 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 or the Distribution 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 Generating Company or the Transmission Licensee or the Distribution Licensee, or the SLDC as the case may be, shall make every effort to re-finance the loan as long as it results in net savings on interest and in that event the costs associated with such re-financing shall be borne by the beneficiaries and the net savings on interest shall be shared between the beneficiaries and the Generating Company or the Transmission Licensee or the Distribution Licensee or the SLDC, as the case may be, in the ratio of 50:50.
- (8) The changes to the terms and conditions of the loans shall be reflected from the date of such re-financing.
- (9) Interest shall be allowed on the amount held as security deposit by the Distribution Licensee from consumers, at the rate as may be decided by the Commission from time to time.



## 29. Depreciation

- (1) The value base for the purpose of depreciation shall be the capital cost of the asset admitted by the Commission:

Provided that depreciation shall not be allowed on assets funded through Consumer Contribution and Capital Subsidies/Grants.

- (2) 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.
- (3) Provided that in case of generating stations, the salvage value shall be as provided in the agreement signed by the developers with the State Government for creation of site:

Provided further that the capital cost of the assets of the generating station for the purpose of computation of depreciable value for the purpose of determination of tariff under these regulations shall correspond to the percentage of sale of electricity under long-term power purchase agreement at regulated tariff.

- (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 - II to these Regulations:

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

- (6) In case of the existing projects, the balance depreciable value as on 1.4.2013 shall be worked out by deducting the cumulative depreciation as admitted by the Commission upto 31.3.2013 from the gross depreciable value of the assets. The difference between the cumulative depreciation recovered and the depreciation so arrived at by applying the depreciation rates as specified in these Regulations corresponding to 12 years shall be spread over the remaining period upto 12 years. The remaining depreciable value as on 31st March of the year closing after a period of 12 years from date of commercial operation shall be spread over the balance life.
- (7) 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.

### **30. Lease charges**

Lease charges for assets taken on lease by a generating company, SLDC or a Transmission or Distribution Licensee shall be considered as per lease agreement provided they are considered reasonable by the Commission.

### **31. Operation & Maintenance expenses**

- (1) 'Operation and Maintenance or O&M expenses' shall comprise of expenses incurred on manpower, repair & maintenance (R&M) and administrative and general expenses, including insurance expenses.
- (2) Operation and maintenance expenses shall be determined for the Control period based on methodology specified by the Commission subsequently in these Regulations.
- (3) O&M expenses of assets taken on lease and those created out of consumer's contribution shall be considered, if the Generating Company or the Transmission or the Distribution Licensee or the SLDC has the responsibility for its O&M and bears O&M expenses.
- (4) Annual O&M expenses for gross fixed assets added during the year shall be considered from the date of commissioning on pro-rata basis.
- (5) Increase in O&M charges on account of war, insurgency, change in laws, or like eventualities may be considered by the Commission for a specified period.
- (6) The variation in normative O&M expenses and actual O&M expenses shall be considered as part of gain/loss on account of controllable factors.

### **32. Bad and doubtful debts**

The Commission may allow a provision for bad and doubtful debts upto one percent (1%) of the estimated annual revenue of the distribution licensee, subject to actual writing off of bad debts by it in the previous years:

Provided that where the amount of such provisioning for bad and doubtful debts exceeds five (5) per cent of the receivables at the beginning of the year, no such appropriation shall be allowed which would have the effect of increasing the provisioning beyond the said maximum.

### 33. Foreign Exchange Rate Variation (FERV)

Cost of hedging for foreign exchange variation towards interest payment and loan repayment shall be allowed on year-to-year basis and shall be payable until due date of payments and be subject to prudent check of the Commission. The Applicant shall provide full particulars of such cost of hedging to the Commission.

In case hedging has not been arranged due to valid reasons, FERV shall be provisionally estimated by the Commission for the purpose of determining tariff and shall be subject to adjustment as per actuals.

### 34. Interest on Working Capital

Rate of interest on working capital shall be on normative basis and shall be equal to the State Bank Advance Rate (SBAR) of State Bank of India as on the date on which the application for determination of tariff is made.

#### (1) Generation:

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

- (i) Landed Cost of coal or lignite or limestone for 1½ (one and a half) month for pit-head generating stations and 2 (two) months for non-pit-head generating stations, corresponding to Normative Annual Plant Availability Factor) (NAPAF);
- (ii) Cost of secondary fuel oil for two months for generation corresponding to the NAPAF and in case of use of more than one secondary fuel oil, cost of fuel oil stock for the main secondary fuel oil;
- (iii) Operation and Maintenance expenses for one month;
- (iv) Maintenance spares @ 20% of operation and maintenance expenses;
- (v) Receivables equivalent to 2 (two) months of capacity and energy charges for sale of electricity calculated on the NAPAF.

b) In case of open cycle Gas Turbine/Combined Cycle thermal generating stations, working capital shall cover:

- (i) Landed fuel cost for 1 (one) month corresponding to the NAPAF duly taking into account the mode of operation of the generating station on gas fuel and liquid fuel;
- (ii) Liquid fuel stock for ½ (half) month corresponding to the NAPAF, and in case of use of more than one liquid fuel, cost of main liquid fuel;
- (iii) Operation and maintenance expenses for one month;
- (iv) Maintenance spares @ 30% of operation and maintenance expenses; and

- (v) Receivables equivalent to 2 (two) months of Capacity Charge and Energy Charges for sale of electricity calculated on NAPAF duly taking into account the mode of operation of the generating station on gas fuel and liquid fuel.
  - c) In case of hydro power generating stations, working capital shall cover:
    - (i) Operation and maintenance expenses for one month;
    - (ii) Maintenance spares @ 15% of operation and maintenance expenses; and
    - (iii) Receivables for sale of electricity equivalent to two months of the annual fixed charges calculated on normative capacity index.
  - d) In case of own generating stations, no amount shall be allowed towards receivables, to the extent of supply of power by the Generation Business to the Retail Supply Business, in the computation of working capital in accordance with these Regulations.
- (2) Transmission:
- a) The Transmission Licensee shall be allowed interest on the estimated level of working capital for the financial year, computed as follows:--
    - (i) Operation and maintenance expenses for one month;
    - (ii) Maintenance spares @ 15% of operation and maintenance expenses; and
    - (iii) Two month equivalent of the expected revenue from transmission charges at the prevailing tariffs.
- (3) Distribution:
- a) The Distribution Licensee shall be allowed interest on the estimated level of working capital for the financial year, computed as follows:--
    - (i) One month of the amount of Operation and Maintenance expenses for such financial year; plus
    - (ii) Maintenance spares @ 15% of operation and maintenance expenses; plus
    - (iii) Two months equivalent of the expected revenue from sale of electricity at the prevailing tariffs; minus
    - (iv) Amount held as security deposits under clause (a) and clause (b) of sub-section (1) of Section 47 of the Act from consumers and Distribution System Users; minus
    - (v) One month equivalent of cost of power purchased, based on the annual power procurement plan.

**(4) SLDC:**

- a) The SLDC shall be allowed interest on the estimated level of working capital for the financial year, computed as follows:--
  - (i) Maintenance spares @ 15% of operation and maintenance expenses; and
  - (ii) Operations and Maintenance expenses for one month;
  - (iii) Receivables equivalent to two months of SLDC charges.

**35. Tax on Income**

Income Tax, if any, on the income stream of the regulated business of Generating Companies, Transmission Licensees, Distribution Licensees and SLDC shall be reimbursed to the Generating Companies, Transmission Licensees, Distribution Licensees and SLDC as per actual income tax paid, based on the documentary evidence submitted at the time of truing up of each year of the Control Period, subject to the prudence check.

**36. Regulatory Asset**

In case of abnormal variation in income or expenses resulting in substantial revenue gap, full recovery of which in a single year is not feasible, the Commission may allow creation of Regulatory Asset as per guidelines provided in clause 8.2.2 of the Tariff Policy and suitably provide for its recovery through tariff or as a surcharge in more than one year. For amortisation of the regulatory asset so created shall be dealt in accordance with the Tariff Policy, provided that the Commission may allow a carrying cost on Regulatory Asset at such rates that the Commission may deem fit.

**PART IV**

**REVENUES**

**37. Tariff income**

Income of the Generating Company, Transmission Licensee, Distribution Licensee and SLDC from all charges determined by the Commission for generation, transmission, wheeling and retail supply of electricity, SLDC charges, as the case may be, , shall be considered as tariff income.

### **38. Other revenue**

- (1) All revenues including charges for unauthorized use of electricity and composition money, other than tariff revenue shall be grouped as other revenue.
- (2) For the electricity supply to the housing colonies or townships for its operating staff drawn from the Power Station/Sub-Station bus bar, a separate account shall be maintained by the Generating Company/Transmission Licensee for such energy supply and revenue thereof shall be reported annually to the Commission in the ARR/tariff petition, wherever applicable.
- (3) While determining the generation/transmission tariff, revenue so realised, i.e., the revenue as per generation tariff in respect of Generating Company or consumer category tariff of Distribution Licensee where the sub-station is situated in respect of Transmission Licensee, shall be considered by the Commission as one of the components of other income of the Generating Company/Transmission Licensee.

### **39. Surcharge and additional surcharge**

Surcharge and additional surcharge under Sections 39, 40 and 42 of the Electricity Act, 2003 shall be considered as income and treated as may be specified by the Commission.

### **40. Income from Other Business**

- (1) Revenue from other business shall be treated as income to the extent authorized by the Commission under Sections 41 and 51 of the Electricity Act, 2003.
- (2) The Generating Company, Transmission Licensee and Distribution Licensee shall submit the following information along with the Petition to the Commission:

Whether the Licensee is engaged in any Other Business within the meaning prescribed under Sections 41 and 51 of the EA 2003?

If yes, then the Licensee should submit the following information

- a) Name and description of all Other Business that the Licensee is engaged in;
- b) For each such Other Business, amount of revenue generated in the previous year, estimated during the current year and projected for the ensuing year;
- c) Assets of licensed business used by the Licensee to generate the above revenue;
- d) Expenses incurred to generate the above revenue, separately for each Other Business;

- e) Whether these expenses have already been included in the ARR of the Licensee?  
Fully or partly? If partly, proportion and basis of apportionment to be submitted.

**41. Sharing of Clean Development Mechanism (CDM) credit**

The proceeds of carbon credit from approved CDM project shall be shared in the following manner, namely:-

- 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%, whereafter the proceeds shall be shared in equal proportion, by the generating company or the transmission licensee, as the case may be, and the beneficiaries.

**PART-V**  
**COMPUTATION OF GENERATION TARIFF**

**42. Applicability**

- (1) The Regulations specified in this Part shall apply for determining the tariff for supply of electricity to a Distribution Licensee from generating stations located in Uttarakhand:

Provided that determination of tariff for supply of electricity to a Distribution Licensee from renewable sources of generation including Small Hydel Projects having capacity upto 25 MW shall be in accordance UERC (Tariff and Other Terms for Supply of Electricity from Renewable Energy Sources and non-fossil fuel based Co-generating Stations) Regulations, 2010.

- (2) The Commission shall be guided by the terms and conditions contained in this Part in determining the tariff for supply of electricity by a Generating Company to a Distribution Licensee.

**43. Petition for determination of generation tariff**

- (1) A Generating Company may file petition for determination of tariff for supply of electricity to Distribution Licensees complying with the provisions of Part II of these Regulations.
- (2) Tariff in respect of a generating station under these Regulations shall be determined stage-wise, unit-wise or for the whole generating station. The terms and conditions for determination of tariff for generating stations specified in this Part shall apply in like manner to stages or Units, as the case may be, as to generating stations.
- (3) Where the tariff is being determined for stage or Unit of a generating station, the Generating Company shall adopt a reasonable basis for allocation of capital cost relating to common facilities and allocation of joint and common costs across all stages or Units, as the case may be:

Provided that the Generating Company shall maintain an Allocation Statement providing the basis for allocation of such costs, and submit such statement to the Commission along with the application for determination of tariff.

- (4) A Generating Company may file petition for determination of provisional tariff in advance of the anticipated date of commissioning of a generating station based on the capital



expenditure actually incurred up to the date of making the petition or a date prior to making of the petition, duly audited and certified by the statutory auditors and the provisional tariff shall be charged from the date of commercial operation of the generating station.

- (5) A Generating Company for whom the Commission has determined provisional tariffs shall have to file a fresh petition as per these Regulations, for determination of final tariff based on actual capital expenditure incurred up to the date of commercial operation of the generating station duly certified by the statutory auditors based on annual audited accounts.
- (6) Any difference in provisional tariff and the final tariff determined by the Commission and not attributable to the Generating Company may be adjusted in the tariff for the following year as decided by the Commission.

#### **44. Components of tariff**

- (1) The tariff for sale of electricity from a thermal Power Generating Station shall comprise of two parts, namely, the recovery of Annual Fixed Charges and Energy (variable) Charges (for recovery of primary and secondary fuel cost).
- (2) The tariff for sale of electricity from a Hydro Generating Station shall comprise of two parts, namely, the recovery of Annual Capacity Charge and Energy Charge.

#### **45. Annual Fixed Charges**

- (1) The Annual Fixed Charges shall comprise of the following elements:--
  - a) Interest on Loan;
  - b) Depreciation;
  - c) Lease Charges;
  - d) Operation & Maintenance Expenses;
  - e) Return on Equity;
  - f) Interest on Working Capital;
  - g) Cost of secondary fuel oil (for coal/ lignite based generating stations only).
- (2) Less:
  - a) Non-Tariff Income:

Provided that Depreciation, Interest and finance charges on Loan Capital, Interest on Working Capital and Return on Equity for Thermal and Hydro Generating Stations shall be allowed in accordance with the provisions specified in Part-III of these Regulations.

#### 46. Sale of Infirm Power

The tariff for sale of infirm power from the thermal generating station to the Distribution Licensee shall be equivalent to the actual fuel cost, including the secondary fuel cost, as the case may be, incurred during that period subject to prudence check. For hydro generating station, the tariff for sale of infirm power shall be Rs. 0.80/kWh which is the specified rate for secondary energy:

Provided that any revenue other than the recovery of fuel cost earned by the Generating Company from sale of infirm power shall be used for reduction in capital cost and shall not be treated as revenue.

#### 47. Non Tariff Income

The amount of non-tariff income relating to the Generation Business as approved by the Commission shall be deducted from the Annual Fixed Charges in determining the Net Annual Fixed Charges of the Generation Company:

Provided that the Generation Company shall submit full details of its forecast of non tariff income to the Commission in such form as may be stipulated by the Commission from time to time.

The indicative list of various heads to be considered for non tariff income shall be as under:

- a) Income from rent of land or buildings;
- b) Income from sale of scrap;
- c) Income from statutory investments;
- d) Income from sale of Ash/rejected coal;
- e) Interest on delayed or deferred payment on bills;
- f) Interest on advances to suppliers/contractors;
- g) Rental from staff quarters;
- h) Rental from contractors;
- i) Income from hire charges from contractors and others;
- j) Income from advertisements, etc.;
- k) Any other non- tariff income.

**48. Norms of operation for Thermal Generating Stations**

The norms of operation as given hereunder shall apply:

- (1) **Normative Annual Plant Availability Factor (NAPAF)** for all thermal generating stations shall be 85%.
- (2) **Gross Station Heat Rate** The Gross Station Heat Rate for thermal Generating stations shall be as below,
  - i. Coal and lignite based thermal power generating stations =  $1.065 \times \text{Design Heat Rate (kcal/kWh)}$

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

Provided that the Design Heat Rate shall not exceed the limit specified as under:

Pressure Rating (Kg/cm <sup>2</sup> )	150	170	170	247	247
SHT/RHT (OC)	535/535	537/537	537/565	537/565	565/593
Type of BFP	Electrical Driven	Turbine driven	Turbine driven	Turbine driven	Turbine driven
Max Turbine Cycle Heat rate (kCal/kWh)	1955	1950	1935	1900	1850
Min.Boiler Efficiency					
Sub-Bituminous Indian Coal	0.85	0.85	0.85	0.85	0.85
Bituminous Imported Coal	0.89	0.89	0.89	0.89	0.89
Max Design Unit Heat rate (kCal/kWh)					
Sub-Bituminous Indian Coal	2300	2294	2276	2235	2176
Bituminous Imported Coal	2197	2191	2174	2135	2079

- ii. Gas-based / Liquid-based thermal generating unit(s)

=  $1.05 \times \text{Design Heat Rate of the unit for Natural Gas and RLNG (kcal/kWh)}$

=  $1.071 \times \text{Design Heat Rate of the unit for Liquid Fuel (kcal/kWh)}$

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.

(3) **Secondary fuel oil consumption**

- i. Coal-based generating stations: 1.0 ml/kWh
- ii. Lignite-Fired Generating Stations except stations based on CFBC technology : 2.0 ml/kWh
- iii. Lignite-Fired Generating Stations based on CFBC technology : 1.25 ml/kWh

(4) **Auxiliary Energy Consumption including transformation losses**

- i. Coal-based Generating Stations:

Auxiliary Energy Consumption	With Natural Draft cooling tower or without cooling tower
(i) 200 MW series	8.50%
(ii) 300/330/350/500 MW & above	
Steam driven boiler feed pumps	6.00%
Electrically driven boiler feed pumps	8.50%

Provided further that for Thermal Generating Stations with induced draft cooling towers, the norms shall be higher by 0.5%, as compared to above norms

- ii. Gas Turbine/Combined Cycle generating stations:
  - Combined cycle: 3.0%
  - Open cycle: 1.0%
- iii. Lignite-fired thermal generating stations:
  - 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 above:

Provided that for the lignite fired stations using CFBC technology, the auxiliary energy consumption norms shall be 1.5 percentage points more than the auxiliary energy consumption norms of coal based generating stations as specified above.

**(5) Transit and handling Losses**

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

- i. Pit head generating stations: 0.2%
- ii. Non-pit head generating stations: 0.8%

The above norms shall be applicable for all types of coal i.e., domestic coal, washed coal and imported coal:

Provided that for procurement of coal on delivery basis, no transit and handling loss shall be allowed.

**49. Operation and Maintenance Expenses for Thermal Generating Stations**

Normative operation and maintenance expenses shall be as follows, namely:

**(1) Coal-based and lignite fired (including those based on CFBC technology) generating stations**

(Rs. in lakh/MW)

Year	200/210/250 MW sets	300/330/350 MW sets	500 MW sets	600 MW and above sets
2013-14	22.74	19.99	16.24	14.62
2014-15	24.04	21.13	17.17	15.46
2015-16	25.42	22.34	18.15	16.34

Provided that the above norms shall be multiplied by the following factors for additional units in respective unit sizes for the units whose COD occurs on or after 1.4.2013 in the same station:

- i. **200/210/250 MW:**
  - Additional 5th & 6th units - 0.9
  - Additional 7th & more units - 0.85
- ii. **300/330/350 MW:**
  - Additional 4th & 5th units - 0.9
  - Additional 6th & more units - 0.85
- iii. **500 MW and above:**
  - Additional 3rd & 4th units - 0.9
  - Additional 5th & above units - 0.85

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

(2) **Open Cycle Gas Turbine/Combined Cycle generating stations**

Year	Gas Turbine/ Combined Cycle generating stations other than small gas turbine power generating stations	Small gas turbine power generating stations
2013-14	Rs. 18.49 lakh/MW	Rs. 28.61 lakh/MW
2014-15	Rs.19.55 lakh/MW	Rs. 30.24 lakh/MW
2015-16	Rs. 20.67 lakh/MW	Rs.31.97 lakh/MW

(3) **Lignite-fired generating stations**

Year	125 MW Sets
2013-14	Rs. 29.98 lakh/MW
2014-15	Rs. 31.70 lakh/MW
2015-16	Rs. 33.52 lakh/MW

In case of coal-based or lignite-fired thermal generating station a separate compensation allowance unit-wise shall be admissible to meet expenses on new assets of capital nature including in the nature of minor assets, in the following manner from the year following the year of completion of 10, 15, or 20 years of useful life:

Years of operation	Compensation Allowance (Rs
0-10	Nil
11-15	0.15
16-20	0.35
21-25	0.65

**50. Expenses on secondary fuel oil consumption for coal-based and lignite-fired generating station**

- (1) Expenses on secondary fuel oil in Rupees shall be computed corresponding to normative secondary fuel oil consumption (SFC) specified in Regulation 48(3), in accordance with the following formula:

$$= \text{SFC} \times \text{LPSFi} \times \text{NAPAF} \times 24 \times \text{NDY} \times \text{IC} \times 10$$

Where,

SFC – Normative Specific Fuel Oil consumption in ml/kWh

LPSFi – Weighted Average Landed Price of Secondary Fuel in Rs./ml considered initially

NAPAF – Normative Annual Plant Availability Factor in percentage

NDY – Number of days in a year

IC - Installed Capacity in MW.

- (2) Initially, the landed cost incurred by the generating company on secondary fuel oil shall be taken based on actuals of the weighted average price of the three preceding months and in the absence of landed costs for the three preceding months, latest procurement price for the generating station, before the start of the year.

The secondary fuel oil expenses shall be subject to fuel price adjustment at the end of the each year of tariff period as per following formula:

$$\text{SFC} \times \text{NAPAF} \times 24 \times \text{NDY} \times \text{IC} \times 10 \times (\text{LPSF}_y - \text{LPSF}_i)$$

Where,

LPSF<sub>y</sub> = The actual weighted average landed price of secondary fuel oil for the year in Rs./ml

## 51. Norms of operation for Hydro Generating Station

The norms of operation given hereunder shall apply:

### (1) Normative Plant Availability Factor (NAPAF)

Particulars	Normative Plant Availability Factor
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%
Storage and Pondage type plants with head variation between FRL and MDDL of more than 8%, where plant availability is not affected by silt	Plant-specific allowance to be provided in NAPAF for reduction in MW output capability as reservoir level falls over the months. As a general guideline the allowance on

Particulars	Normative Plant Availability Factor
	<p>this account in terms of a multiplying factor may be worked out from the projection of annual average of net head, applying the formula:</p> $(\text{Average head} / \text{Rated head}) + 0.02$ <p>Alternatively in case of a difficulty in making such projection, the multiplying factor may be determined as:</p> $(\text{Head at MDDL} / \text{Rated head}) \times 0.5 + 0.52$
Pondage type plants where plant availability is significantly affected by silt	85%
Run-of-river type plants	To be determined plant-wise, based on 10-day design energy data, moderated by past experience where available / relevant

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

Provided that in case of new hydro generating station the developer shall have the option of approaching the Commission in advance for fixation of NAPAF based on the principles enumerated in the table above.

Provided further that Generating Companies shall submit plant wise NAPAF alongwith the detailed calculations and reasons thereof as per the guidelines for calculation of NAPAF as laid down in Appendix - III to these Regulations, for seeking approval of the Commission.

**(2) Auxiliary energy consumption including transformation losses:**

**(a) Surface hydro electric power generating stations**

- i. With rotating exciters mounted on the generator shaft - 0.7%
- ii. With static excitation system: 1%

**(b) Underground hydro generating station**

- i. With rotating exciters mounted on the generator shaft - 0.9%
- ii. With static excitation system: 1.2%



## 52. Operation and Maintenance Expenses for Hydro Generating Stations

(1) Operation and Maintenance (O&M) expenses shall comprise of the following:-

- (b) salaries, wages, pension contribution and other employee costs;
- (c) administrative and general expenses including insurance charges if any;
- (d) repairs and maintenance expenses.

(2) For Generating Stations in operation for more than five years in Base Year

The operation and maintenance expenses for the first year of the control period will be approved by the Commission taking in to account the actual O&M expenses for last five years till base year, based on the audited balance sheets, excluding abnormal operation and maintenance expenses, if any, subject to prudence check and any other factors considered appropriate by the Commission.

(3) For Generating Stations in operation for less than 5 years in base year:

In case of the hydro electric generating stations, which have not been in existence for a period of five years in the base year of FY 2011-12, the operation and maintenance expenses for the base year of FY 2011-12 shall be fixed at 1.5% of the capital cost as admitted by the Commission for the first year of operation and shall be escalated from the subsequent year in accordance with the escalation principles specified in sub regulation (6) below.

(4) For Generating Stations declared under commercial operation on or after 1.4.2013.

In case of new hydro electric generating stations, i.e. the hydro electric generating stations declared under commercial operation on or after 1.4.2013, the base operation and maintenance expenses shall be fixed at 2% of the actual capital cost as admitted by the Commission, for the year of commissioning.

(5) Post, determination of base O&M Expenses in Regulation 52(2) above, the O&M expenses for the nth year and also for the year immediately preceding the Control Period, i.e. 2012-13 shall be approved based on the formula given below:-

$$O\&M_n = R\&M_n + EMP_n + A\&G_n$$

Where --

- O&M<sub>n</sub> – Operation and Maintenance expenses for the nth year;
- EMP<sub>n</sub> – Employee Costs for the nth year;

- R&Mn - Repair and Maintenance Costs for the nth year;
- A&Gn - Administrative and General Costs for the nth year;

The above components shall be computed in the manner specified below:

$$EMP_n = (EMP_{n-1}) \times (1+G_n) \times (CPI_{inflation})$$

$$R\&M_n = K \times (GFA_{n-1}) \times (WPI_{inflation}) \text{ and}$$

$$A\&G_n = (A\&G_{n-1}) \times (WPI_{inflation}) + \text{Provision}$$

Where -

- $EMP_{n-1}$  - Employee Costs for the (n-1)th year;
- $A\&G_{n-1}$  - Administrative and General Costs for the (n-1)th year;
- Provision: Cost for initiatives or other one-time expenses as proposed by the Generating Company and approved by the Commission after prudence check.
- 'K' is a constant to be specified by the Commission %. Value of K for each year of the control period shall be determined by the Commission in the MYT Tariff order based on Generating Company's filing, benchmarking of repair and maintenance expenses, approved repair and maintenance expenses vis-à-vis GFA approved by the Commission in past and any other factor considered appropriate by the Commission;
- $CPI_{inflation}$  - is the average increase in the Consumer Price Index (CPI) for immediately preceding three years;
- $WPI_{inflation}$  - is the average increase in the Wholesale Price Index (CPI) for immediately preceding three years;
- $GFA_{n-1}$  - Gross Fixed Asset of the Generating Company for the n-1th year;
- $G_n$  is a growth factor for the nth year. Value of  $G_n$  shall be determined by the Commission in the MYT tariff order for meeting the additional manpower requirement based on Generating Company's filings, benchmarking and any other factor that the Commission feels appropriate :

Provided that repair and maintenance expenses determined shall be utilised towards repair and maintenance works only.

- (6) O&M expenses determined in sub-Regulation (3) & (4) above, shall be escalated for subsequent years to arrive at the O&M expenses for the control period by applying the Escalation factor ( $EF_k$ ) for a particular year (Kth year) which shall be calculated using the following formula:

$$EF_k = 0.55 \times WPI_{inflation} + 0.45 \times CPI_{inflation}$$

- (7) In case of multi-purpose hydroelectric stations, with irrigation, flood control and power components, the O&M expenses chargeable to power component of the station only shall be considered for determination of tariff.

**53. Computation and Payment of Annual Fixed Charges and Energy Charges for Thermal Generating Stations**

- (1) The fixed cost of a thermal generating station shall be computed on annual basis, based on norms specified under these Regulations, and recovered on monthly basis under capacity charge. The total capacity charge payable for a generating station shall be shared by its beneficiaries as per their respective percentage share / allocation in the capacity of the generating station.
- (2) The capacity charge (inclusive of incentive) payable to a thermal generating station for a calendar month shall be calculated in accordance with the following formulae:
- (a) Generating stations in commercial operation for less than ten (10) years on 1st April of the financial year:

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

Provided that in case the plant availability factor achieved during a financial year (PAFY) is less than 70%, the total capacity charge for the year shall be restricted to  $AFC \times (0.5 + 35 / NAPAF) \times (PAFY / 70)$  (in Rupees).

- (b) For generating stations in commercial operation for ten (10) years or more on 1st April of the year:

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

Where,

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

NAPAF = Normative annual plant availability factor in percentage

NDM = Number of days in the month

NDY = Number of days in the year

PAFM = Plant availability factor achieved during the month, in percent;

PAFY = Plant availability factor achieved during the year, in percent

- (3) The PAFM and PAFY shall be computed in accordance with the following formula:

$$\text{PAFM or PAFY} = 10000 \times \sum_{i=1} \text{DCi} / \{ N \times \text{IC} \times (100 - \text{AUX}) \} \%$$

Where,

AUX = Normative auxiliary energy consumption in percentage.

DCi = Average declared capacity (in ex-bus MW), subject to clause (4) below, 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 station

N = Number of days during the period i.e. the month or the year as the case may be.

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

- (4) In case of fuel shortage in a thermal generating station, the generating company may propose to deliver a higher MW during peak-load hours by saving fuel during off-peak hours. The concerned Load Despatch Centre may then specify a pragmatic day-ahead schedule for the generating station to optimally utilize its MW and energy capability, in consultation with the beneficiaries. DCi in such an event shall be taken to be equal to the maximum peak-hour ex-power plant MW schedule specified by the concerned Load Despatch Centre for that day.
- (5) The energy charge shall cover the primary 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:  

$$(\text{Energy charge rate in Rs./kWh}) \times \{\text{Scheduled energy (ex-bus) for the month in kWh.}\}$$
- (6) 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
 
$$\text{ECR} = \{ (\text{GHR} - \text{SFC} \times \text{CVSF}) \times \text{LPPF} / \text{CVPF} + \text{LC} \times \text{LPL} \} \times 100 / (100 - \text{AUX})$$
  - (b) For gas and liquid fuel based stations
 
$$\text{ECR} = \text{GHR} \times \text{LPPF} \times 100 / \{ \text{CVPF} \times (100 - \text{AUX}) \}$$

Where,

AUX = Normative auxiliary energy consumption in percentage.

CVPF = Gross calorific value of primary fuel as fired, in kCal per kg, per litre or per standard cubic metre, as applicable.

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

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

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

LC = Normative limestone consumption in kg per kWh.

LPL = Weighted average landed price of limestone in Rupees per kg.

LPPF = Weighted average landed price of primary fuel, in Rupees per kg, per litre or per standard cubic metre, as applicable, during the month.

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

- (7) The landed cost of fuel shall include price of fuel corresponding to the grade/quality/calorific value of fuel inclusive of royalty, taxes and duties as applicable, transportation cost by rail/road/gas pipe line or any other means, and, for the purpose of computation of energy charges, shall be arrived at after considering normative transit and handling losses as percentage of the quantity of fuel dispatched by the fuel supply company during the month as specified in these Regulations.

#### 54. Computation and Payment of Capacity Charges and Energy Charges for Hydro Generating Stations

- (1) The Annual Fixed Charges of Hydro Generating Station shall be computed on annual basis, based on norms specified under these Regulations, and 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 percentage share/allocation in the saleable capacity of the generating station, that is to say, in the capacity excluding the free power to the home State.
- (2) The capacity charge (inclusive of incentive) payable to a hydro generating station for a calendar month shall be:

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

Where,

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

NAPAF = Normative plant availability factor in percentage

NDM = Number of days in the month

NDY = Number of days in the year

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

- (3) The PAFM shall be computed in accordance with the following formula :

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

Where,

AUX = Normative auxiliary energy consumption in percentage

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

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

N = Number of days in the month

- (4) The Energy Charge shall be payable by every beneficiary for the total energy supplied to the beneficiary, during the calendar month, on ex-power plant basis, at the computed Energy Charge rate. Total Energy Charge payable to the Generating Company for a month shall be :

$$(\text{Energy Charge Rate in Rs. / kWh}) \times \{ \text{Energy (ex-bus)} \text{ for the month in kWh} \} \times (100 - \text{FEHS}) / 100$$

- (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:

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

Where,

DE = Annual Design Energy specified for the hydro generating station, in MWh.,

FEHS = Free Energy for home State, in percent, as applicable

- (6) In case actual total energy generated by a Hydro Generating Station during a year is less than the Design Energy for reasons beyond the control of the Generating Company, the following treatment shall be applied on a rolling basis:
- a) in case the energy shortfall occurs within ten years from the date of commercial operation of a generating station, the ECR for the year following the year of energy shortfall shall be computed based on the formula specified in Regulation 54 (5) with the modification that the DE for the year shall be considered as equal to the actual energy

generated during the year of the shortfall, till the Energy Charge shortfall of the previous year has been made up, after which normal ECR shall be applicable;

- b) in case the energy shortfall occurs after ten years from the date of commercial operation of a generating station, the following shall apply:

Suppose the specified annual Design Energy (DE) for the station is DE MWh, and the actual energy generated during the concerned (first) and the following (second) financial years is A1 and A2 MWh, respectively, A1 being less than DE. Then, the design energy to be considered in the formula in Regulation 54 (5) above for calculating the ECR for the third financial year shall be moderated as  $(A1 + A2 - DE)$  MWh, subject to a maximum of DE MWh and a minimum of A1 MWh;

- c) actual energy generated (e.g., A1, A2) shall be arrived at by multiplying the net metered energy sent out from the station by  $100 / (100 - AUX)$ .

- (7) In case the Energy Charge Rate (ECR) for a hydro generating station, as computed above, exceeds eighty paise per kWh, and the actual saleable energy in a year exceeds  $\{ DE \times (100 - AUX) \times (100 - FEHS) / 10000 \}$  MWh, the Energy Charge for the energy in excess of the above shall be billed at eighty paise per kWh only:

Provided that in a year following a year in which total energy generated was less than the design energy for reasons beyond the control of the Generating Company, the Energy Charge Rate shall be reduced to eighty paise per kWh after the energy charge shortfall of the previous year has been made up.

- (8) The Uttarakhand State 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.
- (9) The Uttarakhand State Load Despatch Centre shall certify the declared capacity of the generating stations on daily basis and shall also issue a Certificate at the end of the year, validating the PAFM during the year, to the generating company.

## **55. Demonstration of declared capacity**

- (1) The Generating Company may be required to demonstrate the declared capacity of its generating station as and when asked by the State Load Despatch Centre. In the event of

Generating Company failing to demonstrate the declared capacity within a tolerance limit specified by State Transmission Utility, the capacity charges due to the Generating Company shall be reduced as a measure of penalty.

- (2) The quantum of penalty for the first mis-declaration for duration or block in a day shall be the charges corresponding to two days capacity charges. For the second mis-declaration the penalty shall be equivalent to capacity charges for four days and for subsequent mis-declarations, the penalty shall be multiplied in the geometrical progression.
- (3) The operating logbooks of the generating station shall be made available for review by the SLDC, as the case may be. These books keep record of machine operation and maintenance, reservoir level and spillway gate operation.

#### **56. Metering and Accounting**

The provisions of Uttarakhand Electricity Regulatory Commission (State Grid Code) Regulations, 2007 and Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006, as amended from time to time shall be applicable.

#### **57. Billing and payment of Charges**

Billing and payment of Charges shall be done on a monthly basis in the following manner:-

- (1) Billing and Payment of Annual Fixed Charges, Energy Charges and Incentive for Generating Stations shall be done on a monthly basis subject to adjustments at the end of the year.
- (2) The Distribution Licensees and persons having power purchase agreement for firm power for more than one year shall pay the fixed/capacity charges in proportion to their percentage share, allocation or contract in the installed capacity of a generating station.
- (3) If any capacity remains un-requisitioned in any period, full capacity charges shall be shareable by the persons mentioned in Regulation 57 (2), subject to Regulation 57 (4).
- (4) If any capacity remains un-requisitioned in any period, the Generating Company shall be free to sell electricity to any person including a person outside the State and such person to whom electricity is sold shall also share the fixed/ capacity charges in addition to persons mentioned in Regulation 57 (2) in proportion to the capacity utilized by such person.



**58. Purchase of Electricity by the Generating station/Start up Power**

- (1) Any person, who establishes, maintains and operates a generating station and normally does not need power from the licensee round the year, i.e. who is not a consumer of the licensee, may purchase electricity from any generating company or a distribution licensee in case his plant is not in a position to generate electricity to meet the its own requirement or for start up and consequently power is required to be drawn from distribution licensee.
- (2) In case of electricity generated from the plant is sold to the State Distribution Licensee, the electricity (in kWh) procured by the Generating Station from the State Distribution Licensee to meet its requirement of startup power, will be adjusted from the electricity sold to the Distribution Licensee. The Distribution Licensee shall make the payment for net energy sold to it by the Generating Company, i.e. difference of the total energy supplied by the Generating Company to the Distribution Licensee and energy supplied by the Distribution Licensee to the Generating Company.
- (3) In case of electricity generated from the plant is sold to third party other than the State Distribution Licensee, then such purchase of electricity by the generating company from the State distribution licensee, shall be charged as per the tariff determined by the Commission for temporary supply under appropriate "Rate Schedule of tariff" for Industrial Consumers considering maximum demand during the month as the contracted demand for that month. The Fixed/Demand charges for that month shall be payable for the number of days during which such supply is drawn. Such Generating Company shall, however, be exempted from payment of monthly minimum charges or monthly minimum consumption guarantee charges or any other charges.

**PART - VI**  
**TARIFF FOR TRANSMISSION**

**59. Applicability**

The Regulations contained in this Part shall apply in determining tariffs for access to and use of the Intra-State Transmission System of a Transmission Licensee pursuant to a Bulk Power Transmission Agreement or other arrangement entered into by a Transmission System User with the Transmission Licensee:

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

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

Provided further that in case of an existing transmission system, the Commission shall determine the tariffs having regard to the historical performance of such transmission system and on the basis of Business Plan and Multi Year Tariff Petition submitted by the Transmission Licensees at the beginning of the Control Period with reasonable opportunities for improvement in performance, if any.

The Commission shall be guided by the terms and conditions contained in this Part in specifying the rates, charges, terms and conditions for use of intervening transmission facilities pursuant to an application made in this regard by a Licensee under the proviso to Section 36 of the Electricity Act, 2003.

**60. Annual Transmission Charges for each financial year of the Control Period**

The Annual Transmission Charges for each financial year of the Control Period shall provide for the recovery of the Aggregate Revenue Requirement of the Transmission Licensee for the respective financial year of the Control Period, as reduced by the amount of non-tariff income, income from Other Business and short-term open access charges, as approved by the Commission and shall be computed in the following manner:—

Aggregate Revenue Requirement, is the sum of:

- (a) Operation and maintenance expenses;
- (b) Lease Charges;
- (c) Interest and Finance Charges on loan capital;
- (d) Return on equity capital;
- (e) Income-tax;
- (f) Depreciation;

- (g) Interest on working capital and deposits from Transmission System Users; and  
Annual Transmission Charges of Transmission Licensee = Aggregate Revenue Requirement, as above;

minus:

- (h) Non-Tariff Income;  
(i) Short-Term Open Access Charges; and  
(j) Income from Other Business to the extent specified in these Regulations:

Provided that in case of competitively awarded transmission system projects in pursuance of Section 63 of the Act and in accordance with guidelines for competitive bidding for transmission, the Annual Transmission Charges shall be as per the Annual Transmission Service Charges (TSC) quoted by such competitively awarded transmission projects.

The Annual Transmission Charges of the Transmission Licensee shall be determined by the Commission on the basis of an application for determination of Aggregate Revenue Requirement or application for adoption of Annual Transmission Charges in case of competitively awarded transmission system project, as the case may be, made by the Transmission Licensee in accordance with Part – II of these Regulations.

#### **61. Capital investment Plan**

- (1) The Transmission Licensee shall file a detailed capital investment plan, financing plan and physical targets for each financial year of the Control Period, as a part of Business Plan, for meeting the requirement of load growth, reduction in transmission losses, improvement in quality of supply, reliability, metering, reduction in congestion, etc. The capital investment plan along with Business Plan should be filed at the beginning of the Control Period, detailing all aspects as specified in Regulation 9 contained in Part – II of these Regulations.
- (2) The investment plan shall be a least cost plan for undertaking investments on strengthening and augmentation of the intra-State transmission system for meeting the requirement of load growth, reduction in transmission losses, improvement in quality of supply, reliability, metering, reduction in congestion, etc.
- (3) The investment plan shall cover all capital expenditure projects to be undertaken by the Transmission Licensee in the MYT Control Period and shall be in such form as may be stipulated by the Commission from time to time.
- (4) Separate prior approval of the Commission shall be required for all capital expenditure schemes of a value exceeding Rs. 2.50 Crore.

**58. Purchase of Electricity by the Generating station/Start up Power**

- (1) Any person, who establishes, maintains and operates a generating station and normally does not need power from the licensee round the year, i.e. who is not a consumer of the licensee, may purchase electricity from any generating company or a distribution licensee in case his plant is not in a position to generate electricity to meet its own requirement or for start up and consequently power is required to be drawn from distribution licensee.
- (2) In case of electricity generated from the plant is sold to the State Distribution Licensee, the electricity (in kWh) procured by the Generating Station from the State Distribution Licensee to meet its requirement of startup power, will be adjusted from the electricity sold to the Distribution Licensee. The Distribution Licensee shall make the payment for net energy sold to it by the Generating Company, i.e. difference of the total energy supplied by the Generating Company to the Distribution Licensee and energy supplied by the Distribution Licensee to the Generating Company.
- (3) In case of electricity generated from the plant is sold to third party other than the State Distribution Licensee, then such purchase of electricity by the generating company from the State distribution licensee, shall be charged as per the tariff determined by the Commission for temporary supply under appropriate "Rate Schedule of tariff" for Industrial Consumers considering maximum demand during the month as the contracted demand for that month. The Fixed/Demand charges for that month shall be payable for the number of days during which such supply is drawn. Such Generating Company shall, however, be exempted from payment of monthly minimum charges or monthly minimum consumption guarantee charges or any other charges.

**64. Norms of Operation**

The norms of operation, subject to modifications thereof from time to time, shall be as under:

i) **Auxiliary Energy Consumption in the sub-station**

The charges for auxiliary energy consumption in the sub-station for the purpose of air-conditioning, lighting, technical consumption, etc. shall be borne by the Transmission Licensee and included in the normative operation and maintenance expenses.

ii) **Target Availability for recovery of full transmission charges**

(a) AC System	: 98%
(b) HVDC bi-pole links	: 92%
(c) HVDC back-to-back stations	: 95%

*Note:*

- (a) *Recovery of fixed charges below the level of target availability shall be on pro-rata basis. At zero availability, no transmission charges shall be payable.*
- (b) *The target availability shall be calculated in accordance with procedure specified in Appendix- IV to these Regulations and shall be certified by Uttarakhand State Load Despatch Centre.*

**65. Operation and maintenance expenses**

(1) **Operation and Maintenance (O&M) expenses shall comprise of the following:-**

- (a) salaries, wages, pension contribution and other employee costs;
- (b) administrative and general expenses including insurance charges if any;
- (c) repairs and maintenance expenses.

(2) **The O&M expenses for the first year of the Control Period will be approved by the Commission taking into account the actual O&M expenses for last five years till Base Year subject to prudence check and any other factors considered appropriate by the Commission.**

(3) **The O&M expenses for the nth year and also for the year immediately preceding the Control Period, i.e. 2012-13, shall be approved based on the formula given below:-**

$$O\&M_n = R\&M_n + EMP_n + A\&G_n$$

Where –

- O&M<sub>n</sub> – Operation and Maintenance expense for the nth year;
- EMP<sub>n</sub> – Employee Costs for the nth year;

- R&M<sub>n</sub> - Repair and Maintenance Costs for the nth year;
- A&G<sub>n</sub> - Administrative and General Costs for the nth year;

(4) The above components shall be computed in the manner specified below:

$$EMP_n = (EMP_{n-1}) \times (1+G_n) \times (CP_{Inflation})$$

$$R\&M_n = K \times (GFA_{n-1}) \times (WP_{Inflation}) \text{ and}$$

$$A\&G_n = (A\&G_{n-1}) \times (WP_{Inflation}) + \text{Provision}$$

Where -

- EMP<sub>n-1</sub> - Employee Costs for the (n-1)th year;
  - A&G<sub>n-1</sub> - Administrative and General Costs for the (n-1)th year;
  - Provision: Cost for initiatives or other one-time expenses as proposed by the Transmission Licensee and approved by the Commission after prudence check.
  - 'K' is a constant specified by the Commission in %. Value of K for each year of the control period shall be determined by the Commission in the MYT Tariff order based on Transmission Licensee's filing, benchmarking of repair and maintenance expenses, approved repair and maintenance expenses vis-à-vis GFA approved by the Commission in past and any other factor considered appropriate by the Commission;
  - CP<sub>Inflation</sub> - is the average increase in the Consumer Price Index (CPI) for immediately preceding three years;
  - WP<sub>Inflation</sub> - is the average increase in the Wholesale Price Index (CPI) for immediately preceding three years;
  - GFA<sub>n-1</sub> - Gross Fixed Asset of the Transmission Licensee for the n-1th year;
  - G<sub>n</sub> is a growth factor for the nth year. Value of G<sub>n</sub> shall be determined by the Commission in the MYT tariff order for meeting the additional manpower requirement based on Transmission Licensee's filings, benchmarking and any other factor that the Commission feels appropriate:
- (5) Provided that repair and maintenance expenses determined shall be utilised towards repair and maintenance works only.

## 66. Non-Tariff Income

- (1) The amount of non-tariff income relating to the Transmission Business as approved by the Commission shall be deducted from the Aggregate Revenue Requirement in determining the Annual Transmission Charges of the Transmission Licensee;

- (2) Provided that the Transmission Licensee shall submit full details of his forecast of non-tariff income to the Commission in such form as may be stipulated by the Commission from time to time.
- (3) The indicative list of various heads to be considered for non tariff income shall be as under:
  - (a) Income from rent on land or buildings;
  - (b) Income from sale of scrap;
  - (c) Income from statutory investments;
  - (d) Interest on delayed or deferred payment on bills;
  - (e) Interest on advances to suppliers/contractors;
  - (f) Rental from staff quarters;
  - (g) Rental from contractors;
  - (h) Income from hire charges from contractors and others;
  - (i) Income from advertisements, etc.;
  - (j) Miscellaneous receipts;
  - (k) Excess found on physical verification;
  - (l) Interest on investments, fixed and call deposits and bank balances;
  - (m) Prior period income.

Provided that the interest earned from investments made out of Return on Equity corresponding to the regulated business of the Transmission Licensee shall not be included in Non-Tariff Income.

#### **67. Income from Other Business**

Where the Transmission Licensee is engaged in any Other Business under Section 41 of the Act, an amount equal to one-third of the revenues from such Other Business after deduction of all direct and indirect costs attributed to such Other Business shall be deducted from the Aggregate Revenue Requirement in calculating the Annual Transmission Charges of the Transmission Licensee:

Provided that the Transmission Licensee shall follow a reasonable basis for allocation of all joint and common costs between the Transmission Business and the Other Business and shall submit the Allocation Statement, duly audited and certified by the Statutory Auditor, to the Commission along with his application for determination of tariff:

Provided further that where the sum total of the direct and indirect costs of such Other Business exceed the revenues from such Other Business for whatever reasons, no amount shall be allowed to be added to the Aggregate Revenue Requirement of the Transmission Licensee on account of such Other Business.

#### 68. Computation and Payment of Transmission Charge

- (1) The Annual Transmission Charges for the Transmission Licensee shall be determined, based on the norms as specified in these Regulations and recovered on monthly basis as transmission charge from the users who shall share the Transmission Charge in proportion of the allotted transmission capacity;

Provided that the charges payable by the Transmission System Users may also take into consideration factors such as voltage, distance, direction, quantum of flow and time of use, as may be specified by the Commission in its order.

- (2) The transmission charge (inclusive of incentive) payable for a calendar month for a transmission system or part thereof shall be computed in accordance with the following equation:

$$ATC \times [NDM/NDY] \times [TAFM/NATAF]$$

Where

- ATC = Annual transmission charges specified for the year, in Rupees
  - NATAF = Normative annual transmission availability factor, in per cent
  - NDM = Number of days in the month
  - NDY = Number of days in the year
  - TAFM = Transmission system availability factor for the month, in Percent, computed in accordance with Appendix IV
- (3) The monthly Transmission Tariff as determined by the Commission as per Regulation 68 (2) above shall be shared by all long-term and medium-term open access customers on monthly basis (including existing Distribution Licensees) in the ratio of their allotted capacities.
  - (4) The transmission licensee shall raise the bill for the transmission charge (inclusive of incentive) for a month based on its estimate of TAFM. Adjustments, if any, shall be made on the basis of the TAFM to be certified by the SLDC within 30 days from the last day of the relevant month.



**69. Open Access Transactions**

All the matters related to Open Access Transactions shall be dealt in accordance with Uttarakhand Electricity Regulatory Commission (Terms and Conditions for Intra-State Open Access) Regulations, 2010 as applicable and as amended from time to time.

**70. Transmission losses**

The energy losses in the transmission system of the Transmission Licensee, as determined by the State Load Despatch Centre and approved by the Commission, shall be borne by the Transmission System Users pro-rata to their usage of the intra-State transmission system:

Provided that the Commission may stipulate a trajectory for reduction of transmission losses in accordance with Regulation 10, as a part of Multi Year Tariff framework applicable to the Transmission Licensee.

**PART – VII**  
**TARIFF FOR DISTRIBUTION RETAIL SUPPLY**

**71. Applicability**

These Regulations shall apply for determination of tariff for retail sale of electricity by a Distribution Licensee to its consumers:

Provided that Wheeling charges payable to Distribution Licensee, by an open access customer for usage of its system shall be determined in accordance with Uttarakhand Electricity Regulatory Commission (Terms and Conditions for Intra-State Open Access) Regulations, 2010 as applicable and as amended from time to time:

Provided however, that any open access consumer who is directly connected to a transmission system shall not be required to pay any wheeling tariff.

**72. Aggregate Revenue Requirement for each Financial Year of the Control Period**

- (1) The total annual expenses and return on equity of the Distribution Licensee for each financial year of the Control Period shall be worked out on the basis of expenses and return allowed in terms of these Regulations.
- (2) The retail supply tariff of a Distribution Licensee for each financial year of the Control Period shall provide for recovery of the Aggregate Revenue Requirement of the Distribution Licensee for each financial year of the Control Period, as reduced by the amount of non-tariff income, income from wheeling in respect of open access customers, income from Other Business and receipts on account of cross-subsidy surcharge and additional surcharge for the relevant financial year, as approved by the Commission, and subsidy from the State Government for that financial year, if any, and shall comprise the following:--
  - (a) Cost of power purchase;
  - (b) Transmission charges;
  - (c) System Operation Charges i.e. Fee and Charges paid to NLDC/RLDC/SLDC;
  - (d) Interest on loan capital and on consumer security deposit;
  - (e) Depreciation, including and amortisation of intangible assets;
  - (f) Lease Charges;
  - (g) Operation and Maintenance expenses;
  - (h) Interest on working capital; and
  - (i) Return on equity capital;
  - (j) Income-tax.

- (3) Net Revenue Requirement from sale of electricity = Aggregate Revenue Requirement, as above, minus:
- (a) Non-tariff income;
  - (b) Income from wheeling charges recovered from open access customers;
  - (c) Income from Other Business, to the extent specified in these Regulations;
  - (d) Receipts on account of cross-subsidy surcharge from open access consumers; and
  - (e) Receipts on account of additional surcharge on charges of wheeling from open access consumers;
  - (f) Any revenue subsidy or grant received from the State Government other than the subsidy under Section 65 of the Electricity Act, 2003.

### **73. Business Plan**

- (1) Each Distribution Licensee shall submit a Business Plan by May 31, 2012, for the Control Period of three (3) financial years from April 1, 2013 to March 31, 2016 with full details as stipulated by the Commission from time to time and in the manner specified in Regulation 9 contained in Part II of these Regulations.
- (2) The Business Plan shall comprise among other details capital investment plan, financing plan and physical targets in accordance with guidelines and formats, as may be stipulated by the Commission from time to time.

### **74. Capital Investment Plan**

- (1) The Distribution Licensee shall file a detailed capital investment plan, financing plan and physical targets for each financial year of the Control Period, for meeting the requirement of load growth, reduction in distribution losses, improvement in quality of supply, reliability, metering, consumer services, etc., to the Commission for approval as a part of Business Plan. The capital investment plan should be filed at the beginning of the Control Period.
- (2) The investment plan shall be a least cost plan for undertaking investments on strengthening and augmentation of the distribution system for meeting the requirement of load growth, reduction in distribution losses, improvement in quality of supply, reliability, metering, etc.
- (3) The investment plan shall cover all capital expenditure projects to be undertaken by the Distribution Licensee in the Control Period and shall be in such form as may be stipulated by the Commission from time to time.

- (4) The prior approval of the Commission shall be required for all capital expenditure schemes of a value exceeding Rs 2.50 Crore.
- (5) The investment plan shall be accompanied by such information, particulars and documents as may be required showing the need for the proposed investments, alternatives considered, cost/benefit analysis and other aspects that may have a bearing on the wheeling tariff and retail tariffs. The investment plan shall also include capitalisation schedule and financing plan.
- (6) The Distribution Licensee shall submit, along with the MYT Petition or along with the application for Annual Performance Review, details showing the progress of capital expenditure projects, together with such other information, particulars or documents as the Commission may require for assessing such progress.
- (7) The Commission shall consider and approve the Distribution Licensee's capital investment plan, with modifications as required. The costs corresponding to the approved investment plan of the Distribution Licensee for a given year shall be considered for its revenue requirement.

**75. Petition for determination of Distribution Retail Supply Tariff**

- (1) A Distribution Licensee shall make a petition for determination of retail tariff complying with the provisions of Part II of these Regulations.
- (2) A tariff petition filed by the Distribution Licensee for determination of tariff for the ensuing year shall contain data for the base year, actual and estimated data for the present year, and forecasts and targets for all the years of the Control Period based on the Distribution Licensee's business plan and principles contained in these Regulations.
- (3) The Commission shall determine Aggregate Revenue Requirement of a Distribution Licensee on MYT principles as laid down in these Regulations, for the Control Period specified under these Regulations.

**76. Sales Forecast**

- (1) Considering the importance of capturing seasonal variation, Monthly Sales Forecast for the Control Period shall be done in respect of each consumer category/sub-category and to each tariff slab within such consumer category/sub-category, based on the past trends, as far as

possible and shall be submitted to the Commission for approval along with the Business Plan. Suitable adjustments shall be made to reflect the effect of known and measurable changes with respect to number of consumers, the connected load and the energy consumption, thereby removing any abnormality in the past data:

Provided that where the Commission has stipulated a methodology for forecasting sales to any particular tariff category, the Distribution Licensee shall incorporate such methodology in developing the sales forecast for such tariff category.

- (2) Sales forecast for un-metered consumers shall be validated with norms as may be approved by the Commission from time to time.
- (3) The sales forecast shall be consistent with the load forecast prepared as part of the long-term power procurement plan submitted as a part of Business Plan under these Regulations and shall be based on past data and reasonable assumptions regarding the future.
- (4) The Commission shall examine the forecasts for reasonableness based on growth in number of consumers, the connected load and the energy consumption in previous years and anticipated growth in the next year and any other factor, which the Commission may consider relevant and approve sale of electricity to consumers with such modifications as deemed fit.

#### **77. Monitoring of sale of electricity to consumers**

- (1) On the basis of approved sales forecast, the Distribution Licensee shall work out requirement of monthly sales to different consumer categories, taking into account seasonal variations in demand during the year.
- (2) The Distribution Licensee shall monitor the sales to different consumer categories and ensure that sale to any category of consumer is not unduly restricted.
- (3) The Distribution Licensee shall submit monthly reports to the Commission regarding sale of electricity to different consumer categories.

#### **78. Distribution losses**

- (1) Energy loss in the distribution system shall be called Distribution Loss.
- (2) Distribution Loss above and up to a particular voltage level shall be calculated as the difference between the energy initially injected into the distribution system and the sum of

energy sold up to that level and energy delivered to next voltage level. Energy sold shall be the sum of metered sales and assessment of un-metered sales based on approved norms.

% Distribution Loss above and up to a particular voltage level shall be expressed in terms of Distribution Loss up to that level as a percentage of the energy initially injected into the distribution system.

- (3) The Commission may require information on Circle-wise/Division-wise and/or month-wise Distribution loss calculation.
- (4) To substantiate the Distribution Loss calculations, the Commission may require the Distribution Licensee to conduct proper and reliable energy audit.
- (5) The Distribution Licensee shall also propose voltage-wise losses for each year of the control period for the determination of voltage-wise cost of supply. The Commission shall examine the filings made by the licensee for the distribution loss trajectory for each year of the control period and approve the same with modification as it may consider necessary.
- (6) The Commission may ask Distribution Licensee to submit detailed information on voltage-wise Distribution Losses segregating them into Technical loss (i.e., Ohmic/Core loss in the lines, substations and equipment) and Commercial Loss (i.e., unaccounted energy due to metering inaccuracies/inadequacies, pilferage of energy, etc.). The Commission shall examine the filings made by the Distribution Licensee in respect of distribution loss (segregated into technical loss and commercial loss) and approve the same with modification, as it may consider necessary.
- (7) The Commission may fix targets, both long term and short term, for each year of control period for loss reduction to bring down the Distribution loss levels (both technical and commercial) gradually to acceptable norms of efficiency based on the information submitted by the Distribution Licensee.

#### **79. Availability of Power**

- (1) For the tariff year, monthly availability of power shall be ascertained on the basis of the following:--
  - i. From Central/State Sector Generating Stations
    - (a) Distribution Licensee's share in the allocated and unallocated capacity in the Central/State Sector Generating Stations;

- (b) Likely availability of energy from each generating station based on projections given by the generators and the historical data of supply from the generators; or
  - (c) The PLF/Generation targets for the Station fixed by Central Electricity Authority; or
  - (d) The historical performance of the Station adjusted for any planned maintenance or shut-downs.
- ii. From other sources:
- (a) Distribution Licensee's banking arrangement with any other Distribution Licensee, Board or Trading Licensee;
  - (b) Distribution Licensee's agreement with any other Distribution Licensee, Board, Generating Company or Trading Licensee regarding purchase of power.

**80. Estimate of power purchase requirement**

- (1) The Distribution Licensee shall prepare a long term plan for procurement of power to serve the demand for electricity in its area of supply and submit such plan to the Commission for approval along with the Business Plan Petition / MYT Petition. The long-term procurement plan should be prepared considering the:
  - (a) Quantitative forecast of the unrestricted demand for electricity, within the area of supply, from each tariff category over the Control Period;
  - (b) An estimate of the quantities of electricity supply from the approved sources of generation and power purchase;
  - (c) Measures proposed to be implemented as regards energy conservation and energy efficiency;
  - (d) Minimum share of renewable energy percentage;
  - (e) Requirement for new sources of power generation and/or procurement;
  - (f) Approved level of transmission and distribution losses.
- (2) Any variation, during any quarter of a financial year, in the quantum or cost of power procured and any procurement from sources other than that mentioned in the power procurement plan approved by the Commission, in excess of Five (5) percent of the quantum or cost, as the case may be, of power procurement for such quarter, as approved by the Commission in the power procurement plan of the Distribution Licensee, shall be done only with the prior approval of the Commission:

(3) Where there has been a shortfall or failure in the supply of electricity from any approved source of supply during the financial year, the Distribution Licensee may enter into a short-term arrangement or agreement for procurement of power without the prior approval of the Commission, where the tariff for power procured under such arrangement or agreement is determined in accordance with:

- (a) A transparent process of bidding in accordance with competitive bidding guidelines issued by the Central Government;
- (b) When the tariff of such generating station has been approved by the Appropriate Commission;
- (c) When the Commission has specified the minimum and maximum ceiling price for power procurement under any contingency situation and power purchase price is within that band;
- (d) When the Distribution Licensee has identified a new short-term source of supply from which power can be procured at a tariff that reduces his approved total power procurement cost. Such new sources shall include power procurement from Trading Licensees as well as power procurement through other trading platforms such as power exchange;
- (e) Procurement by way of 'banking' transactions;
- (f) When faced with emergency conditions that threaten the stability of the distribution system or when directed to do so by the State Load Despatch Centre to prevent grid failure:

Provided that in such cases, the Distribution Licensee shall obtain post facto approval from the Commission within 15 days of such power procurement for which prior approval was not taken.

- (4) For purchase of electricity from sources outside the State, the transmission loss level agreed to in PPA or worked out from energy accounts of RLDC/SLDC whichever is less shall be accepted.
- (5) The Commission shall scrutinize and approve the power purchase requirement with such modifications as deemed fit for the ensuing year and for the tariff period under consideration.



**81. Power Purchase Cost**

- (1) The power purchase/banking/trading agreements as approved by the Commission shall be considered to determine the power purchase cost of the distribution licensee.
- (2) For the Control Period, the Distribution Licensee's requirement of power purchase for sale to its consumers shall be estimated based on the sales forecast, the transmission loss and target distribution loss level for the Control Period.
- (3) For the Control Period, the cost of electricity procured from State Generating Stations shall be determined based on tariffs approved by the Commission for purchase of electricity from such generating Station and that of electricity procured from Central Sector Generating Station shall be determined based on tariffs approved by the Central Electricity Regulatory Commission's for such Generating Stations. The cost of energy from other sources shall be as per the power purchase/banking/trading agreements as may be approved by the Commission.
- (4) For different years under the Control Period, the power purchase cost of Distribution Licensee's shall be estimated on the basis of merit order principle. All power purchase costs will be considered legitimate unless it is established that the merit order principle has been materially violated or power has been purchased at unreasonable rates.
- (5) For determining the total power purchase cost of the Distribution Licensee for different years of the control period the Commission shall also consider the renewable purchase obligation of the Distribution Licensee and the tariffs determined by the Commission for different types of renewable sources under relevant regulations/orders.
- (6) While the inter-state transmission charges shall be estimated as per orders of the Central Electricity Regulatory Commission, the intra-state transmission charges shall be estimated in accordance with the transmission tariffs approved by the Commission, from time to time. Further, load despatch charges payable to System Operators (National load Despatch Centre, Regional Load Despatch Centre, State Load Despatch Centre etc.) for availing load despatch services shall be estimated in accordance with the Fee & Charges approved by the Appropriate Commission, from time to time,. SLDC charges paid for energy sold outside the State shall not be considered as expenses for determining tariff.

**82. Variation in Power Purchase**

Any power purchased by Distribution Licensee over and above the requirement of power approved by the Commission or variation in the mix of power purchased in any year shall be considered by the Commission if it is for reasons beyond the reasonable control of the Distribution Licensee and the resultant financial loss or gain shall be adjusted in next years' tariff.

**83. Fuel Charge Adjustment (FCA)**

- (1) The FCA charge shall be applicable on the entire sale of the Distribution Licensee without any exemption to any consumer.
- (2) The FCA charge shall be computed and charged on the basis of actual variation in fuel costs relating to power generated from own generation stations and power procured during any month subsequent to such costs being incurred, in accordance with these Regulations, and shall not be computed on the basis of estimated or expected variations in fuel costs.
- (3) The FCA charge for the quarter shall be computed within 15 days of quarter end and shall be charged for the quarter from the first month of second quarter itself, without prior approval of the Commission and under or over recovery shall be carried forward to the next quarter.
- (4) The Distribution Licensee shall submit the details of incremental fuel cost incurred and to be charged to all the consumers for the entire quarter, along with the detailed computations and supporting documents as may be required for verification by the Commission within 30 days of the end of quarter for post facto approval of the Commission.
- (5) The Commission shall examine the FCA computations and approve the same with modifications, if required before the end of second quarter. Any variation in FCA charged by the Distribution Licensee and FCA approved by the Commission will be adjusted in subsequent quarter's FCA computations.
- (6) In case the Distribution Licensee is found guilty of charging unjustified FCA charge to the consumers on regular basis, the Commission shall adjust the unjustified charges along with interest on the same.
- (7) The Distribution Licensee shall upgrade the billing and IT systems to incorporate FCA charge as a component in tariff design.
- (8) The formula for calculation of the FCA shall be as given under:

$$\text{FCA (Rs. Crore)} = C + B,$$

Where

FCA = Fuel Cost Adjustment

C = Change in cost of own generation and power purchase due to the variation in the fuel cost,

B = Adjustment factor for over-recovery / under-recovery for previous quarter

$$C \text{ (Rs. Crores)} = A_{\text{FC,Gen}} + A_{\text{FC,PP}},$$

Where:

$A_{\text{FC,Gen}}$  : Change in fuel cost of own generation. This would be computed based on the norms and directives of the Commission, including heat rate, auxiliary consumption, generation and power purchase mix, etc.

$A_{\text{FC,PP}}$  : Change in energy charges of power procured from other sources. This change would be allowed to the extent it satisfies the criteria prescribed in these Regulations and the prevailing tariff order, and subject to applicable norms.

- (9) The FCA charge for any category shall not exceed 10% of the base energy charge for respective category, or such other ceiling as may be stipulated by the Commission from time to time:

Provided that any excess in the FCA charge over the above ceiling shall be carried forward by the Distribution Licensee and shall be recovered over such future period as may be directed by the Commission.

- (10) Calculation of FCA charge shall be as per the following formula:

$$\text{Average FCA Charge (Rs/kWh)} = (\text{FCA} / (\text{Metered sales} + \text{Unmetered consumption estimates} + \text{Excess distribution losses})) * 10$$

$$\text{Excess distribution loss} = \text{Energy Input} - \text{Energy Sales} - (\text{distribution loss \% as specified by the Commission} * \text{Energy input})$$

- (11) Category wise FCA Charge (Rs/kWh) shall be calculated as per the following formula:

$$\text{Average Billing Rate (ABR) of Consumer Category (in Rs/kWh) as approved in Tariff Order for the year} / \text{Average Billing Rate (ABR) of Distribution Licensee (in Rs/kWh) as approved in Tariff Order for the year} \times \text{Average FCA (in Rs/kWh)}.$$

**84. Operation and Maintenance Expenses**

(1) Operation and Maintenance (O&M) expenses shall comprise of the following:-

- (a) Salaries, wages, pension contribution and other employee costs;
- (b) Administrative and general expenses including insurance charges if any;
- (c) Repairs and maintenance expenses;

(2) The O&M expenses for the first year of the Control Period shall be approved by the Commission taking into account the actual O&M expenses for last five years till Base Year subject to prudence check and any other factors considered appropriate by the Commission.

(3) The O&M expenses for the nth year and also for the year immediately preceding the Control Period, i.e. 2012-13, shall be approved based on the formula given below:-

$$O\&M_n = R\&M_n + EMP_n + A\&G_n$$

Where -

- O&M<sub>n</sub> - Operation and Maintenance expense for the nth year;
- EMP<sub>n</sub> - Employee Costs for the nth year;
- R&M<sub>n</sub> - Repair and Maintenance Costs for the nth year;
- A&G<sub>n</sub> - Administrative and General Costs for the nth year.

(4) The above components shall be computed in the manner specified below:-

$$EMP_n = (EMP_{n-1}) \times (1+G_n) \times (CP_{Inflation})$$

$$R\&M_n = K \times (GFA_{n-1}) \times (WP_{Inflation}) \text{ and}$$

$$A\&G_n = (A\&G_{n-1}) \times (WP_{Inflation}) + \text{Provision}$$

Where -

- EMP<sub>n-1</sub> - Employee Costs for the (n-1)th year;
- A&G<sub>n-1</sub> - Administrative and General Costs for the (n-1)th year;
- Provision: Cost for initiatives or other one-time expenses as proposed by the

Distribution Licensee and validated by the Commission.

- 'K' is a constant specified by the Commission in %. Value of K for each year of the control period shall be determined by the Commission in the MYT Tariff order based on licensee's filing, benchmarking of repair and maintenance expenses, approved repair and maintenance expenses vis-à-vis GFA approved by the Commission in past and any other factor considered appropriate by the Commission;

- $CP_{Inflation}$  - is the average increase in the Consumer Price Index (CPI) for immediately preceding three years;
- $WP_{Inflation}$  - is the average increase in the Wholesale Price Index (CPI) for immediately preceding three years;
- $GFA_{n-1}$  - Gross Fixed Asset of the transmission licensee for the n-1th year;
- $G_n$  is a growth factor for the nth year. Value of  $G_n$  shall be determined by the Commission in the MYT tariff order for meeting the additional manpower requirement based on licensee's filings, benchmarking, and any other factor that the Commission feels appropriate:

Provided that repair and maintenance expenses determined shall be utilised towards repair and maintenance works only.

#### **85. Interest on Consumer security deposits**

Interest on Consumer security deposits shall be at the rate as may be decided by the Commission from time to time.

#### **86. Non-Tariff Income**

The amount of non-tariff income relating to the Distribution Business and/or the Retail Supply Business as approved by the Commission shall be deducted from the Aggregate Revenue Requirement in calculating the revenue requirement from retail sale of electricity of the Distribution Licensee:

Provided that the Distribution Licensee shall submit full details of his forecast of non-tariff income to the Commission along with his application for determination of tariff.

The indicative list of various heads to be considered for Non-Tariff Income shall be as under:

- (a) Income from rent of land or buildings;
- (b) Income from sale of scrap;
- (c) Income from statutory investments;
- (d) Interest on delayed or deferred payment on bills;
- (e) Interest on advances to suppliers/contractors;

- (f) Rental from staff quarters;
- (g) Rental from contractors;
- (h) Income from hire charges from contactors and others;
- (i) Income from advertisements, etc.;
- (j) Miscellaneous receipts;
- (k) Interest on advances to suppliers;
- (l) Excess found on physical verification;
- (m) Prior period income.

**87. Income from Wheeling Charges**

The amount of any income from Wheeling Charges, as approved by the Commission, in accordance with the UERC (Terms & Conditions of Intra-State Open Access) Regulations, 2010, as amended from time to time, shall be deducted from the Aggregate Revenue Requirement in calculating the revenue requirement from retail sale of electricity of the Distribution Licensee.

**88. Income from Other Business**

Where the Distribution Licensee has engaged in any Other Business, an amount equal to one-third of the revenues from such Other Business after deduction of all direct and indirect costs attributed to such Other Business shall be deducted from the Aggregate Revenue Requirement in calculating the revenue requirement from retail sale of electricity of the Distribution Licensee:

Provided that the Distribution Licensee shall follow a reasonable basis for allocation of all joint and common costs between the Distribution Business and the Other Business and shall submit the Allocation Statement, duly audited and certified by statutory auditors, to the Commission along with his application for determination of tariff:

Provided further that once the Commission notifies the Regulations for submission of Regulatory Accounts, the applications for tariff determination and truing up shall be based on the Regulatory Accounts:

Provided further that where the sum total of the direct and indirect costs of such Other Business exceed the revenues from such Other Business or for any other reason, no amount shall be allowed to be added to the Aggregate Revenue Requirement of the Distribution Licensee on account of such Other Business.

**89. Receipts on account of cross-subsidy surcharge and additional surcharge**

- (1) The amount received by the Distribution Licensee by way of cross-subsidy surcharge, as approved by the Commission in accordance with the UERC (Terms & Conditions of Intra-State Open Access) Regulations, 2010, as amended from time to time, shall be deducted from the Aggregate Revenue Requirement in calculating the revenue requirement from retail sale of electricity of such Distribution Licensee.
- (2) The amount received by the Distribution Licensee by way of additional surcharge, from consumers of such Distribution Licensee who have chosen to receive supply of electricity from a Generating Company or Licensee other than such Distribution Licensee, as approved by the Commission in accordance with the UERC (Terms & Conditions of Intra-State Open Access) Regulations, 2010, as amended from time to time, shall be deducted from the Aggregate Revenue Requirement in calculating the revenue requirement from retail sale of electricity of such Distribution Licensee.

**90. State Government Subsidy**

- (1) In case the State Government declares subsidy under Section 65 of Electricity Act, 2003 for certain categories of consumers in advance or during tariff filing proceedings, the Commission shall notify two tariff schedules, one with subsidy and other without subsidy.
- (2) In case the State Government declares subsidy for certain categories of consumers after notification of Tariff Order, the Licensee shall incorporate the same in the tariff and submit the revised Tariff Schedule for approval of the Commission:

Provided that the Government's subsidy provided for or declared shall be supported by documentary evidence of time schedule of payment, mode of payment of the subsidy and categorization of the subsidy amount into subsidized categories.

- (3) In case of non-disbursement or delayed disbursement of subsidy by the Government, the Licensee shall charge the consumers as per the tariff schedule which is approved by the Commission without Government Subsidy.

**91. Revenue at existing Tariff**

- (1) Revenue from supply of electricity to consumers shall be assessed based on current tariff applicable to different category of consumers and the quantity of electricity estimated to be sold to them.
- (2) For the tariff year, the difference between the Net ARR and the Forecasted Revenue at prevailing tariff shall be called the Revenue Gap.
- (3) The revenue gap shall be bridged by measures such as improvements in efficiency, utilisation of reserves, tariff changes, etc. as may be approved by the Commission.

**92. Cost of Supply**

The tariffs for various categories/voltages shall be benchmarked with and shall progressively reflect the cost of supply based on costs that are prudently incurred by the Distribution Licensee in its operations. The category-wise/voltage-wise cost to supply may factor in such characteristics as the load factor, voltage, extent of technical and commercial losses etc. The consumers availing electricity at higher voltage shall be entitled to receive suitable rebate, as stipulated by the Commission. However, pending the availability of information that reasonably establishes the category wise/ voltage-wise cost to supply, average cost of supply shall be used as the benchmark for determining tariffs.

**93. Determination of Retail Supply Tariff**

- (1) While determining tariff for retail supply of electricity, the Commission shall be guided by the provisions of Section 61 and 62 of the Act.
- (2) The Commission, shall not, while determining the tariff, show undue preference to any consumer of electricity but may differentiate according to consumer's load factor, voltage, total consumption of electricity during any specified period or time at which the supply is required or the geographical position of any area, the nature of supply and the purpose for which the supply is required.
- (3) The Distribution Licensee in the tariff petition shall propose the suitable tariff structure for different category of consumers. The Distribution Licensee may further propose kVAh/ToD based tariffs for categories considered appropriate by it for such implementation.



- (4) The Commission may merge categories and sub categories to evolve a simple, easy to comprehend and logical tariff structure.

**94. Performance of Distribution Licensee**

- (1) The quality of service provided by the Distribution Licensee to its consumers shall be an important consideration and shall be judged by the extent of adherence by the Distribution Licensee to the standards of performance laid down by the Commission.
- (2) The Commission may by a separate order, lay down long term targets for technical improvement of the distribution system like supply availability, wires availability, reduction in transformer failure rate, reduction in voltage imbalance, reduction in non-working/defective meters, etc.

**PART - VIII**  
**SLDC CHARGES**

**95. Applicability**

Regulations in this part shall apply to the users of intra-State transmission system (i.e. Generating Companies, Licensees (i.e. Transmission, Distribution & Trading Companies) and Open Access Customers), who are monitored/serviced by the State Load Despatch Centre (SLDC) and utilized for determination of Fees and Charges to be collected by the SLDC.

**96. Application for Registration with SLDC**

- (1) Each of the users of intra-State transmission system, which come under the purview of SLDC, shall register themselves with the SLDC, within a month of coming into force of these Regulations, by filing an application to the SLDC along with the fee of Rs 10,000 (Rupees Ten Thousand only) or such amended fees as may be decided by the Commission from time to time.
- (2) The new users of intra-State transmission system coming under the purview of SLDC, shall submit an application to the SLDC, at least one month before the proposed date of connection to the Intra-State transmission system, along with the above-mentioned Fee.
- (3) After being satisfied with the completeness and correctness of the information furnished in the application, the SLDC, shall register the application in its records and duly intimate the applicant regarding such registration.
- (4) The SLDC shall maintain consolidated information about all the users connected to the Intra-State transmission system and being monitored / serviced by it, on a separate web-page on their web-site.

**97. Petition for determination of SLDC Charges**

- (1) The SLDC shall provide to the Commission, full details of its calculations of its Aggregate Revenue Requirement for the ensuing financial year, not later than four months before the commencement of the said ensuing Year.

- (2) The total annual expenses and return on equity of the SLDC for each financial year of the Control Period shall be worked out on the basis of expenses and return allowed in terms of these Regulations.
- (3) The SLDC shall also file the proposed allocation of charges to all the users of intra State Transmission System being monitored and serviced by it in line with these Regulations. SLDC shall further forward a copy of its petition for determination of Aggregate Revenue Requirement along with the proposal for allocation of charges to all the users of intra State Transmission System being monitored and serviced by it.
- (4) The SLDC shall provide the details of calculation of the expenses and other related information in the formats as specified by the Commission from time to time.
- (5) The SLDC shall also furnish the details of capital investment plan for the control period. For capital investment schemes costing above Rupees Two Crore Fifty Lakhs, approval of the Commission shall be obtained in respect of each of such schemes prior to commencement of works.
- (6) The Aggregate Revenue Requirement and other details filed by the SLDC shall be scrutinised and as a result of such scrutiny, the Commission may call for such further information and clarification as may be required.
- (7) Based on the information furnished by SLDC and after due examination, scrutiny and consultation process, the Commission will approve the Aggregate Revenue Requirement covering the expenses of the SLDC and determine the SLDC Charges.
- (8) In the event of non-revision of SLDC charges during any year, any variation (shortfall or excess) in recovery of SLDC charges shall be carried forward to the next financial year and adjusted as may be decided by the Commission.
- (9) The SLDC shall submit periodic returns containing operational and cost data, as may be prescribed by the Commission.
- (10) All filings and application for determination of SLDC Charges shall be made in conformity with the stipulations made in these Regulations.

#### **98. Levy of SLDC Charges**

All expenses incurred by the SLDC, established by the State Government under Section 31 of the Act, shall be accounted for separately:

Provided that if on the date of publication of these Regulations, the State Transmission Utility (STU) is operating the State Load Despatch Centre and performing the functions under the Act, as provided under sub-clause (2) of Section 31 of the Act, the STU shall maintain separate accounts for expenses related to operation of the State Load Despatch Centre:

Provided further that till such time the accounts are not segregated, the STU shall apportion its costs on the basis of an Allocation Statement to be submitted to the Commission with all relevant details.

### **99. Annual SLDC Charges**

The annual charges to be recovered by the SLDC shall include the component of Return on Equity and also the following expenses:—

- (a) O&M expenses;
- (b) Return on Equity;
- (c) Depreciation;
- (d) Lease Charges;
- (e) Interest and Finance charges;
- (f) Income Tax, if any;
- (g) Interest on working capital, if any;
- (h) Any other expenses incidental to discharging the functions of SLDC as deemed appropriate by the Commission; minus
- (i) Non-tariff income including but not limited to interest on investment, fees/ charges other than SLDC charges, Income from sale of scrap, etc.

### **100. Operation and Maintenance Expenses**

(1) Operation and Maintenance (O&M) expenses shall comprise of the following:-

- (a) Salaries, wages, pension contribution and other employee costs;
- (b) Administrative and general expenses including insurance charges if any;
- (c) Repairs and maintenance expenses;

- (2) The O&M expenses for the first year of the Control Period will be approved by the Commission taking into account actual O&M expenses of the previous years and any other factors considered appropriate by the Commission.
- (3) The O&M expenses for the nth year and also for the year immediately preceding the Control Period, i.e. 2012-13, shall be approved based on the formula given below:-

$$O\&M_n = R\&M_n + EMP_n + A\&G_n$$

Where -

- O&M<sub>n</sub> - Operation and Maintenance expense for the nth year;
- EMP<sub>n</sub> - Employee Costs for the nth year;
- R&M<sub>n</sub> - Repair and Maintenance Costs for the nth year;
- A&G<sub>n</sub> - Administrative and General Costs for the nth year.

- (4) The above components shall be computed in the manner specified below:

$$EMP_n = (EMP_{n-1}) \times (1 + G_n) \times (CP_{inflation})$$

$$R\&M_n = K \times (GFA_{n-1}) \times (WP_{inflation}) \text{ and}$$

$$A\&G_n = (A\&G_{n-1}) \times (WP_{inflation}) + \text{Provision}$$

Where -

- EMP<sub>n-1</sub> - Employee Costs for the (n-1)th year;
- A&G<sub>n-1</sub> - Administrative and General Costs for the (n-1)th year;
- Provision: Cost for initiatives or other one-time expenses as proposed by the SLDC and validated by the Commission.
- 'K' is a constant specified by the Commission in %. Value of K for each year of the control period shall be determined by the Commission in the MYT Tariff order based on SLDC's filing, benchmarking of repair and maintenance expenses, approved repair and maintenance expenses vis-à-vis GFA approved by the Commission in past and any other factor considered appropriate by the Commission;
- CP<sub>inflation</sub> - is the average increase in the Consumer Price Index (CPI) for immediately preceding three years;

- $WP_{\text{Inflation}}$  - is the average increase in the Wholesale Price Index (CPI) for immediately preceding three years;
- $GFA_{n-1}$  - Gross Fixed Asset of the transmission licensee for the n-1th year;
- $G_n$  is a growth factor for the nth year. Value of  $G_n$  shall be determined by the Commission in the MYT tariff order for meeting the additional manpower requirement based on SLDC's filings, benchmarking, and any other factor that the Commission feels appropriate:

Provided that repair and maintenance expenses determined shall be utilised towards repair and maintenance works only.

#### **101. Basis for collection of SLDC charges**

- (1) The annual SLDC charges as determined by the Commission shall be allocated between the Beneficiaries using the intra-State transmission system on the basis of contracted transmission capacity:

Provided further that SLDC shall be entitled to levy and collect fee and charges for any other services rendered to the users and power exchanges as specified in any other regulations.

- (2) The Short-term open access customers using the intra-State transmission system shall however pay only such scheduling charges to the SLDC as may be specified by the Commission.

#### **102. Billing of SLDC Charges:**

- (1) The SLDC shall furnish necessary monthly bills at the rate of one twelfth of the annual charges as approved by the Commission, to the users of intra State Transmission System being monitored and serviced by it for each billing month within seven days after the last day of the preceding month:

Provided that for the purpose of billing and collection of the prescribed charges, a fraction of a MW shall be treated as one full MW.

- (2) The Beneficiaries shall make payment to the SLDC of the amounts due within one month of the date of receipt of the bill.

- (3) Disputes arising out of billing of SLDC charges shall be, as far as possible, settled by mutual negotiations. If the disputes are not resolved through mutual negotiations within sixty (60) days of the receipt of the bills, the matter shall be referred to the Commission through a petition by either of the parties. The decision of the Commission shall be final and binding on all the parties.
- (4) Pending resolution of the dispute, 90% of the bill amount shall be paid under protest within the due date.

## PART IX MISCELLANEOUS

### 103.Savings

- (1) Nothing in these Regulations shall be deemed to limit or otherwise affect the power of the Commission to make such orders as may be necessary to meet the ends of justice.
- (2) Nothing in these Regulations shall bar the Commission from adopting in conformity with provisions of the Act, a procedure which is at variance with any of the provisions of these Regulations, if the Commission, in view of the special circumstances of a matter or a class of matters, deems it just or expedient for deciding such matter or class of matters.
- (3) Nothing in these Regulations shall, expressly or implied, bar the Commission dealing with any matter or exercising any power under the Act for which no Regulations have been framed, and the Commission may deal with such matters, powers and functions in a manner, as it considers just and appropriate.

#### **104.Powers to Remove Difficulties**

If any difficulty arises in giving effect to any of the provisions of these Regulations, the Commission may by general or special order give directions, not being inconsistent with the Act, which appears to the Commission to be necessary or expedient for the purpose of removing difficulties.

#### **105.Power to Amend**

The Commission may, at any time add, vary, alter, modify or amend any provision of these Regulations.



**Appendix, - I**

**Timeline for completion of Projects**

[Refer to first proviso to Regulation 27(2)]

- (1) The completion time schedule shall be reckoned from the date of investment approval by the Board (of the generating company or the transmission licensee), or the CEA clearance as the case may be, up to the date of commercial operation of the units or block or element of transmission project as applicable.
- (2) The time schedule has been indicated in months in the following paragraphs and tables:

i) Thermal Power Projects

Coal/Lignite Power Plant

Unit size 200/210/250/300/330 MW and 125 MW CFBC technology

- (a) 33 months for green field projects. Subsequent units at an interval of 4 months each.
- (b) 31 months for extension projects. Subsequent units at an interval of 4 months each.

Unit size 250 MW CFBC technology

- (a) 36 months for green field projects. Subsequent units at an interval of 4 months each.
- (b) 34 months for extension projects. Subsequent units at an interval of 4 months each.

Unit size 500/600 MW

- (a) 44 months for green field projects. Subsequent units at an interval of 6 months each.
- (b) 42 months for extension projects. Subsequent units at an interval of 6 months each.

Unit size 660/800 MW

- (a) 52 months for green field projects. Subsequent units at an interval of 6 months each.
- (b) 50 months for extension projects. Subsequent units at an interval of 6 months each.

Combined Cycle Power Plant

Gas Turbine size upto 100 MW (ISO rating)

- (a) 26 months for first block of green field projects. Subsequent blocks at an interval of 2 months each.
- (b) 24 months for first block of extension projects. Subsequent units at an interval of 2 months each.

Gas Turbine size above 100 MW (ISO rating)

(a) 30 months for first block of green field projects. Subsequent blocks at an interval of 4 months each.

(b) 28 months for first block of extension projects. Subsequent units at an interval of 4 months each.

ii) Hydro Electric Projects

The qualifying time schedule for hydro electric projects shall be as stated in the original concurrence issued by the Central Electricity Authority under section 8 of the Act.

A. Transmission Schemes

(Qualifying time schedules in months)

Sl. No.	Transmission Work	Plain Area (Months)	Hilly Terrain (Months)	Snow Bound Area/very difficult Terrain (Months)
a.	400 KV D/C Quad Transmission line	32	38	42
b.	400 KV D/C Triple Transmission line	30	36	40
c.	400 KV D/C Twin Transmission line	28	34	38
d.	400 KV S/C Twin Transmission line	24	30	34
e.	220 KV/132 kV D/C Twin Transmission line	28	34	38
f.	220 KV/132 kV D/C Transmission line	24	30	34
g.	220 KV/132 kV S/C Transmission line	20	26	30
h.	New 220 KV/132 kV AC Sub-Station	18	21	24
i.	New 400 KV AC Sub-Station	24	27	30

Notes:

- In case a scheme having combination of the above mentioned types of projects, the qualifying time schedule of the activity having maximum time period shall be considered for the scheme as a whole.
- In case a transmission line falls in plain as well as in hilly terrain/snow bound area/very difficult terrain, the composite qualifying time schedule shall be calculated giving proportional weightage to the line length falling in each area.

**Appendix - II : Depreciation Schedule**

[Refer to Regulation 29(5)]

Sr.	Assert Particulars	Depreciation
		SLM
A	Land under full ownership	0.00%
B	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 generation station	3.34%
C	<u>Assets purchased new</u>	
(a)	Pl & Machinery in generation stations	
(i)	Hydro electric	5.28%
(ii)	Steam electric NHRB & waste heat recovery boilers	5.28%
(iii)	Diesel electric and gas plant	5.28%
(b)	Cooling towers & circulating water systems	5.28%
(c)	Hydraulic works forming part of the Hydro	
(i)	Dams, Spillways, Weirs, Canals, Reinforced concrete	5.28%
(ii)	Reinforced concrete pipelines and surge tanks, steel	5.28%
(d)	Building & Civil Engineering works of a	
(i)	Offices and showrooms	3.34%
(ii)	Containing thermo-electric generation plant	3.34%
(iii)	Containing hydro-electric generation 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	
(i)	Transformers including foundations having rating of 100	5.28%
(ii)	Others	5.28%
f	Switchgear including cable connections	5.28%
g	Lightning arrestor	
(i)	Station type	5.28%
(ii)	Pole type	5.28%
(iii)	Synchronous condenser	5.28%

Sr.	Asset Particulars	Depreciation
h	Batteries	5.28%
(i)	Underground cable including joint boxes and disconnected boxes	5.28%
(ii)	Cable duct system	5.28%
i	Overhead lines including cable support	
(i)	Line on fabricated steel operating at terminal voltage higher than 66KV	5.28%
(ii)	Lines on steel supports operating at terminal voltages higher than 13.2 KV but not exceeding 66KV	5.28%
(iii)	Lines on steel on reinforced concrete support	5.28%
(iv)	Lines on treated wood support	5.28%
j	Meters	5.28%
k	Self Propelled vehicles	9.50%
l	Air Conditioning Plants	
(i)	Static	5.28%
(ii)	Portable	9.50%
m(i)	Office furniture and furnishing	6.33%
(ii)	Office equipment	6.33%
(iii)	Internal wiring including fittings and apparatus	6.33%
(iv)	Street Light fitting	5.28%
n	Apparatus let on hire	
(i)	Other than motors	9.50%
(ii)	Motors	6.33%
o	Communication equipment	
(i)	Radio and high frequency carrier system	6.33%
(ii)	Telephone lines and telephone	6.33%
p	I. T equipments	15.00%
q	Any other assets not covered above	5.28%

**Appendix - III****Guidelines for Determination of Normative Annual Plant Availability Factor (NAPAF)  
of various Hydro Generating Stations**

[Refer to second proviso to Regulation 51(1)]

Normative Annual Plant Availability Factor (NAPAF) of various Hydro Generating Stations shall be determined based on following criteria / guidelines:

- (i) Storage and pondage type plants with head variation between Full Reservoir Level (FRL) and Minimum Draw Down Level (MDDL) of up to 8% and where plant availability is not affected by silt : 90%
- (ii) In case of Storage and pondage type plants with head variation between Full Reservoir Level and Minimum Draw Down Level of more than 8% and where 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 Govt.), shall form basis of fixation of NAPAF.

This has been explained with the following example,

Installed capacity: 4x250 MW

Month	Expected Avg. of daily 3-hour peaking capacity
April	701
May	448
June	133
July	497
August	544
September	990
October	1000
November	1000
December	1000
January	1000
February	1000
March	693

Weighted average of expected daily peaking capability= 790 MW

Peaking capacity is based on the assumption that one unit shall be under annual maintenance during month of May, July, February and March.

Considering 2% allowance on plant capacity on account of forced outages during the year, expected average peaking capacity= 770 MW

Thus, NAPAF=  $770/1000 = 77\%$

(iii) Pondage type plants where plant availability is significantly affected by silt, a margin of 5% has been allowed and NAPAF shall be 85%

(iv) In case of purely Run-of-river type plants, NAPAF shall be determined plant wise, based on its 90% dependable 10-daily inflows pattern as approved in the DPR of the project.

(v) A further allowance may be made by the Commission while determining the NAPAF under special circumstances i.e. abnormal silt problem or other operating conditions and known plant limitations.

(vi) When head variation between FRL and MDDL is more than 8%, following multiplying factors shall be applied:

Multiplying factor for head variation =  $(\text{Head at MDDL} / \text{Rated Head}) \times 0.5 + 0.52$

**Appendix - IV****Procedure for calculation of Transmission System Availability**

[Refer Note (b) to Regulation 64(ii)]

- (1) The transmission elements shall be grouped into following categories for the purpose of calculation of availability of Transmission Systems:
- 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. However, 50% credit to inductive and 50% to capacitive rating shall be given.
  - iv) Switched Bus Reactor: Each switched Bus Reactor shall be considered as one element.
  - v) HVDC 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.
- (2) The Availability of Transmission system shall be calculated as under:

$$\%SystemAvailabilityforACsystem = \frac{o \times AV_o + q \times AV_q + r \times AV_r + s \times AV_s}{o + q + r + s} \times 100$$

$$\%SystemAvailabilityforHVDCsystem = \frac{p \times AV_p + t \times AV_t}{p + t} \times 100$$

Where

- |                       |    |  |
|-----------------------|----|--|
| <i>o</i>              | is | Total number of AC lines.                      |
| <i>AV<sub>o</sub></i> | is | Availability of <i>o</i> number of AC lines.   |
| <i>p</i>              | is | Total number of HVDC poles.                    |
| <i>AV<sub>p</sub></i> | is | Availability of <i>p</i> number of HVDC poles. |
| <i>q</i>              | is | Total number of ICTs.                          |
| <i>AV<sub>q</sub></i> | is | Availability of <i>q</i> number of ICTs.       |
| <i>r</i>              | is | Total number of SVCs.                          |
| <i>AV<sub>r</sub></i> | is | Availability of <i>r</i> number of SVCs.       |

s is Total number of switched bus reactors

AVs is Availability of s number switched bus reactors

t is Total number of HVDC back-to-back station blocks.

AVt is Availability of t number of HVDC back-to-back station blocks

(3) The weightage factor for each category of transmission elements shall be as under:

(d) For each circuit of AC line

- (i) Surge Impedance Loading for Uncompensated line (SIL) multiplied by Circuit Km.
- (ii) SIL rating for various voltage level and conductor configuration is given below. However, for voltage levels and/or conductor configurations not listed here, appropriate SIL based on technical considerations may be used for availability calculations under intimation to the beneficiary.

#### SURGE IMPEDANCE LOADING (SIL) OF AC LINES

S.No.	Line voltage (kV)	Conductor Configuration	SIL (MW)
1	765	Quad Bersimis	2250
2	400	Quad Bersimis	691
3	400	Twin Moose	515
4	400	Twin AAAC	425
5	400	Quad Zebra	647
6	400	Quad AAAC	646
7	400	Tripple Snowbird	605
8	400	ACKC(500/26)	556
9	400	Twin ACAR	557
10	220	Twin Zebra	175
11	220	Single Zebra	132
12	132	Single Panther	50
13	66	Single Dog	10

- (e) For each HVDC pole - The rated MW capacity x Circuit Km.
- (f) For each ICT bank - The rated MVA capacity.
- (g) For SVC - The rated MVAR capacity (inductive & capacitive).
- (h) For switched Bus reactor - The rated MVAR capacity.
- (i) For HVDC back-to-back station - Rated MW capacity of each block.



- (4). 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 follows.

$$AV_o(\text{Availability of } o \text{ no. of AC lines}) = \frac{\sum_{i=1}^o \frac{W_i(T_i - T_{NAi})}{T_i}}{\sum_{i=1}^o W_i}$$

$$AV_p(\text{Availability of } p \text{ no. of HVDC poles}) = \frac{\sum_{j=1}^p \frac{W_j(T_j - T_{NAj})}{T_j}}{\sum_{j=1}^p W_j}$$

$$AV_q(\text{Availability of } q \text{ no. of ICTs}) = \frac{\sum_{k=1}^q \frac{W_k(T_k - T_{NAk})}{T_k}}{\sum_{k=1}^q W_k}$$

$$AV_r(\text{Availability of } r \text{ no. of SVCs}) = \frac{\left[ \sum_{l=1}^r \frac{0.5 \times W_{I_l}(T_{I_l} - T_{NAI_l})}{T_{I_l}} + \sum_{l=1}^r \frac{0.5 \times W_{C_l}(T_{C_l} - T_{NAC_l})}{T_{C_l}} \right]}{\left[ \sum_{l=1}^r 0.5 \times W_{I_l} + \sum_{l=1}^r 0.5 \times W_{C_l} \right]}$$

$$AV_s(\text{Availability of } s \text{ no. of Switched Bus Reactors}) = \frac{\sum_{m=1}^s \frac{W_m(T_m - T_{NA_m})}{T_m}}{\sum_{m=1}^s W_m}$$

$$AV_t(\text{Availability of } t \text{ no. of HVDC Back - to - Back Blocks}) = \frac{\sum_{n=1}^t \frac{W_n(T_n - T_{NA_n})}{T_n}}{\sum_{n=1}^t W_n}$$

- Where  $W_i$  = Weightage factor for  $i$ th transmission line
- $W_j$  = Weightage factor for  $j$ th HVDC pole
- $W_k$  = Weightage factor for  $k$ th ICT
- $W_{I_l}$  &  $W_{C_l}$  = Weightage factors for inductive & capacitive operation of  $l$ th SVC
- $W_m$  = Weightage factor for  $m$ th bus reactor
- $W_n$  = Weightage factor for  $n$ th HVDC back to back block.

Ti, Tj, Tk, TIl, TCl, Tm & Tn - The total hours of ith AC line, jth HVDC pole, kth ICT, lth SVC (Inductive Operation), lth SVC (Capacitive Operation), mth Switched Bus Reactor & nth HVDC back-to-back block during the period under consideration (excluding time period for outages not attributable to Transmission Licensee for reasons given in the procedure below in Para 6)

TNAi , TNAj , TNAk, TNAIl, TNACl, TNAm, TNAn - The non-availability hours (excluding the time period for outages not attributable to Transmission Licensee taken as deemed availability as per the procedure given in Para 5 below) for ith AC line, jth HVDC pole, kth ICT, lth SVC (Inductive Operation), lth SVC (Capacitive Operation), mth Switched Bus Reactor & nth HVDC back-to-back block .

- (5) The transmission elements under outage due to following reasons not attributable to the Transmission Licensee shall be deemed to be available:
  - (a) Shut down of Transmission Licensee's transmission elements availed by other agency/agencies for maintenance or construction of their transmission system.
  - (b) Manual tripping of Transmission Licensee's line due to over voltage and manual tripping of switched bus reactor as per the directions of SLDC/RLDC.
- (6) Outage time of Transmission Licensee's transmission elements for the following contingencies shall be excluded from the total time of the element under period of consideration.
  - (a) Outage of elements due to acts of God and force majeure events beyond the control of the Transmission Licensee. However, onus of satisfying the SLDC that element outage was due to aforesaid events and not due to design failure shall rest on the Transmission Licensee. A reasonable restoration time for the element shall be allowed by SLDC 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. SLDC may consult the Transmission Licensee or any expert for estimation of restoration time. Circuits restored through ERS (Emergency Restoration System) shall be considered as available.
  - (b) 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 Transmission Licensee's elements, tripping of lines, ICTs, HVDC back-to-back stations etc. due to grid disturbance. However, if the element is not restored on receipt of direction from SLDC/RLDC while normalising the system following grid incident/disturbance within reasonable time, the element will be considered not available for whole period of outage and outage time shall be attributable to the Transmission Licensee.

- (7) If the outage of any element causes loss of generation at Central/State Sector Station(s) then the outage period for that element should be deemed to be twice the actual outage period for the day(s) on which such loss of generation has taken place.
- (8) If the outage of any element causes power cut in the area of supply of the distribution licensee, then the outage period for that element shall be deemed to be twice the actual outage period for that day(s) on which such power cut has taken place.
- (9) In case of delay in commissioning of any transmission element beyond the scheduled date given while getting investment plan approved from the Commission, the transmission element shall be deemed to be commissioned from such date and shall be considered to be unavailable due to forced outage for the purpose of calculating the overall availability of the transmission system:

Provided that in exceptional Force Majeure cases where the licensee produces evidence/reasons to the satisfaction of the Commission that the delay was for reasons beyond its control the delay may be condoned by the Commission to the extent deemed fit by it.

**UTTARAKHAND ELECTRICITY REGULATORY COMMISSION (TERMS AND  
CONDITIONS FOR DETERMINATION OF TARIFF) REGULATIONS, 2011**

**STATEMENT OF OBJECTS & REASONS**

**1. Introduction**

1.1. The Electricity Act, 2003 (hereinafter referred to as "the Act") assigns the following functions to the State Electricity Regulatory Commissions among others:

- (a) determine the tariff for generation, supply, transmission and wheeling of electricity, wholesale, bulk or retail, as the case may be, within the State:

Provided that where open access has been permitted to a category of consumers under section 42, the State Commission shall determine only the wheeling charges and surcharge thereon, if any, for the said category of consumers;

- (b) regulate electricity purchase and procurement process of distribution licensees including the price at which electricity shall be procured from the generating companies or licensees or from other sources through agreements for purchase of power for distribution and supply within the State;
- (c) facilitate intra-State transmission and wheeling of electricity;

1.2. Section 61 of the Act empowers the Commission to specify, by regulations, the terms and conditions for the determination of tariff in accordance with the provisions of the said section and the National Electricity Policy and Tariff Policy. In terms of clause (zd) of sub-section (2) of section 181 of the Act, the Commission has been vested with the powers to make regulations, by notification, on the terms and conditions of tariff under section 61. As per section 181(3) of the Act, the Commission is required to make previous publication before finalizing any regulation under the Act. Thus, as per the provisions of the Act, the State Commission is mandated to specify, through notification, the terms and conditions for determination of tariff within the State, after previous publication.

1.3. In exercise of the powers vested under sections 61 and 181(2) (zd), (ze) and (zf) of the Act and all other enabling powers and in compliance of the requirement under section 181(3)

of the Act, the Uttarakhand Electricity Regulatory Commission issued public notice vide advtt. no. 08/11-12 dated 23.09.2011 the draft Uttarakhand Electricity Regulatory Commission (Terms and Conditions for determination of Tariff) Regulations, 2011 for the tariff period from 1.4.2013 to 31.3.2016 (hereinafter referred to as the draft regulations). The Commission, through this public notice invited comments/suggestions /objections from all the stakeholders and consumers, if any on the draft regulations. The Commission also called upon the meeting of State Advisory Committee (SAC) on November 28, 2011 for deliberations on the draft regulations.

## 2. Multi Year Tariff – Objectives and Overview

- 2.1. The Commission had specified UERC (Terms & Conditions for Determination of Tariff) Regulations, 2004 separately for Generation, Transmission and Distribution Business which were initially valid for a period of 5 years upto 13th May 2009. Subsequently, the applicability of these regulations were extended on numerous occasions and recently, the applicability of these tariff regulations have been extended till April 30, 2012.
- 2.2. Clause (f) of Section 61 of the Act states that the Commission, while specifying the terms and conditions for the determination of tariff, shall be guided by 'Multi-Year Tariff Principles'. In respect of the tenure of Control Period under MYT framework, Clause 5.3(h)(1) of the Tariff Policy notified by the Ministry of Power, Government of India on January 6, 2006 has stated that *"..... The framework should feature a five-year control period. The initial control period may however be of 3 year duration for transmission and distribution if deemed necessary by the Regulatory Commission on account of data uncertainties and other practical considerations. In cases of lack of reliable data, the Appropriate Commission may state assumptions in MYT for first control period and a fresh control period may be started as and when more reliable data becomes available."*
- 2.3. Considering the above clause of the Tariff Policy, the Commission has decided to replace the existing separate Regulations for Generation, Transmission and Distribution with a comprehensive MYT Regulation having separate sections for Generation, Transmission, Distribution and SLDC with first Control Period of 03 years starting w.e.f. FY 2013-14..
- 2.4. The main objectives of Multi-Year Tariff regime are summarised as under:
  - Provide regulatory certainty to the Utilities, investors and consumers by promoting transparency, consistency and predictability of regulatory approach, thereby minimizing the perception of regulatory risk.

- Address the risk sharing mechanism between Utilities and consumers based on controllable and uncontrollable factors.
- Ensure financial viability of the sector to attract investment, ensure growth and safeguard the interest of the consumers.
- Review operational norms for Generation, Transmission, Distribution and Supply businesses, related issues and recommend suitable measures to address such issues.
- Promote operational efficiency.
- Rationalise tariffs in the long-term through improvement in operational efficiency.

2.5. Clause 5.4.4 of the National Electricity Policy issued by the Ministry of Power, Government of India on February 12, 2005 also recognised the importance of MYT framework by stating that, *".... Multi-Year Tariff (MYT) framework is an important structural incentive to minimize risks for utilities and consumers, promote efficiency and rapid reduction of system losses. It would serve public interest through economic efficiency and improved service quality. It would also bring greater predictability to consumer tariffs by restricting tariff adjustments to known indicators such as power purchase prices and inflation indices."*

2.6. Further, Multi Year Tariffs (MYT) principles are intended to give clarity to the Generating Companies, Transmission Licensees, Distribution Licensees and consumers, and the other stakeholders regarding the principles governing the determination of revenue requirement and tariffs. Further, it would also detail the tariff methodologies, which can be understood by all, and give a fair idea of the future path. In this way, all stakeholders are made aware of the outcome of various actions/events during the Control Period, so that they could make their plans accordingly. For the Licensees and Generating Companies, the principles provide clarity in rules applied over the control period, and help finance growth and operations better, and facilitate improvement in quality of service to the customers.

### **3. Consideration of the views of the stakeholders and analysis and findings of the Commission on important issues**

3.1. The Commission considered the comments of the stakeholders on the draft regulations, as well as views of the members of the State Advisory Committee expressed during the SAC meeting. The regulations have been finalized after detailed analysis and due consideration of the various issues raised by the stakeholders. The comments/

suggestions/ objections received from the stakeholders and public and the views of the Commission on the same are discussed in subsequent paragraphs.

**4. Suggestions and objections of stakeholders on the Draft UERC (Terms & Conditions for Determination of Tariff) Regulations, 2011 and the Commission Views on the same:**

**4.1. Uttarakhand Jal Vidyut Nigam Ltd**

- a) In Clause 3(31) of the draft Regulations, 'expenditure incurred' has been defined as follows:—

"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.

UJNVN suggested that the expenditure incurred may be considered on accrual basis.

The Commission is of the view that the term "Expenditure incurred" is applied in the context of creation or acquisition of useful asset, i.e. for actual Capital expenditure incurred. To promote greater transparency in capital expenditure approval, it is desirable to limit the allowable expenditure to the extent of actual cash investment. In addition, the Regulations also provide for additional capitalisation to meet the expenditure incurred after the date of commercial operation and up to the cut-off date. Therefore, the Commission does not find any merit to incorporate any changes in the definition of expenditure incurred.

- b) In Clause 25 of the draft Regulations, 'Special allowance' has been defined under Renovation and Modernisation.

It has also been mentioned that "option of 'special allowance' shall not be available for a generating station or unit 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."

UJNVN submitted that most of its Power Stations have already completed more than 35 years of operation and due to some uncontrollable reasons, the RMU of these power stations could not be taken up earlier. As such, UJNVN has already incurred loss due to less generation because of wear & tear of machines, increased maintenance costs and difficulties in operation of these old plants.

RMU of various old Power Stations is being done unit wise. UJVNL submitted that if RMU works of a particular unit of Power Station is under progress as on April 1, 2013 then special allowance may also be provided to all other units whose RMU has not been done and would be taken up afterwards.

The Commission would like to clarify that the special allowance would be applicable only for undertaking Renovation and Modernisation of thermal generating stations as the cost of undertaking Renovation & Modernisation of thermal power stations has been now standardised to a reasonable extent. However, as the cost of undertaking R&M for hydro power stations and transmission system varies significantly on case to case basis, the Commission will approve the cost for undertaking R&M of hydel power stations and transmission systems on case to case basis subject to prudence check and, hence, the Commission has modified the Regulations.

- c) In Clause 27(2) of the draft Regulation, under the heading of Return on Equity, the rate of ROE is defined as:-

Return on equity shall be computed at the rate of 15.5% for Generating Stations, Transmission Licensee and SLDC and at the rate of 16% for Distribution Licensee on a post-tax basis.

UJVNL submitted that the rate of return on equity for generating stations may also be considered at 16%.

The Commission would like to mention the relevant extract of the Tariff Policy, in respect of rate of return for distribution business, which states as follows:

*"the rate of return notified by CERC for transmission may be adopted for State Electricity Regulatory Commissions (SERCs) for distribution with appropriate modification taking into view the higher risks involved. For uniform approach in this matter, it would be desirable to arrive at a consensus through the Forum of Regulators".*

Hence, the Commission has deliberately kept a higher rate of return of 16% for Distribution Licensees, which is only 0.5% higher in comparison to Transmission Licensee and Generating Company keeping in view the inherent higher risk involved in the distribution business, which is also in line with the rate of return provided in the Model Regulations for Multi Year Distribution Tariff issued by Forum of Regulators as well as Regulations issued by various other State Electricity Regulatory Commissions.



- d) In the Regulation norms of operation of hydro generating stations have been specified in clause 50. To compute normative plant availability factor (NAPAF) of hydro generating stations of UJVNL, DPRs of the generating stations would be required to be submitted before the Commission.

UJVNL has suggested that since DPRs of most of the large hydro projects of UJVNL are not available and most of the projects are very old, therefore, the Commission may review the provision of normative plant availability factor in respect of running hydro generating stations of UJVNL.

To discuss these issues, the Commission held meeting with UJVNL officials on 29<sup>th</sup> November, 2011.

In this regard, the Commission has taken a view that it will not be appropriate to modify the MYT Regulations at this stage and UJVNL should appoint a technical consultant for estimating NAPAF and other related parameters for all hydro generating stations considering the specific issues of each hydel generating station and submit the same in the Business Plan for Commission's approval. Based on the analysis of the information and data submitted by UJVNL, the Commission will approve the NAPAF for each Generating Station of UJVNL considering the station specific issues as a part of Business Plan Order.

- e) In the Regulation at clause No- 54 (2) under the heading demonstration of declared capacity, the quantum of penalty is defined as follows:-

"The quantum of penalty for the first mis-declaration for duration or block in a day shall be the charges corresponding to two days capacity charges. For the second mis-declaration the penalty shall be equivalent to capacity charges for four days and for subsequent mis-declarations, the penalty shall be multiplied in the geometrical progression"

UJVNL submitted that capacity is declared by a hydro power station for the next day on the basis of the river discharge of the previous day and present availability of the machines. The generation for a hydro power station is totally dependent upon the river discharge which cannot be predicted accurately. As such, there can sometime be instances of failure in demonstrating the declared capacity by a power station.

Also sometimes due to equipment failure and other uncontrollable reasons, the declared capacity cannot be achieved. Further, the machines are operated as per the requirement of SLDC, as such many a times the declared capacity pattern of a plant also gets affected.

Therefore, in light of the above stated facts, the capacity charges due to generating company should not be reduced as a measure of penalty on account of failure of demonstration of declared capacity considering various limitations of old power stations. Also the capacity charge would be Nil on 7th mis-declaration as per proposed provisions. Hence in light of the above, it may be reviewed.

The Commission would like to clarify that penalty on account of mis-declaration of Declared Capacity will be levied only in those cases wherein the generating company is unable to demonstrate the Declared Capacity when it has been asked by the SLDC to do so. Further, the Definition of Declared Capacity takes into account the availability of water. Therefore, the Commission does not find any merit to incorporate any changes in the Draft Regulations.

- f) UJVNL has pointed out that the term of transformation losses has not been specified in Form 1.1 and 2.1 and calculation is also required to be filled by the generating company against transformation losses whereas definition of transformation losses has not been provided in draft regulation.

The Commission would like to clarify that in the Regulations, the transformation losses have been clubbed with the auxiliary consumption based on the CERC (Terms and Conditions on Tariff) Regulations, 2009. Hence, accordingly, transformation losses in the final Forms 1.1 and 2.1 have been removed from the Formats.

- g) UJVNL has further pointed out towards following provisions included in UERC (Terms and Conditions for determination of hydro generation tariff) Regulations, 2004 and CERC (Terms and Condition on Tariff) Regulation 2009.
- (i) Clause 31 of UERC Regulation 2004 specifies the following provision related to Deemed Generation: "In case of reduced generation due to the reasons beyond the control of Generating Company such as on account of non-availability of transmission lines for supply to any beneficiary or on receipt of backing down instructions from the State Load Dispatch Centre resulting in spillage of water, the energy charges on account of such spillage shall be payable to the Generating Company"

UJVNL stated that the aforesaid provision of deemed generation has not been provided in the draft Regulation and has submitted that the provision of deemed generation may be incorporated in the revised Regulation.

In the UERC (Terms and Conditions for determination of hydro generation tariff) Regulations, 2004, recovery of energy charges have been provided in cases of reduced generation on account of spillage of water for reasons beyond the control of Generating Company. The Regulation also provided that Energy charges on account of deemed generation shall not be admissible if the energy generated during the year is equal to or more than Design Energy. Hence, the clear objective of allowing Deemed Generation was to provide for the recovery of Annual Fixed charges in case of reduction in actual generation for reasons not attributable to Generating Company.

In the Regulations 2011, Annual Fixed Charges (AFC) has been proposed to be recovered through Capacity Charge and Energy Charges, where recovery from energy charges will be to the extent of 50% of the AFC. Further, the Regulation provides that in case actual total energy generated during a year is less than the Design Energy, within ten years from the date of commercial operation of a generating station, for reasons beyond the control of the Generating Company, the ECR for the year following the year of energy shortfall shall be computed taking the actual energy generated during the year of the shortfall as the design energy, till the Energy Charge shortfall of the previous year has been made up, after which normal ECR shall be applicable. In case of energy shortfall for plant occurs after 10 years of operation, then the design energy for calculating the ECR shall be moderated considering the actual energy generation.

Therefore, deemed generation has not been considered in the Regulations. To this extent the Commission does not find any merit to incorporate any changes in the Draft Regulations as the Generating Company will be able to recover 50% of Annual Fixed Charges through Capacity Charges and for recovery of balance 50% of Annual Fixed Charges through Energy Charges, in case of reduction in generation, suitable adjustment has already been provided in the Regulations.

- (ii) Clause 29 of UERC Regulation 2004 specified provisions relating to incentive for exceeding normative capacitive index.

UJVNL has submitted that draft Regulation does not provide any incentive for exceeding the normative capacity index. Appropriate incentive scheme may be considered to be incorporated.

The Commission has adopted the CERC methodology wherein the concept of capacity index has been replaced with NAPAF accordingly, 50% of Annual Fixed Charges are recovered as Capacity Charges and remaining 50% of Annual Fixed Charges are recovered through Energy Charges. The recovery of capacity charges is dependent upon the Actual Plant Availability Factor achieved during the month. If the Actual Availability Factor exceeds the NAPAF, recovery through capacity charges would be more than 50% of the AFC and vice-versa. Thus, this mechanism has inbuilt incentive/dis-incentive mechanism. Further, in case the actual energy generation exceeds the design energy, then the Generation Company will be able to recover the Energy charges more than 50% of Annual Fixed Charges. Such incentive will be in the form of secondary energy charges. Since the incentive mechanism is already a part of the Regulations, there is no need to specify the Incentive mechanism separately.

(iii) Clause 35 of CERC Regulation 2009 has specified provisions related to late payment surcharge.

UJVNL has submitted that similar kind of provision of late payment may be incorporated in the revised Regulation.

The Commission is of the view that the Late Payment Surcharge is a commercial arrangement between license and the generating company, and therefore, this mechanism should be settled mutually amongst the two in their Power Purchase Agreement.

#### 4.2. Uttarakhand Power Corporation Ltd

a) **Return on Equity:** It has been provided in the regulations that return on equity shall be allowed on the amount of allowed equity capital for the assets put to use at the commencement of each financial year.

UPCL has submitted that equity capital invested in capital work-in-progress should also be considered for return on equity otherwise the amount of equity capital invested in capital work-in-progress shall lose its time value for the time spent in completion of fixed assets. It is also submitted that as per the Sixth Schedule of Electricity (Supply) Act, 1948 (financial principals and their application), capital base was required to be calculated which included the cost of work-in-progress and on this capital base, return was admissible. Moreover, capital work-in-progress is also a part of fixed assets as per schedule-VI of the Companies Act, 1956.

The Commission finds it totally unreasonable to provide return on equity on the amount of equity invested in capital work-in-progress. The investments made in the form of equity is considered as risk capital carrying higher rate of return and have perpetual flow of return up to the end of the life of the asset which is not the case with the debt. The Sixth Schedule referred to by UPCL is now not applicable and the tariffs are determined under the Regulations specified by the Commission under the Electricity Act, 2003 which specifically provides for allowing Return on Equity. Further, the Model Regulations for Multi Year Distribution Tariff issued by FOR also specifies allowing Return on Equity rather than allowing Return of Capital Base or on capital employed. Therefore, the Commission finds no merit in the given suggestion.

- b) **Depreciation:** It has been provided in the Regulations that deprecation shall not be allowed on the assets funded through consumer contribution and capital subsidies/ grants.

UPCL has submitted that the original cost of construction of fixed assets should be considered for allowing depreciation on the same. This view is as per the provisions laid down in Sixth Schedule of the Electricity (Supply) Act, 1948 (financial principals and their application). This is also necessary in view of the fact that the consumer contribution/grant is received one time out of which asset is created, but the distribution licensee is required to provide the services to the consumer even after expiry of life of such assets. On expiry of the life of such assets, the utility will not be in position to construct new assets in the absence of any fund created for this purpose and this fund can be created out of an amount of depreciation allowed during the life of such assets.

The Commission would like to clarify that in electricity regulatory framework, depreciation is considered as source of funding of repayment of loans as against the normal accounting principles wherein depreciation is considered as source of funding the replacement of the asset.

In this connection, section 43(1) of the Income Tax Act, 1961 is reproduced below:

*"Actual cost means the actual cost of the assets to the assessee, reduced by that portion of the cost, thereof, if any, as has been met directly or indirectly by any other person or authority"*

Explanation 10 of this subsection is reproduced below:

*"Where a portion of the cost of an asset acquired by the assessee has been met directly or indirectly by the Central Government or a State Government or any authority established under any law or by any other person, in the form of a subsidy or grant or reimbursement (by*

*whatever name called), then, so much of the cost as is relatable to such subsidy or grant or reimbursement shall not be included in the actual cost of the asset to the assessee."*

Accounting Standard AS 10 prescribed by Institute of Chartered Accountants have also dealt with this issue and the position stipulated therein is given below:

*"Grant should either be shown as a deduction from the gross value of the assets which is thus recognized in the profit and loss statement by way of reduced depreciation charge over the useful life of the asset. Under another method, grants related to the depreciable assets are treated as deferred income which is recognized in the profit and loss statement on a systematic and rationale basis over the useful life of the assets. This grant can either be monetary or non-monetary."*

Going by the above readings of the Income Tax Act and also the Accounting standards, any capital subsidy/grant has to be deducted from the gross value of the assets.

Further, the concern of the licensee to construct new assets in the absence of any fund created for this purpose out of depreciation is also totally unwarranted, as the funding mechanism of replacement of any fixed assets is taken care of through approval of Capital Expenditure Plan from time to time by the Commission. Therefore, there is no justification to allow depreciation in respect of assets which are funded through consumer contribution/grant, as it will result in unreasonable gain to the licensee.

- c) **Bad and Doubtful debts:** It has been provided in the Regulations that provision for bad and doubtful debts may be allowed upto 0.25% of the amount shown as receivables in the audited accounts subject to actual writing off of bad debts in previous year. Further, the amount of provisioning of bad and doubtful debts is further capped to limit of 5% of the receivables at the beginning of the year.

UPCL has submitted that annual provisioning towards bad and doubtful debts is an accepted method of accounting and considering the peculiarity of retail supply of electricity business, the same has also been recognized by the State Electricity Regulatory Commissions. This amount, if any, written off towards bad debts is only adjusted against the accumulated provisions in the books irrespective of the actual amount of bad debts during any financial year, considering the geographical spread of the large consumer base across the State including a large part of the same prevailing in the difficult terrain and hilly region and the problem of realizing energy dues from retail consumers, provision for bad debts should be allowed @ 5%

of revenue billed during any financial year. It is worthwhile to mention here that the collection efficiency of UPCL varies between 90% to 93%.

The Commission has deliberated on the issue and is of the view that bad and doubtful debts are inherent in any nature of business and moreover, there is no direct relation between receivables and provision for bad and doubtful debts of a business, which normally is a factor of the volume of business. However, the request of the distribution licensee for allowing bad and doubtful debts @ 5% of the revenue billed during a financial year is totally unreasonable as it will amount to passing on the entire burden of collection inefficiency of the distribution licensee to the honest paying consumers.

Therefore, the Commission has decided to amend the provision to the effect that provision for bad and doubtful debts may be allowed upto 1% of the annual revenue subject to actual writing off of bad debts in previous years. Further, the amount of provisioning of bad and doubtful debts is further capped to limit of 5% of the receivables at the beginning of the year. This has been done to ensure that the licensee does not keep on accumulating provisions for bad and doubtful debts but also takes steps for identifying and writing off the bad debts failing which no further provision will be allowed.

**d) Interest on Working Capital**

- i) The collection efficiency of UPCL lies between 90% to 93% and therefore capital required to finance such short fall of tariff revenue should be allowed by the Commission as working capital.
- ii) Revenue from sale of electricity at the prevailing tariff equivalent to average of two months has been considered for working out of working capital. In this context it is submitted that after one month of supply of electricity, 10 days are spent in preparation of the bills and 15 days are allowed for payment of the bill and 15 more days are allowed as grace period. Therefore, revenue from sale of electricity should be considered equivalent to average of 2 & 1/2 months for working out of working capital.

The Commission would like to clarify that the tariff determination exercise is undertaken on accrual basis and not on cash basis for the ensuing year and the Licensee has the opportunity to improve collection efficiency for the ensuing years. In addition, the Commission is also providing two months receivables as part of Working Capital requirement. To say that the collection efficiency of UPCL lies in

the range of 90% to 93% and, hence, capital required to finance the shortfall should be allowed as working capital is not acceptable. UPCL has to take steps to improve its collection efficiency so as to bring it close to 100% more so keeping in view the R-APDRP programme of MoP wherein the licensee has to bring its AT&C losses to 15%. In this regard, it is also important to note that the certain amount of revenue not collected in one particular year should be realised in subsequent years and, thus, this will provide a rolling cash flow to the Licensee.

With regard to revenue from sale of electricity, it is clarified that the majority of the revenue from sale of power received by the UPCL is from the HT consumers having billing cycle of 1 month. Therefore, Commission finds no merit in the given case for allowing a higher norm for revenue from sale of electricity for computation of working capital requirement.

As per the provisions of Regulations, the Commission will allow the interest on working capital based on normative working capital requirement irrespective of actual loans availed for working capital and based on past experience, it is observed that the actual working capital loans availed by the Utilities are much less than the normative working capital requirement, determined as per Regulations, which provides adequate cushion in the working capital.

- e) **Power Purchase Cost:** It has been provided in the Regulations that power purchase requirement of the Distribution Licensee shall be estimated based on the sales forecast, the transmission loss and the target distribution loss level for the control period.

UPCL has submitted that it is making its best efforts to achieve the loss level allowed by the Commission, but due to limitation of resources and habits of the general public, this target loss level could not be achieved so far. It is therefore, proposed that the Commission should allow actual power purchase cost and revenue for excess distribution losses may be considered for calculating the tariff revenue of the company.

The Commission will take an appropriate view in the matter depending upon whether the distribution loss target is not achieved due to technical losses or commercial losses. However, in any case the impact of non-achievement of loss



reduction target is proposed to be shared under the sharing of gains and loss mechanism.

- f) **Administration & General Expenses:** The following formula has been given in the Regulations for calculation of Administrative & General expenses;

$$A\&G_n = (A\&G_{n-1}) \times (WPI_{inflation})$$

UPCL has submitted that a growth factor should also be considered for providing the additional facilities to the consumers and introduction of latest technologies in consumer services.

The Commission is of the view that there is no requirement for including a growth factor for providing additional facilities including introduction of latest technologies for the benefit of consumers, as these costs will essentially be of capital nature and will not be covered under the head of Administration & General Expenses. However, the Commission referring to the Model Regulations for Multi Year Distribution Tariff issued by Forum of Regulators has decided to include an additional Provision, which will take care of the revenue cost for various initiatives or other one-time expenses. The additional Provision proposed by the Utilities shall be determined by the Commission while approving the Business Plan based on the prudence check.

- g) **Voltage-wise distribution losses & cost of supply:** It has been provided in the Regulations that UPCL shall calculate and provide voltage-wise distribution losses & cost of supply to the Commission.

It is submitted that UPCL is in process to evolve a mechanism for determination of voltage-wise distribution losses and cost of supply. Presently, UPCL is not in a position to calculate voltage wise distribution losses and cost of supply and therefore, the Commission is requested to kindly provide in the Regulations that voltage wise distribution losses and cost of supply shall be made necessary from the second control period.

**Technical Distribution Loss & Commercial Distribution Loss:** It has been provided in the Regulations that UPCL shall calculate Technical Distribution Loss & Commercial loss separately and provide to the Commission along with the petition for approval of Business Plan for the Control Period.

UPCL has submitted that it is not in a position to determine Technical Distribution loss & Commercial Distribution loss separately and therefore, the Commission is requested to provide in the Regulations that Technical and Commercial Distribution loss shall be provided separately from the second Control Period.

The Commission is of the view that segregation of technical and commercial distribution losses is critical in the MYT framework and is also recognised in the Tariff Policy. Further, determination of voltage-wise distribution loss is also equally important in order to work out voltage-wise cost of supply.

UPCL in its Business Plan for the first control period shall submit concrete and time bound roadmap for introducing the desired systems to provide the desired information to the Commission at an early date. The Commission will accordingly take a view in the matter and issue appropriate directions while approving the Business Plan.

#### 4.3. Other Comments/Suggestions:

- a) **Start up Power:** Provision for purchase of Electricity by the Generating station/IPP for start-up power for testing and pre commissioning activities and emergency/intermittent power requirement after commercial operation declaration should also be specified. The start-up power requirement for commissioning purpose should be made available at 132 KV and above irrespective of the MVA requirement by the Generator/IPP.

The Commission clarifies that in the Final Regulations separate provision for "Purchase of Electricity by the Generating station/Start up Power" has been incorporated as follows:--

*"Any person, who establishes, maintains and operates a generating station and normally does not need power from the licensee round the year, i.e. who is not a consumer of the licensee, may purchase electricity from any generating company or a distribution licensee in case his plant is not in a position to generate electricity to meet the its own requirement or for start up and consequently power is required to be drawn from distribution licensee.*

*In case of electricity generated from the plant is sold to the State Distribution Licensee, the electricity (in kWh) procured by the Generating Station from the State Distribution Licensee to meet its requirement of start up power, will be adjusted from the electricity sold*

*to the Distribution Licensee. The Distribution Licensee shall make the payment for net energy sold to it by the Generating Company, i.e. difference of the total energy supplied by the Generating Company to the Distribution Licensee and energy supplied by the Distribution Licensee to the Generating Company.*

*In case of electricity generated from the plant is sold to third party other than the State Distribution Licensee, then such purchase of electricity by the generating company from the State distribution licensee, shall be charged as per the tariff determined by the Commission for temporary supply under appropriate "Rate Schedule of tariff" for Industrial Consumers considering maximum demand during the month as the contracted demand for that month. The Fixed/Demand charges for that month shall be payable for the number of days during which such supply is drawn. Such Generating Company shall, however, be exempted from payment of monthly minimum charges or monthly minimum consumption guarantee charges or any other charges. "*

- b) Controllable and uncontrollable factors should be specifically indicated whether they relate to generation, transmission and distribution:

The Commission is of the opinion that the factors provided in the Regulations are some of the examples of Controllable and un-Controllable factors and are not exhaustive. There can be other factors also, hence, have not been categorized separately for the utilities.

- c) Actual capital expenditure incurred annually should be monitored annually but no adjustment should be carried out annually. Adjustment for the same should be carried out at the end of the control period:

The Commission is of the view that Annual adjustment is necessary for two reasons:

- a. Keeping in view the financial health of the utilities, it would be appropriate to adjust the same based on actual expenditure during the performance review otherwise any increase in capital expenditure for reasons beyond the control of the utility may adversely affect the finances of the company.
- b. Further, if the adjustment is carried at the end of the control period, the cumulative impact on consumer tariffs may be very high and, hence, it has been proposed to spread this over the period.

- d) Detailed analysis of the O&M expenses should be conducted before approving it for first year of the control period based on the expenses approved in the last tariff order. This should be increased on predetermined principle or rate. Since, it is a controllable factor, any loss or gain should not be adjusted in the ARR of the licensee.

The Commission clarifies that the Regulations already provides that the O&M expenses for the first year of the control period will be approved by the Commission taking in to account the actual O&M expenses for last five years till base year, based on the audited balance sheets, excluding abnormal operation and maintenance expenses, if any, subject to prudence check and any other factors considered appropriate by the Commission. Further, the NTP also specified that at the beginning of the control period "actual" costs shall form the basis for future projections.

Further, O&M expenses for subsequent years will be calculated by using CPI and WPI respectively over the base year's expenses. All elements of O&M expenses are not controllable. The Utilities in Uttarakhand being Government companies, their salary structure is linked to various Government orders, like DA which is revised twice in a year. Further, being a hilly State, R&M expenses are dependent on vagaries of nature. Further, the Regulations specifies for sharing of gains/losses between the consumers and utilities. Clause 8.2.1(5) of the NTP also stipulates that during the transition period controllable factors should be to the account of utilities and consumers in proportions determined under the MYT framework.

- e) Variations in revenue and expenditure due to uncontrollable factors should be trued up every year and for controllable factors truing up should be at the end of control period.

Reasons for annual adjustments have already been discussed under point (c) of S. No. 4.3.

- f) Under applicability, both under generation and transmission tariff, it should be specified that this shall not apply where tariff has been determined through transparent process of bidding.

This has already been specified under Regulation 2 and Regulation 4(2), hence, is not repeated elsewhere.

- g) Distribution tariff should be split up under network business and retail supply business.

The Commission would like to clarify that splitting up of tariff between network business and retail supply business is not required as Commission has already issued Open access Regulations wherein principle for determining wheeling charges have been specified.

- h) Regulations should provide that the licensee shall develop a robust and well tested forecasting technique.

The Commission would like to clarify that the Regulations provides that due to the importance of capturing seasonal variation, Monthly Sales Forecast for the Control Period shall be done in respect of each consumer category/sub-category and to each tariff slab within such consumer category/sub-category, based on the past trends and suitable adjustments shall be made to reflect the effect of known and measurable changes with respect to number of consumers, the connected load and the energy consumption, thereby removing any abnormality in the past data.

- i) The opening level of AT&C losses should be determined by the Commission as in the last Order and equal sharing should be there between the licensee and consumers on account of gains arising out of better performance.

The Commission would like to clarify that the opening level of losses will be considered by the Commission while issuing the MYT order and cannot be specified in the Regulation as actual losses of FY 2011-12 will also have to be considered. Regarding sharing of gains/losses, the sharing mechanism has been provided in the Regulation.

- j) No change is desired in the prevailing Tariff Policy and no change in the same is desired at this stage. If so please make available for appreciation of the Regulations.

The Commission would like to clarify that no deviation is taken from Tariff Policy..

- k) Need to mention that it is expected that Licensee/ Company shall submit tariff proposal by November of preceding year and failing which the Commission reserve its right to start suo moto proceedings for deciding the tariff for next financial year.

Recently, Appellate Tribunal for Electricity (ATE) has issued directives to all Commissions directly.

In the light of APTEL Judgment dated November 11, 2011 on the Tariff Revision (Suo-Motu action on the letter received from Ministry of Power) and Model Regulations for Multi Year Distribution Tariff published by Forum of Regulators, the Commission has incorporated appropriate provisions in respect of Suo-Motu proceedings in the Final Regulations, in case of delay/ non- submission of the application for determination of tariff and annual performance review beyond one month from the scheduled date of submission.

- l) Tariff Order shall determine tariff with and without Government subsidy not received at advance.

The Commission has incorporated the necessary provisions in the Regulations.

- m) The Commission needs to ask Distribution Licensee to improve its performance or Government to change the management of Distribution Licensee and absorb losses suffered by the same for cash shortage.

This is beyond the purview of the Commission.

- n) In case generation tariff increases during the period the increased cost should be allowed to be recovered quarterly from the consumers.

The Commission has incorporated FCA mechanism in Regulations to pass on the impact of increase in fuel related costs of power purchase.

- o) Regulatory Asset should not be encouraged beyond two years.

The Commission has taken a note of the same.

- p) In case additional energy is purchased by the Distribution Licensee except for the reasons such as natural calamity or exigencies the cost of additional power purchase needs to be compensated by state government or passed on to the next year tariff.

Compensation towards the cost of additional power purchase by the Government is beyond the purview of the Commission as the Commission can only seek Government's view on payment of subsidy to any consumer category while determining tariffs. However, with regard to passing the additional power purchase

cost in the next tariff exercise, it is relevant to mention that in the light of APTEL Judgment dated November 11, 2011 on the Tariff Revision (Suo-Motu action on the letter received from Ministry of Power) and Model Regulations for Multi Year Distribution Tariff published by Forum of Regulators, as well as the comments received in respect of incorporation of provision for quarterly recovery fuel and power purchase adjustments from the consumers during the period in between the issue of two tariff orders, the Commission has now incorporated the Fuel Charge Adjustment Mechanism in the Final Regulations.

- q) It is imperative for the Commission to introduce TOD tariff for HT consumers to avoid open access in future. The same needs to be mentioned in Regulations.

The Commission will take view in the matter to TOD Tariffs while issuing the Tariff Orders.

#### **4.4. Other Changes made in the Regulations:**

This section contains the rationale of amendments being made in the Draft Regulations published by the Commission for stakeholders' comments and suggestions and the Final Regulations now being notified other than those which are already covered in the previous sections:

a) **Sharing of Gains & Losses:**

Clause 8.1 (2) of the Tariff Policy states that while implementation of MYT framework, the State Commissions should introduce mechanism for sharing of excess profits and losses with the consumers. It also stated that with a view to incentivize accelerated performance improvement and reduction in losses, which is ultimately in long term interest of consumers, the incentives for the Utilities may be kept asymmetric in the first control period. The means the percentage of the excess profits being retained by the utility may be set at higher levels than the percentage of losses to be borne by the utility.

The issue was also deliberated in the meeting of State Advisory Committee held on November 28, 2011, wherein it was also pointed out by the Members that in the previous Regulations, licensee's inefficiency in non-reduction of distribution losses was not passed on to the consumers in tariffs. However, in the draft MYT Regulations, the sharing mechanism of losses on account of controllable factors was proposed to be shared in the proportion of 50:50. This would not only over-burden

the consumer tariffs but UPCL would also be under no further pressure to reduce its losses and therefore the impact of sharing of losses should be more on the utility than the consumer. The Members proposed that higher proportion of gains would be allowed to be retained by the utility so as to incentivize them to reduce their losses.

In the light of provisions mentioned in the Tariff Policy as well as taking into consideration the essence of the opinion of the State Advisory Committee, the Commission has now revised the mechanism of sharing of gains & losses between consumer and distribution licensee from 'equal' to 'asymmetric' in favour of distribution licensee for the first control period. The approved aggregate gain will be shared in the ratio of 20:80 between Consumers & Utility and approved aggregate loss will be shared in the ratio of 25:75 between Consumers & Utility.

b) **Incorporation of Secondary Fuel Cost in the Fixed Charges:**

The secondary fuel expense, which was inadvertently missed in the Draft Regulations, has now been incorporated in the Fixed Charges in the Final Regulations.

c) **Fuel Charge Adjustment (FCA):**

In the light of APTEL Judgment dated November 11, 2011 on the Tariff Revision (Suo-Motu action on the letter received from Ministry of Power) and Model Regulations for Multi Year Distribution Tariff published by Forum of Regulators, as well as the comment received in respect of incorporation of provision for quarterly recovery fuel and power purchase adjustments from the consumers during the period in between the issue of two tariff orders, the Commission has now incorporated the Fuel Charge Adjustment Mechanism in the Final Regulations.



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34	Form: F-14	Revenue from Proposed Tariff for ensuing year
35	Form: F-15	Collection Efficiency
36	Form: F-16	Summary of Truing Up
37	Form: F-17.1	System Average Interruption Frequency Index (SAIFI)
38	Form: F-17.2	System Average Interruption Duration Index (SAIDI)
39	Form: F-17.3	Momentary Average Interruption Frequency Index (MAIFI)
40	Form: F-18.1	Shunt Capacitor Addition / Repair Program
41	Form: F-18.2	Electrical Accidents
42	Form: F-18.3	Abstract of Outages due to feeder tripping
43	Form: F-18.4	Category wise Load Shedding carried out during the year
44	Form: F-18.5	Overloaded Feeders
45	Form: F-18.6	Failure of Transformers
46	Form: F-18.7	Overloaded Distribution Transformers (DTRs)
47	Form: F-18.8	Ageing Schedule of Receivables
48	Form: F-18.9	Status of Metering
49	Form: F-18.10	Release of Customer Bills
50	Form: F-18.11	Number of Pending Service Connection Applications

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: F-1

Summary of Annual Revenue Requirement

S. No.	Item	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)
		(Actuals/Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April March)	Projected	Projected	Projected
	<b>Expenditure</b>							
1	Power Purchase Expenses							
2	Transmission Charges							
3	NLDC/RLDC/SLDC Charges							
4	O&M expenses							
4.1	Employee Expenses							
4.2	Administration & General Expenses							
4.3	Repair & Maintenance Expenses							
5	Interest charges							
6	Lease Charges							
7	Depreciation							
8	Interest on Working Capital							
	<b>Gross Expenditure</b>							
	<b>Less: Expense Capitalization</b>							
1	Interest capitalized							
	<b>Total Expense Capitalization</b>							
	<b>Other Expenses / Appropriations</b>							
1	Provision for Bad & Doubtful Debts							
2	Return on Equity							
	<b>Net Expenditure</b>							
1	Less: Non Tariff Income							
2	Less: Income from wheeling charges							
3	Less: Income from Other Business (Section 51 of EA, 2003)							
4	Less: Receipt on account of Cross Subsidy Surcharge							
5	Less: Receipt on account of additional surcharge on charge of wheeling							
	Less: Any revenue or subsidy grant received from the State Government other than the subsidy under Section 65 of the Electricity Act, 2003.							
	<b>Net Annual Revenue Requirement</b>							

Note:  
 n= FY 2012-13

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_  
 Form F-2.1  
 Customer Sales Forecast  
 Previous Year (n-1)

(MU)

Consumer Category & Consumption Slab	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
HT													
Category-1													
Slab-1													
Slab-2													
...													
Category-n													
LT													
Category-1													
Slab-1													
Slab-2													
...													
Category-n													
Total													

(Licensees are expected to provide the details for the customer categories applicable to their business)

Current Year (n)

(MU)

Consumer Category & Consumption Slab	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
HT													
Category-1													
Slab-1													
Slab-2													
...													
Category-n													
LT													
Category-1													
Slab-1													
Slab-2													
...													
Category-n													

Ending Year (n+1)

(MU)

Consumer Category & Consumption Slab	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
HT													
Category-1													
Slab-1													
Slab-2													
...													
Category-n													
LT													
Category-1													
Slab-1													
Slab-2													
...													
Category-n													
Total													

Past Sales Data

Consumer Category & Consumption Slab	n-4	n-3	n-2	n-1	n	5 Year CAGR
HT						
Category-1						
Slab-1						
Slab-2						
...						
Category-n						
LT						
Category-1						
Slab-1						
Slab-2						
...						
Category-n						
Total						

**NAME**

[illegible]

**Ensuing Year (n+3)**

**(M)**

[illegible]

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: F-2.2

No of Consumers Forecast  
 Previous Year (n-1)

Past load Data

Consumer Category & Consumption Slab	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	n	5 Year CAGR
HT														
Category-1														
Slab - 1														
Slab - 2														
....														
Category-n														
LT														
Category-1														
Slab - 1														
Slab - 2														
....														
Category-n														
Total														

(Licensees are expected to provide the details for the customer categories applicable to their business)

Current Year (n)

Consumer Category & Consumption Slab	Apr	May	Jun	Jul	Aug	Sep				March
HT										
Category-1										
Slab - 1										
Slab - 2										
....										
Category-n										
LT										
Category-1										
Slab - 1										
Slab - 2										
....										
Category-n										
Total										

MYT Control Period

Consumer Category & Consumption Slab	End of (n + 1)	End of (n + 1)	End of (n + 1)	End of (n + 1)
HT				
Category-1				
Slab - 1				
Slab - 2				
....				
Category-n				
LT				
Category-1				
Slab - 1				
Slab - 2				
....				
Category-n				
Total				

Name of Distribution Licensee  
 Licensed Area of Supply  
 Form: F-2.3

Load Forecast

Previous Year (n-1)

Consumer Category & Consumption Slab	Unit	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
HT	MW/MVA/ BHP												
Category-1													
Slab - 1													
Slab - 2													
....													
Category-n													
LT													
Category-1													
Slab - 1													
Slab - 2													
....													
Category-n													
Total (converted in MW)													

(Licensees are expected to provide the details for the customer categories applicable to their business)

Past load Data

Consumer Category & Consumption Slab	n-4	n-3	n-2	n-1	n	5 Year CAGR
HT						
Category-1						
Slab - 1						
Slab - 2						
....						
Category-n						
LT						
Category-1						
Slab - 1						
Slab - 2						
....						
Category-n						
Total (converted in MW)						

Current Year (n)

Consumer Category & Consumption Slab	Unit	Apr	May	Jun	Jul	Aug	Sep	March
HT	MW/MVA/ ... BHP							
Category-1								
Slab - 1								
Slab - 2								
....								
Category-n								
LT								
Category-1								
Slab - 1								
Slab - 2								
....								
Category-n								
Total (converted in MW)								

Ensuing Year (n+1)

Consumer Category & Consumption Slab	Unit	End of (n + 1)	End of (n + 1)	End of (n + 1)
HT	MW/MVA/ ... BHP			
Category-1				
Slab - 1				
Slab - 2				
Category-n				
LT				
Category-1				
Slab - 1				
Slab - 2				
....				
Category-n				
Total (converted in MW)				



Name of Distribution Licensee  
 Licensed Area of Supply

Form: F-2.4  
 Distribution Losses

Previous Year (n-1)

(MU)

S. No.	Voltage Level	Energy Input	Energy Sent to lower network	Direct Sale	Total Output	Total Losses	Total Losses (% of Energy Input)	Total Technical Loss	Total Losses (% of Energy Input)	Total Commercial Loss	Total Losses (% of Energy Input)

Current Year (n)

(MU)

S. No.	Voltage Level	Energy Input	Energy Sent to lower network	Direct Sale	Total Output	Total Losses	Total Losses (% of Energy Input)	Total Technical Loss	Total Losses (% of Energy Input)	Total Commercial Loss	Total Losses (% of Energy Input)

Ensuing Year (n+1)

(MU)

S. No.	Voltage Level	Energy Input	Energy Sent to lower network	Direct Sale	Total Output	Total Losses	Total Losses (% of Energy Input)	Total Technical Loss	Total Losses (% of Energy Input)	Total Commercial Loss	Total Losses (% of Energy Input)

Ensuing Year (n+2)

(MU)

S. No.	Voltage Level	Energy Input	Energy Sent to lower network	Direct Sale	Total Output	Total Losses	Total Losses (% of Energy Input)	Total Technical Loss	Total Losses (% of Energy Input)	Total Commercial Loss	Total Losses (% of Energy Input)

Ensuing Year (n+3)

(MU)

S. No.	Voltage Level	Energy Input	Energy Sent to lower network	Direct Sale	Total Output	Total Losses	Total Losses (% of Energy Input)	Total Technical Loss	Total Losses (% of Energy Input)	Total Commercial Loss	Total Losses (% of Energy Input)

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: F-2.5

Energy Distribution

Previous Year (n-1)

Source of Power (Station wise)	Installed Capacity	Utility share (%)	Utility share (MW)	Energy Available from the station (MWh)	Energy Sent Out (ESCO) from the station (MWh)	Inter-Station Transmission Losses (%)	Units received at State periphery (MWh)	Intra-State Transmission Losses (%)	Energy Available at Distribution periphery	Remark
Station/Source 1										
Station/Source 2										
Total										

Current Year (n)

Source of Power (Station wise)	Installed Capacity	Utility share (%)	Utility share (MW)	Energy Available from the station (MWh)	Energy Sent Out (ESCO) from the station (MWh)	External Losses (%)	Units received at periphery (MWh)	Remark
Station/Source 1								
Station/Source 2								
Total								

Bidding Year (n+1)

Source of Power (Station wise)	Installed Capacity	Utility share (%)	Utility share (MW)	Energy Available from the station (MWh)	Energy Sent Out (ESCO) from the station (MWh)	External Losses (%)	Units received at periphery (MWh)	Remark
Station/Source 1								
Station/Source 2								
Total								

Bidding Year (n+2)

Source of Power (Station wise)	Installed Capacity	Utility share (%)	Utility share (MW)	Energy Available from the station (MWh)	Energy Sent Out (ESCO) from the station (MWh)	External Losses (%)	Units received at periphery (MWh)	Remark
Station/Source 1								
Station/Source 2								
Total								

Bidding Year (n+3)

Source of Power (Station wise)	Installed Capacity	Utility share (%)	Utility share (MW)	Energy Available from the station (MWh)	Energy Sent Out (ESCO) from the station (MWh)	External Losses (%)	Units received at periphery (MWh)	Remark
Station/Source 1								
Station/Source 2								
Total								

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: F-2.6  
 Availability of Power

(In MUs)\*

Current Year (n)

Source* Month	Source 1	Source 2	Source 3	...	...	...	Source n	Total availability
April								
May								
June								
July								
August								
September								
October								
November								
December								
January								
February								
March								
Total								

Ensuing Year (n+1)

Source* Month	Source 1	Source 2	Source 3	...	...	...	Source n	Total availability
April								
May								
June								
July								
August								
September								
October								
November								
December								
January								
February								
March								
Total								

(In MUs)\*

Ensuing Year (n+2)		(In MUs)*					
Source*	Month	Source 1	Source 2	Source 3	...	...	Total availability
	April						
	May						
	June						
	July						
	August						
	September						
	October						
	November						
	December						
	January						
	February						
	March						
	Total						

Ensuing Year (n+3)		(In MUs)*					
Source*	Month	Source 1	Source 2	Source 3	...	...	Total availability
	April						
	May						
	June						
	July						
	August						
	September						
	October						
	November						
	December						
	January						
	February						
	March						
	Total						

\*The utility shall provide data in the above format for each month of the estimated period of the current year and the ensuing year regarding each source.

\*Any peaking capacity contracted from a station in the format above to be specifically identified through foot-notes in the format and in the basis note as well.

Attach supporting documents for each of the entries made including the following:

A copy of each power purchase and/or transmission/wheeling charges agreement.

Copies of bills of energy and/or transmission/wheeling charges for last 12 months for all companies/State Electricity Boards which supply power along with details of billing disputes, if any.

Assumptions made, if any, should be clearly indicated in a basis note in the petition.

Form: F-2.7

Detail of UI Charge and Additional UI Charge Payable/Receivable for Overdrawal/Underdrawal from Central Generating Stations

Previous Year (n-1)

Month	Overdrawals during										Underdrawals		Total Receivable (Rs. Cr.)	Total UI charges Payable (Rs. Cr.)	Total Additional UI charges Payable (Rs. Cr.)	Net Receivable/Payable
	Below 49.20			Below 49.50 and upto 49.20				49.50-50.20								
	MU.	UI Charge	Additional UI Charge	MU	UI Charge	Additional UI Charge	MU	UI Charge								
April																
May																
June																
July																
August																
September																
October																
November																
December																
January																
February																
March																
Total for the year																

Current Year (n)

Month	Overdrawals during								Underdrawals		Total Receivable (Rs. Cr.)	Total UI charges Payable (Rs. Cr.)	Total Additional UI charges Payable (Rs. Cr.)	Net Receivable/Payable
	Below 49.20				Below 49.50 and upto 49.20				49.50-50.20					
	MU Charge	UI Charge	Additional UI Charge	MU	UI Charge	Additional UI Charge	MU	UI Charge	MU	UI Charge				
April														
May														
June														
July														
August														
September														

Attach supporting documents for each of the entries made.  
Assumptions made, if any, should be clearly indicated at appropriate places.

Name of Distribution Licensee  
 Licensed Area of Supply  
 Form: F-2.8

Energy Balance  
 Previous Year (n - 1)

(in MUs)\*

Month* Source	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
Sources of Power													
UVNL													
CCS													
IPP													
Others including Banking (Pls Specify each major source)													
UI													
Total Power Available for Sale or Energy Input													
Energy Sales within the State													
LT													
HT													
Total Sales within the State													
Distribution Loss (MU)													
Distribution Loss (%)													
Intra-State Transmission Losses (%)													
Intra-State Transmission Losses (MU)													
Energy Requirement at State Periphery													

Current Year (n)

(in MUs)\*

Month* Particulars	Apr	May	June	July	Aug	Sep	Oct - Mar Estimates	Total
Sources of Power								
UVNL								
CCS								
IPP								
Others including Banking (Pls Specify each major source)								
UI								
Total Power Available for Sale or Energy Input								
Energy Sales within the State								
LT								
HT								
Total Sales within the State								
Distribution Loss (MU)								
Distribution Loss (%)								
Intra-State Transmission Losses (%)								
Intra-State Transmission Losses (MU)								
Energy Requirement at State Periphery								

Control Period	(in MUs)*			
	Year	n+1	n+2	n+3
Particulars				Total
Sources of Power				
UJVNL				
CGS				
IPP				
Others including Banking (2% Specify each major source)				
UI				
Total Power Available for Sale or Energy Input				
Energy Sales within the State				
LT				
HT				
Total Sales within the State				
Distribution Loss (MU)				
Distribution Losses (%)				
Intra-State Transmission Losses (%)				
Intra-State Transmission Losses (MU)				
Energy Requirement at State Periphery				

The utility shall provide data in the above format for each month of the estimated period of the current year and the ensuing year regarding each source.

\*Any peaking capacity contracted from a station in the format above to be specifically identified through foot-notes in the format and in the basis note as well.

Attach supporting documents for each of the entries made including the following:

- A copy of each power purchase and/or transmission/wheeling charges agreement.
- Copies of bills of energy and/or transmission/wheeling charges for last 12 months for all companies along with details of billing disputes, if any.
- Assumptions made, if any, should be clearly indicated in a basis note in the petition.

Name of Distribution Licensee  
Licensed Area of Supply

Format for Distribution

Form: F-2.9

Power Purchase Expenses

Previous Year (n-1)

Source of Power (Station wise)	Total Annual Fixed charges (Rs Crore)	Capacity Charges paid/ payable by Utility (Rs Crore)	Variable Cost per unit including Fuel Price Adjustment (Rs/kWh)	Total Variable Charges (Rs Crore)	Any Other Charges (Please specify the type of charges)	Total Cost of Energy Received (Rs Crore)	Avg cost of energy received at State periphery (Rs/kWh)	Avg cost of energy received at Distribution periphery (Rs/kWh)
Station/Source 1								
Station/Source 2								
....								
....								
Station/Source n								
Total								

Current Year (n)\*

Source of Power (Station wise)	Total Annual Fixed charges (Rs Crore)	Capacity Charges paid/ payable by Utility (Rs Crore)	Variable Cost per unit including Fuel Price Adjustment (Rs/kWh)	Total Variable Charges (Rs Crore)	Any Other Charges (Please specify the type of charges)	Total Cost of Energy Received (Rs Crore)		Avg cost of energy received (Rs/kWh)
Station/Source 1								
Station/Source 2								
Total								

\* Provide separately for actuals for first half of the current year and estimates for second half of the current year

Ensuing Year (n+1)

Source of Power (Station wise)	Total Annual Fixed charges (Rs Crore)	Capacity Charges paid/ payable by Utility (Rs Crore)	Variable Cost per unit including Fuel Price Adjustment (Rs/kWh)	Total Variable Charges (Rs Crore)	Any Other Charges (Please specify the type of charges)	Total Cost of Energy Received (Rs Crore)		Avg cost of energy received (Rs/kWh)
Station/Source 1								
Station/Source 2								
Total								

Ensuing Year (n+2)

Source of Power (Station wise)	Total Annual Fixed charges (Rs Crore)	Capacity Charges paid/ payable by Utility (Rs Crore)	Variable Cost per unit including Fuel Price Adjustment (Rs/kWh)	Total Variable Charges (Rs Crore)	Any Other Charges (Please specify the type of charges)	Total Cost of Energy Received (Rs Crore)		Avg cost of energy received (Rs/kWh)
Station/Source 1								
Station/Source 2								
Total								

Ensuing Year (n+3)

Source of Power (Station wise)	Total Annual Fixed charges (Rs Crore)	Capacity Charges paid/ payable by Utility (Rs Crore)	Variable Cost per unit including Fuel Price Adjustment (Rs/kWh)	Total Variable Charges (Rs Crore)	Any Other Charges (Please specify the type of charges)	Total Cost of Energy Received (Rs Crore)		Avg cost of energy received (Rs/kWh)
Station/Source 1								
Station/Source 2								
Total								



Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: P-3

Details of Transmission and Load Dispatch Charges

(Figures in Rs Crore)

S.No.	Item	Previous Year (n-1) (Actuals / Audited)	Current Year (n)			Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected	Remarks
			Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)				
1	PGCIL Transmission Charges								
2	PTCUI Transmission Charges								
3	SLDC Charges								
4	NRLDC Charges								
	Net charged to Revenue								

Form: F-4

### Operations and Maintenance Expenses

(Figures in Rs Crore)

[illegible]

**Form: F-4.1**

**Employee Expenses**

(Bl. Crore)

[illegible]

### 7. Details of number of employees

[illegible]

(Rs. Crore)

### Repair & Maintenance Expenditure

<b>Form: F-4.7</b>							
<b>Repair &amp; Maintenance Expenditure</b>							
S. No.	Particulars	Previous Year (n-6) (Actuals / Audited)	Previous Year (n-5) (Actuals / Audited)	Previous Year (n-4) (Actuals / Audited)	Previous Year (n-3) (Actuals / Audited)	Previous Year (n-2) (Actuals / Audited)	Current Year (n)      Ensuing Year (n+1)      Ensuing Year (n+2)      Ensuing Year (n+3)
							Oct-Mar (Estimated)
							Apr-Sep (Actual)
							Total (April - March)
1	Plant and Machinery						
2	Building						
3	Civil Works						
4	Hydraulic Works						
5	Lines, Cables Net Works etc.						
6	Vehicles						
7	Furniture and Fixtures						
8	Office Equipments						
9	Station Supplies						
10	Other Credits to R&M Charges						
	<b>Total (1 to 10)</b>						

Name of Distribution Licensee  
Licensed Area of Supply

Form F-4.3

Administration & General Expenses

Administration & General Expenses															Rs. Crore	
S. No	Particulars	Previous Year (n-6)	Previous Year (n-5)	Previous Year (n-4)	Previous Year (n-3)	Previous Year (n-2)	Previous Year (n-1)	Current Year (n)			Ending Year (n-2)	Ending Year (n-3)	Remarks			
		(Actuals / Audited)	(Actuals / Audited)	(Actuals / Audited)	(Actuals / Audited)	(Actuals / Audited)	(Actuals / Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April-March)	Projected	Projected				
A. Administrative Expenses																
1	Rent rates and taxes															
	Lease / Rent															
	Rates & Taxes															
2	Insurance															
3	Revenue Stamp Expenses Account															
4	Telephone, Postage, Telegram & Telex Charges															
5	Incentive & Award To Employees/Outsiders															
6	Consultancy Charges															
7	Technical Fees															
8	Other Professional Charges															
9	Conveyance And Travelling															
10	License And Registration Fee Of Plant And Machinery Vehicles															
11	Vehicle Expenses (Other Than Trucks And Delivery Vans)															
12	Security / Service Charges Paid To Outside Agencies															
	Sub-Total 'A' (1 To 12)															
8	Other Charges															
1	Fee And Subscriptions Books And Periodicals															
2	Printing And Stationery															
3	Advertisement Expenses (Other Than Purchase Related)															
4	Contributions/Donations To Outside Institutes / Associations															
5	Electricity Charges To Offices															
6	Water Charges															
7	Entertainment Charges															
8	Miscellaneous Expenses															
	Sub-Total 'B' (1 To 8)															
C. Legal Charges																
D	Auditor's Fee															
E. Material Related Expenses																
1	Freight On Capital Equipments															
2	Purchase Related Advertisement Expenses															
3	Vehicle running and hiring expenses (Truck/ Delivery Van)															
4	Other Freight															
5	Transit Insurance															
6	Octroi															
7	Incidental Stores Expenses															
8	Fabrication Charges															
	Sub-Total 'E' (1 To 8)															
F. Grand Total (A To E)																
G	A&G expenses capitalised															
H	Net A&G Expenses (F - G)															

Name of Distribution Licensee  
Licensed Area of Supply

Form: F-5.1  
Statement of Gross Fixed Asset Base & Financing Plan

Final Approved Cost as on Commercial Operations Date

Description of the Project	Capital Expenditure	Date of Capitalisation
(a) Project-1		(DD/MM/YY)
(b) Project-2		(DD/MM/YY)
(c) Project-3		(DD/MM/YY)
(c) Project-4		(DD/MM/YY)
(c) Project-5 etc.*		(DD/MM/YY)

Original Financing Plan (Project-wise)

Rupee Term Loan	
Debt 1	
Debt 2 *	
Foreign Currency Loan	
Debt 1	
Debt 2 *	
Equity	
In Rupees	
In Foreign Currency	
Capital Grant/Capital Subsidy	
Consumer Contribution	

Previous year (n-1) (Figures in Rs Crore)

Particulars of Assets	Opening balance	Additions during the year*	Retirement of assets during the year* Oct-Mar (Estimated)	Closing balance
a) Land				
b) Building				
c) and so on (As per categorisation given in the Regulations)				
Total				

Current Year (n)

Particulars of Assets	Opening Balance	Additions of assets during the year* Apr-Sep (Actual)	Retirement of assets during the year* Oct-Mar (Estimated)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Closing balance
a) Land						
b) Building						
c) and so on (As per categorisation given in the Regulations)						
Total						

(Figures in Rs Crore)

Licensed Area of Supply

Form: F-5.1  
Statement of Gross Fixed Asset Base & Financing Plan

(Figures in Rs Crore)

Ensuing year (n +1)	Particulars of Assets	Opening balance	Additions during the year <sup>a</sup>	Retirement of assets during the year <sup>a</sup>	Closing balance
a) Land					
b) Building					
c) and so on (As per categorisation given in the Regulations)					
Total					

(Figures in Rs Crore)

Ensuing year (n +2)	Particulars of Assets	Opening balance	Additions during the year <sup>a</sup>	Retirement of assets during the year <sup>a</sup>	Closing balance
a) Land					
b) Building					
c) and so on (As per categorisation given in the Regulations)					
Total					

(Figures in Rs Crore)

Ensuing year (n +3)	Particulars of Assets	Opening balance	Additions during the year <sup>a</sup>	Retirement of assets during the year <sup>a</sup>	Closing balance
a) Land					
b) Building					
c) and so on (As per categorisation given in the Regulations)					
Total					

\* Please provide Actual / Proposed Dates of Addition and Retirement of Fixed Assets during the year

Name of Distribution Licensee  
Licensed Area of Supply

Form: F- 5.2  
Statement of Asset wise Depreciation

(Figures in Rs Crore)					
Previous year (n-1)					
Particulars of Assets	Rate of Depreciation In %	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year	Balance of accumulated depreciation at the end of the year
a) Land					
b) Building					
c) and so on (As per categorisation given in the Regulations)					
Total					

(Figures in Rs Crore)					
Current Year (n)					
Particulars of Assets	Rate of Depreciation In %	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year		Balance of accumulated depreciation at the end of the year
			Apr-Sep (Actual)	Oct-Mar (Estimated)	
a) Land					
b) Building					
c) and so on (As per categorisation given in the Regulations)					
Total					

(Figures in Rs Crore)					
Ensuing year (n +1)					
Particulars of Assets	Rate of Depreciation In %	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year	Balance of accumulated depreciation at the end of the year
a) Land					
b) Building					
c) and so on (As per categorisation given in the Regulations)					
Total					



**Form: F-5.2**  
**Statement of Asset wise Depreciation**

(Figures in Rs Crores)						
Ensuing year (n +3)	Particulars of Assets	Rate of Depreciation in %	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year	Balance of accumulated depreciation at the end of the year
	a) Land					
	b) Building					
	c) and so on (As per categorisation given in the Regulations)					
						</

**Form: F- 5.3**  
**Statement of Depreciation**

[illegible]

Name of Distribution Licensee  
Licensed Area of Supply

Form: F-5.4

Contributions, Grants and subsidies towards Cost of Capital Assets

(Figures in Rs)

S. No.	Source	Previous Year (n-1) (Actuals / Audited)	Current Year (n)			Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected	Remarks
			Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)				
1	Consumer Contribution Towards Cost Of Capital Assets								
	Sub-Total								
1	Subsidies Towards Cost Of Capital Assets								
2	Grant Towards Cost Of Capital Assets								
	Sub-Total								
	Total								

Name of Distribution Licensee \_\_\_\_\_

Licensed Area of Supply \_\_\_\_\_

Format for Distribution

**Form: F- 6.1**  
**Statement of Capital Expenditure**

(Figures in Rs Crore)

Particulars	FY of COD	Previous Year (n-1) Actual / Audited	Current Year (n)			Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected	Remarks+	Total Expenditure Approved by Competent Authority	Total Expenditure Actually Incurred	Remarks++
			Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April- March)							
<b>A) Expenditure Details</b>												
a) Land												
b) Building												
c) Major Civil Works												
d) Plant & Machinery												
e) Vehicles												
f) Furniture and Fixtures												
g) Office Equipment & Others												
<b>Total (A)</b>												
<b>B) Break up of sources of financing</b>												
Rupee term Loan												
Debt 1												
Debt 2												
....												
Foreign Currency Loan												
Debt 1												
Debt 2												
....												
Equity												
In Rupees												
In Foreign Currency												
c) Others (Please specify)												
Capital Grants/Subsidy												
Consumer Contribution												
<b>Total (B)</b>												

**Note:**

- i) The break up wherever required and necessary may be given in respect of Loans and Equity financing supported with respective documentation.  
 ii) Copies of Approval from competent authorities may be furnished in respect of cost of project, its components and scheme of finance.  
 iii) Remarks+: Explain for the causes of deviation if the actual expenditure during the current year is expected to be different from that approved by UERC or other authorised agencies  
 iv) Remarks++: Explain for the causes of deviation if the total actual expenditure is different from that approved by UERC or the authorised agencies

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Format for Distribution

**Form: F-6.2**

**Statement of Capital Works-in-Progress**

S. No	Particulars	Year 1	Previous Year (n-1)		Current Year (n)			Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected	Remarks
			Actual / Audited		Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)				
1	Opening balance of CWIP										
2	Add: New Investment										
	Capital Expenditure										
	Expenses Capitalised										
	Interest During Construction										
3	Less: Investment Capitalised										
4	Closing balance of CWIP										

Name of Distribution Licensee \_\_\_\_\_

Licensed Area of Supply \_\_\_\_\_

Form: F- 6.3

## Details of Capital Cost and Financing Structure

Year ending March	FY of COD	Previous Year (n-1)		Current Year (n)			Ensuing Year (n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)	Remarks
		Actual / Audited	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected	Projected	Projected		
Basic Project Financial Parameters										
Capital Cost*										
Addition during the year										
Deletion during the year										
Gross Capital Cost (A)										
Equity against Original Project Cost										
Addition during the year										
Equity Sub-Total (B)										
Debt outstanding against the original Capital cost										
New Loans added during the year										
Debt Sub-Total (C)										
Grants against original project cost										
Addition during the year										
Grants Sub-Total (D)										
Total Financing (B+C+D)										

## Note :

- i) \*Approved or Actual Capital Cost whichever is less.  
 ii) The equity and loan shall be divided into foreign and domestic component if applicable.

Format for Distribution

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

**Form: F- 7.1**  
**Details of Financial Packages**

Source of Funds	Amount in FC (Name of Currency)	Exchange Rate (Rs./FC)	Amount in Indian Currency (Rs. in Crore)	Terms of Repayment (Years)	Grace Period (Years)	Interest Rate / Return on Equity (%)	Guarantee Commission (Rs. in Crore)	Upfront Fees/ Exposure Premium (Rs. in Crore)	% of Total Debt (%)	% of Total Equity (%)	% of Total PC (%)
(A) Debt											
Foreign:											
Loan I											
Loan II											
Loan III											
Loan IV etc.											
Indian:											
Loan I											
Loan II etc.											
Total Loan (A)											
(B) Equity											
Foreign:											
Indian:											
Total Equity(B)											
(C) Grants											
Foreign:											
Indian:											
Total Grant (C)											
Total Financing (A+B+C)											
Total Project Cost											

**Note:**

- (i) In case of schemes capitalised Financial package details, as admitted by the Competent Authority on Capitalisation of the Schemes shall be furnished in the Format
- (ii) In case of schemes which are yet to be capitalised: Financial package details, as approved by the Competent Authority, shall be furnished in the Format alongwith
- (iii) FC- Foreign Currency
- (iii) PC- Project Cost

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Format for Distribution

Form: F-7.2

Draw Down Schedule for Calculation of IDC & Financing Charges

(Figures in Rs Crore)										
Sl. No.	Draw Down	Quarter 1			Quarter 2			Quarter n (COD)		
	Particulars	Quantum in Foreign Currency	Exchange Rate on Draw Down Date	Amount in Indian Rupee	Quantum in Foreign Currency	Exchange Rate on Draw Down Date	Amount in Indian Rupee	Quantum in Foreign Currency	Exchange Rate on Draw Down Date	Amount in Indian Rupee
1	Loans									
1.1	Foreign Loans									
1.1.1	Foreign Loan 1									
	Draw Down Amount									
	IDC									
	Financing Charges									
	FERV									
	Hedging Cost									
1.1.2	Foreign Loan 1									
	Draw Down Amount									
	IDC									
	Financing Charges									
	FERV									
	Hedging Cost									
1.1.n	Foreign Loan n									
	Draw Down Amount									
	IDC									
	Financing Charges									
	FERV									
	Hedging Cost									
1.1	Total Foreign Loans									
	Draw Down Amount									
	IDC									
	Financing Charges									
	FERV									
	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.n	Indian Loan n									
	Draw Down Amount									
	IDC									
	Financing Charges									
1.2	Total Indian Loans									
	Draw Down Amount									
	IDC									
	Financing Charges									
1	Total of Loans Drawn									
	IDC									
	Financing Charges									
	FERV									
	Hedging Cost									
2	Equity									
2.1	Foreign Equity Drawn									
2.2	Indian Equity Drawn									
2	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 beginning is permissible.  
 2. Applicable Interest Rates including reset dates used for computation may be furnished separately.  
 3. In case of Multi Unit Project, details of Capitalisation ratio used to be furnished



Name of Distribution License \_\_\_\_\_  
Licensed Area of Supply \_\_\_\_\_

Form: F- 7.3  
Statement of Outstanding Loans

Format for Distribution

Previous year (n-1)

[illegible]

Current Year (n)

[illegible]

Ensuing year (n+1)

[illegible]

Ensuing year (n+2)									
Loan Agency (Source of loan)	Rate of Interest (%)	Repayment period (Years)	Balance at the beginning of the year	Amount to be received during the year	Principal due during the year	Principal to be redeemed during the year	Principal Overdue at the year end	Principal Due at the year end	Remarks
	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(6)-(7)	(9)=(4)+(8)-(5)	(10)
A. Other than state government									
Loan 1 (Name of lender)									
Loan 2 (Name of lender)									
Loan 3 (Name of lender), etc.									
Sub-Total (A)									
B. Government Loans									
Type 1									
Type 2									
Type 3 etc.									
Sub-Total (B)									
Sub-Total (A+B)									
C. Normative Loans									
TOTAL (A+B+C)									

Ensuing year (n+3)									
Loan Agency (Source of loan)	Rate of Interest (%)	Repayment period (Years)	Balance at the beginning of the year	Amount to be received during the year	Principal due during the year	Principal to be redeemed during the year	Principal Overdue at the year end	Principal Due at the year end	Remarks
	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(6)-(7)	(9)=(4)+(8)-(5)	(10)
A. Other than state government									
Loan 1 (Name of lender)									
Loan 2 (Name of lender)									
Loan 3 (Name of lender), etc.									
Sub-Total (A)									
B. Government Loans									
Type 1									
Type 2									
Type 3 etc.									
Sub-Total (B)									
Sub-Total (A+B)									
C. Normative Loans									
TOTAL (A+B+C)									

Notes: i) @ - In case rescheduling of any loan has been undertaken, the terms of rescheduling to be specified clearly, through an attachment alongwith copy of the letter from the Lender outlining the terms of Re-scheduling.

ii) The original Financing Plan and the cumulative repayment as per the Original Financing Plan to be outlined for each Loan.

iii) For current year, Loans already drawn and the loan proposed to be drawn by end of year to be shown separately.

iv) Any new loan from existing or new lenders to be identified separately as a Loan.

v) In case of Foreign Currency Loans, data to be provided in the currency of borrowing alongwith the name of the currency.

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Format for Distribution

Form: F- 7.4

**Calculation of Weighted Average Interest Rate of Interest on Actual Loans \***

(Figures in Rs Crore)					
S.No.	Particulars	Existing 2011-12	2012-13	2013-14	2014-15
(1)	(2)	(3)	(4)	(5)	(6)
	<b>Loan 1</b>				
	Gross Loan - Opening				
	Cummulative payments of Loan upto Previous Year				
	Net Loan - Opening				
	Add: Drawl(s) during the year				
	Less: Repayment(s) of Loan during the year				
	Net Loan - Closing				
	Average Net Loan				
	Rate of Interest on Loan on Annual Basis				
	Interest on Loan				
	<b>Loan 2</b>				
	Gross Loan - Opening				
	Cummulative payments of Loan upto Previous Year				
	Net Loan - Opening				
	Add: Drawl(s) during the year				
	Less: Repayment(s) of Loan during the year				
	Net Loan - Closing				
	Average Net Loan				
	Rate of Interest on Loan on Annual Basis				
	Interest on Loan				
	<b>Loan n</b>				
	Gross Loan - Opening				
	Cummulative payments of Loan upto Previous Year				
	Net Loan - Opening				
	Add: Drawl(s) during the year				
	Less: Repayment(s) of Loan during the year				
	Net Loan - Closing				
	Average Net Loan				
	Rate of Interest on Loan on Annual Basis				
	Interest on Loan				
	<b>Total Loan</b>				
	Gross Loan - Opening				
	Cummulative payments of Loan upto Previous Year				
	Net Loan - Opening				
	Add: Drawl(s) during the year				
	Less: Repayment(s) of Loan during the year				
	Net Loan - Closing				
	Average Net Loan				
	Rate of Interest on Loan on Annual Basis				
	Interest on Loan				
	<b>Weighted Average Rate of Interest on Loans</b>				

\* In case of Foreign Loans, the calculation in Indian Rupee is to be furnished. However, the calculation in Original currency is also to be furnished separately in the same format

Name of Distribution Licensee  
 Licensed Area of Supply

**Form: F- 7.5**  
**Calculation of Interest on Normative Loan**

(Figures in Rs Crore)

Particulars	Existing 2011-12	2012-13	2013-14	2014-15
(1)	(2)	(3)	(4)	(5)
Gross Normative Loan - Opening				
Cumulative payments of Normative Loan upto Previous Year				
Net Normative Loan - Opening				
Increase or Decreasedue during the year				
Less: Repayment of Normative Loan during the year				
Net Normative Loan - Closing				
Average Normative Loan				
Weighted Average Rate of Interest on Actual Loan on Annual Basis				
Interest on Normative Loan				

Format for Distribution

Name of Distribution Licensee  
Licensed Area of Supply

Form: F-8

## Details of Interest on Working Capital

S. No.	Item	Previous Year (n-1) (Actuals / Audited)	Current Year (n)			Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected	Remarks
			Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)				
1	O&M expenses (equivalent to 1 month)								
2	Maintenance Spare (15% of operation and maintenance expenses)								
3	Receivables (Two months of consumers bills)								
	Less:								
4	Adjustments held as security deposit								
5	One month equivalent of cost of power purchased								
6	Working Capital Requirement								
7	Interest Rate (State Bank Advance Rate (SBAR))								
8	Interest on Working Capital								

Format for Distribution

Name of Distribution Licensee  
Licensed Area of Supply

Form: F-9

## Provision for Bad Debts

Sl.No.	Item	Previous Year (n-1) (Actuals/Audited)	Current Year (n)			Ensuing Year (n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)
			Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected	Projected	Projected
1	Opening Balance of Receivables							
2	Total Provision Available at the beginning of the year							
3	Total % of Provisioning Available (2 / 1 x 100)							
4	Revenue Billed							
5	Provision for Bad Debts (1% of 4)							

\* Provision for Bad Debts to be considered only till S.No. 3 does not exceed 5.00%.

Name of Distribution Licensee  
 Licensed Area of Supply

Form: F-10

Return on Equity

(Figures in Rs Crore)

S.No.	Item	Previous Year (n-1) (Actuals / Audited)	Current Year (n)			Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected	Remarks
			Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April March)				
1	Equity at the beginning of the year								
2	Capital Expenditure								
3	Equity portion of capital expenditure								
4	Equity at the end of the year								
<b>Return Computation</b>									
5	Return on Equity on Opening Balance of Equity								

Format for Distribution

Name of Distribution Licensee  
 Licensed Area of Supply

Form: F-11

## Details of Non-Tariff Income

(Figures in Rs)

S.No.	Item	Previous Year (n-1) (Actuals / Audited)	Current Year (n)			Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected	Remarks
			Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)				
A)	Miscellaneous income from consumers								
1	Meter / service line rentals								
2	Misc. charges from consumers								
3	DPS								
	<b>Sub-Total (A)</b>								
B)	Other Miscellaneous Charges								
4	Income from Investments								
5	Sale of Apparatus and Scrap								
6	Wheeling Charges								
7	Income from Misc. receipts								
	<b>Sub-Total (B)</b>								
C)	Trading / UI								
8	Interstate sales / Grid Sale handling charge								
	<b>Total</b>								



Name of Distribution Licensee  
Licensed Area of Supply

**Format for Distribution**

Form: F-12

Income from Wheeling Charges

Previous Year (n-1)

[illegible]

Current Year (n)

[illegible]

Ensnung Year (n+1)

[illegible]

Ensuing Year (n+2)

[illegible]

Ensuing Year (n+3)

[illegible]

[illegible]

[illegible]



Forecasting Year ( $t+2$ )

[illegible]

[illegible]

Form: F-14

Revenue from Proposed Tariff for ensuing year

[illegible]

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: F-15

Collection Efficiency

S. No.	Particulars	Previous Year (n-1) (Actuals / Audited)	Current Year (n)			Ensnung Year (n+1) Projected	Ensnung Year (n+2) Projected	Ensnung Year (n+3) Projected	Remarks
			Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)				
	HT Category								
	Category-1								
	...								
	Category-n								
	LT Category								
	Category-1								
	....								
	Category-n								
	Total								

(Rs. Crore)



Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: F-16

**Summary of Truing Up**

Previous Year (n-1) for Final Truing Up

		(Rs. Crore)				
S. No	Particulars	Approved	Actual	Deviation	Reason for Deviation	Controllable
						Uncontrollable
1	Power Purchase Expenses					
2	Operation & Maintenance Expenses					
2.1	Employee Expenses					
2.2	Administration & General Expenses					
2.3	Repair & Maintenance Expenses					
3	Depreciation, including advance against depreciation					
4	Interest on Long-term Loan Capital					
5	Interest on Working Capital and on consumer security deposits					
6	Lease Charges					
7	Other Expenses (pls prepare details)					
8	Income Tax					
9	Transmission Charges paid to Transmission Licensee					
10	NLDC/RLDC/SLDC Charges					
11	Provision for Bad & Doubtful Debts					
	<b>Total Expenditure</b>					
<b>B</b>	<b>Return on Equity</b>					
<b>C</b>	<b>Revenue</b>					
1	Revenue from sale of electricity					
2	Other Income					

Note: Please give detailed explanation separately for the deviations on account of uncontrollable factors

Current Year (n) for Provisional Truing Up

(Rs. Crore)						
S.no.	Particulars	Approved	Actual	Deviation	Reason for Deviation	Controllable
						Uncontrollable
1	Power Purchase Expenses					
2	Operation & Maintenance Expenses					
2.1	Employee Expenses					
2.2	Administration & General Expenses					
2.3	Repair & Maintenance Expenses					
3	Depreciation, including advance against depreciation					
4	Interest on Long-term Loan Capital					
5	Interest on Working Capital and on consumer security deposits					
6	Lease Charges					
7	Other Expenses (pls prepare details)					
8	Income Tax					
9	Transmission Charges paid to Transmission Licensee					
10	NLDC/RLDC/SLDC Charges					
11	Provision for Bad & Doubtful Debts					
	Total Expenditure					
B	Return on Equity					
C	Revenue					
1	Revenue from sale of electricity					
2	Other Income					

Note: Please give detailed explanation separately for the deviations on account of uncontrollable factors

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: F-17.1

System Average Interruption Frequency Index (SAIFI)

Month	$A_i$ = Total No. of sustained interruptions (each longer than 5 minutes) on $i$ th Feeder for the month	$N_i$ = Connected Load of $i$ th Feeder affected due to each interruption	$N_t$ = Total Connected Load at 11 kV in the Distribution Licensee's Supply Area	$n$ = No. of 11 kV Feeders in the licensed area of supply (excluding those serving predominantly Agriculture loads)	SAIFI $\sum_{i=1}^n \frac{(A_i \times N_i)}{N_t}$
April					
May					
June					
July					
August					
September					
October					
November					
December					
January					
February					
March					
Total					

Note: 1. The feeders must be segregated into rural and urban and the value of the indices must be reported separately for each month.  
 2. The Indices shall be calculated as per Methodology specified in the UERC (Standards of Performance) Regulations, 2007

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: F-17.2

System Average Interruption Duration Index (SAIDI)

Month	$B_i$ = Total duration of all sustained interruptions on ith Feeder for the month	$N_i$ = Connected Load of ith Feeder affected due to each interruption	$N_i$ = Total Connected Load at 11 kV in the Distribution Licensee's Supply Area	n = No. of 11 kV Feeders in the licensed area of supply (excluding those serving predominantly Agriculture loads)	SAIDI $\sum_{i=1}^n \frac{(B_i \times N_i)}{N_i}$
April					
May					
June					
July					
August					
September					
October					
November					
December					
January					
February					
March					
Total					

Note: 1. The feeders must be segregated into rural and urban and the value of the indices must be reported separately for each month.

2. The Indices shall be calculated as per Methodology specified in the UERC (Standards of Performance) Regulations, 2007

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: F-17.3

### Momentary Average Interruption Frequency Index (MAIFI)

Month	$C_i$ = Total number of Momentary interruptions (each less than or equal to 5 minutes) on $i$ th Feeder for the month	$N_i$ = Connected Load of $i$ th Feeder affected due to each interruption	$N_i$ = Total Connected Load at 11 kV in the Distribution Licensees Supply Area	$n$ = No. of 11 kV Feeders in the licensed area of supply (excluding those serving predominantly Agriculture loads)	MAIFI $\sum_{i=1}^n \frac{(C_i \times N_i)}{N_i}$
April					
May					
June					
July					
August					
September					
October					
November					
December					
January					
February					
March					
Total					

Note: 1. The feeders must be segregated into rural and urban and the value of the indices must be reported separately for each month.  
 2. The Indices shall be calculated as per Methodology specified in the UERC (Standards of Performance) Regulations, 2007

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: F-18.1

**Shunt Capacitor Addition / Repair Program**

S.No.	Particulars	Capacity (MVAR)
<b>Capacitor Additions</b>		
1	Total Capacitors requirement at the end of Previous year	
2	Actual installed Capacitors at the end of Previous Year	
3	Backlog/shortfall at the end of previous year (1-2)	
4	Additional Requirement for the Current Year	
5	Total Capacity required to be added during the current year (3+4)	
6	Actual installed during first half of Current year	
7	Target for the 2nd half of Current year	
8	Total Capacitors likely to be added during Current Year (6+7)	
9	Total capacity likely to be available by the end of current year (2+8)	
10	Short fall if any (5-9)	
<b>Repair of Defective Shunt Capacitors</b>		
11	At the end of the end of previous year	
12	Net Capacity Available by the end of previous year (2-11)	
13	Capacitors damaged during 1st half of the current year	
14	Capacitors repaired during 1st half of the current year	
15	Net Capacity Available by the end of 1st half of the year (12-13+14)	
16	Target level of damaged capacitors by the end of current year	
17	Net Capacity Likely to be Available by the end of current year (9-16)	
18	Net Shortfall, by the end of the year (5-17)	

*The above statement is to be accompanied by a detailed note to outline the reasons thereof and measures taken/ planned for improvement.*

Name of Distribution License \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: F-18.2

Electrical Accidents

Type of Accident	No. of Accidents					
	Previous year			Current year		
	FATAL	NON FATAL	Total	FATAL	NON FATAL	Total
HUMAN						
ANIMAL						
Total						

The above statement is to be accompanied by a detailed note to outline the reasons thereof and measures taken/planned for improvement.

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: F-18.3

### Abstract of Outages due to feeder tripping

S. No.	Item	Previous Year			Current Year (Actual)		
		No. of feeders	No. of Trippings	Total Duration of Trippings (Hrs)	No. of feeders	No. of Trippings	Total Duration of Trippings (Hrs)
1	Feeder voltage Level 1						
2	Feeder voltage level 2						
3	Feeder voltage Level 3						
4	Average duration of interruption per feeder for voltage level 1						
5	Average duration of interruption per feeder for voltage level 2						
6	Average duration of interruption per feeder for voltage level 3						

Voltage levels for Distribution Licensee are 66kV, 33kV and 11kV

Average interruption per feeder = total duration of interruptions/(no. of feeders x no. of trippings)

The above statement is to be accompanied by a detailed note to outline the reasons thereof and measures taken/planned for improvement.



Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: F-18.4

Category wise Load Shedding carried out during the year

(In MU)

S. No.	Particulars	Category 1	Category 2	Category 3 etc.	Other Sales	Total
<b>Preceding Year</b>						
1	On SLDC's instructions (to control drawal)					
2	On SLDC's instructions (to avoid overloading in Transmission Licensee's network)					
3	On SLDC's instructions (due to low voltage in DPCL network)					
4	Due to outage in Transmission Licensee's network					
5	Due to outage in own network					
6	Due to outage in the network of some other Distribution Licensee					
7	Due to transmission constraints in Transmission Licensee's network					
8	To avoid overloading in own network					
9	To avoid overloading in the network of some other Distribution Licensee					
10	Any other reason					
	<b>Total for Previous Year</b>					
<b>Current Year (for period for which actual data is available)</b>						
1	On SLDC's instructions (to control drawal)					
2	On SLDC's instructions (to avoid overloading in Transmission Licensee's network)					
3	On SLDC's instructions (due to low voltage in DPCL network)					
4	Due to outage in Transmission Licensee's network					
5	Due to outage in own network					
6	Due to outage in the network of some other Distribution Licensee					
7	Due to transmission constraints in Transmission Licensee's network					
8	To avoid overloading in own network					
9	To avoid overloading in the network of some other Distribution Licensee					
10	Any other reason					
	<b>Total for Current Year</b>					

The statement to be furnished for the preceding year and period of actual available data for the current year.

Severe voltage fluctuations as well as rotating weekly offs should not be considered as load shedding.

The above statement is to be accompanied by a detailed note to outline the reasons thereof and measures taken/planned for improvement.

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: F-185

### Overloaded Feeders

Overloaded Feeders											
Sl. No.	Area	Previous Year						Current Year			
		No. of Feeders	Line length (ckt. km)	No. of feeders overloaded	Line length overloaded feeders (ckt. km)	% number of Overloaded Feeders in Area	% length of overloaded feeders in Area	No. of feeders overloaded	Line length overloaded feeders (ckt. km)	% number of Overloaded Feeders in Area	% length of overloaded feeders in Area
I	Circle 1										
A	66 kV										
	District 1										
	District 2										
	District 3										
	Sub-Total Circle 66 kV										
B	33 kV										
	District 1										
	District 2										
	District 3										
	Sub-Total Circle 33 kV										
C	11 kV										
	District 1										
	District 2										
	District 3										
	Sub-Total Circle 11 kV										
II	Circle 2										
A	66 kV										
	District 1										
	District 2										
	District 3										
	Sub-Total Circle 66 kV										
B	33 kV										
	District 1										
	District 2										
	District 3										
	Sub-Total Circle 33 kV										
C	11 kV										
	District 1										
	District 2										
	District 3										
	Sub-Total Circle 11 kV										
	Total for all Circles at 66 kV										
	Total for all Circles at 33 kV										
	Total for all Circles at 11 kV										

An equipment should be considered as overloaded only if it is carrying more than 110% of rated load for average 1 hour per day.

The information to be provided for the previous year and the actual period of the current year.  
 The above statement is to be accompanied by a detailed note to outline the reasons thereof and measures taken/planned for improvement.

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: F-18.6

### Failure of Transformers

Sl. No.	Item	Preceding Year			Current Year (Actual)		
		No. of Transformers	No. of failures	Total Duration of failure (Hrs.)	No. of Transformers	No. of failures	Total Duration of failure (Hrs.)
	Transformation ratio						
1	Transformation ratio 1						
2	Transformation ratio 2						
3	Transformation ratio 3						
4	Transformation ratio 4						
	Average duration of interruption						
5	Average duration of interruption per transformer for Transformation ratio 1						
6	Average duration of interruption per transformer for Transformation ratio 2						
7	Average duration of interruption per transformer for Transformation ratio 3						
8	Average duration of interruption per transformer for Transformation ratio 4						

Transformation ratios for Distribution Licensee are 66/33 kV, 66/11kV, 33/11kV and 11kV/400V.

The above statement is to be accompanied by a detailed note to outline the reasons thereof and measures taken/planned for improvement.

Format for Distribution

Name of Distribution Licensee  
 Licensed Area of Supply

Form: F-18.7

## Overloaded Distribution Transformers (DTRs)

S. No.	Area	Previous Year			Current Year		
		No. of DTRs in Area	No. of overloaded DTRs in area	% number of overloaded DTRs	No. of DTRs in Area	No. of overloaded DTRs in area	% number of overloaded DTRs
I	Circle 1						
A	33 kV						
	District 1						
	District 2						
	District 3						
	Sub-Total Circle 33 kV						
B	11 kV						
	District 1						
	District 2						
	District 3						
	Sub-Total Circle 11 kV						
II	Circle 2						
A	33 kV						
	District 1						
	District 2						
	District 3						
	Sub-Total Circle 33 kV						
B	11 kV						
	District 1						
	District 2						
	District 3						
	Sub-Total Circle 11 kV						
	Total for all Circles at 33 kV						
	Total for all Circles at 11 kV						

An equipment should be considered as overloaded only if it is carrying more than 110% rated load for average 1 hour per day.

The information to be provided for the previous year and the actual period of the current year.

The above statement is to be accompanied by a detailed note to outline the reasons thereof and measures taken/planned for improvement.

Format for Distribution

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: F-18.8

## Ageing Schedule of Receivables

		(As on 30th September of the current year)					(Rs. Crores)	
Sl. No.	Receivables	Receivables of Licensee with age#						
		< 6 months	6 mths to 1 year	1 to 2 years	2 to 3 years	3 to 4 years	>4 years	
1	Circle 1							
	- Category 1							
	- Category 2							
	- Category 3							
	- Category 4							
	- Category 5 etc.							
	Subtotal for the Circle							
2	Circle 2							
	- Category 1							
	- Category 2							
	- Category 3							
	- Category 4							
	- Category 5 etc.							
	Subtotal for the Circle							
Total								

The above statement is to be accompanied by a detailed note to outline the reasons thereof and measures taken/planned for improvement.

Format for Distribution

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: F-18.9

## Status of Metering

Sl. No.	Item	Category 1	Category 2	Category 3 etc.	Other Sales	Total
<b>A</b>	<b>Previous Year</b>					
1	No. of metered consumers at the beginning of the previous year					
2	No. of unmetered consumers at the beginning of the previous year					
3	Total no. of consumers at the beginning of the previous year (1+2)					
4	No. of consumers with defective meters at the beginning of the previous year					
5	Consumers with defective meters as % of metered consumers at the beginning of the previous year (4/1)					
6	Unmetered consumers as % of total consumers at the beginning of the previous year (2/3)					
<b>B</b>	<b>Current Year</b>					
1	No. of metered consumers at the beginning of the current year					
2	No. of unmetered consumers at the beginning of the current year					
3	Total no. of consumers at the beginning of the current year (1+2)					
4	No. of consumers with defective meters at the beginning of the current year					
5	Consumers with defective meters as % of metered consumers at the beginning of the current year (4/1)					
6	Unmetered consumers as % of total consumers at the beginning of the current year (2/3)					

Name of Distribution Licensee \_\_\_\_\_  
 Licensed Area of Supply \_\_\_\_\_

Form: F-18.10

### Release of Customer Bills

S. No.	Category	Previous year		Current year (Actual)	
		No. of customer bills served within 30 days of billing period	No. of customer bills served after 30 days of billing period	No. of customer bills served within 30 days of billing period	No. of customer bills served after 30 days of billing period
1	Category 1				
2	Category 2				
3	Category 3				
4	Category 4				
5	Category 5				
6	Category 6				
7	Category 7 etc.				
	Total				

Name of Distribution Licensee  
 Licensed Area of Supply

Form: F-18.11

### Number of Pending Service Connection Applications

Previous Year (n-1)

S. No.	Category	Pending at the beginning of the period	Associated Load (MW)	No. of Applications Received during period	Associated Load (MW)	No. of Connections released during period	Associated Load (MW)	Pending at the end of the period	Associated Load (MW)
1	Category 1.								
2	Category 2								
3	Category 3								
4	Category 4								
5	Category 5								
6	Category 6								
7	Category 7 etc.								
	Total								

Current Year (n)

S. No.	Category	Pending at the beginning of the period	Associated Load (MW)	No. of Applications Received during period	Associated Load (MW)	No. of Connections released during period	Associated Load (MW)	Pending at the end of the period	Associated Load (MW)
1	Category 1								
2	Category 2								
3	Category 3								
4	Category 4								
5	Category 5								
6	Category 6								
7	Category 7 etc.								
	Total								



## INDEX OF FORMATS

Format for Hydro

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2	Form: F-1.2	Summary of Revenue and Revenue Requirement
3	Form: F-2.1	Saleable Energy & PAF
4	Form: F-2.2	Information on Energy Generation (MU)
5	Form: F-2.3	Salient Features of Hydroelectric Project
6	Form: F- 3	Computation of Net Annual Fixed Charges
7	Form: F- 4	Statement of Gross Fixed Asset Base & Financing Plan
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19	Form: F- 9.1	Statement of Outstanding Loans
20	Form: F- 9.2	Calculation of Weighted Average Interest Rate of Interest on Actual Loans *
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27	Form: F-12	Non Tariff Income
28	Form: F- 13	Summary of Truing Up

Format for Hydro

Name of Generating Company \_\_\_\_\_  
 Name of Generating Station \_\_\_\_\_

Form: F-1.1

## Computation of Per Unit Rate

S. No.	Item	Units	Previous Year (n-1) (Actuals/Audited)	Current Year (n)			Ensuing Year (n+1)		Ensuing Year (n+2)		Ensuing Year (n+3)	
				Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected		Projected		Projected	
1	Annual Fixed Cost	Rs. Crore										
2	Saleable Energy (Design Energy net of auxiliary consumption and home state share)	MU										
3	Per unit Rate of Saleable Energy	Rs./unit										

Note:  
 n= FY 2012-13

Name of Generating Company \_\_\_\_\_  
 Name of Generating Station \_\_\_\_\_

Form: F-1.2

### Summary of Revenue and Revenue Requirement

S. No.	Item	Previous Year (n-1) (Actuals/Audited)		Current Year (n) Oct-Mar (Estimated)		Total (April - March)		Ensuing Year (n+1) Projected		Ensuing Year (n+2) Projected		Ensuing Year (n+3) Projected	
<b>A.</b>	<b>Generation</b>												
1	Gross Generation (MU)												
2	Aux Consumption (%)												
3	Aux Consumption (MU)												
4	Net Generation (MU) (1-3)												
<b>B.</b>	<b>Revenue</b>												
1	Revenue from Sale of Power												
2	Non-Tariff Income												
	Total Revenue (1+2)												
<b>C.</b>	<b>Expenditure</b>												
1	O&M expenses												
a	R&M Expense												
b	Employee Expenses												
c	A&G Expense												
2	Depreciation												
3	Lease Charges												
4	Interest on Loans												
5	Interest on Working Capital												
	Total Expenditure (1+2+3+4+5)												
<b>D.</b>	<b>Return on Equity</b>												
<b>E</b>	<b>Revenue Requirement (C+D)</b>												
	Surplus (+) / Shortfall (-) (B-E)												

Note:  
 n= FY 2012-13

[illegible]

Sl. No.	Description	Unit	Previous Year (n-1) (Actuals/Audited)	Current Year (n)			Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected
				Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)			
1	Design Energy	(MU)							
2	Auxiliary Consumption								
	(a) In % of Energy Generated	(%)							
	(b) In MU	(MU)							
3	Energy Sent Out (1-2b)	(MU)							
4	Home State Share	(%)							
5	Saleable Energy {(3)x(1-4))}	(MU)							
6	Plant Availability Factor	%							

Name of Generating Company \_\_\_\_\_  
 Name of Generating Station \_\_\_\_\_

## Form: F-2.2

## Information on Energy Generation (MU)

Sl.No.	Month	Design Energy	Previous Year (n-1) (Actuals/Audited)		Current Year (n)		Ensuing Year (n+1)		Ensuing Year (n+2)		Ensuing Year (n+3)	
			Apr-Sep (Actual)	Oct-Mar (Estimated)								
1	April											
2	May											
3	June											
4	July											
5	August											
6	September											
7	October											
8	November											
9	December											
10	January											
11	February											
12	March											

Name of Generating Company \_\_\_\_\_  
 Name of Generating Station \_\_\_\_\_

Form for Hydro

Form: F-2.3

**Sallent Features of Hydroelectric Project**

Sl.N	Details	
1	<b>Installed Capacity (MW)</b>	
	(a) Unit-1	
	(b) Unit-2	
	(c) Unit-3	
	(d) Unit-4 etc.	
2	<b>Date of commercial operation (DD/MM/YYYY)</b>	
	(a) Unit-1	
	(b) Unit-2	
	(c) Unit-3	
	(d) Unit-4 etc.	
3	<b>Type of Station</b>	
	a) Surface / Underground	
	b) Purely RoR/Pondage/Storage	
	c) Peaking/ Non-Peaking	
	d) No. of Hours of Peaking	
4	<b>Type of excitation</b>	
	a) Rotating exciters on generator	(Yes/No)
	b) Static excitation	(Yes/No)
5	<b>Location</b>	
	State/Distt.	
	River	
6	<b>Diversion Tunnel</b>	
	Size, shape	
	Length	
7	<b>Dam</b>	
	Type	
	Maximum dam height	
8	<b>Spillway</b>	
	Type	
	Crest level of spillway	
9	<b>Reservoir</b>	
	Full Reservoir Level (FRL)	
	Minimum Draw Down Level (MDDL)	
	Live storage (MCM)	
10	<b>Desilting Arrangement</b>	
	Type	
	Number and Size	
	Particle size to be removed(mm)	
11	<b>Head Race Tunnel</b>	
	Size and type	
	Length	
	Design discharge(Cumecs)	
12	<b>Surge Shaft</b>	
	Type	
	Diameter	
	Height	
13	<b>Penstock/Pressure shafts</b>	
	Type	
	Diameter & Length	
14	<b>Power House</b>	
	Type	
	Installed capacity (No of units x MW)	
	Peaking capacity during lean period (MW)	
	Type of turbine	
	Rated Head(M)	
	Rated Discharge(Cumecs)	
	Head at Full Reservoir Level (M)	
	Head at Minimum Draw Down Level (M)	
	MW Capability at FRL	
	MW Capability at MDDL	
15	<b>Tail Race Tunnel</b>	
	Diameter, shape	
	Length	
	Minimum tail water level	
16	<b>Switchyard</b>	
	Type of Switch gear	
	No. of generator bays	
	No. of Bus coupler bays	
	No. of line bays	

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

Name of Generating Company  
Name of Generating Station

Form: F-3

## Computation of Net Annual Fixed Charges

S/No.	Year ending March	Current Year (n)				Ensuing Year (n+1)		Ensuing Year (n+2)		Ensuing Year (n+3)	
		Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)		Projected		Projected		Projected	
1	Interest on Loan (Including Interest on Normative Loans)										
2	Depreciation										
3	Lease Charges										
4	Return on Equity										
	(a) Rate of Return on Equity										
	(b) Equity										
	(c) Return on Equity (4a)^(4b)										
5	O&M Expenses										
	5.1 Employee Costs										
	5.2 Repair and Maint. Expenses										
	5.3 Admin & Gen Costs										
6	Interest on Working Capital										
7	Gross Annual Fixed Charges (1+2+3+4(c)+5+6)										
8	Less: Other Income (provide details)										
9	Net Annual Fixed Charges (7-8)										

(Figures in Rs Crore)

Name of Generating Company  
Name of Generating Station

Form: F-4  
Statement of Gross Fixed Asset Base & Financing Plan

Final Approved Cost as on Commercial Operations Date

	Capital Expenditure	Date of commercial operation
(a) Unit-1		(DD/MM/YY)
(b) Unit-2		(DD/MM/YY)
(c) Unit-3		(DD/MM/YY)
(d) Unit-4		(DD/MM/YY)
(e) Unit-5 etc. *		(DD/MM/YY)

Original Financing Plan (Unitwise)

Rupese Term Loan	
Debt 1	
Debt 2 *	
Foreign Currency Loan	
Debt 1	
Debt 2 *	
Equity	
In Rupees	
In Foreign Currency	

Previous year (n-1)

Particulars of Assets	Opening balance	Retirement of assets during the year*		Closing balance
		Additions during the year*	Retirement of assets during the year*	
a) Land				
b) Building				
c) and so on (As per categorisation given in the Regulations)				
Total				

Details of Gross Fixed Assets

Current Year (n)

Particulars of Assets	Opening Balance	Additions of assets during the year*		Retirement of assets during the year*		Closing balance
		Apr-Sep (Actual)	Oct-Mar (Estimated)	Apr-Sep (Actual)	Oct-Mar (Estimated)	
a) Land						
b) Building						
c) and so on (As per categorisation given in the Regulations)						
Total						

(Figures in Rs Crore)



Form: F-4

### Statement of Gross Fixed Asset Base & Financing Plan

Ending year (n + 2)	Particulars of Assets	Opening balance	Additions during the year*	Retirement of assets during the year*	Closing balance
a) Land					
b) Building					
c) and so on (As per categorisation given in the Regulations)					
Total					

Ensuing year (n +3)	Particulars of Assets	Opening balance	Additions during the year*	Retirement of assets during the year*	Closing balance
a) Land					
b) Building					
c) and so on (As per categorisation given in the Regulations)					
Total					

\* Please provide Actual / Proposed Dates of Addition and Retirement of Fixed Assets during the year

Name of Generating Company  
Name of Generating Station

Form: F- 6.1  
Statement of Asset wise Depreciation

(Figures in Rs Crore)						
Previous year (n-1)						
Particulars of Assets	Rate of Depreciation in %	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year	Balance of accumulated depreciation at the end of the year	
a) Land						
b) Building						
c) and so on (As per categorisation given in the Regulations)						
Total						
(Figures in Rs Crore)						
Current Year (n)						
Particulars of Assets	Rate of Depreciation in %	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year		Withdrawals during the year	
			Apr-Sep (Actual)	Oct-Mar (Estimated)	Apr-Sep (Actual)	Oct-Mar (Estimated)
a) Land						
b) Building						
c) and so on (As per categorisation given in the Regulations)						
Total						

(Figures in Rs Crore)				
Ensuing year (n+1)				
Particulars of Assets	Rate of Depreciation in %	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year
a) Land				
b) Building				
c) and so on (As per categorisation given in the Regulations)				
Total				

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

Form: F- 5.1  
Statement of Asset wise Depreciation  
Ensuing year (n +2)

Particulars of Assets	Rate of Depreciation in %	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year	Balance of accumulated depreciation at the end of the year
a) Land					
b) Building					
c) and so on (As per categorisation given in the Regulations)					
Total					

Particulars of Assets	Rate of Depreciation in %	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year	Balance of accumulated depreciation at the end of the year
a) Land					
b) Building					
c) and so on (As per categorisation given in the Regulations)					
Total					

[illegible]

Name of Generating Company  
Name of Generating Station

Form for Hydro

Form: F- 6.1  
Statement of Capital Expenditure

(Figures in Rs Crore)

Particulars	FY of COD	Previous Year (n-1) Actual / Audited	Current Year (n)			Remarks+	Ensuing Year (n+1)		Total Expenditure Approved by Competent Authority	Total Expenditure Actually Incurred	Remarks++
			Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)		Projected	Projected			
A) Expenditure Details											
a) Land											
b) Building											
c) Major Civil Works											
d) Plant & Machinery											
e) Vehicles											
f) Furniture and Fixtures											
g) Office Equipment & Others											
Total (A)											
B) Break up of sources of financing											
Rupess term loan											
Debt 1											
Debt 2											
....											
Foreign Currency Loan											
Debt 1											
Debt 2											
....											
Equity											
In Rupees											
In Foreign Currency											
c) Others (Please specify)											
Total (B)											

Note:

- The break up wherever required and necessary may be given in respect of Loans and Equity financing supported with respective documentation.
- Copies of Approval from competent authorities may be furnished in respect of cost of project, its components and scheme of finance.
- Remarks+: Explain for the causes of deviation if the actual expenditure during the current year is expected to be different from that approved by UERC or other authorised agencies
- Remarks++: Explain for the causes of deviation if the total actual expenditure is different from that approved by UERC or the authorised agencies

Name of Generating Company  
Name of Generating Station

Format for Hydro

Form: F- 6.2  
Statement of Capital Works-in-Progress

S. No	Particulars	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)	Remarks
		Actual / Audited	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected	Projected	Projected	
1	Opening balance of CWIP								
2	Add: New Investment								
	Capital Expenditure								
	Expenses Capitalised								
	Interest During Construction								
3	Less: Investment Capitalised								
4	Closing balance of CWIP								

Name of Generating Company \_\_\_\_\_

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

Format for Hydro

Form: F- 6.3

## Statement of Capital Expenditure &amp; Schedule of COD of New Projects

Name of the Power Station:	
Name of Agency approving the Project Cost Estimates	
Date of Approval of Capital Cost Estimate	

	Present Day Cost (As on .....Date)	As approved by Competent Authority
Capital Cost		
Foreign Exchange Rate considered for capital cost estimates		

Cost Details	Amount	Exchange Rate	Amount (Rs. Crore)
<b>A) Basic Cost</b>			
Foreign Component (in Foreign Currency)			
Domestic Component			
Total Basic Cost	a		
<b>B) IDC &amp; FC</b>			
Foreign Component (in Foreign Currency)			
Indian Component			
Total IDC & FC	b		
<b>C) Total Cost (Including IDC and FC)</b>	c=(a+b)		

## Schedule of Commissioning

COD of Unit-I		
COD of Unit-II		
COD of Last Unit		

## Note:

i) Copy of Approval to be enclosed

Name of Generating Company  
Name of Generating Station

Formal for Hydro

Form: F- 6.4  
Break-up of Capital Expenditure for New Projects

Name of the Power Station:	
Name of Agency approving the Project Cost Estimates	
Date of Approval of Capital Cost Estimate	

(Figures in Rs Crore)											
Particulars	Total Expenditure Approved by Competent Authority	Previous year (n-1) Expenditure Actually Incurred	Current Year (n)		Total Expenditure Incurred upto Current Year	Total Expenditure supposed to be incurred till current year, as per the approved plan	Difference between column 6 and 7	Remarks+	Ensuing Year (n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)
			Apr-Sep (Actual)	Oct-Mar (Estimated)							
1	2	3	4	6	6	7	8	9	10	11	12
A) Expenditure Details											
a) Land											
b) Building											
c) Major Civil Works											
d) Plant & Machinery											
e) Vehicles											
f) Furniture and Fixtures											
g) Office Equipment & Others											
Total (A)											
B) Break up of sources of financing											
a) Loans/ Borrowings											
b) Equity											
c) Others (Please specify)											
Total (B)											

Note:  
i) Remark:- Explain for the reasons for difference between 6 and 7.



Name of Generating Company  
Name of Generating Station

Format for Hydro

Form: F- 6.5

**Break-up of Capital cost for Hydro power generating station on COD (For New Stations)**

(Figures in Rs Crore)

Sl. No.	Head of works	Original cost as approved by Authority	Actual Cost on COD	Additional Capitalisation till Cut-Off Date	Total Completed Capital Cost	Variation	Reasons for variation
1	2	3	4	5	6 = 4+5	7 = 3 - 6	8
1.0	<b>Infrastructure Works</b>						
1.1	Preliminary including Development						
1.2	Land						
1.3	Buildings						
1.4	Township						
1.5	Maintenance						
1.6	Tools & Plants						
1.7	Communication						
1.8	Environment & Ecology						
1.9	Losses on stock						
1.10	Receipt & Recoveries						
1.11	Total (Infrastructure works)						
2.0	<b>Major Civil Works</b>						
2.1	Dam, Intake & Desilting Chambers						
2.2	HRT, TRT, Surge Shaft & Pressure shafts						
2.3	Power Plant civil works						
2.4	Other civil works (to be specified)						
2.5	Total (Major Civil Works)						
3.0	<b>Hydro Mechanical equipments</b>						
4.0	<b>Plant &amp; Equipment</b>						
4.1	Initial spares of Plant & Equipment						
4.2	Total (Plant & Equipment)						
5.0	<b>Taxes and Duties</b>						
5.1	Custom Duty						
5.2	Other taxes & Duties						
5.3	Total Taxes & Duties						
6.0	<b>Construction &amp; Pre-commissioning expenses</b>						
6.1	Erection, testing & commissioning						
6.2	Construction Insurance						
6.3	Site supervision						
6.4	Total (Const. & Pre-commissioning)						
7.0	<b>Overheads</b>						
7.1	Establishment						
7.2	Design & Engineering						
7.3	Audit & Accounts						
7.4	Contingency						
7.5	Rehabilitation & Resettlement						
7.6	Total (Overheads)						
8.0	<b>Capital Cost without IDC &amp; FC</b>						
9.0	<b>Financing charges (FC)</b>						
10.0	<b>Interest during construction (IDC)</b>						
11.0	<b>Capital Cost with IDC &amp; FC</b>						

Note:

1. In case of time and cost over-run of the project, a detailed write-up giving justification for such time and cost over run should be submitted, clearly bringing out the agency responsible and whether such time and cost over run was beyond the control of the generating company

## Form: F-6.6

[illegible]

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

Name of Generating Company  
Name of Generating Station

Form: F- 6.7  
Draw Down Schedule for Calculation of IDC & Financing Charges

(Figures in Rs Crore)									
Sl. No.	Draw Down Particulars	Quarter 1			Quarter 2			Quarter n (COD)	
		Quantum in Foreign Currency	Exchange Rate on Draw Down Date	Amount in Indian Rupee	Quantum in Foreign Currency	Exchange Rate on Draw Down Date	Amount in Indian Rupee	Quantum in Foreign Currency	Exchange Rate on Draw Down Date
1	Loans								
1.1	Foreign Loans								
1.1.1	Foreign Loan 1								
	Draw Down Amount								
	IDC								
	Financing Charges								
	FERV								
	Hedging Cost								
1.1.2	Foreign Loan 1								
	Draw Down Amount								
	IDC								
	Financing Charges								
	FERV								
	Hedging Cost								
1.1.n	Foreign Loan n								
	Draw Down Amount								
	IDC								
	Financing Charges								
	FERV								
	Hedging Cost								
1.1	Total Foreign Loans								
	Draw Down Amount								
	IDC								
	Financing Charges								
	FERV								
	Hedging Cost								

Sl. No.	Draw Down	Quarter 1			Quarter 2			Quarter n (COD)		
		Quantum in Foreign Currency	Exchange Rate on Draw Down Date	Amount in Indian Rupee	Quantum in Foreign Currency	Exchange Rate on Draw Down Date	Amount in Indian Rupee	Quantum in Foreign Currency	Exchange Rate on Draw Down Date	Amount in Indian Rupee
1.2	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.n	Indian Loan n									
	Draw Down Amount									
	IDC									
	Financing Charges									
1.2	Total Indian Loans									
	Draw Down Amount									
	IDC									
	Financing Charges									
	Total of Loans Drawn									
	IDC									
	Financing Charges									
	FERV									
	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 beginning is permissible.  
2. Applicable Interest Rates including reset dates used for computation may be furnished separately.  
3. In case of Multi Unit Project, details of Capitalisation ratio used to be furnished

Format for Hydro

Name of Generating Company  
Name of Generating Station

Form: F- 7  
Details of Capital Cost and Financing Structure

Year ending March	FY of COD	Previous Year (n-1)		Current Year (n)			Ensuing Year (n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)	Remarks
		Actual / Audited		Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected	Projected	Projected	
Basic Project Financial Parameters										
Capital Cost*										
Addition during the year										
Deletion during the year										
Gross Capital Cost (A)										
Equity against Original Project Cost										
Addition during the year										
Equity Sub-Total (B)										
Debt outstanding against the original Capital cost										
New Loans added during the year										
Debt Sub-Total (C)										
Grants against original project cost										
Addition during the year										
Grants Sub-Total (D)										
Total Financing (B+C+D)										

Note :

- i) \*Approved or Actual Capital Cost whichever is less.  
ii) The equity and loan shall be divided into foreign and domestic component if applicable.

Name of Generating Company

Name of Generating Station

Format for Hydro

**Form: F-8**  
**Details of Financial Packages**

Source of Funds	Amount in FC (Name of Currency)	Exchange Rate (Rs./FC)	Amount in Indian Currency (Rs. in Crore)	Terms of Repayment (Years)	Grace Period (Years)	Interest Rate / Return on Equity (%)	Guarantee Commission (Rs. in Crore)	Upfront Fees/ Exposure Premium (Rs. in Crore)	% of Total Debt (%)	% of Total Equity (%)	% of Total PC (%)
(A) Debt											
Foreign:											
Loan I											
Loan II											
Loan III											
Loan IV etc.											
Indian:											
Loan I											
Loan II etc.											
Total Loan (A)											
(B) Equity											
Foreign:											
Indian:											
Total Equity (B)											
(C) Grants											
Foreign:											
Indian:											
Total Grant (C)											
Total Financing (A+B+C)											
Total Project Cost											

**Note:**

(i) In case of projects having achieved COD: Financial package details, as admitted by the Competent Authority on COD of the Project, shall be furnished in the Format alongwith supporting documents.

(ii) In case of projects which are yet to achieve their COD: Financial package details, as approved by the Competent Authority, shall be furnished in the Format alongwith supporting documents.

(i) FC- Foreign Currency

(iii) PC- Project Cost

Form: F- 9.1  
Statement of Outstanding Loans  
Previous year (n-1)

[illegible]

Current Year (n)

[illegible]

[illegible][illegible]



Ensuing year (n+3)	Loan Agency (Source of loan)	Rate of interest (%)	Repayment period (Years)	Balance at the beginning of the year	Amount to be received during the year	Principal due during the year	Principal to be redeemed during the year	Principal Overdue at the year end	Principal Due at the year end		Remarks
									Estimated	Estimated	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(6)-(7)	(9)=(4)+(5)-(6)	(10)	
	A. Other than state government										
	Loan 1 (Name of lender)										
	Loan 2 (Name of lender)										
	Loan 3 (Name of lender), etc.										
	Sub-Total (A)										
	B. Government Loans										
	Type 1										
	Type 2										
	Type 3 etc.										
	Sub-Total (B)										
	Sub-Total (A+B)										
	C. Normative Loans										
	TOTAL (A+B+C)										

Note: i) In case rescheduling of any loan has been undertaken, the terms of rescheduling to be specified clearly, through an attachment alongwith copy of the letter from the Lender outlining the terms of Re-scheduling.

ii) Any Loan not allocated to any Generating Station and not forming part of Approved Financial Package, to be shown separately, with reasons thereof.

iii) The original Financing Plan and the cumulative repayment as per the Original Financing Plan to be outlined for each Loan.

iv) For current year, Loans already drawn and the loan proposed to be drawn by end of year to be shown separately.

v) Any new loan from existing or new lenders to be identified separately as a Loan.

vi) In case of Foreign Currency Loans, data to be provided in the currency of borrowing alongwith the name of the currency.

Name of Generating Company  
Name of Generating Station

Format for Hydro

Form: F- 9.2  
Calculation of Weighted Average Interest Rate of Interest on Actual Loans \*

S.No.	Particulars	Previous Year (n-1)	Current Year (n)	(Figures in Rs Crore)	
				Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected
	<b>Loan 1</b>				
	Gross Loan - Opening				
	Cumulative payments of Loan upto Previous Year				
	Net Loan - Opening				
	Add: Drawl(s) during the year				
	Less: Repayment(s) of Loan during the year				
	Net Loan - Closing				
	Average Net Loan				
	Rate of Interest on Loan on Annual Basis				
	Interest on Loan				
	<b>Loan 2</b>				
	Gross Loan - Opening				
	Cumulative payments of Loan upto Previous Year				
	Net Loan - Opening				
	Add: Drawl(s) during the year				
	Less: Repayment(s) of Loan during the year				
	Net Loan - Closing				
	Average Net Loan				
	Rate of Interest on Loan on Annual Basis				
	Interest on Loan				
	<b>Loan n</b>				
	Gross Loan - Opening				
	Cumulative payments of Loan upto Previous Year				
	Net Loan - Opening				
	Add: Drawl(s) during the year				
	Less: Repayment(s) of Loan during the year				
	Net Loan - Closing				
	Average Net Loan				
	Rate of Interest on Loan on Annual Basis				
	Interest on Loan				
	<b>Total Loan</b>				
	Gross Loan - Opening				
	Cumulative payments of Loan upto Previous Year				
	Net Loan - Opening				
	Add: Drawl(s) during the year				
	Less: Repayment(s) of Loan during the year				
	Net Loan - Closing				
	Average Net Loan				
	Rate of Interest on Loan on Annual Basis				
	Interest on Loan				
	<b>Weighted Average Rate of Interest on Loans</b>				

\* In case of Foreign Loans, the calculation in Indian Rupee is to be furnished. However, the calculation in Original currency is also to be furnished separately in the same format

Name of Generating Company  
Name of Generating Station

Form: F-9.3

Calculation of Interest on Normative Loan

Particulars	Previous Year (n-1)	Current Year (n)	Ensuing Year (n+1)		Ensuing Year (n+2)		Ensuing Year (n+3)	
			Projected		Projected		Projected	
Gross Normative Loan - Opening								
Cumulative payments of Normative Loan upto Previous Year								
Net Normative Loan - Opening								
Increase or Decrease during the year								
Less: Repayment of Normative Loan during the year								
Net Normative Loan - Closing								
Average Normative Loan								
Weighted Average Rate of Interest on Actual Loan on Annual Basis								
Interest on Normative Loan								



Name of Generating Company  
Name of Generating Station

Formed by Hygen

Form: F- 11  
Details of Operation & Maintenance Expenses

Details of Operation & Maintenance Expenses																							
S. No.	Particulars	Previous Year (n-6)		Previous Year (n-5)		Previous Year (n-4)		Previous Year (n-3)		Previous Year (n-2)		Previous Year (n-1)		Current Year (n)			Ensuing Year (n+1)		Ensuing Year (n+2)		Ensuing Year (n+3)		Remarks
		Actual / Audited	Actual / Audited	Actual / Audited	Actual / Audited	Actual / Audited	Actual / Audited	Actual / Audited	Actual / Audited	Actual / Audited	Actual / Audited	Actual / Audited	Actual / Audited	Actual / Audited	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Estimated	Estimated	Estimated	Estimated		
a)	Repair and Maintenance Expenses																						
	Plants and Machinery																						
	Buildings																						
	Civil Works																						
	Hydraulic Works																						
	Lines, Cables Net Works etc.																						
	Vehicles																						
	Furniture and Fixtures																						
	Office Equipment & Other Items																						
	Consumption of Stores and Spares																						
	- Related to Generator, turbines and Accessories																						
	- Related to Auxiliary Electrical Equipment																						
	- Related to Auxiliary Equipment & Services for Power Station																						
	Sub-Total																						
b)	Administrative Expenses																						
	- Insurance																						
	- Rent																						
	- Electricity Charges																						
	- Travelling and conveyance																						
	- Staff Car																						
	- Telephone, tele and postage																						
	- Advertising																						
	- Entertainment																						
	- Corporate meet expenses																						
	- Legal Expenses																						
	- Others (specify elements)																						
	Sub-Total																						
c)	Employee Cost																						
	- Basic Salaries																						
	- Dearness Allowance																						
	- Other Allowances																						
	- Bonus																						
	- Staff welfare expenses																						
	- Medical Allowances																						
	- Other Expenses (specify elements)																						
	- Terminal Benefits																						
	Sub-Total																						
d)	Corporate Office expenses Allocated																						
	- Employee expenses																						
	- Repair and maintenance																						
	- Training and Recruitment																						
	- Communication																						
	- Travelling																						
	- Security																						
	- Rent																						
	- Others (specify elements)																						
	Sub-Total																						
	Total O&M Expenses																						
	Less O&M Expenses Capitalised																						

Notes 1 : (i) The process of allocation of corporate expenses to generating stations should be specified

(ii) The data should be certified by statutory auditors

**Form: F-11.1**  
**Details of Repair & Maintenance Expenditure**

[illegible]

Form: F-11.2

### Details of Employee Expenses

[illegible]

### B. Details of number of employees

[illegible]



Name of Generating Company  
Name of Generating Station

Form: F-113

Details of Administration & General Expenses

S.No	Particulars	Previous Year (n-4)		Previous Year (n-3)		Previous Year (n-2)		Previous Year (n-1)		Current Year (n)		Ensuing Year (n+1)		Ensuing Year (n+2)		Ensuing Year (n+3)		Remarks
		(Actuals / Audited)	(Actuals / Audited)	(Actuals / Audited)	(Actuals / Audited)	(Actuals / Audited)	(Actuals / Audited)	(Actuals / Audited)	(Actuals / Audited)	Ap-Sep (Actual)	Oct-Mar (Estimated)	Projected	Projected	Projected	Projected	Projected	Projected	
A	Administration Expenses																	
1	Rent, Utilities and Taxes																	
	Lenses / Rent																	
	Rates & Taxes																	
2	Insurance																	
3	Revenue Stamp Expenses Account																	
4	Telephone, Postage, Telegram & Telex Charges																	
5	Incentive & Award To Employees/Outsiders																	
6	Contingency Charges																	
7	Technical Fees																	
8	Other Professional Charges																	
9	Conveyance And Travelling																	
10	License And Registration Fee Of Plant And Machinery																	
	Vehicles																	
	Vehicles Running Expenses Petrol And Oil																	
	Delivery Vans																	
	Hiring Of Vehicles																	
12	Security / Services Charges Paid To Outside Agencies																	
	Sub-Total 'A' (1 To 12)																	
B	Other Charges																	
1	Fee And Subscriptions Books And Periodicals																	
2	Printing And Stationery																	
3	Advertisement Expenses (Other Than Purchase Related) Exhibition & Demo.																	
4	Contributions/Donations To Outside Institutes / Associations																	
5	Electricity Charges To Office																	
6	Water Charges																	
7	Entertainment Charges																	
8	Miscellaneous Expenses																	
	Sub-Total 'B' (1 To 8)																	
C	Legal Charges																	
D	Auditor's Fee																	
E	Material Related Expenses																	
1	Freight On Capital Equipments																	
2	Purchase Related Advertisement Expenses																	
3	Vehicle running and hiring expenses (Truck/Delivery Van)																	
4	Other Freight																	
5	Travel Insurance																	
6	Others																	
7	Industrial Sundry Expenses																	
8	Fabrication Charges																	
	Sub-Total 'C' (1 To 8)																	
F	Grand Total (A To E)																	
G	ASQ expenses capitalised																	
H	Net ASQ Expenses (F - G)																	

Form: F-113

### Non Tariff Income

Name of Generating Company  
Name of Generating Station

Form: F- 13

Summary of Truing Up

Previous Year (n-1) for Final Truing Up

S. No	Particulars	Approved	Actual	Deviation	Reason for Deviation	Controllable	Uncontrollable
(Rs. Crore)							
A.	Net Annual Fixed Charges						
1	Interest on Loan (Including Interest on Normative Loans)						
2	Depreciation						
3	Lease Charge						
4	Return on Equity						
5	O&M Expenses						
6	Interest on Working Capital						
7	Income Tax						
8	Gross Annual Fixed Charges (1+2+3+4+5+6+7)						
9	Less: Other Income (provide details)						
10	Net Annual Fixed Charges (8-9)						
B.	Revenue from Sale of Power						
C.	Surplus/(Gap)						

Note: Please give detailed explanation separately for the deviations on account of uncontrollable factors

Current Year (n) for Annual Performance Review

S. No	Particulars	Approved	Revised Estimates based on Half Year Actual Performance	Deviation	Reason for Deviation	Controllable	Uncontrollable
(Rs. Crore)							
A.	Net Annual Fixed Charges						
1	Interest on Loan (Including Interest on Normative Loans)						
2	Depreciation						
3	Lease Charge						
4	Return on Equity						
5	O&M Expenses						
6	Interest on Working Capital						
7	Income Tax						
8	Gross Annual Fixed Charges (1+2+3+4+5+6+7)						
9	Less: Other Income (provide details)						
10	Net Annual Fixed Charges (8-9)						
B.	Revenue from Sale of Power						
C.	Surplus/(Gap)						

Note: Please give detailed explanation separately for the deviations on account of uncontrollable factors

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2	Form: F-1.2	Summary of Revenue and Revenue Requirement
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4	Form: F-2.2	Information on Energy Generation (MU)
5	Form: F-2.3	Salient Features of Thermal Project
6	Form: F- 3	Calculation of Net Annual Fixed Charges
7	Form: F-4.1	Computation of Energy Charges & Fuel stocks
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10	Form: F- 5.1	Statement of Gross Fixed Asset Base & Financing Plan
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Form: F-1.1

Name of Generating Company  
Name of Generating Station

Form: F-1.1

Computation of Per Unit Rate

S. No.	Item	Units	Previous Year (n-1) (Actuals/Audited)	Current Year (n)		Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected
				Apr-Sep (Actual)	Oct-Mar (Estimated) Total (April - March)			
1	Annual Fixed Cost	Rs. Crore						
2	Primary Fuel Cost	Rs. Crore						
3	Saleable Energy (Gross Generation net of auxiliary consumption)	MU						
4	Per unit Rate of Saleable Energy	Rs./unit						

Name of Generating Company  
Name of Generating Station

Format for Thermal/Gas

Form: F-1.2

Summary of Revenue and Revenue Requirement

(Figures in Rs Crore)							
S. No.	Item	Previous Year (n-1) (Actuals/Audited)	Current Year (n)		Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected
			Apr-Sep (Actual)	Oct-Mar (Estimated)			
<b>A. Generation</b>							
1	Gross Generation (MU)						
2	Aux Consumption (%)						
3	Aux Consumption (MU)						
4	Net Generation (MU) (1-3)						
<b>B. Revenue</b>							
1	Revenue from Sale of Power						
2	Non-Tariff Income						
	Total Revenue (1+2)						
<b>C. Expenditure</b>							
1	Primary Fuel Charges						
2	O&M expenses						
a	R&M Expense						
b	Employee Expenses						
c	A&G Expense						
3	Secondary Fuel Oil Cost						
4	Depreciation						
5	Lease Charges						
6	Interest on Loans						
7	Interest on Working Capital						
	Total Expenditure (1+2+3+4+5+6+7)						
<b>D. Return on Equity</b>							
<b>E. Revenue Requirement (C+D)</b>							
<b>Surplus (+) / Shortfall (-) (B-E)</b>							

Note:  
n= FY 2012-13

Name of Generating Company \_\_\_\_\_  
 Name of Generating Station \_\_\_\_\_

Format for Thermal/Gas

**Form: F-2.1**  
**Saleable Energy & PAF**

SL No.	Description	Unit	Previous Year (n-1)		Current Year (n)			Ensuing Year (n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)
			(Actuals/ Audited)		Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected	Projected	Projected
1	Gross Generation	(MU)								
2	Auxiliary Consumption									
	(a) In % of Energy Generated	(%)								
	(b) In MU	(MU)								
3	Saleable Energy (1-2b)	(MU)								
4	Plant Availability Factor	%								

**Form P-22**

### Information on Energy Generation (MJ)

[illegible]



Name of Generating Company \_\_\_\_\_  
Name of Generating Station \_\_\_\_\_

Format for Thermal/Gas

Form: F-2.3  
Salient Features of Thermal Project

SLN	Details	Unit I	Unit II	Unit III
	Unit (s) Block (s) Parameters			
1	Pressure	(Kg/Cm2)		
2	Temperature	(°C)		
	" - At Superheater Outlet			
	" - At Reheater Outlet			
3	Guaranteed Design Heat Rate	(kCal/Kwh)		
	Conditions on which guaranteed			
a	% MCR			
b	% Make-Up			
c	Design Fuel			
d	Design Cooling water Temperature			
e	Back pressure			
	Note: in case guaranteed heat rate is not available then furnish the guaranteed turbine cycle heat rate and guaranteed boiler efficiency separately along with condition of guarantee.			
4	Type of Cooling Tower			
5	Installed capacity (IC)	MW		
6	Date of Commercial Operation			
7	Type of Cooling system <sup>1</sup>			
8	Type of Boiler Feed Pump <sup>2</sup>			
9	Fuel Details <sup>3</sup>			
a	- Primary fuel			
b	- Secondary Fuel			
c	- Alternate Fuel			
10	Special Features/ Site specific Features <sup>4</sup>			
11	Special Technological Features <sup>5</sup>			
	Environmental Regulation related			
12	features <sup>6</sup>			
13	Any other special features			

1. Close Circuit cooling, once through cooling, natural draft cooling, induced draft cooling etc.

2. Motor Driven, Steam Driven etc.

3. Coal or natural gas or naphtha or lignite etc.

4. Any site specific feature such as Mery-Go-Round, Vicinity to sea, Intake/ makeup water system etc. scrubbers etc. Specify all such features.

5. Any Special Technological feature like advanced class FA Technology in Gas Turbines, etc.

6. Environmental regulation related features like FGD, ESP etc.

Name of Generating Company  
Name of Generating Station

Form: F-3  
Calculation of Net Annual Fixed Charges

(Figures in Rs Crore)

S/N o.	Year ending March	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)
		(Actuals/Audited)			Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected	Projected	Projected
1	Interest on Loan (Including Interest on Normative Loans)									
2	Depreciation									
3	Lease Charges									
4	Return on Equity									
	(a) Rate of Return on Equity									
	(b) Equity									
	(c) Return on Equity (4a)*(4b)									
5	O&M Expenses									
	5.1 Employee Costs									
	5.2 Repair and Maint. Expenses									
	5.3 Admin & Gen Costs									
6	Interest on Working Capital									
7	Secondary Fuel Cost									
8	Gross Annual Fixed Charges (1+2+3+4(c)+5+6+7)									
9	Less: Other Income (provide details)									
10	Net Annual Fixed Charges (8-9)									

Name of Generating Company  
Name of Generating Station

Formal for Thermal/Gas

Form: F-4.1

Computation of Energy Charges & Fuel stocks

SL No	Description	Unit	Previous Year (n-1) Actual / Audited	Current Year (n) Apr-Sep (Actual)	Current Year (n) Oct-Mar (Estimated)	Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+2) Projected
1	Rated Capacity	MW						
2	Target Availability (PLF)	%						
3	Units of Generation at Normative PLF	MU						
4	Gross Station Heat Rate (GHR)	Kcal/Kwh						
5	Specific Fuel Oil Consumption (SFC)	ml/Kwh						
6	Calorific Value of Secondary Fuel (CVSF)	Kcal/L						
7	Weighted Average Landed Price of Primary Fuel (LPPF)	Rs/MT or Rs/KL						
8	Weighted Average Landed Price of Secondary Fuel	Rs/KL						
9	Gross Calorific Value of Primary Fuel (CVPF)	Kcal/Kg						
10	Normative Auxiliary Consumption (%)	%						
11	Ex-Bus Primary Fuel Charges	Ps/Kwh						
12	Energy Generation in One Month	MU						
13	Energy Sent Out in One Month	MU						
14	Average Cost of Primary Fuel per Month	Rs. Crores						
15	Average Cost of Secondary Fuel per Month	Rs. Crores						
16	Average Cost of Main Secondary Fuel per Month (for WC)	Rs. Crores						

Name of Generating Company  
Name of Generating Station

Form: F-4.2 A

Details/Information to be Submitted in respect of Fuel for Computation of Energy Charges - Coal/Lignite

SL No	Description	Unit	Previous Year (n-1) Actual / Audited	Current Year (n)			Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected
				Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)			
1	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)							
2	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)							
3	Coal supplied by Coal/Lignite Company (1+2)	(MMT)							
4	Normative Transit & Handling Losses	(MMT)							
5	Net coal / Lignite Supplied (3-4)	(MMT)							
6	Amount charged by the Coal / Lignite Company	(Rs. Crore)							
7	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs. Crore)							
8	Total amount Charged (6+7)	(Rs. Crore)							
9	Transportation charges by rail / ship / road transport	(Rs. Crore)							
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs. Crore)							
11	Demurrage Charges, if any	(Rs. Crore)							
12	Other Charges	(Rs. Crore)							
13	Total Transportation Charges (9+/-10-11+12)	(Rs. Crore)							
14	Total amount Charged for coal/lignite supplied including Transportation (8+13)	(Rs. Crore)							
15	Rate of Coal per MT ((14/1)	Rs./MT							
16	Weighted average Rate of Coal	Rs./MT							
17	Average GCV of coal / Lignite as fired	(kCal/Kg)							
18	Weighted average GCV of coal / Lignite as fired	(kCal/Kg)							

Name of Generating Company \_\_\_\_\_  
Name of Generating Station \_\_\_\_\_

Form: F-4.2B

Details/Information to be Submitted in respect of Fuel for Computation of Energy Charges - Gas/Liquid

SL No	Description	Unit	Previous Year (n-1) Actual / Audited	Current Year (n)			Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected
				Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)			
1	Quantity of Fuel purchased	(MMSCM / KL)							
2	Amount payable to Fuel supplier	(Rs. Crore)							
3	Total Transportation Charges	(Rs. Crore)							
	Total Fuel Cost	(Rs. Crore)							
4	Weighted average GCV of Fuel	(kCal/Kg) / (kCal/KL)							

Name of Generating Company  
Name of Generating Station

Form: F- 5.1  
Statement of Gross Fixed Asset Base & Financing Plan

Final Approved Cost as on Commercial Operations Date

	Capital Expenditure	Date of commercial operation
(a) Unit/Block-1		(DD/MM/YY)
(b) Unit/Block-2		(DD/MM/YY)
(c) Unit/Block-3		(DD/MM/YY)
(d) Unit/Block-4		(DD/MM/YY)
(e) Unit/Block-5, etc.		(DD/MM/YY)

Original Financing Plan (Unitwise)

Rupee Term Loan	
Debt 1	
Debt 2 *	
Foreign Currency Loan	
Debt 1	
Debt 2 *	
Equity	
In Rupees	
In Foreign Currency	

Previous year (n-1)

(Figures in Rs Crore)			
Particulars of Assets	Opening balance	Additions during the year*	Retirement of assets during the year*
			Closing balance
a) Land			
b) Building			
c) and so on (As per categorisation given in the Regulations)			
Total			

Particulars of Assets	Opening balance	Additions during the year*	Retirement of assets during the year*	Closing balance
a) Land				
b) Building				
c) and so on (As per categorisation given in the Regulations)				
Total				

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

Form: F- 5.1  
Statement of Gross Fixed Asset Base & Financing Plan

Ensuing year (n +2) (Figures in Rs Crore)

Particulars of Assets	Opening balance	Additions during the year*	Retirement of assets during the year*	Closing balance
a) Land				
b) Building				
c) and so on (As per categorisation given in the Regulations)				
<b>Total</b>				

Ensuing year (n +3) (Figures in Rs Crore)

Particulars of Assets	Opening balance	Additions during the year*	Retirement of assets during the year*	Closing balance
a) Land				
b) Building				
c) and so on (As per categorisation given in the Regulations)				
<b>Total</b>				

\* Please provide Actual / Proposed Dates of Addition and Retirement of Fixed Assets during the year



Name of Generating Company  
Name of Generating Station

Form: F-5.2  
Statement of Asset wise Depreciation

(Figures in Rs Crore)				
Particulars of Assets	Rate of Depreciation in %	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year
a) Land				
b) Building				
c) and so on (As per categorisation given in the Regulations)				
Total				

(Figures in Rs Crore)				
Particulars of Assets	Rate of Depreciation in %	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year	
			Apr-Sep (Actual)	Oct-Mar (Estimated)
a) Land				
b) Building				
c) and so on (As per categorisation given in the Regulations)				
Total				

(Figures in Rs Crore)				
Particulars of Assets	Rate of Depreciation in %	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year
a) Land				
b) Building				
c) and so on (As per categorisation given in the Regulations)				
Total				

Name of Generating Station

Form: F- 5.2

Statement of Asset wise Depreciation

(Figures in Rs Crore)					
Particulars of Assets	Rate of Depreciation in %	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year	Balance of accumulated depreciation at the end of the year
a) Land					
b) Building					
c) and so on (As per categorisation given in the Regulations)					
Total					

(Figures in Rs Crore)					
Particulars of Assets	Rate of Depreciation in %	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year	Balance of accumulated depreciation at the end of the year
a) Land					
b) Building					
c) and so on (As per categorisation given in the Regulations)					
Total					



Name of Generating Company  
Name of Generating Station

Form: F-63  
Statement of Capital Expenditure

(Figures in Rs Crore)

Particulars	FY of COD	Previous Year (n-1)		Current Year (n)			Remarks+	Ensuing Year (n+1)		Ensuing Year (n+2)		Ensuing Year (n+3)		Remarks+	Total Expenditure Approved by Competent Authority	Total Expenditure Actually Incurred	Remarks++
		Actual / Audited		Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)		Projected		Projected		Projected					
A) Expenditure Details																	
a) Land																	
b) Building																	
c) Major Civil Works																	
d) Plant & Machinery																	
e) Vehicles																	
f) Furniture and Fixtures																	
g) Office Equipment & Others																	
Total (A)																	
B) Break up of sources of financing																	
Rupee term Loan																	
Debt 1																	
Debt 2																	
...																	
Foreign Currency Loan																	
Debt 1																	
Debt 2																	
...																	
Equity																	
In Rupees																	
In Foreign Currency																	
c) Others (Please specify)																	
Total (B)																	

Note:

- The break up wherever required and necessary may be given in respect of Loans and Equity financing supported with respective documentation.
- Copies of Approval from competent authorities may be furnished in respect of cost of project, its components and scheme of finance.
- Remarks+: Explain for the causes of deviation if the actual expenditure during the current year is expected to be different from that approved by UERC or other authorised agencies
- Remarks++: Explain for the causes of deviation if the total actual expenditure is different from that approved by UERC or the authorised agencies

Name of Generating Company  
Name of Generating Station

Form: F- 6.2  
Statement of Capital Works-in-Progress

S. No.	Particulars	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)	Remarks
		Actual / Audited	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected	Projected	Projected	
1	Opening balance of CWIP								
2	Add: New Investment								
	Capital Expenditure								
	Expenses Capitalised								
	Interest During Construction								
3	Less: Investment Capitalised								
4	Closing balance of CWIP								

Name of Generating Company \_\_\_\_\_  
Name of Generating Station \_\_\_\_\_

**Form: F- 6.3**  
**Statement of Capital Expenditure & Schedule of COD of New Projects**

Name of the Power Station:	
Name of Agency approving the Project Cost Estimates	
Date of Approval of Capital Cost Estimate	

	Present Day Cost (As on .....Date)	As approved by Competent Authority
Capital Cost		
Foreign Exchange Rate considered for capital cost estimates		

Cost Details	Amount	Exchange Rate	Amount (Rs. Crore)
<b>A) Basic Cost</b>			
Foreign Component (in Foreign Currency)			
Domestic Component			
Total Basic Cost	a		
<b>B) IDC &amp; FC</b>			
Foreign Component (in Foreign Currency)			
Indian Component			
Total IDC & FC	b		
<b>C) Total Cost (Including IDC and FC)</b>	c=(a+b)		

<b>Schedule of Commissioning</b>	
COD of Unit/Block-I	
COD of Unit/Block-II	
COD of Last Unit/Block	

**Note:**  
i) Copy of Approval to be enclosed

Name of Generating Company \_\_\_\_\_  
 Name of Generating Station \_\_\_\_\_

Form F-6.4  
 Break-up of Capital Expenditure for New Projects

Name of the Power Station:	
Name of Agency approving the Project Cost Estimates	
Date of Approval of Capital Cost Estimate	

Particulars	Total Expenditure Approved by Competent Authority	Previous year (n-1) Expenditure Actually Incurred	Current Year (n)		Total Expenditure Incurred upto Current Year	Total Expenditure supposed to be incurred till current year, as per the approved plan	Difference between column 6 and 7	Remarks	Ensuing Year (n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)
			Apr-Sep (Actual)	Oct-Mar (Estimated)							
1	2	3	4	5	6	7	8	9	10	11	12
A) Expenditure Details											
a) Land											
b) Building											
c) Major Civil Works											
d) Plant & Machinery											
e) Vehicles											
f) Furniture and Fixtures											
g) Office Equipment & Others											
Total (A)											
B) Break up of sources of financing											
a) Loans / Borrowings											
b) Equity											
c) Others (Please specify)											
Total (B)											

Note:  
 ii) Remarks: Explain for the causes of difference between 6 and 7.

Name of Generating Company \_\_\_\_\_

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

Format for Thermal/Gas

Form: F- 6.5 A

Break-up of Capital cost for Gas/Liquid based projects on COD

(Figures in Rs Crore)

Sl. No.	Head of works	Original cost as approved by	Cost-on COD	Variation	Reasons for
1	2	3	4	5	6
<b>1.0</b>	<b>Cost of Land &amp; Site Development</b>				
1.1	Land				
1.2	Rehabilitation & Resettlement (R&R)				
1.3	Preliminary Investigation & Site development				
	<b>Total Land &amp; Site Development</b>				
<b>2.0</b>	<b>Plant &amp; Equipment</b>				
2.1	Steam Turbine Generator Island				
2.2	Gas 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				
	<b>Total BOP Mechanical</b>				
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				
	<b>Total BOP Electrical</b>				
2.6	Control & Instrumentation (C & I) Package				
	<b>Total Plant &amp; Equipment excluding Taxes &amp; Duties</b>				
2.7	Taxes and Duties				
2.7.1	Custom Duty/Excise Duty/Sales Tax				
2.7.2	Other Taxes & Duties - [Octroi]				
	<b>Total Taxes &amp; Duties</b>				
	<b>Total Plant &amp; Equipment</b>				
<b>3.0</b>	<b>Initial spares</b>				
<b>4.0</b>	<b>Civil Works</b>				
4.1	Main plant/Adm. Building				
4.2	External water supply system				
4.3	CW system				
4.4	Cooling Towers				
4.5	DM water Plant				
4.6	Clarification plant				
4.7	Fuel Handling & Storage system				
4.8	Township & Colony				
4.9	Temp. construction & enabling works				
4.10	Road & Drainage				
4.11	Fire fighting System				
	<b>Total Civil works</b>				
<b>5.0</b>	<b>Construction &amp; Pre- Commissioning Expences</b>				
5.1	Erection Testing and commissioning				
5.2	Site supervision				
5.3	Operator's Training				
5.4	Construction Insurance				
5.5	Tools & Plant				



Sl. No.	Head of works	Original cost as approved by	Cost on COD	Variation	Reasons for
5.6	Start up fuel				
5.7	Other Expenses				
	<b>Total Construction &amp; Pre- Commissioning Expenses</b>				
6.0	<b>Overheads</b>				
6.1	Establishment				
6.2	Design & Engineering				
6.3	Audit & Accounts				
6.4	Contingency				
	<b>Total Overheads</b>				
7.0	<b>Capital cost excluding IDC &amp; FC</b>				
8.0	<b>IDC, FC, FERV &amp; Hedging Cost</b>				
8.1	Interest During Construction (IDC)				
8.2	Financing Charges (FC)				
8.3	Foreign Exchange Rate Variation (FERV)				
8.4	Hedging Cost				
	<b>Total of IDC, FC, FERV and Hedging Cost</b>				
9.0	<b>Capital cost including IDC, FC, FERV and Hedging</b>				

**Note:**

1. In case of time and cost over-run of the project, a detailed write-up giving justification for such time and cost over run should be submitted, clearly bringing out the agency responsible and whether such time and cost over run was beyond the control of the generating company

Name of Generating Company \_\_\_\_\_

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

Form: F- 6.5 B

Break-up of Capital cost for Coal/Lignite based projects on COD

(Figures in Rs Crore)

Sl. No.	Head of works	Original cost as approved by Authority	Cost on COD	Variation	Reasons for variation
1	2	3	4	5	6
<b>1.0</b>	<b>Cost of Land &amp; Site Development</b>				
1.1	Land				
1.2	Rehabilitation & Resettlement (R&R)				
1.3	Preliminary Investigation & Site development				
	<b>Total Land &amp; Site Development</b>				
<b>2.0</b>	<b>Plant &amp; Equipment</b>				
<b>2.1</b>	<b>Steam Generator Island</b>				
<b>2.2</b>	<b>Turbine Generator Island</b>				
<b>2.3</b>	<b>BOP Mechanical</b>				
2.3.1	External water supply system				
2.3.2	CW system				
2.3.3	DM water Plant				
2.3.4	Clarification plant				
2.3.5	Chlorination Plant				
2.3.6	Fuel Handling & Storage system				
2.3.7	Ash Handling System				
2.3.8	Coal Handling Plant				
2.3.9	Rolling Stock and Locomotives				
2.3.10	MGR				
2.3.11	Air Compressor System				
2.3.12	Air Condition & Ventilation System				
2.3.13	Fire fighting System				
2.3.14	HP/LP Piping				
	<b>Total BOP Mechanical</b>				
<b>2.4</b>	<b>BOP Electrical</b>				
2.4.1	Switch Yard Package				
2.4.2	Transformers Package				
2.4.3	Switch gear Package				
2.4.4	Cables, Cable facilities & grounding				
2.4.5	Lighting				
2.4.6	Emergency D.G. set				
	<b>Total BOP Electrical</b>				
<b>2.5</b>	<b>Control &amp; Instrumentation (C &amp; I) Package</b>				
	<b>Total Plant &amp; Equipment excluding Taxes &amp; Duties</b>				
<b>2.6</b>	<b>Taxes and Duties</b>				
2.6.1	Custom Duty/Excise Duty/Sales Tax				
2.6.2	Other Taxes & Duties - [Octroi]				
	<b>Total Taxes &amp; Duties</b>				
	<b>Total Plant &amp; Equipment</b>				
<b>3.0</b>	<b>Initial spares</b>				
<b>4.0</b>	<b>Civil Works</b>				
4.1	Main plant/Adm. Building				
4.2	CW system				
4.3	Cooling Towers				
4.4	DM water Plant				
4.5	Clarification plant				
4.6	Chlorination plant				
4.7	Fuel Handling & Storage system				
4.8	Coal Handling Plant				
4.9	MGR & Marshalling Yard				
4.10	Ash Handling System				
4.11	Ash disposal area development				

Sl. No.	Head of works	Original cost as approved by Authority	Cost on COD	Variation	Reasons for variation
4.12	Fire fighting System				
4.13	Township & Colony				
4.14	Temp. construction & enabling works				
4.15	Road & Drainage				
	<b>Total Civil works</b>				
<b>5.0</b>	<b>Construction &amp; Pre- Commissioning Expenses</b>				
5.1	Erection Testing and commissioning				
5.2	Site supervision				
5.3	Operator's Training				
5.4	Construction Insurance				
5.5	Tools & Plant				
5.6	Start up fuel				
5.7	Other Expenses				
	<b>Total Construction &amp; Pre- Commissioning Expenses</b>				
<b>6.0</b>	<b>Overheads</b>				
6.1	Establishment				
6.2	Design & Engineering				
6.3	Audit & Accounts				
6.4	Contingency				
	<b>Total Overheads</b>				
<b>7.0</b>	<b>Capital cost excluding IDC &amp; FC</b>				
<b>8.0</b>	<b>IDC, FC, FERV &amp; Hedging Cost</b>				
8.1	Interest During Construction (IDC)				
8.2	Financing Charges (FC)				
8.3	Foreign Exchange Rate Variation (FERV)				
8.4	Hedging Cost				
	<b>Total of IDC, FC, FERV and Hedging Cost</b>				
<b>9.0</b>	<b>Capital cost including IDC, FC, FERV and Hedging</b>				

**Note:**

1. In case of time and cost over-run of the project, a detailed write-up giving justification for such time and cost over run should be submitted, clearly bringing out the agency responsible and whether such time and cost over run was beyond the control of the generating company

**Form: F-6.6**  
**Break-up of Construction / Supply / Service packages on COD (For New Stations)**

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

### Draw Down Schedule for Calculation of IDC & Financing Charges

Sl. No.	Draw Down Particulars	Quarter 1			Quarter 2			Quarter n (COD)		
		Quantum in Foreign Currency	Exchange Rate on Draw Down Date	Amount in Indian Rupee	Quantum in Foreign Currency	Exchange Rate on Draw Down Date	Amount in Indian Rupee	Quantum in Foreign Currency	Exchange Rate on Draw Down Date	Amount in Indian Rupee
1.2	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.n	Indian Loan n									
	Draw Down Amount									
	IDC									
	Financing Charges									
1.2	Total Indian Loans									
	Draw Down Amount									
	IDC									
	Financing Charges									
1	Total of Loans Drawn									
	IDC									
	Financing Charges									
	FERV									
	Hedging Cost									
2	Equity									
2.1	Foreign Equity Drawn									
2.2	Indian Equity Drawn									
2	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 beginning is permissible.

2. Applicable Interest Rates including reset dates used for computation may be furnished separately.

3. In case of Multi Unit Project, details of Capitalisation ratio used to be furnished

Name of Generating Company  
Name of Generating Station

Form: F-7  
Details of Capital Cost and Financing Structure

Year ending March	FY of COD	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)	Remarks
		Actual / Audited			Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April March)	Projected	Projected	Projected	
Basic Project Financial Parameters											
Capital Cost*											
Addition during the year											
Deletion during the year											
Gross Capital Cost (A)											
Equity against Original Project Cost											
Addition during the year											
Equity Sub-Total (B)											
Debt outstanding against the original Capital cost											
New Loans added during the year											
Debt Sub-Total (C)											
Grants against original project cost											
Addition during the year											
Grants Sub-Total (D)											
Total Financing (B+C+D)											

Note :

- \*Approved or Actual Capital Cost whichever is less.
- The equity and loan shall be divided into foreign and domestic component if applicable.

Name of Generating Company \_\_\_\_\_  
Name of Generating Station \_\_\_\_\_

Form F- 8  
Details of Financial Packages

Source of Funds	Amount in FC (Name of Currency)	Exchange Rate (Rs./FC)	Amount in Indian Currency (Rs. in Crore)	Terms of Repayment (Years)	Grace Period (Years)	Interest Rate / Return on Equity (%)	Guarantee Commission (Rs. in Crore)	Upfront Fees/ Exposure Premium (Rs. in Crore)	% of Total Debt (%)	% of Total Equity (%)	% of Total PC (%)
(A) Debt											
Foreign:											
Loan I											
Loan II											
Loan III											
Loan IV etc.											
Indian:											
Loan I											
Loan II etc.											
Total Loan (A)											
(B) Equity											
Foreign:											
Indian:											
Total Equity (B)											
(C) Grants											
Foreign:											
Indian:											
Total Grant (C)											
Total Financing (A+B+C)											
Total Project Cost											

Note:

- (i) In case of projects having achieved COD: Financial package details, as admitted by the Competent Authority on COD of the Project, shall be furnished in the Format alongwith supporting documents.  
(ii) In case of projects which are yet to achieve their COD: Financial package details, as approved by the Competent Authority, shall be furnished in the Format alongwith supporting documents.  
(iii) FC- Foreign Currency  
(iii) PC- Project Cost



	Name of Generating Company
	Name of Generating Station

Form: F-91  
Statement of Outstanding Loans

Previous year (a-1)

[illegible]

(b) **REDACTED**

[illegible]

[illegible][illegible]

Fiscal year (in 3)

Loan Agency (Source of loan)	Rate of interest (%)		Repayment period (Years)		Balance at the beginning of the year		Amount to be received during the year		Principal due during the year		Principal to be redeemed during the year		Principal Overdue at the year end		Principal Due at the year end		Remarks
	Estimated	(2)	Estimated	(3)	Estimated	(4)	Estimated	(5)	Estimated	(6)	Estimated	(7)	Estimated	(8)	Estimated	(9)	
(1)																	(10)
A. Other than state government																	
Loan 1 (Name of lender)																	
Loan 2 (Name of lender)																	
Loan 3 (Name of lender), etc.																	
Sub-Total (A)																	
B. Government Loans																	
Type 1																	
Type 2																	
Type 3 etc.																	
Sub-Total (B)																	
Sub-Total (A+B)																	
C. Normative Loans																	
TOTAL (A+B+C)																	

Note: i) In case rescheduling of any loan has been undertaken, the terms of rescheduling to be specified clearly, through an attachment alongwith copy of the letter from the Lender outlining the terms of Re-scheduling.

ii) Any Loan not allocated to any Generating Station and not forming part of Approved Financial Package, to be shown separately, with reasons thereof.

iii) The original Financing Plan and the cumulative repayment as per the Original Financing Plan to be outlined for each Loan.

iv) For current year, Loans already drawn and the loan proposed to be drawn by end of year to be shown separately.

v) Any new loan from existing or new lenders to be identified separately as a Loan.

vi) In case of Foreign Currency Loans, data to be provided in the currency of borrowing alongwith the name of the currency.

Name of Generating Company \_\_\_\_\_

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

Format for Thermal/Gas

Form: F- 9.2

Calculation of Weighted Average Interest Rate of Interest on Actual Loans \*

(Figures in Rs Crore)

S.No.	Particulars	Previous Year (n-1)	Current Year (n)	Ensuing Year (n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)
				Projected	Projected	Projected
	Loan 1					
	Gross Loan - Opening					
	Cummulative payments of Loan upto Previous Year					
	Net Loan - Opening					
	Add: Drawl(s) during the year					
	Less: Repayment(s) of Loan 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					
	Cummulative payments of Loan upto Previous Year					
	Net Loan - Opening					
	Add: Drawl(s) during the year					
	Less: Repayment(s) of Loan during the year					
	Net Loan - Closing					
	Average Net Loan					
	Rate of Interest on Loan on Annual Basis					
	Interest on Loan					
	Loan n					
	Gross Loan - Opening					
	Cummulative payments of Loan upto Previous Year					
	Net Loan - Opening					
	Add: Drawl(s) during the year					
	Less: Repayment(s) of Loan 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					
	Cummulative payments of Loan upto Previous Year					
	Net Loan - Opening					
	Add: Drawl(s) during the year					
	Less: Repayment(s) of Loan during the year					
	Net Loan - Closing					
	Average Net Loan					
	Rate of Interest on Loan on Annual Basis					
	Interest on Loan					
	Weighted Average Rate of Interest on Loans					

\* In case of Foreign Loans, the calculation in Indian Rupee is to be furnished. However, the calculation in Original currency is also to be furnished separately in the same format

Name of Generating Company  
Name of Generating Station

Form: F- 9.3  
Calculation of Interest on Normative Loan

Particulars	Previous Year (n-1)	Current Year (n)	(Figures in Rs Crore)		Ensuing Year (n+3)
			Ensuing Year (n+1)	Ensuing Year (n+2)	
			Projected	Projected	Projected
Gross Normative Loan - Opening					
Cumulative payments of Normative Loan upto Previous Year					
Net Normative Loan - Opening					
Increase or Decrease due to ACE during the year					
Less: Repayment of Normative Loan during the year					
Net Normative Loan - Closing					
Average Normative Loan					
Weighted Average Rate of Interest on Actual Loan on Annual Basis					
Interest on Normative Loan					



( 259 )

### Details of Operation & Maintenance Expenses

[illegible]



S. No.	Particulars	Previous Year (n-6)	Previous Year (n-5)	Previous Year (n-4)	Previous Year (n-3)	Previous Year (n-2)	Previous Year (n-1)	Current Year (n)			Ending Year (n+1)	Ending Year (n+2)	Ending Year (n+3)	Remarks
		Actual / Audited	Actual / Audited	Actual / Audited	Actual / Audited	Actual / Audited	Actual / Audited	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Estimated	Estimated	Estimated	
	- Terminal Benefits													
	Sub-Total													
d)	Corporate Office expenses Allocated													
	- Employee expenses													
	- Repair and maintenance													
	- Training and Recruitment													
	- Communication													
	- Travelling													
	- Security													
	- Rent													
	- Others (specify elements)													
	Sub-Total													
	Total O&M Expenses													
	Less: O&M Expenses Capitalised													
	Net O&M Expenses													

Notes 1 : (i) The process of allocation of corporate expenses to generating stations should be specified.

(ii) The data should be certified by statutory auditors.

**Form: R-11.1**  
**Details of Repair & Maintenance Expenditure**

[illegible]

Form: F-112  
Details of Employee Expenses[illegible]

### B. Details of number of employees

[illegible]

### Details of Administration & General Expenses

Details of Administration & General Expenses										Remarks	
S.No	Particulars	Previous Year (n-6)	Previous Year (n-5)	Previous Year (n-4)	Previous Year (n-3)	Previous Year (n-2)	Previous Year (n-1)	Current Year (n)		Ending Year (n+2)	Ending Year (n+3)
		(Actuals/ Audited)	(Actuals/ Audited)	(Actuals/ Audited)	(Actuals/ Audited)	(Actuals/ Audited)	(Actuals/ Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Projected	Projected
A	Administrative Expenses										
1	Rent rates and taxes										
	Lease / Rent										
	Rates & Taxes										
2	Insurance										
3	Revenue Stamp Expenses Account										
4	Telephone, Postage, Telegram & Telex Charges										
5	Incentive & Award To Employees/Outsiders										
6	Consultancy Charges										
7	Technical Fees										
8	Other Professional Charges										
9	Conveyance And Travelling										
10	Licence And Registration Fee Of Plant And Machinery Vehicles										
11	Vehicles Expenses (Other Than Trucks And Delivery Vans)										
	Hiring Of Vehicles										
12	Security / Service Charges Paid To Outside Agencies										
	Sub-Total 'A' (1 To 12)										
B	Other Charges										
1	Fee And Subscriptions Books And Periodicals										
2	Printing And Stationery										
3	Advertisement Expenses (Other Than Purchase Related Exhibition & Demo.										
4	Contributions/Donations To Outside Institutes / Associations										
5	Electricity Charges To Offices										
6	Water Charges										
7	Entertainment Charges										
8	Miscellaneous Expenses										
	Sub-Total 'B' (1 To 8)										
C	Legal Charges										
D	Auditor's Fee										
E	Material Related Expenses										
1	Freight On Capital Equipments										
2	Purchase Related Advertisement Expenses										
3	Vehicle running and hiring expenses (Truck/ Delivery Van)										
4	Other Freight										
5	Transit Insurance										
6	Octroi										
7	Incidental Stores Expenses										
8	Fabrication Charges										
	Sub Total 'E' (1 To 9)										
F	Grand Total (A To E)										
G	A&G expenses capitalized										
H	Net A&G Expenses (F - G)										

Sl. No.	Description	Previous Year (n-1) (Actuals / Audited)	Current Year (n)			Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected
			Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)			
<b>A</b>	<b>Income from Investment, Fixed &amp; Call Deposits</b>							
1	Interest Income from Investments							
2	Interest on fixed deposits							
3	Interest from Banks other than Fixed Deposits							
4	Interest on (any other items)							
	<b>Sub-Total</b>							
<b>B</b>	<b>Other Non Tariff Income</b>							
1	Interest on loans and Advances to staff							
2	Interest on Loans and Advances to Licensee							
3	Interest on Loans and Advances to Lessors							
4	Interest on Advances to Suppliers / Contractors							
5	Income from Trading (other than Electricity)							
6	Gain on Sale of Fixed Assets							
7	Income / Fee / Collection against staff welfare activities							
8	Miscellaneous receipts							
9	Delayed payment charges from beneficiary							
10	Net profit from U I charges							
12	Penalty for contractor / supplier for delay etc.							
13	Misc. charges from beneficiary							
	<b>Sub-Total</b>							
	<b>Total</b>							

Name of Generating Company  
Name of Generating Station

Form: F-13

Summary of Truing Up

Previous Year (n-1) for Final Truing Up

S. No.	Particulars	Approved	Actual	Deviation	Reason for Deviation	Controllable	Uncontrollable
<b>A.</b>	<b>Total Annual Fixed Charges</b>						
1	Interest on Loan (Including Interest on Normative Loans)						
2	Depreciation						
3	Lease Charge						
4	Return on Equity						
5	O&M Expenses						
6	Interest on Working Capital						
7	Secondary Fuel Cost						
8	Income Tax						
9	Gross Annual Fixed Charges (1+2+3+4+5+6+7+8)						
10	Less: Other Income (provide details)						
11	Net Annual Fixed Charges (9-10)						
<b>B</b>	<b>Energy Charges (Primary Fuel Cost)</b>						
<b>C</b>	<b>Revenue from Sale of Power</b>						
<b>D</b>	<b>Surplus/(Gap) (C-B-A)</b>						

Note: Please give detailed explanation separately for the deviations on account of uncontrollable factors

Current Year (n) for Annual Performance Review

S. No.	Particulars	Approved	Revised Estimates based on Half Year Actual Performance	Deviation	Reason for Deviation	Controllable	Uncontrollable
<b>A.</b>	<b>Net Annual Fixed Charges</b>						
1	Interest on Loan (Including Interest on Normative Loans)						
2	Depreciation						
3	Lease Charge						
4	Return on Equity						
5	O&M Expenses						
6	Interest on Working Capital						
7	Secondary Fuel Cost						
8	Income Tax						
9	Gross Annual Fixed Charges (1+2+3+4+5+6+7+8)						
10	Less: Other Income (provide details)						
11	Net Annual Fixed Charges (9-10)						
<b>B</b>	<b>Energy Charges (Primary Fuel Cost)</b>						
<b>C</b>	<b>Revenue from Sale of Power</b>						
<b>D</b>	<b>Surplus/(Gap) (C-B-A)</b>						

Note: Please give detailed explanation separately for the deviations on account of uncontrollable factors

### Details of Administration & General Expenses

[illegible]



## Summary of Aggregate Revenue Requirement

(Figures in Rs Crore)												
S.No.	Particulars	Previous Year (n-1)		Current Year (n)			Ensuing Year (n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)	Remarks		
		(Actuals/Audited)		Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected	Projected	Projected			
1	2	4	5	6	7 = 6+5	8	9	10	11			
1	Receipts											
a	Revenue from fees and charges for system operation											
b	Tariff for Decision Support System and IT Infrastructure											
c	Operating Charges											
d	Grants and Other Contributions by Government											
e	Other Receipts & Income											
	Total											
2	Expenditure											
a	O&M Expenses											
b	Depreciation											
c	Interest & Finance Charges											
d	Interest on Working Capital											
e	Lease Charges											
f	RLDC fees and charges											
	Total											
3	Surplus(+) / Shortfall(-) : (1)-(2)											
4	RoE											
5	Annual Revenue Requirement (2)+(4)											

[illegible]

## Form F-2.2

## Capital Contribution, Grants, Subsidies

S. No.	Particulars	Previous Year (n-1)  (Actuals/Audited)	Current Year (n)			Ensuing Year (n+1)  Projected	Ensuing Year (n+2)  Projected	Figures in Rs Crore		Remarks
			Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)  6 = 4+5			Ensuing Year (n+3)  Projected	Projected	
1	2	3	4	5	6 = 4+5	7	8	9	10	
1	Subsidy towards cost of Capitals Asset									
2	Grant towards cost of Capitals Assets									
3	Receipts from State Govt. under any scheme as grant/ subsidy									
Total (1+2+3)										

Form: F - 3

Operation and Maintenance Expenses

S. NO.	Particulars	Previous Year (n-1) (Actuals/Audited)	Current Year (n)			Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected	Remarks
			Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March) 6 = 4+5				
1	2	3	4	5	6 = 4+5	7	8	9	10
1	Employee Expenses								
2	Administration and General Expenses								
3	Repair & Maintenance Expenses								
	Total								

**Employee Expenses**

**Employee Expenses**

[illegible]

### B. Details of number of employees

[illegible]

### Administration and General Expenses

[illegible]

[illegible]



Form: F - 3.4

Summary of Expenses Capitalised

(Figures in Rs Crore)												
S. No	Particulars	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)	Remarks			
		(Actuals/Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected	Projected	Projected				
1	2	4	5	6	7 = 5+6	7	8	9	12			
1	Employee expenses											
2	A & G Expenses											
3	R & M Expenses											
4	Depreciation											
5	Others, if any											
	Grand Total											

Form: F - 4.1

**Gross Fixed Asset**

Previous Year (n-1)

Actual/ Audited

(Figures in Rs Crore)

S. No.	Particular	Rate of depreciation	Gross Fixed assets			
			At the beginning of the year	Additions during the year	Adjustment & deductions	At the end of the year
1	2	3	4	5	6	7
1	Lands & Rights					
2	Buildings and structures / civil works					
3	Plant & Machinery					
4	Cables & network					
5	Communication equipments					
6	Airconditioning plant					
7	Furniture & Fixtures					
8	Office equipments					
9	Vehicles					
10	SCADA and IT system					
11	Other equipmentment					
	Total					

Current Year (n)

Actual/ Estimated

S. No.	Particular	Rate of depreciation	Gross fixed assets			
			At the beginning of the year	Additions during the year	Adjustment & deductions	At the end of the year
1	2	3	4	5	6	7
1	Lands & Rights					
2	Buildings and structures / civil works					
3	Plant & Machinery					
4	Cables & network					
5	Communication equipments					
6	Airconditioning plant					
7	Furniture & Fixtures					
8	Office equipments					
9	Vehicles					
10	SCADA and IT system					
11	Other equipmentment					
	Total					

Ensuing Year (n+1)

S. No.	Particular	Rate of depreciation	Gross fixed assets			
			At the beginning of the year	Additions during the year	Adjustment & deductions	At the end of the year
1	2	3	4	5	6	7
1	Lands & Rights					
2	Buildings and structures / civil works					
3	Plant & Machinery					
4	Cables & network					
5	Communication equipments					
6	Airconditioning plant					
7	Furniture & Fixtures					
8	Office equipments					
9	Vehicles					
10	SCADA and IT system					
11	Other equipmentment					
12	Other equipmentment					
	Total					

Form: F - 4.1  
Gross Fixed Asset

Ensuing Year (n+2)

S. No.	Particular	Rate of depreciation	Gross fixed assets			
			At the beginning of the year	Additions during the year	Adjustment & deductions	At the end of the year
1	2	3	4	5	6	7
1	Lands & Rights					
2	Buildings and structures / civil works					
3	Plant & Machinery					
4	Cables & network					
5	Communication equipments					
6	Airconditioning plant					
7	Furniture & Fixtures					
8	Office equipments					
9	Vehicles					
10	SCADA and IT system					
11	Other equipmment					
	Total					

Ensuing Year (n+3)

S. No.	Particular	Rate of depreciation	Gross fixed assets			
			At the beginning of the year	Additions during the year	Adjustment & deductions	At the end of the year
1	2	3	4	5	6	7
1	Lands & Rights					
2	Buildings and structures / civil works					
3	Plant & Machinery					
4	Cables & network					
5	Communication equipments					
6	Airconditioning plant					
7	Furniture & Fixtures					
8	Office equipments					
9	Vehicles					
10	SCADA and IT system					
11	Other equipmment					
	Total					

## Asset-wise Depreciation

Previous Year (n-1)

Actual/ Audited

(Figures in Rs Crore)

S. No.	Particular	Rate of depreciation	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year	Balance of accumulated depreciation at the end of the year
1	2	3	4	5	6	7
1	Lands & Rights					
2	Buildings and structures / civil works					
3	Plant & Machinery					
4	Cables & network					
5	Communication equipments					
6	Airconditioning plant					
7	Furniture & Fixtures					
8	Office equipments					
9	Vehicles					
10	SCADA and IT system					
11	Other equipment					
	Total					

Current Year (n)

Actual/ Estimated

(Figures in Rs Crore)

S. No.	Particular	Rate of depreciation	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year		Withdrawals during the year		Balance of accumulated depreciation at the end of the year
1	2	3	4	Apr-Sep (Actual)	Oct-Mar (Estimated)	Apr-Sep (Actual)	Oct-Mar (Estimated)	9
1	Lands & Rights			5	6	7	8	
2	Buildings and structures / civil works							
3	Plant & Machinery							
4	Cables & network							
5	Communication equipments							
6	Airconditioning plant							
7	Furniture & Fixtures							
8	Office equipments							
9	Vehicles							
10	SCADA and IT system							
11	Other equipment							
	Total							

Form: F - 42

## Asset-wise Depreciation

Ensuing Year (n+1)

S. No.	Particular	Rate of depreciation	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year	Balance of accumulated depreciation at the end of the year
1	2	3	4	5	6	7
1	Lands & Rights					
2	Buildings and structures / civil works					
3	Plant & Machinery					
4	Cables & network					
5	Communication equipments					
6	Airconditioning plant					
7	Furniture & Fixtures					
8	Office equipments					
9	Vehicles					
10	SCADA and IT system					
11	Other equipment					
	Total					

Ensuing Year (n+2)

S. No.	Particular	Rate of depreciation	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year	Balance of accumulated depreciation at the end of the year
1	2	3	4	5	6	7
1	Lands & Rights					
2	Buildings and structures / civil works					
3	Plant & Machinery					
4	Cables & network					
5	Communication equipments					
6	Airconditioning plant					
7	Furniture & Fixtures					
8	Office equipments					
9	Vehicles					
10	SCADA and IT system					
11	Other equipment					
	Total					

Form F - 4.2

## Asset-wise Depreciation

Ensuing Year (n+3)

S. No.	Particular	Rate of depreciation	Accumulated Depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year	(Figures in Rs Crore)	
						Balance of accumulated depreciation at the end of the year	
1	2	3	4	5	6	7	
1	Lands & Rights						
2	Buildings and structures / civil works						
3	Plant & Machinery						
4	Cables & network						
5	Communication equipments						
6	Airconditioning plant						
7	Furniture & Fixtures						
8	Office equipments						
9	Vehicles						
10	SCADA and IT system						
11	Other equipment						
	Total						

## Form: F - 5

## Investment Plan for Next 3 Years

(Figures in Rs Crore)

S. No.	Name of Scheme / Description of investment	Total Project Cost	Ensuing Year (n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)
1	2	3	4	5	6
1	Enhancement of Real Time Data Acquisition Capability				
2	Establishment of Training & System Studies Facilities at LD Centre				
3	Development of Application Software for Operator Assistance				
4	Effective Communication System				
5	Energy Accounting Balanceing & Settlement Mechanism.				
6	Infrastructural Development				
7	Any other Investment (Please Specify)				
	Total				

Form F - 6.1

## Statement of Capital Expenditure

Particulars	FY of Capitalisation	Previous Year (n-1) Actual / Audited	Current Year (n)			Ending Year (n+1) Projected	Ending Year (n+2) Projected	Ending Year (n+3) Projected	Remarks +	Total Expenditure Approved by Competent Authority	Total Expenditure Actually Incurred	Remarks++
			Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April-March)							
A) Expenditure Details												
Lands & Rights												
Buildings and structures / civil works												
Plant & Machinery												
Cables & network												
Communication equipments												
Airconditioning plant												
Furniture & Fixtures												
Office equipments												
Vehicles												
SCADA and IT system												
Other equipment												
Total (A)												
B) Break up of sources of financing												
Rupee term Loan												
Debt 1												
Debt 2												
....												
Foreign Currency Loan												
Debt 1												
Debt 2												
....												
Equity												
In Rupees												
In Foreign Currency												
c) Others (Please specify)												
Total (B)												

## Note:

- The break up wherever required and necessary may be given in respect of Loans and Equity financing supported with respective documentation.
- Copies of Approval from competent authorities (if required) may be furnished in respect of cost of each Scheme, its components and scheme of finance.
- Remarks+: Explain for the causes of deviation if the actual expenditure during the current year is expected to be different from that approved by UERC or other authorised agencies
- Remarks++: Explain for the causes of deviation if the total actual expenditure is different from that approved by UERC or the authorised agencies



## Form: F - 6.2

## Statement of Capital Works-in-Progress

S. No	Particulars	Year 1	Previous Year (n-1) Actual/ Audited	Current Year (n)			Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected	Remarks
				Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)				
1	Opening balance of CWIP									
2	Add: New Investment									
	Capital Expenditure									
	Expenses Capitalised									
	Interest During Construction									
3	Less: Investment Capitalised									
4	Closing balance of CWIP									

Note:

i) Year 1 is the financial year closing after completion of Scheme.



Sl. No.	Draw Down	Quarter 1			Quarter 2			Quarter n (COD)		
		Quantum in Foreign Currency	Exchange Rate on Draw Down Date	Amount in Indian Rupee	Quantum in Foreign Currency	Exchange Rate on Draw Down Date	Amount in Indian Rupee	Quantum in Foreign Currency	Exchange Rate on Draw Down Date	Amount in Indian Rupee
1.2	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.n	Indian Loan n									
	Draw Down Amount									
	IDC									
	Financing Charges									
1.2	Total Indian Loans									
	Draw Down Amount									
	IDC									
	Financing Charges									
1	Total of Loans Drawn									
	IDC									
	Financing Charges									
	FERV									
	Hedging Cost									
2	Equity									
2.1	Foreign Equity Drawn									
2.2	Indian Equity Drawn									
2	Total Equity Deployed									

Note: 1. Draw of Debt and Equity shall be on pari passu basis quarter wise to meet the Completion schedule. Draw of higher Equity in beginning is permissible.

2. Applicable Interest Rates including reset dates used for computation may be furnished separately.

Form F- 8  
Details of Capital Cost and Financing Structure

Year ending March	FY of Capitalisation	Previous Year (n-1) Actual / Audited	Current Year (n)			Ensnung Year (n+1) Projected	Ensnung Year (n+2) Projected	Ensnung Year (n+3) Projected	Remarks
			Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)				
Basic Project Financial Parameters									
Capital Cost*									
Addition during the year									
Deletion during the year									
Gross Capital Cost (A)									
Equity against Original Project Cost									
Addition during the year									
Equity Sub-Total (B)									
Debt outstanding against the original Capital cost									
New Loans added during the year									
Debt Sub-Total (C)									
Grants against original project cost									
Addition during the year									
Grants Sub-Total (D)									
Total Financing (B+C+D)									

Note:

- \*Approved or Actual Capital Cost whichever is less.
- The equity and loan shall be divided into foreign and domestic component if applicable.

Form: F - 9  
Details of Financial Packages

Source of Funds	Amount in FC (Name of Currency)	Exchange Rate (Rs./FC)	Amount in Indian Currency (Rs. in Crore)	Terms of Repayment (Years)	Grace Period (Years)	Interest Rate/ Return on Equity (%)	Guarantee Commission (Rs. in Crore)	Upfront Fees/ Exposure Premium (Rs. in Crore)	% of Total Debt (%)	% of Total Equity (%)	% of Total PC (%)
(A) Debt											
Foreign:											
Loan I											
Loan II											
Loan III											
Loan IV etc.											
Indian:											
Loan I											
Loan II etc.											
Total Loan (A)											
(B) Equity											
Foreign:											
Indian:											
Total Equity (B)											
(C) Grants											
Foreign:											
Indian:											
Total Grant (C)											
Total Financing (A+B+C)											
Total Project Cost											

Note:

- (i) In case of projects having achieved COD: Financial package details, as admitted by the Competent Authority on COD of the Project, shall be furnished in the Format alongwith supporting documents.  
(ii) In case of projects which are yet to achieve their COD: Financial package details, as approved by the Competent Authority, shall be furnished in the Format alongwith supporting documents.  
(iii) FC- Foreign Currency  
PC- Project Cost

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Ensuing year (n+3)		(Figures in Rs Crores)									
Loan Agency (Source of loan)	Rate of interest (%)	Repayment period (Years)	Balance at the beginning of the year	Amount to be received during the year	Principal due during the year	Principal to be redeemed during the year	Principal Overdue at the year end	Principal Due at the year end	Remarks		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(6)-(7)	(9)=(4)+(5)-(6)	(10)		
A. Other than state government											
Loan 1 (Name of lender)											
Loan 2 (Name of lender)											
Loan 3 (Name of lender), etc.											
Sub-Total (A)											
B. Government Loans											
Type 1											
Type 2											
Type 3 etc.											
Sub-Total (B)											
Sub-Total (A+B)											
C. Normative Loans											
TOTAL (A+B+C)											

Note: i) In case rescheduling of any loan has been undertaken, the terms of rescheduling to be specified clearly, through an attachment alongwith copy of the letter from the Lender outlining the terms of Re-scheduling.

ii) Any loan not allocated to any specific Scheme and not forming part of Approved Financial Package, to be shown separately, with reasons thereof.

iii) The original Financing Plan and the cumulative repayment as per the Original Financing Plan to be outlined for each Loan.

iv) For current year, Loans already drawn and the loan proposed to be drawn by end of year to be shown separately.

v) Any new loan from existing or new lenders to be identified separately as a Loan.

vi) In case of Foreign Currency Loans, data to be provided in the currency of borrowing alongwith the name of the currency..



Form: F - 10.2

Calculation of Weighted Average Interest Rate of Interest on Actual Loans \*

(Figures in Rs Crore)						
S.No.	Particulars	Previous Year (n-1)	Current Year (n)	Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected
	<b>Loan 1</b>					
	Gross Loan - Opening					
	Cumulative payments of Loan upto Previous Year					
	Net Loan - Opening					
	Add: Drawl(s) during the year					
	Less: Repayment(s) of Loan during the year					
	Net Loan - Closing					
	Average Net Loan					
	Rate of Interest on Loan on Annual Basis					
	Interest on Loan					
	<b>Loan 2</b>					
	Gross Loan - Opening					
	Cumulative payments of Loan upto Previous Year					
	Net Loan - Opening					
	Add: Drawl(s) during the year					
	Less: Repayment(s) of Loan during the year					
	Net Loan - Closing					
	Average Net Loan					
	Rate of Interest on Loan on Annual Basis					
	Interest on Loan					
	<b>Loan n</b>					
	Gross Loan - Opening					
	Cumulative payments of Loan upto Previous Year					
	Net Loan - Opening					
	Add: Drawl(s) during the year					
	Less: Repayment(s) of Loan during the year					
	Net Loan - Closing					
	Average Net Loan					
	Rate of Interest on Loan on Annual Basis					
	Interest on Loan					
	<b>Total Loan</b>					
	Gross Loan - Opening					
	Cumulative payments of Loan upto Previous Year					
	Net Loan - Opening					
	Add: Drawl(s) during the year					
	Less: Repayment(s) of Loan during the year					
	Net Loan - Closing					
	Average Net Loan					
	Rate of Interest on Loan on Annual Basis					
	Interest on Loan					
	<b>Weighted Average Rate of Interest on Loans</b>					

\* In case of Foreign Loans, the calculation in Indian Rupee is to be furnished. However, the calculation in Original currency is also to be furnished separately in the same format

Form: F - 10.3  
Calculation of Interest on Normative Loan

Particulars	Previous Year (n-1)	Current Year (n)	(Figures in Rs Crore)		
			Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected
Gross Normative Loan - Opening					
Cumulative payments of Normative Loan upto Previous Year					
Net Normative Loan - Opening					
Increase or Decreased due to ACE during the year					
Less: Repayment of Normative Loan during the year					
Net Normative Loan - Closing					
Average Normative Loan					
Weighted Average Rate of Interest on Actual Loan on Annual Basis					
Interest on Normative Loan					

Form: F - 11

## Working Capital Requirement

(Figures in Rs Crore)

S.No.	Particulars	Previous Year (n-1) (Actuals/Audited)	Current Year (n)			Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected	Remarks
			Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)				
1	O&M expenses (equivalent to 1 month)								
2	Maintenance Spare (15% of operation and maintenance expenses)								
3	Receivables (Two months of SLDC Charges)								
4	Total Working capital								
5	Interest Rate (State Bank Advance Rate (SBAR))								
6	Interest on Working capital								

Form: F - 12

RLDC Fees and Charges

(Figures in Rs Crore)

S.No.	Particulars	Previous Year (n-1) (Actuals/Audited)	Current Year (n)			Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected	Remarks
			Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)				
1	NRLDC Fees								
2	NRLDC Charges								
3	ULDC Scheme charges								
4	NRPC Charges								
5	Other Costs (related to RLDC), if any								
	Grand Total								

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Revenue from Proposed Fee and Charges in Ensuing Years

[illegible]

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S.No.	Format No.	Description	
1	Form 1	Aggregate Revenue Requirement	
2	Form 2	Return on Equity	
3	Form 3	Details of Transmission Lines and Sub-Stations	
4	Form 4	Transmission Losses	
5	Form 5	Transmission Availability Factor	
6	Form 6	Income from investments, Non-tariff income and Other Business	
7	Form 7	Open Access related charges	
8	Form 8	Operations and Maintenance Expenses	
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24	Form: 14	Details of Financial Packages	
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25	Form 16	Interest and Finance Charges	
26	Form 17	Details of Interest on Working Capital	
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29	Form 20	Summary of Truing Up	
30	Form 21.1	Shunt Capacitor Addition / Repair Program	
31	Form 21.2	Electrical Accidents	
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### Format for Transmission

[illegible]

Name of Transmission Licensee													
Form 6													
Income from Investments, Non-tariff income and Other Business												(Figures in Rs Crore)	
S.No	Particulars	Previous Year (n-1) (Actuals / Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Ensuing Year (n+1) Projected	Ensuing Year (n+2) Projected	Ensuing Year (n+3) Projected					
<b>A</b>	<b>Income from Investments</b>												
1	Interest Income from Investments												
2	Interest on fixed deposits												
3	Interest from Banks other than Fixed Deposits												
4	Interest on any other items												
	<b>Sub-Total (a)</b>												
<b>B</b>	<b>Other Non Tariff Income</b>												
1	Interest on loans and Advances to Staff												
2	Interest on Loans and Advances to Lessors												
3	Interest on Advances to Suppliers / Contractors												
4	Gain on Sale of Fixed Assets												
5	Income/Fee/Collection against staff welfare activities												
6	Revenue from surcharges for late payment												
7	Revenue from surcharge for low power factor and other penal charges												
8	Miscellaneous receipts												
9	Misc. charges from consumers												
	<b>Sub-Total (b)</b>												
<b>C</b>	<b>Income from Other Business</b>												
	Income from other business under Section 41 of EA, 2003												
	<b>Total (a)+(b)+(c)</b>												

1. SUMMARY OF TRANSMISSION									
	Name of Transmission Licensee								
	Form 7								
	Open Access related charges								
S.No	Particulars	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)	(Figures in Rs Crore)
		(Actuals / Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected	Projected	Projected	
1	Grid support charges								
2	Reactive energy drawl charges								
3	Scheduling and system operation charges								
4	Inter-state transmission charges (for open access consumers)								
5	Handling and Service Charges								
6	Any other levies as approved by the Commission								
	<b>Total</b>								

[illegible]

[illegible]



Name of Transmission Licensee													
Form 1.1													
Employee Expenses													
Particulars													
S. No.	Previous Year (n-8)	Previous Year (n-6)	Previous Year (n-5)	Previous Year (n-4)	Previous Year (n-3)	Previous Year (n-2)	Previous Year (n-1)	Current Year (n)		Enabling Year (n+1)	Enabling Year (n+2)	Enabling Year (n+3)	Remarks
	(Actual/Audited)	(Actual/Audited)	(Actual/Audited)	(Actual/Audited)	(Actual/Audited)	(Actual/Audited)	(Actual/Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April-March)	Projected	Projected	Projected
A. Employee's Cost (Other Than Covered in C & D)													
1	Salaries												
B. Details of number of employees													
S. No.	Item	Previous Year (n-8)	Previous Year (n-5)	Previous Year (n-4)	Previous Year (n-3)	Previous Year (n-2)	Previous Year (n-1)	Current Year (n)		Enabling Year (n+1)	Enabling Year (n+2)	Enabling Year (n+3)	Remarks
		(Actual/Audited)	(Actual/Audited)	(Actual/Audited)	(Actual/Audited)	(Actual/Audited)	(Actual/Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April-March)	Projected	Projected	Projected
A Officer/Managerial Cadre													
1	Technical												
2	Administrative												
3	Accounts and finance												
4	Other (Please specify)												
B Staff Cadre													
5	Technical												
5.1	Grade I												
5.2	Grade II												
5.3	Grade III												
5.4	Grade IV												
C Administrative													
6.1	Grade I												
6.2	Grade II												
6.3	Grade III												
6.4	Grade IV												
D Accounts and finance													
7.1	Grade I												
7.2	Grade II												
7.3	Grade III												
7.4	Grade IV												
E Others (Please specify)													
8.1	Grade I												
8.2	Grade II												
8.3	Grade III												
8.4	Grade IV												
Total Employees													

[illegible]



Name of Transmission Licensee											
Form 9.1											
Statement of Total Gross Fixed Asset											
Previous year (n-1)										(Figures in Rs Crore)	
Particulars of Assets		Opening balance		Additions during the year		Retirement of assets during the year		Closing balance			
a) Land											
b) Building											
c) and so on (As per categorisation given in the Regulations)											
Total											
Current Year (n)										(Figures in Rs Crore)	
Particulars of Assets		Opening Balance		Additions of assets during the year		Retirement of assets during the year		Closing balance			
a) Land				Apr-Sep (Actual)		Oct-Mar (Estimated)		Apr-Sep (Actual)		Oct-Mar (Estimated)	
b) Building											
c) and so on (As per categorisation given in the Regulations)											
Total											

<b>Form 9.1</b>					
<b>Statement of Total Gross Fixed Asset</b>					
<b>Ensuing year (n +1)</b>					
<b>Particulars of Assets</b>	<b>Opening balance</b>	<b>Additions during the year</b>	<b>Retirement of assets during the year</b>	<b>Closing balance</b>	(Figures in Rs Crore)
a) Land					
b) Building					
c) and so on (As per categorisation given in the Regulations)					
<b>Total</b>					
<b>Ensuing year (n +2)</b>					
<b>Particulars of Assets</b>	<b>Opening balance</b>	<b>Additions during the year</b>	<b>Retirement of assets during the year</b>	<b>Closing balance</b>	(Figures in Rs Crore)
a) Land					
b) Building					
c) and so on (As per categorisation given in the Regulations)					
<b>Total</b>					
<b>Ensuing year (n +3)</b>					
<b>Particulars of Assets</b>	<b>Opening balance</b>	<b>Additions during the year</b>	<b>Retirement of assets during the year</b>	<b>Closing balance</b>	(Figures in Rs Crore)
a) Land					
b) Building					
c) and so on (As per categorisation given in the Regulations)					
<b>Total</b>					



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<b>Form 9.3</b>					
<b>Statement of GFA funded through Deposit Works/Capital Subsidy/Grant</b>					
<b>b) Building</b>					
c) Major Civil Works					
d) Plant & Machinery					
e) Lines and Cable Network					
f) Vehicles					
g) Furniture and Fixtures					
h) Office Equipment & Other Items					
<b>Total</b>					
<b>Ensuing year (n +3)</b>				(Figures in Rs Crore)	
<b>Particulars of Assets</b>	<b>Opening balance</b>	<b>Additions during the year</b>	<b>Retirement of assets during the year</b>	<b>Closing balance</b>	
a) Land					
b) Building					
c) Major Civil Works					
d) Plant & Machinery					
e) Lines and Cable Network					
f) Vehicles					
g) Furniture and Fixtures					
h) Office Equipment & Other Items					
<b>Total</b>					



Name of Transmission Licensee									
Form 9.4									
Statement of GFA excluding Assets funded through Deposit Works/Capital Subsidy/Grant									
Previous year (n-1)								(Figures in Rs Crore)	
Particulars of Assets		Opening balance		Additions during the year		Retirement of assets during the year		Closing balance	
a) Land									
b) Building									
c) Major Civil Works									
d) Plant & Machinery									
e) Lines and Cable Network									
f) Vehicles									
g) Furniture and Fixtures									
h) Office Equipment & Other Items									
Total									
Current Year (n)								(Figures in Rs Crore)	
Particulars of Assets		Opening Balance		Additions of assets during the year		Retirement of assets during the year		Closing balance	
				Apr-Sep (Actual)		Oct-Mar (Estimated)		Apr-Sep (Actual)	
a) Land									
b) Building									
c) Major Civil Works									
d) Plant & Machinery									
e) Lines and Cable Network									
f) Vehicles									
g) Furniture and Fixtures									
h) Office Equipment & Other Items									
Total									

Form 9.4					
Statement of GFA excluding Assets funded through Deposit Works/Capital Subsidy/Grant					
Ensuing year (n +1)		(Figures in Rs Crore)			
Particulars of Assets	Opening balance	Additions during the year	Retirement of assets during the year	Closing balance	
a) Land					
b) Building					
c) Major Civil Works					
d) Plant & Machinery					
e) Lines and Cable Network					
f) Vehicles					
g) Furniture and Fixtures					
h) Office Equipment & Other Items					
Total					
Ensuing year (n +2)		(Figures in Rs Crore)			
Particulars of Assets	Opening balance	Additions during the year	Retirement of assets during the year	Closing balance	
a) Land					
b) Building					
c) Major Civil Works					
d) Plant & Machinery					
e) Lines and Cable Network					
f) Vehicles					
g) Furniture and Fixtures					
h) Office Equipment & Other Items					
Total					
Ensuing year (n +3)		(Figures in Rs Crore)			
Particulars of Assets	Opening balance	Additions during the year	Retirement of assets during the year	Closing balance	
a) Land					
b) Building					
c) Major Civil Works					
d) Plant & Machinery					
e) Lines and Cable Network					
f) Vehicles					
g) Furniture and Fixtures					
h) Office Equipment & Other Items					
Total					

Name of Transmission Licensee															
Form 10.1															
Statement of Asset wise Depreciation															
Previous year (n-1)															
Particulars of Assets		Rate of Depreciation in %	Accumulated depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year	Balance of accumulated depreciation at the end of the year									
a) Land															
b) Building															
c) and so on (As per categorisation given in the Regulations)															
Total															
Current Year (n)															
Particulars of Assets		Rate of Depreciation in %	Accumulated depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year	Balance of accumulated depreciation at the end of the year									
a) Land															
b) Building															
c) and so on (As per categorisation given in the Regulations)															
Total															

Form 10.1									
Statement of Asset wise Depreciation									
Ensuing year (n+1)									
Particulars of Assets	Rate of Depreciation in %	Accumulated depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year	Balance of accumulated depreciation at the end of the year				
a) Land									
a) Lend									
b) Building									
c) and so on (As per categorisation given in the Regulations)									
Total									
Ensuing year (n+2)									
Particulars of Assets	Rate of Depreciation in %	Accumulated depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year	Balance of accumulated depreciation at the end of the year				
a) Land									
b) Building									
c) and so on (As per categorisation given in the Regulations)									
Total									
Ensuing year (n+3)									
Particulars of Assets	Rate of Depreciation in %	Accumulated depreciation at the beginning of the year	Depreciation provided for the year	Withdrawals during the year	Balance of accumulated depreciation at the end of the year				
a) Land									
b) Building									
c) and so on (As per categorisation given in the Regulations)									
Total									

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Name of Transmission Licensee						Format for Transmission	
Form: 15.2							
Calculation of Weighted Average Interest Rate of Interest on Actual Loans *							
(Figures in Rs Crore)							
S.No.	Particulars	Previous Year (n-1)	Current Year (n)	Ensuing Year-(n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)	
				Projected	Projected	Projected	
	<b>Loan 1</b>						
	Gross Loan - Opening						
	Cummulative payments of Loan upto Previous Year						
	Net Loan - Opening						
	Add: Drawl(s) during the year						
	Less: Repayment(s) of Loan during the year						
	Net Loan - Closing						
	Average Net Loan						
	Rate of Interest on Loan on Annual Basis						
	Interest on Loan						
	<b>Loan 2</b>						
	Gross Loan - Opening						
	Cummulative payments of Loan upto Previous Year						
	Net Loan - Opening						
	Add: Drawl(s) during the year						
	Less: Repayment(s) of Loan during the year						
	Net Loan - Closing						
	Average Net Loan						
	Rate of Interest on Loan on Annual Basis						
	Interest on Loan						
	<b>Loan n</b>						
	Gross Loan - Opening						
	Cummulative payments of Loan upto Previous Year						
	Net Loan - Opening						
	Add: Drawl(s) during the year						
	Less: Repayment(s) of Loan during the year						
	Net Loan - Closing						
	Average Net Loan						
	Rate of Interest on Loan on Annual Basis						
	Interest on Loan						
	<b>Total Loan</b>						
	Gross Loan - Opening						
	Cummulative payments of Loan upto Previous Year						
	Net Loan - Opening						
	Add: Drawl(s) during the year						
	Less: Repayment(s) of Loan during the year						
	Net Loan - Closing						
	Average Net Loan						
	Rate of Interest on Loan on Annual Basis						
	Interest on Loan						
	<b>Weighted Average Rate of Interest on Loans</b>						
* In case of Foreign Loans, the calculation in Indian Rupee is to be furnished. However, the calculation in Original currency is also to be furnished separately in the same format							

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Name of Transmission Licensee																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		</
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	Name of Transmission Licensee				
	Form 18				
	Investment Plan				
<b>Part A: PROPOSED TRANSMISSION WORKS</b>					
S. No.	NAME OF THE TRANSMISSION LINE & ASSOCIATED SUBSTATIONS	LENGTH OF LINE (Ckt.Kms.) / S/S. CAP.	ESTIMATED COST (Rs Crores)	Scheduled Date of Completion	COMPLETION PROGRAMME / REMARKS
1	2	3	4	5	6
I.	400 KV LINES				
1					
2					
3					
	SUB TOTAL (I) (400KV LINES)				
II.	400 KV SUB STATIONS				
1					
2					
3					
	SUB TOTAL (II) (400KV S/S)				
III.	220 KV LINES :				
1					
2					
3					
	SUB TOTAL (III) (220KV LINES)				
IV.	220 KV SUB STATIONS				
1					
2					
3					
	SUB TOTAL (IV) (220KV SUB STATIONS)				
V.	132 KV LINES				
1					
3					
6					
	SUB TOTAL (V) (132KV LINES)				
VI.	132 KV SUB STATIONS				
1					
2					
3					
	SUB TOTAL (VI) (132KV SUB-STATIONS)				
VII.	MISC. WORKS				
1					
2					
3					
	SUB TOTAL (VII) MISC. WORKS				
	GRAND TOTAL (L.VII)				

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Provide details wet FY 2011-12	Inspector shall be considered as Date of Energisation / Capitalisation

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Note: Please give detailed explanation separately for the deviations on account of uncontrollable factors									
Current Year (n) Annual Performance Review									
S.no.	Particulars	Approved	Actual	Variation	Reasons for Variation	Controllable	Uncontrollable	(Rs. Crore)	
A.	Annual Transmission Charges								
1	Interest on Loan (Including Interest on Normative Loans)								
2	Depreciation								
3	Lease Charge								
4	Return on Equity								
5	O&M Expenses								
6	Interest on Working Capital								
7	Income Tax								
8	Other Expenses (pls provide details)								
9	Gross AnnualTransmission Charges (1+2+3+4+5+6+7+8)								
10	Less: Other Income (provide details)								
	Annual Transmission Charges								
B	Revenue								
1	Revenue from Transmission Charges								
2	Income from Other Business u/s 41 of EA, 2003								
	Total Revenue								
C	Surplus / (Gap)								
Note: Please give detailed explanation separately for the deviations on account of uncontrollable factors									

(Rs. Crore)

		Format for Transmission
Name of Transmission Licensee		
Form 21.1		
Shunt Capacitor Addition / Repair Program		
S.No.	Particulars	Capacity (MVAR)
<b>Capacitor Additions</b>		
1	Total Capacitors requirement at the end of Previous year	
2	Actual installed Capacitors at the end of Previous Year	
3	Backlog/shortfall at the end of previous year (1-2)	
4	Additional Requirement for the Current Year	
5	Total Capacity required to be added during the current year (3+4)	
6	Actual installed during first half of Current year	
7	Target for the 2nd half of Current year	
8	Total Capacitors likely to be added during Current Year (6+7)	
9	Total capacity likely to be available by the end of current year (2+8)	
10	Short fall if any (5-9)	
<b>Repair of Defective Shunt Capacitors</b>		
11	At the end of the end of previous year	
12	Net Capacity Available by the end of previous year (2-11)	
13	Capacitors damaged during 1st half of the current year	
14	Capacitors repaired during 1st half of the current year	
15	Net Capacity Available by the end of 1st half of the year (12-13+14)	
16	Target level of damaged capacitors by the end of current year	
17	Net Capacity Likely to be Available by the end of current year (9-16)	
18	Net Shortfall, by the end of the year (5-17)	
The above statement is to be accompanied by a detailed note to outline the reasons thereof and measures taken/ planned for improvement.		

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Name of Transmission Licensee		Preceding Year			Current Year (Actual)		
Sl. No.	Item	No. of Transformers	No. of failures	Total Duration of failure (Hrs.)	No. of Transformers	No. of failures	Total Duration of failure (Hrs.)
Form 21.3							
Failure of Transformers							
<b>Transformation ratio</b>							
1	Transformation ratio 1						
2	Transformation ratio 2						
3	Transformation ratio 3						
4	Transformation ratio 4						
<b>Average duration of interruption</b>							
5	Average duration of interruption per transformer for Transformation ratio 1						
6	Average duration of interruption per transformer for Transformation ratio 2						
7	Average duration of interruption per transformer for Transformation ratio 3						
8	Average duration of interruption per transformer for Transformation ratio 4						

NEERAJ SATI,

Secretary,

Uttarakhand Electricity Regulatory Commission.

टिप्पणी-राजपत्र, दिनांक 10-3-2012, भाग-1-क में प्रकाशित।

[प्रतिलिपि सूचनार्थ प्रेषित—]

पी0एस0यू0 (आर0ई0) : ऊर्जा / 128-12-4-2012-250 (कम्प्यूटर / रीजियो)