

CONTENTS

Page No.

CHAPTER – I PRELIMINARY

- | | | |
|----|---|---|
| 1. | Short title, commencement, extent and applicability | 1 |
| 2. | Definitions | 2 |

CHAPTER – II GENERAL PRINCIPLES

- | | | |
|----|--|----|
| 3. | Determination of tariff | 10 |
| 4. | Prudence check by the Commission | 10 |
| 5. | Norms of operation to be ceiling norms | 10 |
| 6. | Adoption of tariff | 10 |
| 7. | Accounting statements | 10 |
| 8. | Determination of date of commercial | 11 |

CHAPTER – III MULTI-YEAR TARIFF PRINCIPLES

- | | | |
|-----|---|----|
| 9. | Multi-year tariff (MYT) framework | 14 |
| 10. | Control period | 15 |
| 11. | Filing under multi-year tariff (MYT) framework | 15 |
| 12. | Specific trajectory for certain variables | 19 |
| 13. | Controllable and uncontrollable factors | 19 |
| 14. | Mechanism for pass through of gains or losses on account of uncontrollable factors | 20 |
| 15. | Mechanism for sharing of gains or losses on account of controllable factors | 21 |
| 16. | Truing up of aggregate revenue requirement and expected revenue from tariff and charges | 21 |

CHAPTER – IV PROCEDURE FOR DETERMINATION OF TARIFF

- | | | |
|-----|---|----|
| 17. | Procedures relating to making an application for determination of tariff | 23 |
| 18. | Determination of generation tariff | 23 |
| 19. | Determination of tariff for transmission business/licensee, distribution business/licensee and state load despatch centre charges | 24 |
| 20. | Procedure for admission of application, publishing of notice, | 25 |

filing of suggestions and objections and hearing	
21. Tariff order	26
22. Adherence to tariff order	26

CHAPTER – V FINANCIAL PRINCIPLES

23. Capital cost and capital structure	27
24. Additional capitalization	29
25. Interest during construction (IDC)	30
26. Consumer contribution, deposit work, capital subsidy or grant	30
27. Debt-equity	31
28. Depreciation	32
29. Return on investment	33
30. Interest and finance charges	34
31. Interest on bonds issued by KSEB Limited to service the terminal liabilities of its employees	35
32. Tax on returns	36
33. Interest on working capital	37
34. Decommissioning of assets	40
35. Principles for adoption of Transfer Scheme under Section 131 of the Act	40

CHAPTER – VI GENERATION

36. Applicability	41
37. Capital cost	41
38. Prudence check of capital cost	42
39. Renovation, modernisation or uprating	43
40. Application for determination of generation tariff for existing and new generating station or generating unit	44
41. Sharing of gains or losses on account of controllable and uncontrollable factors	46
42. Components of tariff	46
43. Annual capacity / fixed charges	47
44. Operation and maintenance expenses	47
45. Non-tariff income	48
46. Norms of operation for hydro-electric generating stations	49
47. Norms of operation for thermal generating stations	51
48. Computation of capacity charge and energy charge for hydro-electric generating station	54
49. Computation of fixed charge and energy charge for thermal	56

generating stations	
50. Demonstration of declared capacity	59
51. Tariff for sale of infirm power	59
52. Billing and payment of charges	60
53. Tariff for supply of electricity from thermal generating stations based on coal and pet-coke	60

CHAPTER – VII TRANSMISSION

54. Applicability	61
55. Capital cost	61
56. Capital investment plan	61
57. Prudence check of capital cost	62
58. Norms for operation	63
59. Components of aggregate revenue requirement	63
60. Operation and maintenance expenses	63
61. Contribution to contingency reserves, investment and its utilisation	64
62. Non-tariff income	65
63. Income from other business	65
64. Determination of transmission charges	66
65. Sharing of annual transmission charges	66
66. Transmission losses	67
67. Reactive energy charges, incentives and disincentives	68

CHAPTER – VIII STATE LOAD DESPATCH CENTRE CHARGES

68. Annual revenue requirement of the state load despatch centre	68
69. Determination and recovery of load despatch centre charges	69

CHAPTER – IX DISTRIBUTION

70. Applicability	69
71. Capital cost	70
72. Capital investment plan	70
73. Sales forecast	71
74. Distribution losses	71

75. Power procurement plan	72
76. Collection efficiency	74
77. Components of aggregate revenue requirement	74
78. Approval of power purchase agreement/arrangement	75
79. Additional short-term power procurement	76
80. Transmission charges and state load despatch centre charges	78
81. Operation and maintenance expenses	78
82. Contribution to contingency reserves, investment and its utilization	79
83. Provision for bad debts	80
84. Non-tariff income	80
85. Income from other business	81
86. Determination of tariff	81
87. Determination of wheeling charges	83
88. Fuel surcharge formula	83
89. Recovery of additional cost due to change in hydro-thermal mix	85
90. Cross subsidy surcharge	86
91. Receipts on account of cross subsidy surcharge	86
92. Receipts on account of additional surcharge	86
93. Norms for operation	86

CHAPTER –X
MISCELLANEOUS

94. Power to remove difficulties	87
95. Power of relaxation	87
96. Interpretation	87
97. Inquiry and investigation	88
98. Power to amend	88
99. Repeal and savings	88

Annexure-I	:	Depreciation Schedule
Annexure-II	:	Procedure for calculation of availability for any period
Appendix-I	:	Formulae for calculation of availability of each category of transmission element
Appendix-II	:	Surge impedance loading (SIL) of AC Lines
Annexure-III	:	Format for certificate to be issued by generating business/company
		a) For hydro-electric generating stations
		b) For gas-based generating stations
Annexure-IV	:	Guidelines for in-principle clearance of investment schemes
Annexure-V	:	Formula for calculation of plant load factor
Annexure-VI	:	Ceiling norms for capitalised initial spares
Annexure-VII	:	O&M norms for existing generating stations of generation business of KSEB Limited
Annexure-VIII	:	O&M norms for the transmission business of KSEB Limited and transmission licensee
Annexure-IX	:	O&M norms for the distribution business/licensees
Annexure-X	:	Fuel surcharge formula
Annexure-XI	:	Formula for calculation of cross subsidy surcharge
Annexure-XII	:	Formats for filing application for approval of aggregate revenue requirement and tariff
Note	:	Method Adopted for Specifying Normative O&M costs

KERALA STATE ELECTRICITY REGULATORY COMMISSION

NOTIFICATION

No.787/SEA/2011/KSERC

Dated, Thiruvananthapuram 14.11.2014

Preamble.- In exercise of the powers conferred under Section 61 read with Section 181 of the Electricity Act, 2003 (Central Act 36 of 2003) and all other powers enabling it in this behalf and after previous publication, the Kerala State Electricity Regulatory Commission hereby makes the following regulations, namely:-

Kerala State Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2014

CHAPTER – I PRELIMINARY

- 1. Short title, commencement, extent and applicability.** – (1) These regulations may be called the Kerala State Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2014.
- (2) These regulations shall come into force from the Fourteenth day of November 2014.
- (3) These regulations shall extend to the whole State of Kerala.
- (4) These regulations shall be applicable to, -
- (a) all businesses relating to generation, transmission and distribution of the Kerala State Electricity Board Limited (KSEBL) and its successors;
 - (b) all other generating companies, transmission licensees and distribution licensees and their successors, if any;
 - (c) state load despatch centre (SLDC); and
 - (d) the determination of,-
 - (i) tariff for supply of electricity by a generating business/company to a distribution business/licensee;
 - (ii) tariff for intra-State transmission of electricity;
 - (iii) tariff for intra-State wheeling of electricity;
 - (iv) tariff for retail supply of electricity;
 - (v) surcharge in addition to the charges for wheeling;
 - (vi) additional surcharge on the charges for wheeling; and
 - (vii) fuel surcharge.

- 2. Definitions.** - In these regulations, unless the context otherwise requires,
- (1) **“Act”** means the Electricity Act, 2003 (Central Act 36 of 2003), as amended from time to time;
 - (2) **“aggregate revenue requirement”** means the annual revenue requirement comprising of allowable expenses and return on capital pertaining to its regulated/licensed business of the generating business/company or transmission business/licensee or distribution business/licensee or state load despatch centre, for recovery through tariffs, in accordance with these Regulations;
 - (3) **“allocation statement”** means a statement for each financial year, in respect of generating company or transmission licensee or distribution licensee or each of the separate businesses of the integrated utility, showing the amounts of any common revenue, cost, asset, liability, reserve or provision, which has been either,-
 - (i) charged from or to each such separate business together with a description of the basis of that charge; or
 - (ii) determined by apportionment or allocation between separate businesses of the regulated business including the licensed business, together with a description of the basis of the apportionment or allocation;
 - (4) **“applicant”** means the generating business/company or transmission business/licensee or distribution business/licensee or state load despatch centre who has made an application for determination of aggregate revenue requirement and tariff in accordance with the Act and these Regulations and includes a generating business/company or transmission business/licensee or distribution business/licensee whose tariff is the subject of determination or a review by the Commission either on *suo-motu* basis or on a application filed by any interested or affected person or as part of the truing-up;
 - (5) **“auxiliary energy consumption” of a generating station or a generating unit** means the quantum of energy consumed by auxiliary equipment of the generating station or generating unit including switchyard of the generating station and transformer losses within the generating station or generating unit 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:

Explanation: The auxiliary energy consumption of a generating station or generating unit shall not include energy consumed for supply of electricity to housing colony and such other facilities at the generating station and the energy consumed for construction works at the generating station, which shall be metered separately;
 - (6) **“auxiliary energy consumption” of a transmission sub-station** means the quantum of energy consumed by auxiliary equipment of the

transmission sub-station and transformer losses within the transmission sub-station and shall be expressed as a percentage of the sum of gross energy injected at the incoming terminals of the transmission sub-station:

Explanation: The auxiliary energy consumption of a transmission sub-station shall not include energy consumed for supply of electricity to housing colony and such other facilities at the transmission sub-station and the energy consumed for construction works at the transmission sub-station, which shall be metered separately;

(7) **“availability”**,-

- (i) of a thermal generating station for any given period means the average of the daily average declared capacities as certified by state load despatch centre for all the days during that period expressed as a percentage of the installed capacity of the generating station minus normative auxiliary consumption in MW, as specified in these Regulations and shall be computed as provided in Annexure- II to these Regulations;
 - (ii) of a transmission system for any given period means the time in hours during that period in which the transmission system is capable of transmitting electricity at its rated voltage expressed in percentage of total hours in the given period and shall be calculated as provided in Annexure-II to these Regulations;
- (8) **“bank rate”** means the standard rate notified by the Reserve Bank of India as per Section 49 of the Reserve Bank of India Act, 1934 (Central Act 2 of 1934), at which it is prepared to buy or re-discount bills of exchange or other commercial paper eligible for purchase thereunder;
- (9) **“base load”** means the average of monthly minimum system load in MW during the financial year of a distribution business/licensee in its area of supply, defined in terms of system demand in MW, as decided by the Commission from time to time;
- (10) **“base rate”** means the base rate of interest declared by the State Bank of India from time to time;
- (11) **“beneficiary”** in relation to a generating station means the person purchasing electricity generated at such generating station and sharing the capacity charges under these Regulations;
- (12) **“block”** in relation to a combined cycle thermal generating station includes combustion turbine-generator, associated waste heat recovery boiler, connected steam turbine- generator and auxiliaries;
- (13) **“bulk power transmission agreement”** means an agreement executed between a transmission licensee and the users of the transmission system of the transmission licensee that contains the terms and conditions under which a user of the transmission system is entitled to access the intra-State transmission system;

- (14) **“change in law”** means occurrence of any of the following events,-
- (i) the enactment, bringing into effect, adoption, promulgation, amendment, modification or repeal of any Central or State law; or
 - (ii) change in interpretation of any Central or State law by a competent court, tribunal or Indian Governmental Instrumentality, which is the final authority under law for such interpretation; or
 - (iii) change by any competent statutory authority, in any consent, approval or licence; or
 - (iv) coming into force of or change in any bilateral or multilateral agreement/treaty between the Government of India and any other Sovereign Government having implication for the generating station or the transmission system regulated under these Regulations;
- (15) **“Commission”** means the Kerala State Electricity Regulatory Commission;
- (16) **“Conduct of Business Regulations”** means the Kerala State Electricity Regulatory Commission (Conduct of Business) Regulations, 2003, as amended from time to time;
- (17) **“current financial year”** means the financial year in which the application for determination of aggregate revenue requirement and tariff is required to be made;
- (18) **“cut-off date”** means the Thirty first day of March of the financial year after two years of commercial operation of whole or part of the project and in case the whole or part of the project is declared under commercial operation in the last quarter of a financial year, the cut-off date shall be the Thirty first day of March of the financial year after three years of commercial operation:
- Illustration:** If the project is declared under commercial operation before the First day of January, 2016, then the cut-off date shall be the Thirty first day of March, 2018. If the project is declared under commercial operation during January, 2016, i.e., last quarter of financial year 2015-16, then the cut-off date shall be the Thirty first day of March, 2019;
- (19) **“day”** means a day consisting of the period of twenty four hours starting at 00:00 hour;
- (20) **“declared capacity”** in relation to a generating station means, the capability to deliver ex-bus electricity in MW declared by such generating station in relation to any time-block of the day as defined in the State Grid Code or whole of the day, duly taking into account the availability of fuel or water and subject to further qualification in the relevant provisions in these Regulations;

- (21) “**design energy**” means the quantum of energy, which can be generated in a ninety percent dependable year with ninety-five percent installed capacity of the hydro-electric generating station;
- (22) “**distribution business**” means the business of operating and maintaining a distribution system for supplying electricity in the area of supply of the distribution business/licensee;
- (23) “**distribution wires business**” means the business of operating and maintaining a distribution system for wheeling of electricity in the area of supply of the distribution licensee;
- (24) “**ensuing financial year**” means the financial year following the current financial year for which the application for determination of aggregate revenue requirement and tariff is required to be made;
- (25) “**expected revenue from tariff and charges**” means the revenue estimated to accrue to the generating business/company or transmission business/licensee or distribution business/licensee or state load despatch centre from the regulated business at the prevailing tariffs;
- (26) “**existing generating unit/station**” means a generating unit/station, which has declared commercial operation on or before the Thirty first day of March 2015;
- (27) “**existing project**” means a project which has declared commercial operation on or before the Thirty first day of March 2015;
- (28) “**financial year**” means a period commencing on the First day of April of a Gregorian calendar year and ending on the Thirty first day of March of the subsequent Gregorian calendar year;
- (29) “**force majeure**” for the purpose of these Regulations means the event or circumstance or combination of event or circumstance, which partly or fully prevents the generating business/company or the transmission business/licensee or distribution business/licensee from completing the project within the time specified in the investment approval given by the Commission or performing its duties and obligations and only if such event or circumstance are not within the control of the generating business/company or the transmission business/licensee or distribution business/licensee and could not have been avoided, had the generating business/company or the transmission business/licensee or distribution business/licensee taken reasonable care or complied with prudent utility practices, including those stated below,-
- (i) act of God including lightning, drought, fire and explosion, earthquake, volcanic eruption, landslide, flood, cyclone, typhoon, tornado, geological surprises, or exceptionally adverse weather conditions which are in excess of the statistical measures for the last hundred years; or

- (ii) any act of war, invasion, armed conflict or act of foreign enemy, blockade, embargo, revolution, riot, insurrection, terrorist or military action; or
 - (iii) industry wide strikes and labour disturbances having a nationwide impact in India;
- (30) “**generating unit**” in relation to a hydro-electric generating station means turbine-generator and its auxiliaries and in relation to a thermal generating station, means generator, engine and its auxiliaries;
- (31) “**generation business**” means the business of production of electricity from a generating station or generating unit for the purpose of giving supply to any beneficiary or enabling supply to be so given;
- (32) “**governmental instrumentality**” means Government of India or Government of Kerala and any ministry or department or board or agency or other regulatory or quasi judicial authority controlled by Government of India or Government of Kerala;
- (33) “**gross calorific value**” in relation to a thermal generating station means the heat produced in kilocalories 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;
- (34) “**gross station heat rate**” means the heat energy input in kilocalories required to generate one kilowatt hour of electrical energy at generator terminals;
- (35) “**infirm power**” means electricity injected into the grid prior to the commercial operation of a unit of the generating station;
- (36) “**installed capacity**” means the sum of rated 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;
- (37) “**intra-State transmission system (InSTS)**” means the system for conveyance of electricity by transmission lines within the area of the State and includes all transmission lines, sub-stations and associated equipment in the State;
- (38) “**licensee**” means a person who has been granted a licence under Section 14 of the Act and includes a person deemed to be a licensee under Section 14 of the Act;
- (39) “**Master Trust**” means the trust constituted to manage the funds and to disburse terminal benefits, pension etc. and ensure interest of existing pensioners and the pensioners transferred to the KSEB Limited as on the date of re-vesting as regard payment of Terminal Benefits as defined in the Kerala Electricity Second Transfer (Re-vesting) Scheme, 2013;
- (40) “**maximum continuous rating**” in relation to a generating unit of the thermal generating station means the maximum continuous output at the

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

- (41) **“new generating unit/station”** means a generating unit/station declared under commercial operation on or after the First day of April 2015;
- (42) **“non-tariff income”** means income relating to the regulated business other than from tariff, income from wheeling, receipts on account of cross-subsidy surcharge and additional surcharge on charges of wheeling;
- (43) **“operation and maintenance expenses” or “O&M expenses”**, -
- (i) in relation to a generating business/company, means the expenditure incurred on operation and maintenance of the generating station or generating unit, or part thereof and includes the expenditure on manpower, repairs, spares, consumables, insurance and administrative and general expenses, but excludes fuel expenses; and
 - (ii) in relation to a transmission business/licensee or distribution business/licensee or state load despatch centre means the expenditure incurred on operation and maintenance of the system by the transmission business/licensee or distribution business/licensee and includes the expenditure on manpower, repairs, spares, consumables, insurance and administrative and general expenses;
- (44) **“original project cost”** means the capital expenditure incurred by the generating business/company or the transmission business/licensee or distribution business / licensee or state load despatch centre as the case may be, within the original scope of the project up to the cut-off date as approved by the Commission;
- (45) **“other business”** means any business undertaken by the transmission business/licensee under Section 41 of the Act for the optimum utilization of its electricity business assets or by the distribution business/licensee under Section 51 of the Act for the optimum utilization of its electricity business assets, other than the businesses regulated by the Commission;
- (46) **“peak load”** means the average of monthly maximum system load in MW of a distribution business/licensee in its area of supply during the financial year, defined in terms of system demand in MW, as decided by the Commission from time to time;
- (47) **“plant availability factor (PAF)”** in relation to a generating station for any given period means the average of the daily declared capacities for

all the days as certified by the state load despatch centre during that period expressed as a percentage of the installed capacity in MW, reduced by the normative auxiliary consumption;

- (48) “**plant load factor**”, in relation to a thermal generating station for a given period, means the total energy sent out during such period, expressed as a percentage of energy generated corresponding to installed capacity during that period and shall be computed in accordance with the formula specified in the Annexure-V to these Regulations;
- (49) “**previous financial year**” means the financial year immediately preceding the current financial year;
- (50) “**project**” means a generating station or the transmission system or the distribution system, as the case may be and in the case of a hydro-electric generating station it includes all components of generating facility such as penstocks, head and tail works, main and regulating reservoirs, dams and other hydraulic works, intake structures, water conductor system, power generating station and generating units of the scheme, as apportioned to power generation;
- (51) “**prudence check**” means scrutiny of reasonableness of expenditure incurred or proposed to be incurred, financing plan, use of efficient technology, cost control, cost and time over-run and such other factors as may be considered appropriate by the Commission for determination of tariff, with a view to ensuring that the generating business/company or transmission business/licensee or distribution business/licensee or state load despatch centre has been careful in its decisions and vigilant in incurring the expenditure;
- (52) “**pumped storage hydro-electric generating station**” means a hydro-electric station, which generates power through energy stored in the form of water, pumped from a lower elevation to a higher elevation;
- (53) “**rated voltage**” means the voltage at which the transmission system or distribution system is designed to operate or any lower voltage at which the line is charged, for the time being, in consultation with users;
- (54) “**regulated business**” means the electricity business, which is regulated by the Commission in accordance with the Act and the Regulations made thereunder;
- (55) “**renewable energy sources**” for the purpose of these Regulations mean the new and renewable generating sources such as wind, solar, biomass, bio-fuel, urban or municipal waste, mini and micro hydro-electric sources and include such other sources as approved by the Ministry of New and Renewable Energy, Government of India;
- (56) “**retail supply business**” means the business of sale of electricity by a distribution business/licensee to its consumers in accordance with the terms and conditions of its licence;

- (57) **“run-of-the-river generating station”** means a hydro-electric generating station, which does not have upstream pondage;
- (58) **“scheduled date of commercial operation”** means the scheduled date of commercial operation of a generating station or generating unit thereof or transmission system or element thereof as indicated in the power purchase agreement or transmission service agreement, as the case may be, whichever is earlier;
- (59) **“State Grid Code”** means the “Kerala State Electricity Grid Code, 2005” as amended from time to time;
- (60) **“State load despatch centre” or “SLDC”** means the centre established by the Government of Kerala for the purpose of exercising the powers and discharging the functions under Section 31 of the Act;
- (61) **“storage type power station”** means a hydro-electric power generating station associated with large storage capacity to enable variation in generation of electricity according to demand;
- (62) **“tariff”** means the schedule of charges for generation, transmission, wheeling or supply of electricity together with the terms and conditions for application thereof;
- (63) **“time block”** means a block of 15 minutes starting from 00:00 hours, unless the context otherwise requires;
- (64) **“transmission business”** means the business of establishing or operating transmission system;
- (65) **“transmission service agreement”** means an agreement, contract, or any such covenant, entered into between the transmission licensee and the user of the transmission service/lines;
- (66) **“transmission system”** means a line or a group of lines with or without associated sub-stations and includes equipment associated with transmission lines and sub-stations;
- (67) **“useful life”** in relation to a unit of a generating station, transmission system or distribution system from the date of the commercial operation shall have the same meaning as specified in Annexure-I to these Regulations;
- (68) **“user”** means a licensee, or a generating company, or a person who has set up a captive generating plant, or a consumer availing open access, utilizing the transmission system of the transmission business/licensee or the distribution system of the distribution business/licensee.

CHAPTER – II GENERAL PRINCIPLES

3. Determination of tariff.- The Commission shall determine the tariff in accordance with the provisions of the Act and these Regulations for the supply of electricity by a generating business/company to a distribution business/licensee, transmission of electricity, wheeling of electricity, retail sale of electricity, load despatch, and such other charges incidental thereto.

4. Prudence check by the Commission.- The Commission shall conduct prudence check with due diligence while determining the aggregate revenue requirement, the revenue from tariff and charges and the tariff for the supply of electricity by a generating business/company to a distribution business/licensee, transmission of electricity, wheeling of electricity, retail sale of electricity, load despatch, and such other charges.

5. Norms of operation to be ceiling norms. - The norms of operation specified under these Regulations are the ceiling norms and this shall not preclude the generating business/company or the transmission business/licensee or the distribution business/licensee and the beneficiaries thereof, as the case may be, from agreeing to improved norms of operation and in case the improved norms are agreed to, such improved norms shall be applicable for the determination of tariff.

6. Adoption of tariff.- 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, as envisaged under Section 63 of the Act:

Provided that the applicant shall provide such information as the Commission may require to satisfy itself that the guidelines issued by the Central Government have been duly followed.

7. Accounting statements. - The **accounting statements of a company shall include the following statements** together with notes and such other supporting statements and information as may be required by the Commission from time to time, for each financial year, namely:-

- (a) balance sheet, prepared in accordance with the relevant provisions of the Companies Act, 1956 (Central Act 1 of 1956) as amended from time to time or of the Companies Act, 2013 (Central Act 18 of 2013), as applicable for the respective financial year;

- (b) profit and loss account, prepared in accordance with the relevant provisions of the Companies Act, 1956, as amended from time to time or of the Companies Act, 2013, as applicable for the respective financial year;
- (c) cash flow statement, prepared in accordance with the Accounting Standard on cash flow statement (AS-3) of the Institute of Chartered Accountants of India;
- (d) report of the statutory auditors;
- (e) cost records prescribed by the Central Government under Section 209(1)(d) of the Companies Act, 1956, as amended from time to time, or under the relevant provisions of the Companies Act, 2013, as applicable for the respective financial year:

Provided that in the case of any other licensee engaged in the business of distribution of electricity, the accounting statement shall contain the items, as mentioned above, prepared and maintained in accordance with the relevant statutes as applicable to such licensee.

8. Determination of date of commercial operation. – (1) The date of commercial operation of a generating station or generating unit or a transmission system or distribution system shall be determined as specified in the following sub-regulations.

(2) (a) Date of commercial operation, in relation to a generating unit of hydro-electric generating station shall be the date declared by the generating company from 00:00 hour in accordance with the scheduling process specified in the State Grid Code 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;

(b) Where the beneficiaries have entered into an agreement for purchase of power from a generating station, the scheduling process for a generating unit of the generating station or the demonstration of peaking capability corresponding to installed capacity of the generating station through a successful trial run shall commence after a notice of seven days by the generating company to the beneficiaries and scheduling shall commence from 00:00 hour after completion of trial run;

(c) The generating company shall certify to the effect that the generating station/unit meets the provisions relating to the technical standards as specified in the Central Electricity Authority (Technical Standards for

Construction of Electrical Plants and Electric Lines) Regulations, 2010, the Indian Electricity Grid Code and State Grid Code;

(d) The certificate shall be signed by the Chief Executive Officer of the company after obtaining approval from the Board of Directors in the format specified at Annexure-III (a) and a copy of the certificate shall be submitted to the state load despatch centre before declaring the date of commercial operation;

Provided that in the case of generating station owned by a person other than a company incorporated under the Companies Act, 1956, such certificate shall be signed by the Chief Executive Officer after obtaining approval from its management.

(e) In case a hydro-electric 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 and it will be mandatory for such hydro-electric 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;

(f) If a run-of-the-river hydro-electric generating station or a generating unit thereof is declared under commercial operation during periods of lean inflow, when the water inflow is insufficient for such demonstration of peaking capability, it shall be mandatory for such hydro-electric generating station or generating unit to demonstrate peaking capability equivalent to installed capacity as and when sufficient water inflow is available.

(3) (a) Date of commercial operation, in relation to a unit of the thermal generating station shall be 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, if any and in the case of the generating station as a whole, the date of commercial operation of the last generating unit of the generating station;

(b) Where the beneficiaries have entered into an agreement for purchase of power from the generating station, the trial run shall commence after seven days notice by the generating company to the beneficiaries and scheduling shall commence from 00:00 hour after completion of the trial run;

(c) The generating company shall certify to the effect that the generating station meets the provisions of the technical standards as specified in the Central Electricity Authority (Technical Standards for Construction of

Electrical Plants and Electric Lines) Regulations, 2010, the Indian Electricity Grid Code and in the State Grid Code;

(d) The certificate shall be signed by the Chief Executive Officer of the company after obtaining approval from the Board of Directors in the format specified at Annexure-III (b) and a copy of the certificate shall be submitted to the state load despatch centre before declaring the date of commercial operation;

Provided that in the case of generating station owned by a person other than a company incorporated under the Companies Act, 1956, such certificate shall be signed by the Chief Executive Officer after obtaining approval from its management.

(4) (a) Date of commercial operation, in relation to a transmission system shall be the date declared by the transmission licensee from 00:00 hour on which an element of the transmission system is in regular service after successful trial operation for transmitting electricity and communication signal from sending end to receiving end:

(b) Where the transmission line or substation is dedicated for evacuation of power from a particular generating station, the generating company and transmission licensee shall endeavour to commission the generating station and the transmission system simultaneously as far as practicable and shall ensure the same through appropriate implementation agreement:

(c) In case a transmission system or an element thereof is prevented from regular service for reasons not attributable to the transmission licensee or its supplier or its contractors but is on account of the delay in commissioning of the concerned generating station or in commissioning of the upstream or downstream transmission system, the transmission licensee shall approach the Commission through an appropriate application for approval of the date of commercial operation of such transmission system or an element thereof;

(5) Date of commercial operation, in relation to a distribution system shall be 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:

(6) 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, as the case may be, unless mutually agreed to by all parties to such agreement.

CHAPTER – III
MULTI-YEAR TARIFF PRINCIPLES

9. Multi-year tariff (MYT) framework. – (1) The multi-year tariff framework shall be applicable for determination of tariff for a generating business/company, transmission business/licensee, distribution business / licensee and the state load despatch centre.

(2) The multi-year tariff framework for the generating business/company, transmission business/licensee, distribution business/licensee and state load despatch centre shall, for calculation of aggregate revenue requirement and expected revenue from tariff and charges, be based on the following elements:

- (b) Forecast of aggregate revenue requirement (ARR) for the control period along with the expected revenue from existing and proposed tariffs and charges for the first financial year of the control period;
- (c) From the second year of the control period onwards, revised forecast of aggregate revenue requirement (ARR) for the ensuing year along with the expected revenue from existing and proposed tariffs and charges for the ensuing financial year of the control period;
- (d) Truing up of expenses and revenue of previous financial year based on audited accounts vis-à-vis the approved forecast and categorisation of variation in performance as those caused by controllable factors and uncontrollable factors, as specified in regulation 13 of these Regulations;
- (e) The mechanism for pass-through of approved gains or losses on account of uncontrollable factors as specified by the Commission in regulation 14 of these Regulations;
- (f) The mechanism for sharing of approved gains arising out of controllable factors as specified by the Commission in regulation 15 of these Regulations;
- (g) Approval of the aggregate revenue requirement by the Commission for the control period along with the determination of tariff for the first year of the control period;
- (h) Approval of the revised aggregate revenue requirement, if any, along with the annual tariff determination for the ensuing financial year for the generating business/company, transmission business/licensee, distribution business/licensee and state load despatch centre, based on the approved forecast and results of the truing up exercise.

10. Control period. – (1) The control period is the period for which the principle and norms specified under these Regulations shall be applicable.

(2) The first control period shall be of three financial years from the First day of April, 2015 to the Thirty first day of March, 2018.

(3) The subsequent control periods shall be decided by the Commission from time to time.

(4) The Commission may review the principles and norms for determination of aggregate revenue requirement and tariff at the end of each control period.

11. Filing under multi-year tariff (MYT) framework. – (1) Every generating business/company or transmission business/licensee or distribution business/licensee or state load despatch centre shall file, on or before the Thirtieth day of November of the current financial year, the following applications for the control period:

a) Application for approval of aggregate revenue requirement for each year of the control period and determination of tariff for the ensuing financial year.

b) Application for truing up of aggregate revenue requirement for the previous financial year:

Provided that truing up for the financial years of the previous control period prior to the introduction of MYT framework shall be carried out under relevant Regulations applicable to the respective periods.

Provided further that the time limit specified for filing applications as per clause (a) and (b) above for the first year of first control period shall be the Thirty first day of December, 2014.

(2) Every generating business/company or transmission business/licensee or distribution business/licensee or state load despatch centre shall file, on or before the Thirtieth day of November of every subsequent financial year during the control period, the following applications:

a) Application for approval of revised aggregate revenue requirement, if any, for the ensuing financial year and determination of tariff for the ensuing financial year:

b) Application for Truing up of aggregate revenue requirement for the previous financial year:

Provided that truing up for the financial years of the previous control period prior to the introduction of MYT framework shall be carried out under relevant Regulations applicable to the respective periods.

- (3) All applications shall be filed in the manner specified in the Kerala State Electricity Regulatory Commission (Conduct of Business) Regulations, 2003, as amended from time to time.
- (4) Failure to file the application within the stipulated time may attract the provisions of Section 142 and Section 146 of the Act.
- (5) In case the generation business/company or transmission business/licensee or distribution business/licensee or state load despatch centre does not file the application under these Regulations within one month of stipulated date, the Commission may, on its own initiate proceedings for tariff determination.
- (6) The applicant shall submit the forecast of aggregate revenue requirement and proposal for revision of tariff, if required, for the ensuing financial year, in such manner and within such time limit as specified in these Regulations:
- (7) The formats for furnishing information for calculating expected revenue and expenditure and for determining tariff shall be as per Annexure-XII to these Regulations.
- (8) The applicant shall provide full details supporting the forecast, including but not limited to the details of past performance, proposed initiatives for achieving efficiency or productivity gains, technical studies, contractual arrangements and/or secondary research and such other details to enable the Commission to assess the reasonableness of the forecast.
- (9) The applicant shall develop the aggregate revenue requirement based on the data and reasonable forecast of the behaviour of individual variables that comprise the aggregate revenue requirement during the control period.
- (10) The applicant shall develop the forecast of expected revenue from existing tariff and charges based on the following:-
- (a) In the case of generating business/company, estimates of generation capacity allocated to distribution business/licensees and expected electricity generation by each unit/station for each financial year of the control period;
 - (b) In the case of transmission business/licensee, estimates of transmission capacity allocated to users of the transmission system and expected energy to be transmitted for each financial year of the control period;
 - (c) In the case of distribution business/licensee, estimates of contracted demand and quantum of electricity to be supplied to

consumers and to be wheeled on behalf of users of the distribution system for each financial year of the control period;

- (d) Prevailing tariffs and charges as on the date of making the application.

(11) Based on the forecast of aggregate revenue requirement and expected revenue from existing tariff and charges, the generating business/company or transmission business/licensee or distribution business/licensee shall submit the means, including efficiency gains, tariff increase or any other means, with complete details of such measures, for meeting the gap, if any, in the aggregate revenue requirement.

(12) The Application shall include the following:-

- (a) A statement of the existing schedule of tariff and terms and conditions of tariff and expected revenue from the existing tariff and charges for the ensuing financial year;
- (b) A statement of the proposed schedule of tariff and terms and conditions of tariff and expected revenue from the proposed tariff and charges for the ensuing financial year;
- (c) A statement containing full details of subsidy received, or due from the State Government, if any, the consumers to whom it is directed and showing how the subsidy is reflected in the existing and proposed tariff applicable to those consumers;
- (d) A statement of the estimated change in annual revenues that would result from the proposed changes in tariff in the period in which they are to be implemented;
- (e) The audited accounting statements for the previous financial year and in case the audited accounting statements for the previous financial year are not available, the audited accounting statements for the financial year immediately preceding the previous financial year along with the unaudited accounting statements for the previous financial year:

Provided that separate audited accounting statements shall be submitted by the applicant for each separate regulated business (generation, transmission and distribution business and state load despatch centre) of the company;

- (f) In the case of distribution business/licensee, 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 each proposed tariff modification during the remaining months of the financial year shall be included;

- (g) A statement showing calculations of the amount of cross subsidy in the existing tariff and in the proposed changes in tariff in respect of each category of consumer;
- (h) An explanatory note giving the rationale for the proposed tariff changes;
- (i) If the transmission business/licensee or distribution business/licensee is engaged in any other business, as specified under regulations 63 and 85, respectively, the transmission business/licensee or distribution business/licensee shall submit the following information:
 - (i) Name and description of all other businesses that the licensee is engaged in;
 - (ii) For each such other business, amount of revenue generated in the previous financial year, estimated during the current financial year and projected for the ensuing financial year;
 - (iii) Assets and resources of licensed business used by the licensee to generate the above revenue;
 - (iv) Expenses incurred to generate the above revenue, separately for each other business;
 - (v) Proportion of such expenses included in the aggregate revenue requirement of the licensee, if any, basis of apportionment and justification for the basis of apportionment.
- (j) Any other information, as required by the relevant licensee or desired by the Commission.

(13) If a person holds more than one licence, he shall submit separate calculations as above in respect of each licence.

(14) In the case of a licensee having more than one area of supply, it shall submit separate calculation for each area of supply.

(15) The generating business/ company shall submit generating station-wise calculations, except for small hydro-electric generating stations, in whose case it may be combined.

(16) In case the distribution licensee owns and operates a generating station it shall maintain and submit separate accounts of generation, its licensed business and other business:

(17) The tariff determined for a particular financial year shall remain applicable only till end of such financial year, unless the Commission approves the continuation of such tariff for subsequent periods.

(18) Soft copy of the application for approval of aggregate revenue requirement and determination of tariff as well as financial models with linkages in spreadsheet shall also be submitted along with the application to the Commission.

(19) During the first year of the first control period, if an integrated utility has not prepared separate accounts for the businesses of generation, transmission, distribution and load despatch, the Commission may, at its discretion, allow such utility to apportion the total expenditure among such businesses with proper basis and justification for such apportionment.

(20) An integrated utility may be allowed by the Commission, to apportion its common expenses among the regulated businesses on proper basis and justification.

12. Specific trajectory for certain variables. –The Commission may stipulate a trajectory for certain variables such as transmission losses, supply availability, distribution losses and collection efficiency over the control period, while issuing orders on the application for approval of the aggregate revenue requirement and determination of tariff, in addition to the norms specified in these Regulations.

13. Controllable and uncontrollable factors. – (1) For the purpose of these Regulations, the term “uncontrollable factors” shall include of the following factors which are beyond the control of and cannot be mitigated by the applicant, as determined by the Commission,-

- (i) *force majeure* events;
- (ii) change in law, judicial pronouncements and orders of the Central Government, the State Government or the Commission;
- (iii) economy wide influences such as unforeseen changes in inflation rate, taxes and statutory levies;
- (iv) variation in prices of coal, oil and all primary/secondary fuel;
- (v) variation in the cost of power purchase due to additional short-term power purchase for some special circumstances specified in regulation 79;
- (vi) taxes on income;
- (vii) variation in interest rates;

- (viii) variation in number of consumers or mix of consumers or quantities of electricity supplied to the consumers.
- (2) The controllable factors include, but are not limited to, the following:-
- (i) variations in capital expenditure on account of time and/or cost overruns/ inefficiencies in the implementation of a project not attributable to a change approved by the Commission in the scope of such project, change in statutory levies or due to *force majeure* events;
 - (ii) capital cost over-run due to delay by equipment supplier;
 - (iii) variations in capital expenditure on account of time and/or cost over-runs on account of land acquisition issues;
 - (iv) gross station heat rate;
 - (v) secondary fuel oil consumption;
 - (vi) auxiliary energy consumption;
 - (vii) operation and maintenance expenses;
 - (viii) variation in supply availability;
 - (ix) variation in performance parameters;
 - (x) variation in distribution loss;
 - (xi) variation in collection efficiency;
 - (xii) variation in interest on working capital; and
 - (xiii) provision for bad debts.

14. Mechanism for pass through of gains or losses on account of uncontrollable factors. – (1) The aggregate gain or loss to the generating business/company or transmission business/licensee or distribution business/licensee or state load despatch centre, as approved by the Commission, on account of uncontrollable factors shall be approved for adjustment through tariff after prudence check in the tariff of the generating business/company or transmission business/licensee or distribution business/licensee over such period as may be stipulated in the order of the Commission passed under these Regulations.

(2) The generating business/company or transmission business/licensee or distribution business/licensee shall submit details of the variation between expenses incurred and revenue earned and the figures approved by the Commission, in the format specified by the Commission, along with the detailed computations and supporting documents as may be required for verification by the Commission.

(3) Nothing contained in this regulation shall apply in respect of any gain or loss arising out of variation in the cost of fuel for the generation of electricity in the generating stations owned by the distribution business/licensee and of variation in the power purchase cost on account of change in cost of fuel,

which shall be dealt with as specified by the Commission in sub-regulation (3) of regulation 49 and regulation 88 of these Regulations.

15. Mechanism for sharing of gains or losses on account of controllable factors. – (1) The aggregate gain to the generating business/company or transmission business/licensee or distribution business/licensee or state load despatch centre, as approved by the Commission, on account of controllable factors shall be dealt with in the following manner:-

- (a) one-third of the amount of such gain shall be passed on to consumers as a rebate in tariffs;
- (b) the balance two-third of the amount of such gain, may be utilised at the discretion of the generating business/company or transmission business/licensee or distribution business/licensee:

Provided that the net gain or loss to the generating business/company on account of normative operational parameters specified in sub-regulations (5), (6), (7), (8), and (9) of regulation 47 shall be shared as specified in regulation 41 of these Regulations.

(2) The aggregate loss to the generating business/company or transmission business/licensee or distribution business/licensee or state load despatch centre, as approved by the Commission, on account of controllable factors shall be borne by such generating business/company or transmission business/licensee or distribution business/licensee or state load despatch centre and shall not be passed on to the consumer in any manner.

16. Truing up of aggregate revenue requirement and expected revenue from tariff and charges. – (1) The aggregate revenue requirement and expected revenue from tariff and charges of a generating business/company or transmission business/licensee or distribution business/licensee or state load despatch centre shall be subject to truing up of expenses and revenue in accordance with the provisions in this regulation.

(2) The generating business/company or transmission business/licensee or distribution business/licensee or state load despatch centre shall file an application for truing up the aggregate revenue requirement and expected revenue from tariff and charges of the previous financial year along with the application for approval of aggregate revenue requirement and determination of tariff for the ensuing financial year, within the time limit specified in these Regulations:

Provided that the generating business/company or transmission business/licensee or distribution business/licensee or state load despatch centre, as the case may be, shall submit to the Commission, the information in such form as specified in Annexure-XII, together with the audited accounts and such other details as the Commission may require to assess the reasons

for and extent of variation in financial performance if any, from the aggregate revenue requirement and expected revenue from tariff and charges as approved by the Commission:

Provided further that the application for truing up shall be with reference to figures approved for the previous financial year.

(3) The truing up shall be a comparison after prudence check, of the financial and operational performance of the generating business/company or transmission business/licensee or distribution business/licensee or state load despatch centre with the approved forecast of aggregate revenue requirement and expected revenue from tariff and charges and operational performance, which shall comprise of the following:-

- (a) comparison of the performance of the applicant for the previous financial year with the corresponding figures approved by the Commission, subject to prudence check;
- (b) computation of the gains and losses on account of controllable and uncontrollable factors for the previous financial year;
- (c) the order of the Commission relating to adjustment of the resultant revenue gap/surplus;
- (d) review of compliance with the directives issued by the Commission from time to time; and
- (e) other relevant details, if any.

(4) In the truing up proceedings, the variation in the components of the aggregate revenue requirement and the expected revenue from charges may be attributed to controllable factors or to uncontrollable factors, as specified in regulation 13 of these Regulations.

(5) The order issued by the Commission on truing up shall comprise of,-

- (a) the aggregate gain or loss to the generating business/company or transmission business/licensee or distribution business/licensee or state load despatch centre on account of controllable factors, as approved by the Commission and the amount of such gains or such losses that may be shared in accordance with regulation 15 of these Regulations;
- (b) components of cost pertaining to the uncontrollable factors as approved by the Commission, which were not recovered during the previous financial year and hence have to be approved for recovery through tariffs as per regulation 14 of these Regulations;
- (c) the revenue gap or revenue surplus to be carried forward to the ensuing financial year.

CHAPTER – IV
PROCEDURE FOR DETERMINATION OF TARIFF

17.Procedures relating to making an application for determination of tariff.- An application for determination of tariff shall be made in such form and in such manner as specified in these Regulations and accompanied by such fees as may be specified by the Commission.

18.Determination of generation tariff. – (1) The Commission shall determine the tariff for supply of electricity by the generating business/company to the distribution business/licensee, in accordance with the terms and conditions contained in chapter VI of these Regulations.

(2) In the case of existing generating stations,-

- (a) where the Commission has, at any time prior to the date of coming into effect of these Regulations, approved a power purchase agreement or arrangement between a generating business/company and a distribution business/licensee or has adopted the tariff contained therein for supply of electricity from an existing generating unit/station, the tariff for supply of electricity by the generating business/company to the distribution business/licensee shall be in accordance with such arrangement for such period as approved or adopted by the Commission or the tariff mentioned in such power purchase agreement, as the case may be;
- (b) where, as on the date of coming into effect of these Regulations, the power purchase agreement or arrangement between a generating business/company and a distribution business/licensee for supply of electricity from an existing generating station has not been approved by the Commission or the tariff contained therein has not been adopted by the Commission under Section 63 of the Act or where there is no power purchase agreement or arrangement, the supply of electricity by such generating business/company to such distribution business/licensee after the date of coming into effect of these Regulations, shall be in accordance with the power purchase agreement or arrangement to be approved by the Commission:
- (c) an application for approval of such power purchase agreement or arrangement shall be made by the distribution business/licensee to the Commission within a period of three months from the date of notification of these Regulations:
- (d) the supply of electricity shall be allowed to continue under the present agreement or arrangement, as the case may be, until such

time as the Commission approves such power purchase agreement or arrangement and shall be discontinued forthwith if the Commission rejects the application for approval of such power purchase agreement or arrangement, for reasons to be recorded in writing:

Provided that such approval shall not be required in the case of purchase of power based on central allocation of generation capacity of central generating stations to the State or in the case of purchase of power from generating stations/units at tariffs approved by the Central Electricity Regulatory Commission though not under central allocation of generation capacity to the State or in the case of purchase of power from generating stations/units at tariffs approved by other State Electricity Regulatory Commissions.

(3) In the case of new generating stations the tariff for the supply of electricity by a generating business/company to the distribution business/licensee from a new generating unit/station shall be in accordance with the power purchase agreement or arrangement approved by the Commission.

(4) In the case of the generating stations owned by the licensee,-

(a) where the distribution business/licensee also undertakes the business of generation of electricity, the transfer price at which electricity is supplied by the generation business of the distribution licensee to its retail supply business shall be determined by the Commission:

(b) the distribution business/licensee shall maintain separate accounts and records for the generation business and shall maintain an allocation statement so as to enable the Commission to clearly identify the direct and indirect costs relating to such business and capital employed in such business:

Provided that the application for approval of aggregate revenue requirement and truing up shall be with reference to figures approved by the Commission for the previous financial year.

(c) the distribution business/licensee shall submit, along with the separate application for determination of tariff for retail supply of electricity, the information required under chapter VI of these Regulations relating to its generation business, if any.

19. Determination of tariff for transmission business/licensee, distribution business/licensee and state load despatch centre charges.-

(1) The Commission shall determine the tariff for the transmission

business/licensee, distribution business/licensee and the state load despatch centre charges based on an application made by the business/licensee and the state load despatch centre in accordance with the procedure specified in these Regulations.

(2) The Commission shall determine the tariff for:-

- (a) transmission business/licensee, in accordance with the terms and conditions specified in chapter VII of these Regulations;
- (b) distribution business/licensee, in accordance with the terms and conditions specified in chapter IX of these Regulations; and
- (c) state load despatch centre charges in accordance with the terms and conditions specified in chapter VIII of these Regulations.

(3) The applicant shall provide, as part of his application to the Commission, in such form as specified in Annexure-XII to these Regulations, full details of his calculation of the aggregate revenue requirement and expected revenue from tariff and charges pursuant to the terms of his licence and thereafter he shall submit such further information or particulars or documents as the Commission may reasonably require to verify such calculation.

(4) The application shall be accompanied wherever relevant, by a detailed proposal for revision of tariff showing category-wise tariff and how such revision would meet the projected revenue gap, if any, in the aggregate revenue requirement for the ensuing financial year.

(5) The Commission may, from time to time, stipulate additional/alternative formats for the submission of details by the applicant, as it may reasonably require for assessing the aggregate revenue requirement and for determining the tariff.

20. Procedure for admission of application, publishing of notice, filing of suggestions and objections and hearing. – (1) Upon receipt of a complete application accompanied by all requisite information, particulars and documents in compliance with all the requirements specified in these Regulations, the Commission or the Secretary or the designated Officer duly authorized by the Commission for the purpose, shall intimate the applicant that the application is admitted and ready for publication.

(2) The applicant shall, within seven days after admission of the application, publish a notice containing the summary of application, in at least one English and two Malayalam language daily newspapers having wide circulation in the area to which the application pertains.

(3) The suggestions and objections, if any, on the application for approval of aggregate revenue requirement and determination of tariff, may be filed before the Secretary of the Commission, by any person within twenty one days of publication of such notice with a copy to the applicant.

(4) The applicant shall, within seven days from the date of publication of the notice as aforesaid, submit to the Commission on affidavit, the details of the notice published and shall also file copies of the newspapers wherein the notice has been published.

(5) The applicant shall file his comments on the suggestions and objections on his proposal, if any, received within fifteen days of receipt of such suggestions and objections.

(6) The Commission shall thereafter follow, as far as may be practicable, the procedure specified in the Kerala State Electricity Regulatory Commission (Conduct of Business) Regulations, 2003 for the hearing on application for approval of aggregate revenue requirement and tariff and for passing the orders thereon.

21. Tariff order. – (1) The Commission shall, within one hundred and twenty days from the date of admission of a complete application and after considering all suggestions and objections received from all the stakeholders including the public,-

- (a) issue a tariff order accepting the application with such modifications or such conditions as may be specified in that 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 rejecting his application.

(2) The tariffs so determined shall be in force from the date specified in the said order and shall, unless amended or revoked, continue to be in force for such period as may be stipulated therein.

22. Adherence to tariff order. – (1) No tariff or part of any tariff may ordinarily be amended more frequently than once in any financial year, except in the manner as specified in regulation 88 of these Regulations.

(2) The Commission may, after satisfying itself, allow the revision of tariff, for reasons to be recorded in writing.

(3) If the generating business/company or transmission business/licensee or distribution business/licensee recovers a price or charge exceeding the tariff determined under Section 62 of the Act and in accordance with these Regulations, the excess amount shall be payable to the person who has paid such price or charge, along with interest equivalent to the bank rate without prejudice to any other liability incurred by such generating business/company or transmission business/licensee or distribution business/licensee.

(4) The generating business/company or transmission business/licensee or distribution business/licensee shall submit quarterly returns, containing data relating to operational and financial details to enable the Commission to monitor the implementation of its order.

CHAPTER – V FINANCIAL PRINCIPLES

23. Capital cost and capital structure. – (1) In the case of existing projects, the capital cost approved by the Commission prior to the First day of April 2015, including additional capitalisation and the expenditure projected for the respective financial year of the control period, shall form the basis for determination of tariff.

(2) Capital cost for a project shall include,-

- (a) the expenditure incurred or projected to be incurred, including interest during construction and financing charges and any gain or loss on account of foreign exchange rate variation on the loan during construction up to the date of commercial operation of the project, as approved by the Commission after prudence check;
- (b) capitalised initial spares subject to the ceiling rates specified in these Regulations; and
- (c) additional capitalisation determined under regulation 24:

Provided that the value of assets forming part of the project but not put to use or not in use, shall be excluded from the capital cost.

(3) The capital cost approved by the Commission after prudence check shall form the basis for determination of tariff.

(4) The capital cost approved by the Commission shall be considered for determination of tariff and if sufficient justification is provided for any escalation in the capital 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 capital cost approved by the Commission, then the actual capital cost shall be considered for determination of tariff of the generating business/company or transmission business/licensee or distribution business/licensee.

(5) Where power purchase agreement or bulk power transmission agreement provides for a ceiling of capital cost, the capital cost to be considered for determination of tariff shall not exceed such ceiling.

(6) The capital cost may include capitalised initial spares as a percentage of the cost of plant and machinery upto cut-off date, subject to the ceiling norms specified in Annexure-VI, as may be revised by the Commission from time to time:

Provided that where the generating station has any transmission equipment forming part of the generation project, the ceiling norms for initial spares for such equipment shall be as per the ceiling norms specified for transmission system under these Regulations:

Provided further that once the transmission project is commissioned, the cost of initial spares shall, at the time of truing up, be restricted on the basis of the cost of plant and machinery corresponding to the transmission project:

Provided also that for the purpose of computing the cost of initial spares, the cost of plant and machinery shall be considered as project cost as on cut-off date excluding interest during construction, cost of land and cost of civil works.

(7) Impact of revaluation of assets, if any, may be considered for appropriate decision by the Commission after prudence check.

(8) Any expenditure on replacement, renovation and modernization or extension of life of old fixed assets, as applicable to generating business/company, transmission business/licensee and distribution business/licensee, shall be considered after writing off the net value of such replaced assets from the original capital cost and shall be calculated as follows:

Net Value of Replaced Assets = OCRA – AD – CC;

Where,

OCRA = original capital cost of replaced assets;

AD = accumulated depreciation pertaining to the replaced assets;

CC = total consumer contribution pertaining to the replaced assets;

Explanation: for the purpose of these Regulations, the term renovation and modernization shall have the same meaning as in Section 80 IA of the Income-tax Act, 1961.

24. Additional capitalization. – (1) The Commission may, subject to prudence check, approve the capital expenditure actually incurred after the date of commercial operation and up to the cut-off date, on the following counts, provided such expenditure is duly audited and is within the original scope of work,-

- (i) due to un-discharged liabilities;
 - (ii) on works deferred for execution;
 - (iii) to meet award of arbitration or compliance of final and un-appealable order or decree of a court;
 - (iv) on account of change in law;
 - (v) on procurement of initial spares included in the original project costs subject to the ceiling norm laid down in Annexure-VI to these Regulations;
 - (vi) any additional works/services, which have become necessary for efficient and successful operation of a generating station or a transmission system or a distribution system but not included in the original capital cost.
- (2) The details of the work included in the original scope of work and the estimates of expenditure shall be submitted for approval of additional capitalization along with the application for tariff.
- (3) All particulars of the un-discharged liabilities and works deferred for execution shall be submitted along with the application for final tariff after the date of commercial operation of the generating unit/station or transmission system or distribution system:
- (4) The assets forming part of the project cost but not put to use, shall not be approved for determination of tariff.

Note 1

Any expenditure approved on account of un-discharged liabilities within the original scope of work and the expenditure deferred on techno-economic grounds but falling within the original scope of work shall be serviced in the normative debt:equity ratio specified in regulation 27.

Note 2

Any expenditure approved by the Commission for determination of tariff on account of new works not in the original scope of work shall be serviced in the normative debt:equity ratio specified in regulation 27.

Note 3

Any expenditure approved by the Commission for determination of tariff on renovation, modernization, life extension and restoration of assets damaged due to natural calamities shall be serviced in the normative

debt:equity ratio specified in regulation 27 after writing off the original amount of the replaced assets from the original cost.

(5) Impact of additional capitalization on tariff, if any, shall be considered at the time of truing up for each financial year.

25. Interest during construction (IDC). – (1) Interest during construction shall be computed corresponding to the loan from the date of infusion of debt funds and after taking into account the prudent phasing of funds upto scheduled date of commercial operation.

(2) In the case of additional costs on account of interest during construction due to delay in achieving the commercial operation within the scheduled date, the generating business/company or the transmission business/licensee or the distribution business/licensee shall be required to furnish detailed justification with supporting documents for such delay including prudent phasing of funds.

(3) If the delay is not attributable to the generating business/company or the transmission business/licensee or the distribution business/licensee and is due to uncontrollable factors as specified in regulation 13 of these Regulations, interest during construction may be allowed after due prudence check.

(4) Interest during construction on the actual loan may be allowed beyond the scheduled date of commercial operation, only to the extent the delay is found beyond the control of the generating business/company or the transmission business/licensee or the distribution business/licensee, after taking into account prudent phasing of funds and due prudence check.

26. Consumer contribution, deposit work, capital subsidy or grant. – (1) The works of the following nature carried out by the transmission business/licensee or distribution business/licensee shall be classified under the categories of consumer contribution, deposit work, capital subsidy or grant,-

- (a) capital works undertaken after obtaining a part or all of the funds from the users/consumers in the context of deposit works, consumer contribution, capital subsidies or grants;
- (b) capital works undertaken by utilising capital subsidies or grants received from the State and/or Central Governments;
- (c) any other capital subsidy or grant of similar nature received without any obligation to return the same and with no interest costs attached to such subvention.

(2) The expenses on such capital expenditure shall be treated as follows:-

- (a) normative O&M expenses as specified in these Regulations shall be allowed;
- (b) provisions related to depreciation, as specified in regulation 28, shall not be applicable to the extent of financial support provided through consumer contribution, deposit work, capital subsidy or grant; and
- (c) provisions related to return on investment, as specified in regulation 29 shall be not applicable to the extent of financial support provided through consumer contribution, deposit work, capital subsidy or grant.

27. Debt-equity ratio. – (1) For the purpose of determination of tariff, debt-equity ratio as on date of commercial operation in the case of a new generating station, transmission line and distribution line or substation commissioned or capacity expanded on or after the First day of April 2015, shall be 70:30 of the capital cost approved by the Commission:

Provided that the debt-equity ratio shall be applied only to the balance of such approved capital cost after deducting the financial support provided through consumer contribution, deposit work, capital subsidy or grant, if any.

(2) Where equity employed is more than thirty percent of the approved capital cost, the amount of equity for the purpose of tariff shall be limited to thirty percent and the balance amount shall be considered as normative loan and interest on the same may be allowed at the weighted average rate of interest of the actual loan portfolio.

(3) Where actual equity employed is less than thirty percent of the approved capital cost, the actual equity shall be considered.

(4) If any fixed asset is capitalised on account of capital expenditure incurred prior to the First day of April, 2015, debt-equity ratio allowed by the Commission for determination of tariff for the period ending the Thirty First day of March, 2015 shall be considered.

(5) The equity invested in foreign currency shall be designated in equivalent Indian rupees as on the date of each investment.

(6) In the case of retirement or replacement of assets, the equity capital approved as mentioned above, shall be reduced to the extent of thirty percent or actual equity component based on documentary evidence, if it is lower than thirty percent of the original cost of the retired or replaced asset.

(7) (a) Swapping of foreign currency loans shall be permitted provided it does not have the effect of increasing the tariff;

(b) Cost of swapping and interest expenses thereon, shall be allowed by the Commission only after prudence check;

(c) The generating business/company or transmission business/licensee or distribution business/licensee shall provide full particulars of the swapped loans.

(8) (a) Restructuring of capital in terms of relative share of equity and loan shall be permitted during the life of the project provided it does not have the effect of increasing the tariff.

(b) Any benefit from such restructuring shall be shared in the ratio 1:1 among,-

- (i) the generating business/company and the persons sharing the capacity charge; or
- (ii) transmission business/licensee and long-term intra-State open access customers including distribution business/licensee; or
- (iii) distribution business/licensee and consumers.

28. Depreciation. – (1) The value base for the purpose of depreciation shall be the original capital cost of the asset approved by the Commission:

Provided that no depreciation shall be allowed on revaluation reserve created on account of revaluation of assets.

(2) The generation business/company or transmission business/licensee or distribution business/licensee shall be permitted to recover depreciation on the value of fixed assets used in their respective business, computed in the following manner:-

- (a) depreciation shall be computed annually based on the straight line method at the rates specified in the Annexure-I to these Regulations for the first twelve financial years from the date of commercial operation;
- (b) the remaining depreciable value as on the Thirty First day of March of the financial year ending after a period of twelve financial years from the date of commercial operation shall be spread over the balance useful life of the assets as specified in Annexure- I;
- (c) the generating business/company or transmission business / licensee or distribution business/licensee, shall submit all such details and documentary evidence, as may be required under these Regulations and as stipulated by the Commission from time to time, to substantiate the above claims;
- (d) the salvage value of the asset shall be ten per cent of the allowable capital cost approved by the Commission and depreciation shall be

a maximum of ninety per cent of the approved capital cost of the asset.

(3) The generating business/company or transmission business/licensee or distribution business/licensee shall be allowed to claim depreciation to the extent of financial contribution in the form of loan and equity, including the loan and equity contribution, provided by them:

Provided that depreciation shall not be allowed on assets funded through consumer contribution, deposit works, capital subsidies and grants.

(4) In the case of existing assets, the balance depreciable value as on the First day of April, 2015, shall be worked out by deducting the cumulative depreciation as approved by the Commission up to the Thirty First day of March, 2015, from the gross depreciable value of the assets.

(5) Depreciation shall be chargeable from the first financial year of commercial operation:

Provided that in the case of commercial operation of the asset for part of the financial year, depreciation shall be charged on pro-rata basis:

Provided further that depreciation shall be re-calculated for assets capitalised during the financial year at the time of truing up, based on documentary evidence for capitalisation of assets submitted by the applicant, subject to the prudence check of the Commission, in such a way that the depreciation is calculated proportionately from the date of capitalisation.

(6) In case a single tariff needs to be determined for all the units of the generating station, the depreciation shall be computed from the effective date of commercial operation taking into consideration the depreciation of individual generating units thereof.

29. Return on investment. – (1) Return on equity shall be computed in rupee terms, on the paid up equity capital determined in accordance with the regulation 27 and shall be allowed at the rate of fourteen percent for generating business/companies, transmission business/licensee, distribution business/licensee and state load despatch centre:

Provided that, return on equity for generating business/company, transmission business/licensee, distribution business/licensee and state load despatch centre, shall be allowed on the amount of equity capital approved by the Commission for the assets put to use at the commencement of the financial year and on fifty percent of equity capital portion of the approved capital cost for the investment put to use during the financial year:

Provided further that at the time of truing up for the generating business/company, transmission business/licensee, distribution business/licensee and state load despatch centre, return on equity shall be allowed on pro-rata basis, taking into consideration the documentary evidence provided for the assets put to use during the financial year.

(2) If the equity invested in the regulated business of the generating business/company or transmission business/licensee or distribution business/licensee or state load despatch centre is not clearly identifiable, return at the rate of three percent shall be allowed on the net fixed assets at the beginning of the financial year for such regulated business:

Provided that net fixed assets shall be exclusive of the assets created out of consumer contribution, deposit works, capital subsidy or grants.

30. Interest and finance charges. – (1) (a) The loans arrived at in the manner indicated in regulation 27 shall be considered as gross normative loan for calculation of interest on loan.

(b) The interest and finance charges on capital works in progress shall be excluded from such consideration.

(c) In the case of retirement or replacement of assets, the loan amount approved by the Commission shall be reduced to the extent of outstanding loan component of the original cost of the retired or replaced assets, based on documentary evidence.

(2) The normative loan outstanding as on the First day of April, 2015, shall be worked out by deducting the amount of cumulative repayment as approved by the Commission up to the Thirty First day of March, 2015, from the normative loan.

(3) Notwithstanding any moratorium period availed by the generating business/company or the transmission business/licensee or the distribution business/licensee, the repayment of loan shall be considered from the first financial year of commercial operation of the project and shall be equal to the depreciation allowed for that financial year.

(4) 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 financial year applicable to the generating business/company or the transmission business/licensee or the distribution business/licensee or state load despatch centre:

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

Provided further that if the regulated business of the generating business/company or the transmission business/licensee or the distribution business/licensee or state load despatch centre does not have actual loan, then interest shall be allowed at the base rate.

(5) The interest on loan shall be calculated on the normative average loan for the financial year by applying the weighted average rate of interest.

(6) The generating business/company or the transmission business/licensee or the distribution business/licensee or the state load despatch centre, 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 any benefit from such refinancing shall be shared in the ratio 1:1 among,-

- (i) the generating business/company and the persons sharing the capacity charge; or
- (ii) transmission business/licensee and long-term intra-State open access customers including distribution business/licensee; or
- (iii) distribution business/licensee and consumers.

(7) The changes to the terms and conditions of the loans during the financial year, if any, shall be effective from the date of coming into force of such changes.

(8) Interest shall be allowed on the amount held as security deposit in cash from users of the transmission system or distribution system and consumers at the bank rate as on the First day of April of the financial year in which the application is filed:

Provided that interest on security deposit actually paid to the users of the transmission system or distribution system and to the consumers during the financial year, shall be considered at the time of truing up for the financial year.

31. Interest on bonds issued by KSEB Limited to service the terminal liabilities of its employees. – (1) The interest on the bonds issued by KSEB Limited to service the terminal liabilities of its employees shall be allowed for recovery through tariffs, at the rates stipulated in the relevant orders issued by Government of Kerala.

(2) The bonds shall be amortised at the same rate as prescribed in the Transfer Scheme notified by the Government of Kerala.

(3) The funds required for repayment of the bonds issued by KSEB Limited to service the terminal liabilities of its employees shall not be allowed for recovery through tariffs.

32. Tax on returns. – (1) The Commission shall provisionally approve Income Tax payable for ensuing financial year, if any, based on the actual Income Tax paid on permissible return on equity or return on net fixed assets, as approved by the Commission relating to the generating business/company or transmission business/licensee or distribution business/licensee or the state load despatch centre, as the case may be, as per latest available audited accounts of the applicant, subject to prudence check and such tax on returns shall be recovered directly from the beneficiaries:

Provided that no Income Tax on the amount of efficiency gains or incentive earned by the generating business/company or transmission business/licensee or distribution business/licensee or state load despatch centre shall be approved for recovery through tariff or charges from the consumers or beneficiaries:

Provided further that the generating business/company or transmission business/licensee or distribution business/licensee shall bill the Income Tax under a separate head called "Income Tax Reimbursement" in their respective bills.

(2) The difference between the Income Tax on regulated business actually paid and that approved by the Commission in the aggregate revenue requirement of the generating business/company or transmission business/licensee or distribution business/licensee or the state load despatch centre shall, subject to prudence check, be regulated as follows:-

(a) if the Income Tax actually paid on regulated business, is more than that approved by the Commission, the amount of difference will be allowed to be recovered from the consumers or the beneficiaries or the users as the case may be;

(b) if the Income Tax actually paid on regulated business, is less than that approved by the Commission, the amount of difference shall be reimbursed to the consumers or the beneficiaries or the users as the case may be.

(3) (a) Under-recovery or over-recovery of any amount from the consumers or the beneficiaries or the users on account of such Income Tax having been passed on to them shall be on the basis of Income-Tax assessment under the Income Tax Act, 1961, as certified by the statutory auditors.

(b) The generating business/company or transmission business/licensee or distribution business/licensee or the state load despatch centre, as the case may be, may include this variation in its application for truing up.

(4) (a) The portion of the Income Tax allocated to a thermal generating station out of the total Income Tax paid by the generating company, shall be recovered from the beneficiaries of the said thermal generating station in the same proportion as the annual fixed charges.

(b) The portion of the Income Tax allocated to a hydro-electric generating station out of the total Income Tax paid by the generating company, shall be recovered from the beneficiaries of the said hydro-electric generating station in the same proportion as the annual capacity charges.

(c) The Income Tax paid by the transmission business/licensee shall be recovered from the users in the same proportion as the annual transmission charges.

(d) The Income Tax paid by the distribution business/licensee shall be recovered from the consumers in the same proportion of the amount of electricity bill.

(4) The tax on any income other than from the business regulated by the Commission, shall not be approved for recovery from the beneficiaries and tax on such other income shall be borne by the generating business/company or transmission business/licensee or distribution business/licensee or the state load despatch centre, as the case may be.

33. Interest on working capital. – (1) The generation business/company or transmission business/licensee or distribution business/licensee or the state load despatch centre shall be allowed interest on the normative level of working capital for the financial year, computed as under,-

(a) In the case of liquid fuel based generating stations the working capital shall comprise of,-

- (i) cost of liquid fuel for one month corresponding to actual generation; plus
- (ii) operation and maintenance expenses for one month; plus
- (iii) cost of maintenance spares at one per cent of the historical cost; plus
- (iv) receivables equivalent to fixed charges and energy charges for sale of electricity for one month calculated at actual generation:

Provided that in the case of own generating stations, no amount shall, in the computation of working capital in accordance with these Regulations, be allowed towards receivables, to the extent of supply of power by the generation business to the distribution business.

- (b) In the case of gas turbine/combined cycle generating stations the working capital shall comprise of,-
- (i) cost of gas and liquid fuel for one month corresponding to actual generation; plus
 - (ii) operation and maintenance expenses for one month; plus
 - (iii) cost of maintenance spares at one per cent of the historical cost; plus
 - (iv) receivables equivalent to fixed charge and energy charge for sale of electricity for one month calculated at actual generation:

Provided that in the case of own generating stations, no amount shall, in the computation of working capital in accordance with these Regulations, be allowed towards receivables, to the extent of supply of power by the generation business to the distribution business.

- (c) In the case of hydro-electric generating stations the working capital shall comprise of,-
- (i) operation and maintenance expenses for one month; plus
 - (ii) cost of maintenance spares at one per cent of the historical cost; plus
 - (iii) receivables equivalent to fixed cost of one month:

Provided that in the case of own generating stations, no amount shall, in the computation of working capital in accordance with these Regulations, be allowed towards receivables, to the extent of supply of power by the generation business to the distribution business.

- (d) In the case of transmission business/licensee the working capital shall comprise of,-
- (i) operation and maintenance expenses for one month; plus
 - (ii) cost of maintenance spares at one per cent of the historical cost; plus

- (iii) receivables equivalent to transmission charges for one month calculated at target availability:

Provided that the amount, if any, held as security deposits except the security deposits held in the form of bank guarantee from users of the transmission system shall be reduced while computing the working capital requirement.

- (e) In the case of distribution business/licensee the working capital shall comprise of,-

- (i) operation and maintenance expenses for one month; plus
- (ii) cost of maintenance spares equal to one-twelfth of the sum of the book value of stores, materials and supplies at the end of each month of the financial year; plus
- (iii) receivables equal to the expected revenue from sale of electricity for two months at the prevailing tariff:

Provided that the following amounts shall be reduced while computing the working capital requirement:

- (i) the amount, if any, held as security deposits except the security deposits held in the form of Bank Guarantee from users of the distribution system and consumers; and
- (ii) the amount equivalent to the cost of power purchase for one month, based on the cost of power purchase approved by the Commission:

Provided further that the amount equivalent to the cost of power purchased for one month corresponding to the quantity of electricity supplied from the generating station owned by the distribution licensee shall not be deducted:

Provided also that for distribution business/licensees who supply electricity to their consumers on prepaid metering system, no interest on working capital shall be allowed.

- (f) In the case of the state load despatch centre the working capital shall comprise of,-

- (i) operation and maintenance expenses for one month; plus
- (ii) cost of maintenance spares at one per cent of the historical cost; plus
- (iii) receivables equivalent to state load despatch centre charges for one month.

(2) Interest on normative working capital shall be allowed at a rate equal to two percent higher than the base rate as on the First day of April of the financial year in which the application for approval of aggregate revenue requirement and determination of tariff is filed.

34. Decommissioning of assets .- (1) The generation business / company or the transmission business / licensee or the distribution business/licensee or the state load despatch centre shall submit to the Commission, along with the application for approval of the aggregate revenue requirement, the value and such other details of the assets decommissioned if any, during the previous financial year.

(2) The Commission may consider such details and take appropriate decisions while computing the aggregate revenue requirement.

35. Principles for adoption of Transfer Scheme under Section 131 of the Act.- The Commission may, for the purpose of approval of aggregate revenue requirements and determination of tariff, adopt the changes in the balance sheet, due to the re-organisation of the erstwhile Kerala State Electricity Board as per the provisions of the Transfer Scheme published by the Kerala State Government under Section 131 of the Act, subject to the following principles,-

- (a) Increase in the value of assets consequent to the revaluation of assets shall not qualify for computation of depreciation or of return on net fixed assets;
- (b) The equity of Government of Kerala as per the Transfer Scheme published under Section 131 of the Act will be considered for computation of return on equity.
- (c) The reduction of the contribution from consumers, grants and such other subventions for creation of assets, made as a part of Transfer Scheme, shall not be reckoned while computing depreciation or return on net fixed assets;
- (d) Only the payment of interest on the bonds issued to the Master Trust will be approved for computation of aggregate revenue requirement and the amount of repayment of such bonds shall not be reckoned for computation of aggregate revenue requirement.
- (e) The Commission may take appropriate decision on the other issues relating to the Transfer Scheme and its implementation on a case to case basis.

CHAPTER – VI GENERATION

36. Applicability. – (1) The regulations specified in this chapter shall apply to determination of tariff for supply of electricity to the distribution business/licensee by a generating company from conventional sources of generation such as coal, gas, liquid fuel and medium as well as large scale hydro-electric plants:

Provided that determination of tariff for supply of electricity to the distribution business/licensee from cogeneration plants, solar plants, small hydro-electric projects, wind energy projects and other renewable energy sources of generation shall be governed by separate Regulations specified by the Commission from time to time:

(2) The Commission shall determine the tariff for supply of electricity by the generating business/company to the distribution business/licensee in accordance with the terms and conditions specified in the following cases:-

- a) where such tariff is to be determined pursuant to a power purchase agreement or arrangement entered into subsequent to the date of coming into effect of these Regulations; or
- b) where such tariff is pursuant to a power purchase agreement or arrangement entered into, without previous approval of the Commission, prior to the date of coming into effect of these Regulations; or
- c) where the distribution licensee is engaged in the business of generation of electricity, for determination of the transfer price at which electricity is supplied by the generation business to the distribution business/licensee.

37. Capital cost. – (1) Capital cost for a new project shall include the following subject to prudence check:-

- a) the expenditure incurred or projected to be incurred;
- b) Interest during construction and financing charges on the loan component considered in accordance with the debt-equity ratio specified under regulation 27;
- c) any gain or loss on account of foreign exchange rate variation on the loan during construction up to the date of commercial operation of the project, as approved by the Commission;

- d) Increase in cost of contract packages as approved by the Commission;
- e) capitalised cost of initial spares subject to the ceiling rates specified in Annexure-VI;
- f) additional capitalisation approved under regulation 24;
- g) adjustment of revenue due to sale of infirm power in excess of fuel cost prior to the date of commercial operation:

Provided that the cost of common assets forming part of the project shall be approved based on suitable allocation and such allocated cost shall form part of the capital cost.

(2) The capital cost of an existing project shall include the following:-

- a) the capital cost approved by the Commission prior to the First day of April 2015 duly trued up by excluding liability, if any, as on the First day of April 2015;
- b) additional capitalization for the respective financial year as determined in accordance with regulation 24; and
- c) expenditure on account of renovation and modernisation as approved by the Commission in accordance with regulation 39.

(3) The capital cost in the case of a new generating station shall also include,-

- a) cost of approved rehabilitation and resettlement plan of the project in conformity with national rehabilitation and resettlement policy and rehabilitation and resettlement package as approved; and
- b) the contribution of the generating company towards the cost of development activities, if any, in the project affected area, as may be approved by the Commission.

(4) In relation to multi-purpose hydro-electric projects, with irrigation, flood control and power components, the capital cost chargeable to the power component of the project shall only be considered for determination of tariff.

38. Prudence check of capital cost. –The Commission shall adopt the following principles for prudence check of capital cost of the new projects:-

- (a) In the case of the thermal generating station, prudence check of capital cost may be carried out taking into consideration the benchmark norms specified by the Central Electricity Regulatory Commission from time to time;
- (b) In the case where benchmark norms have not been specified, prudence

check may include scrutiny of the capital expenditure, financing plan, interest during construction, etc., for its reasonableness, use of efficient technology, cost over-run and time over-run, competitive bidding for procurement and such other matters as may be considered appropriate by the Commission for determination of tariff;

- (c) In the cases where benchmark norms have been specified, the generating company, which exceeds the benchmark norms, shall submit the reasons for exceeding the capital cost vis-a-vis benchmark norms to the satisfaction of the Commission for allowing cost above benchmark norms;
- (d) The Commission may engage an independent agency or an expert to scrutinize the capital cost of any hydro-electric generation project and in that case the capital cost vetted by such agency or expert may be considered by the Commission while determining the tariff for the hydro-electric generation project:

Provided that the Commission shall hear the concerned applicant and other stakeholders before taking a final decision on the report of such agency or expert.

39. Renovation, modernisation or uprating.– (1) The generating business/company shall, for meeting the expenditure on renovation, modernization or uprating of the generating station or a generating unit thereof, 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 generation business/company.

(2) Where the generating business/company makes an application for approval of its proposal for renovation, modernisation or uprating, the approval shall be granted after due prudence check 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 and approved or projected to be incurred and approved by the Commission after prudence check of the estimates for renovation, modernization or uprating and after deducting the accumulated depreciation already recovered from the original project cost, shall form the basis for determination of tariff.

40. Application for determination of generation tariff for existing and new generating station or generating unit. – (1) Tariff in respect of a generating station under these Regulations may be determined stage-wise, unit-wise or for the whole generating station:

Provided that the terms and conditions for determination of tariff for generating stations specified in this chapter shall apply in like manner to stages or units, as the case may be, as in the case of generating stations.

(2) (a) Where the tariff is being determined for stage or generating 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 generating units, as the case may be:

(b) the generation business/company shall maintain an allocation statement providing the basis for allocation of such costs, which shall be duly audited and certified by the statutory auditors and submit such audited and certified statement to the Commission along with the application for determination of tariff.

(3) In the case of an existing generating station, the application for determination of generation tariff shall be made not later than one hundred and eighty days from the date of notification of these Regulations, based on the approved capital cost including any additional capital expenditure already approved up to the Thirty First day of March 2015, based either on actual or on projected additional capital expenditure and estimated additional capital expenditure for the ensuing financial years.

(4) In the case of existing projects, the Commission may allow generation business/company, the tariff based on the approved capital cost as on the First day of April 2015 and projected additional capital expenditure for the ensuing financial years:

Provided that the generation business/company shall continue to bill the beneficiaries at the tariff approved by the Commission and applicable as on the Thirty First day of March 2015 for the period starting from the First day of April 2015 till approval of tariff by the Commission in accordance with these Regulations.

(5) The generation business/company shall file the application for determination of provisional tariff for new generating station, one hundred and eighty days prior to the anticipated date of commercial operation of generating unit or stage or generating station as a whole, as the case may be.

(6) The generation business/company shall make an application for determination of tariff based on capital expenditure incurred or projected to be

incurred up to the date of commercial operation and additional capital expenditure incurred, duly certified by the statutory auditors:

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

(7) In the case of new projects, the generating company may be allowed provisional tariff by the Commission from the anticipated date of commercial operation, based on the projected capital expenditure.

(8) If the date of commercial operation is delayed beyond one hundred and eighty days from the date of issue of tariff order, the tariff granted shall be deemed to have been withdrawn and the generation business/company shall be required to file after the date of commercial operation of the project, a fresh application for determination of tariff.

(9) The generation business/company shall file the application for determination of final tariff for new generating station within one hundred and eighty days from the date of commercial operation of generating unit or stage or generating station as a whole, as the case may be, based on the audited capital expenditure and capitalisation as on the date of commercial operation.

(10) Truing up of the capital cost for the new generating station shall be done by the Commission based on prudence check of the audited capital expenditure and capitalisation as on the date of commercial operation.

(11) Where the actual capital cost incurred on year to year basis is lesser than the capital cost approved for determination of tariff by the Commission on the basis of the projected capital cost as on the date of commercial operation or on the basis of the projected additional capital cost, by five percent or more, the generation business/company shall refund to the beneficiaries as approved by the Commission, the excess tariff realised corresponding to excess capital cost, along with interest at 1.20 times of the base rate plus three hundred and fifty basis points, as prevalent on the First day of April of the respective financial year.

(12) Where the actual capital cost incurred on year to year basis is higher than the capital cost approved for determination of tariff by the Commission on the basis of the projected capital cost as on the date of commercial operation or on the basis of the projected additional capital cost, by five percent or more, the generation business/company shall, subject to the approval of the Commission, be entitled to recover from the beneficiaries the shortfall in tariff corresponding to such decrease in capital cost along with interest at 0.80 time of the base rate plus three hundred and fifty basis points, as prevalent on the First day of April of the respective financial year.

41. Sharing of gains or losses on account of controllable and uncontrollable factors. – (1) The financial gains or losses on account of controllable factors, computed as per following formulae in the case of generating station on account of normative operational parameters specified in sub-regulations (5), (6), (7), (8), and (9) of regulation 47 of these Regulations shall be shared in the ratio of 2:1 between the generating station and beneficiaries,-

Net Gain = $(ECR_N - ECR_A) \times$ actual energy generated, where ECR_N is greater than ECR_A

Net loss = $(ECR_A - ECR_N) \times$ actual energy generated, where ECR_A is greater than ECR_N

ECR_N – normative rate of energy charge computed on the basis of norms specified for gross station heat rate and auxiliary consumption for the month;

ECR_A – actual rate of energy charge computed on the basis of actual gross station heat rate and auxiliary consumption for the month.

(2) The financial gains of the generation business/company on account of controllable parameters computed under sub-regulation (1) above shall be shared between the generation business/company and the beneficiaries on monthly basis with annual reconciliation.

(3) The aggregate loss to the generating business/company on account of controllable parameters computed under sub-regulation (1) above shall be borne by the generating business/company and shall not be passed on to the consumer in any manner.

(4) The financial gains or losses by the generation business/company on account of uncontrollable parameters shall, subject to approval by the Commission, be passed on to the beneficiaries of the generation business/company after prudence check.

42. Components of tariff. – (1) (a) The tariff for sale of electricity from a hydro-electric generating station shall comprise of two parts, namely, capacity charge and energy charge.

(b) The annual capacity charge of a hydro-electric generating station shall be computed on annual basis, based on the norms specified under these Regulations and recovered on monthly basis as capacity charge (inclusive of incentive), which shall be payable by the beneficiaries in proportion to their respective share of allocation in the total saleable capacity of the generating station.

(c) The energy charge of a hydro-electric generating station shall be computed based on the norms specified under these Regulations and shall be payable by the beneficiaries in proportion to the energy availed by them.

(2) (a) The tariff for sale of electricity from a liquid fuel or gaseous fuel based thermal generating station shall comprise of two parts, namely, annual fixed charge and energy charge.

(b) The annual fixed charge of a liquid fuel or gaseous fuel based thermal generating station shall be computed on annual basis, based on the norms specified under these Regulations and recovered on monthly basis as fixed charge (inclusive of incentive), which shall be payable by the beneficiaries in proportion to their respective share of allocation in the total saleable capacity of the generating station.

(c) The energy charge of a liquid fuel or gaseous fuel based thermal generating station shall be computed based on the norms specified under these Regulations and shall be payable by the beneficiaries in proportion to the energy availed by them.

43. Annual capacity / fixed charges. – (1) The annual capacity/fixed charges of a hydro-electric generating station or of a liquid fuel or gaseous fuel based thermal generating station, shall comprise of the following components:-

- (i) Operation & maintenance expenses;
- (ii) Depreciation;
- (iii) Interest and finance charges
- (iv) Interest on working capital;
- (v) Return on equity:

Provided that the non-tariff income if any, shall be reduced while computing the annual capacity / fixed charges.

44. Operation and maintenance expenses. – (1) (a) In the case of existing generating stations, the generation business of KSEB Limited shall be allowed to recover operation and maintenance expenses for each financial year of the first control period, as per the norms specified in Annexure-VII to these Regulations:

(b) The generation business of KSEB Limited shall, subject to prudence check by the Commission, be allowed to recover, in addition to the above specified normative operation and maintenance expenses, the annual pension contribution to the Master Trust, based on actuarial valuation in respect of the personnel allocated to the generation business of KSEB Limited.

(2) In the case of new generating stations, the generating company shall be allowed to recover during the first control period, the operation and maintenance expenses as specified hereunder, -

- a) the operation and maintenance expenses in the first year of operation shall be two percent of the original project cost (excluding cost of rehabilitation and resettlement works); and
- b) the operation and maintenance expenses for each subsequent financial year of the first control period shall be determined by escalating at the rate of 5.85 percent of the operation and maintenance expenses for the first year as determined above.

(3) The Commission may revise the norms for operation and maintenance expenses applicable to subsequent control periods.

45. Non-tariff income. - (1) The amount of non-tariff income of the generation business/company as approved by the Commission shall be deducted from the annual fixed charges while determining the annual fixed charges of the generation business/company.

(2) The indicative list of items to be considered as non-tariff income are as specified hereunder:-

- (i) interest on staff loans and advances;
- (ii) income from statutory investments;
- (iii) income from sale of ash/rejected coal;
- (iv) income from rent of land or buildings;
- (v) income from sale of scrap;
- (vi) income from staff welfare activities;
- (vii) rental from staff quarters;
- (viii) excess found on physical verification;
- (ix) interest on investments, fixed and call deposits and bank balances;
- (x) interest on advances to suppliers/contractors;
- (xi) income from hire charges from contractors and others;
- (xii) income from advertisements, etc.;
- (xiii) miscellaneous receipts;
- (xiv) interest on delayed or deferred payment on bills; and
- (xv) rebate from fuel suppliers.

(3) The generation business/company shall submit full details of its forecast of non-tariff income to the Commission along with its application for determination of tariff.

(4) The interest earned from investments made out of return on investment by the generation business/company shall not be included in non-tariff income.

46. Norms of operation for hydro-electric generating stations. – (1) Normative annual plant availability factor (NAPAF) for recovery of full annual capacity charges and incentive shall be as specified hereunder:-

- (a) The NAPAF for the following existing storage and pondage type hydro-electric generating stations of KSEB Limited, where the variation in head between full reservoir level (FRL) and minimum draw down level (MDDL) is of and below eight percent of their respective design heads, shall be as specified in the table below:

Table

Sl. No.	Station	NAPAF
(i)	Idukki	90%
(ii)	Kuttiady	90%
(iii)	Pallivasal	90%
(iv)	Sengulam	90%

Provided that the Commission may revise the NAPAF for the above mentioned generating stations in the case of their renovation, modernisation and uprating:

Provided further that the generating station shall be allowed deemed generation over and above the actual generation for the period during which the generating station is backed down on the instruction of the state load despatch centre:

Provided also that the deemed generation shall not be reckoned for the purposes of calculating the incentive.

- (b) NAPAF for the following existing storage and pondage type hydro-electric generating station where the variation in head between full reservoir level and minimum draw down level is more than eight percent of their respective design heads, shall be as specified in the table below:

Table

Sl. No.	Station	NAPAF
(i)	Idamalayar	77%
(ii)	Kakkad	88%
(iii)	Panniar	89%
(iv)	Poringalakuthu	89%
(v)	Sabarigiri	90%
(vi)	Sholayar	89%
(vii)	Malankara	81%

Provided that the Commission may revise the NAPAF for the above mentioned generating stations in the case of their renovation, modernisation and uprating:

Provided further that the generating station shall be allowed deemed generation over and above the actual generation for the period during which the generating station is backed down on the instruction of the state load despatch centre:

Provided also that the deemed generation shall not be reckoned for the purposes of calculating the incentive.

- (c) The NAPAF for new storage and pondage type hydro-electric generating stations where the variation in head between full reservoir level (FRL) and minimum draw down level (MDDL) is of and below 8 percent of their respective design heads and where plant availability is not affected by silt shall be ninety percent;
 - (d) For new storage and pondage type hydro-electric generating stations where the variation in head between full reservoir level and minimum draw down level is more than eight percent of their respective design heads and where plant availability is not affected by silt, the month-wise peaking capability as provided by the project authorities in the detailed project report, approved by Central Electricity Authority or by the State Government, shall form the basis for fixation of NAPAF;
 - (e) The NAPAF for new storage and pondage type hydro-electric generating stations where plant availability is significantly affected by silt shall be 85 percent;
 - (f) The NAPAF for new run-of-the-river type hydro-electric generating stations shall be determined station-wise, based on ten day design energy data, moderated by past experience if available;
 - (g) The Commission may, at its discretion, grant an allowance in determination of NAPAF under special circumstances, such as abnormal silt problem, operating problems or plant limitations.
- (2) Auxiliary Consumption for hydro-electric generating stations shall be as specified hereunder:
- (a) Normative auxiliary consumption of the following existing hydro-electric generating stations of KSEB Limited, including transformation losses shall be as specified in the table below:

Table

Sl. No.	Station	Type of Station		Auxiliary Consumption (%)
		Surface Hydro / Underground	Excitation system	
(i)	Idamalayar	Surface Hydro	Static	0.10%
(ii)	Idukki	Underground	Static	0.53%
(iii)	Kakkad	Surface Hydro	Rotating	0.71%
(iv)	Kuttiady	Surface Hydro	Rotating	0.24%
(v)	Lower Periyar	Surface Hydro	Static	0.13%
(vi)	Neriamangalam	Surface Hydro	Static	0.18%
(vii)	Pallivasal	Surface Hydro	Brushless	1.00%
(viii)	Panniar	Surface Hydro	Static	0.53%
(ix)	Poringalakuthu	Surface Hydro	Brushless	0.44%
(x)	Sabarigiri	Surface Hydro	Static	0.22%
(xi)	Sengulam	Surface Hydro	Static	0.15%
(xii)	Sholayar	Surface Hydro	Brushless	0.18%

(b) Auxiliary energy consumption including transformation losses for new hydro-electric generating stations shall be as specified in the table below:

Table

Sl. No.	Type of station	Auxiliary consumption
(i)	Surface hydro-electric generating stations with rotating exciters mounted on the generator shaft	0.7 percent
(ii)	Surface hydro-electric generating stations with static excitation system	1 percent.
(iii)	Underground hydro-electric generating station with rotating exciters mounted on the generator shaft	0.9 percent
(iv)	Underground hydro-electric generating station with static excitation system	1.2 percent.

Provided that the normative auxiliary consumption as specified in clauses (a) and (b) above may be revised by the Commission on submission of an application by the generation business/company with reliable data to substantiate its claim in this regard.

47. Norms of operation for thermal generating stations.– (1) Normative annual plant availability factor (NAPAF) for **full** recovery of annual fixed

charges for liquid fuel based generating stations of KSEB Limited shall be as specified in the table below:

Table

Sl. No.	Station	NAPAF
(i)	Brahamapuram Diesel Power Plant (BDPP)	80%
(ii)	Kozhikode Diesel Power Plant (KDPP)	80%

Note: Above NAPAF shall be worked out only based on availability during the peak hours from 18:00 hours to 22:00 hours so long as their scheduling is restricted to the peak hours:

Provided that the Commission may revise the NAPAF in the case of renovation, modernisation or uprating.

(2) The norms for operation of other thermal generating stations shall be decided by the Commission on a case to case basis.

(3) The normative annual plant load factor (NAPLF) for allowing incentive to the liquid fuel based generating stations of Kerala State Electricity Board Limited shall be eighty percent.

(4) The normative annual plant load factor (NAPLF) for allowing incentive to other thermal generating stations shall be determined by the Commission on a case to case basis.

(5) The normative gross station heat rate for the liquid fuel based generating stations of KSEB Limited shall be as specified in the table below:

Table

Sl. No.	Station	Heat Rate (kcal/kWh)
1	Brahamapuram Diesel Power Plant (BDPP)	2000
2	Kozhikode Diesel Power Plant (KDPP)	2100

Provided that the Commission may revise the gross station heat rate in the case of renovation, modernisation or uprating.

(6) The normative gross station heat rate of gas based/liquid fuel based generating station achieving commercial operation on or after the First day of April, 2015 shall be as specified in the table below:

Table

Sl. No.	Type of fuel used in the plant	Gross station heat rate (kcal/kWh)
(i)	Natural gas and re-gasified liquefied natural gas	1.05 x design heat rate of the unit/block
(ii)	Liquid fuel	1.071 x design heat rate of the unit/block

Explanation : The design heat rate of a unit shall mean the guaranteed heat rate for a unit at one hundred percent maximum continuous rating (MCR) and at site ambient conditions; and the design heat rate of a block shall mean the guaranteed heat rate for a block at one hundred percent maximum continuous rating (MCR) at site ambient conditions, zero percent make up and design cooling water temperature/back pressure.

(7) The normative gross station heat rate of other thermal generating stations shall be determined by the Commission on a case to case basis.

(8) The normative auxiliary consumption for liquid fuel based generating stations of KSEB Limited shall be as specified in the table below:

Table

Sl. No.	Station	Auxiliary Energy Consumption (%)
(i)	Brahamapuram Diesel Power Plant (BDPP)	3.87
(ii)	Kozhikode Diesel Power Plant (KDPP)	1.99

Provided that the Commission may revise the auxiliary consumption for the above mentioned generating stations in the case of renovation, modernisation or uprating.

(9) The normative auxiliary consumption for gas turbine/combined cycle generating stations shall be as specified in the table below:

Table

Sl. No.	Type of plant	Auxiliary consumption
(i)	Combined Cycle	2.5 percent
(ii)	Open Cycle	1.0 percent

(10) The normative auxiliary consumption for other thermal generating stations shall be determined by the Commission on a case to case basis.

48. Computation of capacity charge and energy charge for hydro-electric generating station. – (1) The capacity charge, inclusive of incentive, payable to storage and pondage type hydro-electric generating stations for a calendar month shall be:-

$$AFC \times 0.5 \times NDM \div NDY \times (PAFM \div NAPAF) \text{ (in rupees)}$$

Where,

AFC = annual fixed charges specified for the financial year, in Rupees.

NAPAF = normative annual plant availability factor in percentage

NDM = number of days in the month

NDY = number of days in the financial year

PAFM = plant availability factor achieved during the month, in percentage.

(2) The PAFM for storage and pondage type hydro-electric generating stations shall be computed in accordance with the following formula:-

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

Where,

AUX = normative auxiliary consumption in percentage

DC_i = declared capacity (in ex-bus MW) for the ith day of the month which the station can deliver for at least three (3) hours, as certified by the 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

(3) The energy charge for storage and pondage type hydro-electric generating stations 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.

(4) Energy charge rate (ECR) in rupees per kWh on ex-power plant basis, for storage and pondage type hydro-electric generating stations, shall be determined up to three decimal places based on the following formula, subject to provisions of sub-regulation (6):-

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

Where,

DE = annual design energy of the hydro-electric generating station, in MWh

(5) In case the actual total energy generated by a storage and pondage type hydro-electric generating station during a financial year is less than the design energy for reasons beyond the control of the generating station, the following treatment shall be applied on a rolling basis on an application filed by the generation business/company:-

- a) In case the energy shortfall occurs within ten financial years from the date of commercial operation of a generating station, the energy charge rate (ECR) for the financial year following the financial year of energy shortfall shall be computed based on the formula specified in sub-regulation (4) with the modification that the design energy for the financial year shall be considered as equal to the actual energy generated during the financial year of the shortfall, till the shortfall in energy charge of the previous financial year has been made up, after which normal energy charge rate (ECR) shall be applicable:

Provided that in case actual generation from a hydro-electric generating station is less than the design energy for a continuous period of four financial years on account of hydrology factor, the generating station may approach Central Electricity Authority (CEA) or the State Government with relevant hydrology data for revision of design energy of the station.

- b) In case the energy shortfall occurs after ten financial years from the date of commercial operation of a generating station, the following shall apply:-
- (i) If the specified annual design energy 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 sub-regulation (4) of this regulation for calculating the energy charge rate (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.
- (ii) Actual energy generated (e.g., A1, A2) shall be arrived at by multiplying the net metered energy sent out from the station by $100 \div (100 - AUX)$.

(6) In case the energy charge rate (ECR) for a storage and pondage type hydro-electric generating station, computed as per sub-regulation (4) exceeds one hundred paise per kWh and the actual saleable energy in a financial year exceeds $\{ DE \times (100 - AUX) \div 10000 \}$ MWh, the energy charge for the

energy in excess of the above shall be billed at one hundred paise per kWh only:

Provided that in a financial year following a financial year in which total energy generated was less than the design energy for reasons beyond the control of the generation business/company, the energy charge rate shall be reduced to one hundred paise per kWh after the energy charge shortfall of the previous financial year has been made up.

(7) The state load despatch centre shall finalise the schedules for the hydro-electric 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 allocation of capacity of the generating station.

(8) The 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 financial year, validating the PAFM during the financial year, to the generation business/company.

(9) The energy charge for run of the river type hydro-electric generating stations 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.

(10) Energy charge rate (ECR) in rupees per kWh on ex-power plant basis, for run of the river type hydro-electric generating stations, shall be determined up to three decimal places based on the following formula:-

$$\text{ECR} = \text{AFC} \div \text{DE},$$

Where,

DE = annual design energy of the hydro-electric generating station, in MWh.

(11) In case the energy charge rate (ECR) for run of the river type hydro-electric generating station, computed as per sub-regulation (10) exceeds one hundred paise per kWh and the actual saleable energy in a financial year exceeds $\{ \text{DE} \times (100 - \text{AUX}) \div 10000 \}$ MWh, the energy charge for the energy in excess of the above shall be billed at one hundred paise per kWh only.

49. Computation of fixed charge and energy charge for thermal generating stations,- (1) (a) The capacity charge payable to a thermal generating station for a calendar month shall be calculated in accordance with the following formulae:-

$$\text{CC}_1 = (\text{AFC} \div 12) (\text{PAF}_1 \div \text{NAPAF}) \text{ subject to ceiling of } (\text{AFC} \div 12)$$

$$\text{CC}_2 = ((\text{AFC} \div 6) (\text{PAF}_2 \div \text{NAPAF}) \text{ subject to ceiling of } (\text{AFC} \div 6)) - \text{CC}_1$$

$$\begin{aligned}
CC_3 &= ((AFC \div 4) (PAF_3 \div NAPAF) \text{ subject to ceiling of } (AFC \div 4)) - (CC_1 + CC_2) \\
CC_4 &= ((AFC \div 3) (PAF_4 \div NAPAF) \text{ subject to ceiling of } (AFC \div 3)) - (CC_1 + CC_2 + CC_3) \\
CC_5 &= ((AFC \times 5 \div 12) (PAF_5 \div NAPAF) \text{ subject to ceiling of } (AFC \times 5 \div 12)) - (CC_1 + CC_2 + CC_3 + CC_4) \\
CC_6 &= ((AFC \div 2) (PAF_6 \div NAPAF) \text{ subject to ceiling of } (AFC \div 2)) - (CC_1 + CC_2 + CC_3 + CC_4 + CC_5) \\
CC_7 &= ((AFC \times 7 \div 12) (PAF_7 \div NAPAF) \text{ subject to ceiling of } (AFC \times 7 \div 12)) - (CC_1 + CC_2 + CC_3 + CC_4 + CC_5 + CC_6) \\
CC_8 &= ((AFC \times 2 \div 3) (PAF_8 \div NAPAF) \text{ subject to ceiling of } (AFC \times 2 \div 3)) - (CC_1 + CC_2 + CC_3 + CC_4 + CC_5 + CC_6 + CC_7) \\
CC_9 &= ((AFC \times 3 \div 4) (PAF_9 \div NAPAF) \text{ subject to ceiling of } (AFC \times 3 \div 4)) - (CC_1 + CC_2 + CC_3 + CC_4 + CC_5 + CC_6 + CC_7 + CC_8) \\
CC_{10} &= ((AFC \times 5 \div 6) (PAF_{10} \div NAPAF) \text{ subject to ceiling of } (AFC \times 5 \div 6)) - (CC_1 + CC_2 + CC_3 + CC_4 + CC_5 + CC_6 + CC_7 + CC_8 + CC_9) \\
CC_{11} &= ((AFC \times 11 \div 12) (PAF_{11} \div NAPAF) \text{ subject to ceiling of } (AFC \times 11 \div 12)) - (CC_1 + CC_2 + CC_3 + CC_4 + CC_5 + CC_6 + CC_7 + CC_8 + CC_9 + CC_{10}) \\
CC_{12} &= ((AFC) (PAF_Y \div NAPAF) \text{ subject to ceiling of } (AFC)) - (CC_1 + CC_2 + CC_3 + CC_4 + CC_5 + CC_6 + CC_7 + CC_8 + CC_9 + CC_{10} + CC_{11}):
\end{aligned}$$

Where,-

AFC = annual fixed cost for the financial year, in Rupees;

NAPAF = normative annual plant availability factor in percentage;

PAF_n = percent plant availability factor achieved up to the end of the nth month;

PAFY = percent plant availability factor achieved during the financial year;

CC₁, CC₂, CC₃, CC₄, CC₅, CC₆, CC₇, CC₈, CC₉, CC₁₀, CC₁₁ and CC₁₂ are the capacity charges of the first, second, third, fourth, fifth, sixth, seventh, eighth, ninth, tenth, eleventh and twelfth months respectively:

Provided that in the case of generating station or generating unit thereof under shutdown due to renovation, modernisation or uprating the generation business/company shall be allowed to recover part of annual fixed cost (AFC), which shall include O&M expenses and interest on loan only:

Provided further that the repairs and maintenance charges in respect of the unit under renovation, modernisation or uprating shall be reduced while computing O&M expenses as specified in the first proviso.

(b) The PAFM up to the end of a particular month and PAFY shall be computed in accordance with the following formula:

$$\text{PAFM or PAFY} = \frac{10000 \times \sum_{i=1}^N \text{DC}_i}{\{N \times \text{IC} \times (100 - \text{AUX})\}} \%$$

Where,-

AUX=normative auxiliary consumption in percentage;

DC_i = average declared capacity (in ex-bus MW), for the ith day of the period, i.e., the month or the financial year as the case may be, as certified by the state load despatch centre after the day is over;

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

N = Number of days during the period.

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

(2) Incentive to a generating station or generating unit thereof shall be payable at a flat rate of 50 paise/kWh for ex-bus energy generated in excess of ex-bus energy corresponding to normative annual plant load factor (NAPLF) as specified in sub regulation (3) and sub-regulation (4) of regulation 47.

(3) (a) The energy charge shall cover the cost of landed fuel and shall be computed as follows:-

Energy charges shall be worked out on the basis of ex-bus energy sent out from the generating station as per the following formula:

Energy charges (Rs) = energy charge rate in Rs/kWh x energy (ex-bus) for the month in kWh corresponding to actual generation.

(b) Energy charge rate (ECR) in Rs/kWh shall be the equal to the cost of normative quantity of fuel for delivering ex-bus one kWh of electricity and shall be computed as under:-

$$\text{ECR} = \text{GSHR} \times \text{LPPF} \times 100 \div \{\text{CVPF} \times (100 - \text{AUX})\}$$

Where,-

AUX = normative auxiliary consumption

GSHR = gross station heat rate in kcal per kWh;

LPPF = weighted average landed price of primary fuel, in rupees per kg, per litre or per standard cubic metre, as applicable during the month. (In the case of blending of fuel from different sources, the

weighted average landed price of primary fuel shall be arrived in proportion to blending ratio);

CVPF = weighted average gross calorific value of primary fuel as received, in kcal per kg, per litre per standard cubic metre, as applicable for liquid fuel based and gas based stations.

(c) Any variation in price and/or gross calorific value of liquid fuel or gas vis-a-vis approved values shall be adjusted on month to month basis on the basis of average gross calorific value of liquid fuel or gas in stock, received and burnt and weighted average landed cost incurred by the generation business/company for procurement of liquid fuel or gas for a power station. In its bills, the generation business/company shall indicate the energy charge rate at base price of primary fuel specified by the Commission and the fuel surcharge to it separately. The generation business/company should submit the computation of fuel surcharge to the Commission on six-monthly basis for post-facto approval of adjustment of energy charge rate.

50. Demonstration of declared capacity. – (1) The generation business/company shall demonstrate the declared capacity of its generating stations as and when asked to do so by the state load despatch centre.

(2) In case, the generation business/company fails to demonstrate the declared capacity as and when required by the state load despatch centre, the capacity charges due to the generation business/company shall be reduced as specified in sub-regulation (3).

(3) (a) The quantum of reduction in the capacity charges for the first wrong declaration for the duration of time block in a day, shall be the charges corresponding to two days capacity charges.

(b) For the second wrong declaration, the quantum of reduction in capacity charges shall be equivalent to capacity charges for four days and for subsequent wrong declarations, the quantum of reduction in the capacity charges shall be increased in geometrical progression.

(4) The operating logbooks of the generating station shall contain the record of operation and maintenance of machine, reservoir level, operation of spillway gate and such other relevant details and they shall be made available for scrutiny as and when required by the state load despatch centre.

51. Tariff for sale of infirm power. - (1) The tariff for sale of infirm power from the hydro-electric generating station to the distribution business/licensee shall be equivalent to the energy charge rate for the first financial year and revenue recovered from sale of infirm power shall be deducted from the capital cost.

(2) The tariff for sale of infirm power from a thermal generating station to the distribution business/licensee shall be fixed by the Commission in such a way that the fuel cost for generating the infirm power is recovered.

52. Billing and payment of charges. – Billing and payment of charges shall be done on a monthly basis in the following manner:-

- (a) Billing and payment of annual fixed charges and energy charges for generating stations shall be done on a monthly basis subject to adjustments at the end of the financial year;
- (b) The distribution business/licensee and persons having power purchase agreement for firm power for more than one year shall pay the fixed/capacity charges in proportion to their shares or allocations in the installed capacity of a generating station;
- (c) For payment of bills through a letter of credit on presentation, the generation business/company and distribution business/licensee may mutually agree to a maximum rebate of two percent of the bill amount;
- (d) If the payments are made within one week of presentation of the bill, the generating company and distribution licensee may mutually agree to a maximum rebate of 1.25 percent of the bill amount;
- (e) In case the payment of bills is delayed beyond a period of two (2) months from the date of billing, a late payment surcharge at the rate of 1.25 percent per month shall be allowed to be levied by the generation business/company:

Provided that in the case of agreements or arrangements for purchase of power entered into before the First day of April, 2015, the billing and payment of charges shall be in accordance with the terms and conditions of such agreement or arrangement.

53. Tariff for supply of electricity from thermal generating stations based on coal and pet-coke.- The tariff for supply of electricity to the distribution business/licensee by a generating company from the generating plants based on fuel such as coal and pet-coke shall be determined by the Commission on a case to case basis, keeping in view the financial principles and norms applicable to generation of electricity as specified in these Regulations.

CHAPTER – VII TRANSMISSION

54. Applicability. – The regulations specified in this chapter shall apply to,-

- (i) the determination of tariff for access and use of the transmission system of the transmission business/licensee;
- (ii) the determination of rates, charges and terms and conditions for the use of intervening transmission facilities pursuant to an application made under the proviso to Section 36 of the Act.

55. Capital cost.– (1) The sum of annual capital costs from the date of commencement of each capital expenditure project till the date of its commissioning, as approved by the Commission after prudence check, shall be the original capital cost of such project for the purpose of determination of tariff.

(2) The provisions of the Accounting Standard (AS10) of the Institute of Chartered Accountants of India, applicable for accounting of the fixed assets, shall apply, to the extent not inconsistent with these Regulations, in determining the original cost of capital expenditure projects and/or original cost of fixed assets capitalized.

56. Capital investment plan. – (1) The transmission business/licensee shall on or before the Thirtieth day of September of the current financial year, submit to the Commission for its approval, a detailed capital investment plan, financing plan and physical targets, for undertaking investments for strengthening and augmenting the intra-State transmission system for meeting the requirement of power evacuation, load growth, reduction in transmission losses, improvement in quality of supply, reliability, metering, etc., for the ensuing financial year and subsequent financial years of the control period, in accordance with the 'Guidelines for In-principle Clearance of Capital Investment' specified at Annexure-IV.

(2) The capital investment plan of the transmission business/licensee shall be consistent with the transmission system plan for the intra-State transmission system.

(3) The transmission business/licensee shall be required to ensure optimum investments to enhance efficiency and productivity.

(4) (a) The capital investment plan shall be accompanied by such information, particulars and documents as may be required to substantiate the need and to justify the proposed investments based on load flow studies.

(b) The investment plan shall also include capitalisation schedule and financing plan.

(5) The Commission may approve the capital investment plan of the transmission business/licensee, with appropriate modifications, if required or reject the same, based on the prudence check:

Provided that the Commission shall afford to the transmission licensee, a reasonable opportunity of being heard, before rejecting the proposal for approval of the capital investment plan.

(6) The costs corresponding to the approved investment plan of the transmission business/licensee for a given financial year shall be considered for its revenue requirement.

57. Prudence check of capital cost.– (1) The principles specified in the following sub-regulations shall be adopted for prudence check of capital cost of the projects.

(2) In the case of the transmission projects, prudence check of capital cost may be carried out taking into consideration the benchmark norms specified by the Central Electricity Regulatory Commission from time to time.

(3) In the cases where benchmark norms have not been specified, prudence check may include scrutiny of the capital expenditure, financing plan, interest during construction, etc., for its reasonableness, use of efficient technology, cost over-run and time over-run, competitive bidding for procurement and such other matters as may be considered appropriate by the Commission for determination of tariff.

(4) In the cases where benchmark norms have been specified and the capital cost proposed by the transmission business/licensee exceeds such norms, the transmission business/licensee shall submit the reasons for exceeding the benchmark capital cost to the satisfaction of the Commission for allowing any cost above benchmark norms.

(5) The Commission may engage an independent agency or an expert to scrutinize the capital cost of any transmission project and in that case the capital cost vetted by such agency or expert may be considered by the Commission while determining the tariff for the transmission project:

Provided that the Commission shall hear the concerned applicant and other stakeholders before taking a final decision on the report of such agency or expert.

58. Norms for operation.– (1) Target availability for full recovery of annual transmission charges for alternating current (AC) system shall be 98.5 per cent:

Provided that the recovery of annual transmission charges below the level of target availability shall be on pro-rata basis and that no transmission charges shall be payable at zero availability:

Provided further that the availability shall be calculated in accordance with the procedure specified in the Annexure-II to these Regulations and shall be certified by the state load despatch centre.

(2) The transmission licensee shall be entitled to incentive on achieving annual availability above the target availability, in accordance with the following formula:-

$$\text{Incentive} = \frac{\text{aggregate revenue requirement} \times [\text{Annual availability achieved} - \text{Target Availability}]}{\text{Target Availability}}$$

Provided that no incentive shall be payable for the availability above 99.75 percent for AC system.

(3) The computation of reduction in transmission charges as per the first proviso under sub-regulation (1) and the computation of incentive as per sub-regulation (2) shall be undertaken during truing up of aggregate revenue requirement for each financial year.

59. Components of aggregate revenue requirement.– The aggregate revenue requirement shall comprise of the following items of expenditure:-

- (i) operation and maintenance expenses;
- (ii) interest and finance-charges;
- (iii) depreciation;
- (iv) interest on working capital and deposits from users of the transmission system;
- (v) contribution to contingency reserves; and
- (vi) return on Equity:

Provided that the following items, if any, shall be deducted from the gross amount of aggregate revenue requirement computed as specified above:-

- (i) non-tariff income;
- (ii) revenue from short-term transmission charges from open access customers, if not already considered; and
- (iii) income from other business, to the extent specified in these Regulations.

60. Operation and maintenance expenses.–The transmission business/licensee shall be allowed to recover operation and maintenance

expenses as per the norms specified in Annexure-VIII to these Regulations for each financial year of the control period:

Provided that the transmission business of KSEB Limited shall be allowed to recover the annual pension contribution to the Master Trust, based on actuarial valuation, in respect of the personnel allocated to the transmission business of KSEB Limited, in addition to the above specified normative operation and maintenance expenses.

Explanation :

- (i) For the purpose of deriving normative O&M expenses, 'bay' shall mean a set of accessories that are required to connect an electrical equipment at 66 kV and above voltages such as transmission line, bus section breakers, potential transformers, power transformers, capacitors and transfer breaker and the feeders emanating from the bus at sub-station of the transmission business/licensee.
- (ii) For the purpose of deriving normative O&M expenses, 'ckt km' means the length in circuit kilometres, of the transmission lines at voltages of and above 66 kV.

61. Contribution to contingency reserves, investment and its utilisation.–

(1) Where the transmission business/licensee has made an appropriation to the contingency reserve, a sum not more than 0.25 percent of the original cost of fixed assets shall be allowed annually towards such appropriation in the calculation of aggregate revenue requirement:

Provided that where the cumulative amount of such contingency reserve exceeds five percent of the original cost of fixed assets, no such appropriation shall be allowed, which would have the effect of increasing the reserve beyond the said maximum:

Provided further that the amount so appropriated shall be invested in securities authorised under the Indian Trust Act, 1882 (Act 2 of 1882) within a period of six months of the close of the financial year.

(2) The contingency reserve shall not be drawn during the term of the licence except to meet the following charges as may be approved by the Commission,-

- (a) expenses or loss of profit arising out of accidents, strikes or circumstances, which the transmission/licensee could not have prevented;
- (b) expenses on replacement or removal of plant or works other than the expenses required for normal maintenance or renewal;

- (c) compensation payable under any law for the time being in force and for which no other provision is made:

Provided that such drawal from contingency reserve shall be computed after making due adjustments for any other amount that may have been received by the transmission business/licensee as a part of insurance cover.

62. Non-tariff income.— (1) The amount of non-tariff income of the transmission business/licensee as approved by the Commission shall be deducted from the aggregate revenue requirement while determining the annual transmission charges of the transmission business/licensee.

(2) The indicative list of items to be considered as non-tariff income are as under:-

- (i) interest on staff loans and advances;
- (ii) income from statutory investments;
- (iii) income from rent of land or buildings;
- (iv) income from sale of scrap;
- (v) income from staff welfare activities;
- (vi) rental from staff quarters;
- (vii) excess found on physical verification;
- (viii) interest on investments, fixed and call deposits and bank balances;
- (ix) interest on advances to suppliers/contractors;
- (x) income from hire charges from contractors and others;
- (xi) income due to right of way granted for laying fibre optic cables/co-axial cables on transmission system;
- (xii) income from advertisements, etc.;
- (xiii) miscellaneous receipts; and
- (xiv) interest on delayed or deferred payment on bills.

(3) The transmission business/licensee shall submit full details of its forecast of non-tariff income to the Commission along with its application for determination of tariff.

(4) The interest earned from investments made out of return on investment of the transmission business/licensee shall not be included in non-tariff income.

63. Income from other business.—Where the transmission business/licensee has engaged in any other business for optimum utilisation of the assets of its electricity business, an amount equal to one-third of the revenue 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 while calculating the annual transmission charges of the transmission business/licensee:

Provided that the transmission business/licensee shall follow a reasonable basis for allocation of all joint and common costs between the transmission business and the other businesses and shall submit the allocation statement to the Commission along with its application for determination of tariff:

Provided further that where the sum total of the direct and indirect costs of such other business exceeds the revenues from such other business, no amount shall be allowed to be added to the aggregate revenue requirement of the transmission business/licensee on account of such other business.

64. Determination of transmission charges.- (1) The transmission charges for access to and use of the transmission system of the transmission business/licensee shall comprise of the following:-

- a) transmission system access charges; and
- b) transmission charges.

(2) The annual transmission charges shall be determined by the Commission in such a way that the aggregate revenue requirement of the transmission business/licensee for the financial year as approved by the Commission, is recovered.

(3) The annual transmission charges of the transmission business/licensee shall be determined by the Commission on the basis of an application made by the transmission business/licensee, for the determination of tariff, in accordance with chapter IV of these Regulations.

(4) Any person who is eligible to apply for access to the transmission system of the transmission business/licensee shall be entitled to obtain such access in accordance with the Kerala State Electricity Regulatory Commission (Connectivity and Intra-State Open Access) Regulations, 2013 and shall be liable to pay the charges for obtaining such access as specified in such Regulations.

65. Sharing of annual transmission charges.- (1) The aggregate revenue requirement of the transmission business of KSEB Limited, as approved by the Commission, shall be shared by all long-term users and medium-term users of the transmission system on monthly basis in the ratio of their respective contracted transmission capacities to the total contracted transmission capacity, in accordance with the following formula:-

$$ATC_n = (\text{Transmission ARR} \times CC_n \div SCC) \div 12$$

Where,-

ATC_n = annual transmission charges payable by the nth long-term user or medium-term user of the transmission system;

Transmission ARR = aggregate revenue requirement of the transmission business of KSEB Limited, determined in accordance with regulation 59 of these Regulations;

CC_n = capacity contracted in MW by the n^{th} long-term user or medium-term user of the transmission system;

SCC = sum of capacities contracted in MW by all long-term users and medium-term users of the transmission system:

Provided that the ATC_n shall be payable on monthly basis by each long-term user or medium-term user of the transmission system and shall be collected by the transmission business of KSEB Limited in its capacity as the State Transmission Utility (STU):

(2) The short-term users of the transmission system shall pay transmission charges on Rs/MW/day basis, in accordance with the following formula:-

$$TC \text{ (Rs/MW/day)} = (\text{Transmission ARR} \div \text{SCC}) \div 365,$$

Where,-

TC (Rs/MW/day) = transmission charges payable by the short-term user of the transmission system;

Transmission ARR = aggregate revenue requirement of the transmission business of KSEB Limited, determined in accordance with regulation 59 of these Regulations;

SCC = sum of capacities contracted in MW by all long-term users and medium-term users of the transmission system:

(3) For short-term collective transactions through power exchanges, transmission charges shall be denominated in Rs/kWh terms, in accordance with the following formula:-

$$TC \text{ (Rs/kWh)} = \text{Transmission ARR} \div \text{Total units wheeled},$$

Where,-

TC (Rs/kWh) = Transmission charges payable in the case of short-term collective transactions through power exchanges;

Transmission ARR = aggregate revenue requirement of the transmission business of KSEB Limited, determined in accordance with regulation 59 of these Regulations;

Total units wheeled = total energy units wheeled through the transmission system, which shall be equal to the total energy input into the intra-State transmission system during the financial year.

66. Transmission losses.- The energy losses in the transmission system, as determined by the state load despatch centre and approved by the Commission, shall be borne by the users of the transmission system in proportion to their usage of the transmission system.

67.Reactive energy charges, incentives and disincentives.– (1) A generating station shall, as and when directed by the state load despatch centre, inject the reactive energy into the grid on the basis of the capability of the generating machine to supply reactive power.

(2) The users of the transmission system shall be subjected to the following incentive/disincentive for maintaining the reactive energy balance in the transmission system:-

- a) The person responsible for reactive energy compensation shall be the distribution licensee/Open Access user directly connected to the State transmission network;
- b) The maximum reactive energy drawal at each interchange point shall be limited corresponding to the power factor of 0.9;
- c) The incentive/disincentive for maintaining reactive energy balance in the transmission system shall be as specified below:-
 - (i) If the voltage at interchange point (V_p) exceeds the nominal voltage (V_n) by more than three percent, the incentive payable shall be at the rate of ten paise per RkVAh for additional drawal;
 - (ii) If the voltage at interchange point (V_p) fall short of the nominal voltage (V_n) by more than three percent, the disincentive payable shall be at the rate of ten paise per RkVAh for additional drawal;
 - (iii) If the voltage at interchange point (V_p) is between ninety seven percent and one hundred and three percent of the nominal voltage (V_n), no incentive or disincentive shall be payable.

(3) The above incentives/disincentives shall be made applicable, only after adequate metering, energy accounting and billing infrastructure covering all interchange points on the transmission system are put in place by the State Transmission Utility (STU) and the concerned persons.

(4) The Commission may alter or modify the above incentive/disincentive scheme.

CHAPTER – VIII STATE LOAD DESPATCH CENTRE CHARGES

68. Annual revenue requirement of the state load despatch centre. – (1) The Commission shall, after prudence check, determine the annual revenue requirement of the state load despatch centre, which shall comprise of the following items of expenditure:-

- (i) operation & maintenance expenses;
- (ii) interest on working capital;
- (iii) fees and charges payable to Regional Load Despatch Centre;
- (iv) depreciation;
- (v) interest and finance charges; and
- (vi) return on investment.

(2) The state load despatch centre shall submit separate audited accounts of its business:

Provided that, in case separate accounts are not available, the Commission may approve as the aggregate revenue requirement of state load despatch centre, a portion of the approved aggregate revenue requirement of the transmission business of KSEB Limited, based on the proposal submitted by it:

Provided further that such apportionment of aggregate revenue requirement between the transmission business and the state load despatch centre shall be done only for financial year 2015-16 and thereafter, separate accounts shall be submitted for state load despatch centre.

(3) The Commission may adopt the general and financial principles specified in these Regulations for the determination of aggregate revenue requirement of the state load despatch centre.

69. Determination and recovery of load despatch centre charges.- (1) The load despatch centre charges shall be determined by the Commission in such a way that the aggregate revenue requirement of the state load despatch centre for the financial year as approved by the Commission, is recovered.

(2) The state load despatch centre charges shall be recovered on a monthly basis from the aggregate revenue requirement of distribution business of KSEB Limited and other distribution licensees in the same proportion as the recovery of transmission charges.

CHAPTER – IX DISTRIBUTION

70. Applicability. – The regulations contained in this chapter shall apply to:-

- (i) the determination of tariff for retail sale of electricity by the distribution business/licensee to its consumers;

- (ii) the determination of tariff payable for bulk supply by KSEB Limited to other distribution licensees in the State of Kerala; and.
- (iii) the determination of tariff payable for wheeling of electricity by a user of the distribution system who has been allowed open access to the distribution system of the distribution business/licensee in accordance with the Kerala State Electricity Regulatory Commission (Connectivity and Intra-state Open Access) Regulations, 2013.

71. Capital cost. – (1) The sum of annual capital costs from the date of commencement of each capital expenditure project till the date of its commissioning, as approved by the Commission after prudence check, shall be the original capital cost of such project for the purpose of determination of tariff.

(2) The provisions of the Accounting Standard (AS10) of the Institute of Chartered Accountants of India, applicable for accounting of the fixed assets, shall apply, to the extent not inconsistent with these Regulations, in determining the original cost of capital expenditure projects and/or original cost of fixed assets capitalized.

72. Capital investment plan. – (1) The distribution business/licensee shall ensure optimum investments in capital expenditure projects to enhance efficiency and productivity and to meet performance standards specified by the Commission.

(2) The distribution business/licensee shall, by the Thirtieth day of September of the current financial year, submit to the Commission for its approval, a detailed capital investment plan, financing plan and physical targets for meeting the requirement of load growth, reduction in distribution losses, improvement in quality of supply, reliability, metering, consumer services, etc., for the ensuing financial year and subsequent financial years of the control period, in accordance with the 'Guidelines for In-principle Clearance of Capital Investment' specified at Annexure-IV.

(3) (a) The capital investment plan shall be accompanied by such information, particulars and documents as may be required to substantiate the need and to justify the proposed investments.

(b) The investment plan shall also include capitalisation schedule and financing plan.

(4) The Commission may approve the capital investment plan of the distribution business/licensee, with appropriate modifications, if required or reject the same, based on the prudence check:

Provided that the Commission shall afford to the distribution business/licensee, a reasonable opportunity of being heard, before rejecting the proposal for approval of the capital investment plan.

(5) The costs corresponding to the approved capital investment plan of the distribution business/licensee for a given financial year shall be considered for its revenue requirement.

73.Sales forecast. – (1) The distribution business/licensee shall submit, along with the application for approval of aggregate revenue requirement and determination of tariff, a forecast of expected demand and sale of electricity to different categories of consumers and to each consumption slab within each tariff category, in its area of supply.

(2) Sale of electricity, if any, to electricity traders or other distribution licensees shall be separately indicated.

(3) The Commission shall examine the forecasts for reasonableness based on the growth in number of consumers and in consumption, the demand of electricity in previous financial years, anticipated growth in the next financial year and any other factor, which the Commission may consider relevant and approve forecast of sale of electricity to the consumers with such modifications as deemed fit.

74.Distribution losses. – (1) (a) The distribution business/licensee shall carry out proper studies for the estimation of distribution losses, in order to set a realistic base line of the estimates of losses at different voltage levels and to segregate commercial and technical losses:

(b) The distribution business/licensee shall submit separate details of loss at different voltages, while computing its total energy requirement.

(2) (a) The distribution business/licensee shall submit, along with the application for approval of aggregate revenue requirement for the control period and determination of tariff for the first financial year of the control period, the information on total and voltage-wise distribution losses in the previous financial year and current financial year and the basis on which such losses have been worked out.

(b) The distribution business/licensee shall also propose the loss reduction targets for each financial year of the control period, along with absolute loss levels:

(c) The distribution business/licensee shall substantiate, along with the application for approval of aggregate revenue requirement and determination of tariff, the proposed loss levels with necessary studies and their results.

(3) The Commission shall approve the target of distribution loss for the ensuing financial year as well as subsequent financial years of the control period based on the opening loss levels, filings of the distribution business/licensee, submissions and objections raised by stakeholders and findings of the Commission.

(4) Any variation between the actual level of distribution losses and the approved level of distribution losses shall be dealt with, as part of the truing up of the respective financial year, in the following manner:-

(a) If the actual distribution loss is higher than the approved level of distribution loss for any particular financial year of the control period, then the quantum of power purchase corresponding to the excess distribution loss for that financial year, shall be disallowed at the average cost of power purchase for the respective financial year;

(b) If the actual distribution loss is lower than the approved level of distribution loss for any particular financial year of the control period, then the savings in power purchase cost corresponding to the difference in distribution loss for that financial year at the average cost of power purchase for the respective financial year, shall be shared between the distribution business/licensee and the consumers in the ratio of 2:1.

75. Power procurement plan. – (1) The distribution business/licensee shall prepare an annual plan for procurement of power to meet the demand in its area of supply and submit such plan to the Commission for its approval, along with the application for approval of aggregate revenue requirement for the control period and determination of tariff for the first financial year of the control period:

Provided that the power procurement plan submitted by the distribution business/licensee shall include particulars of long-term, medium-term and short-term sources of power, as the case may be.

(2) The power procurement plan shall be consistent with sales forecast in accordance with regulation 73 of these Regulations and shall be based on past data and reasonable assumptions regarding the future.

(3) The power procurement plan of the distribution business/licensee shall be based on the following:-

(a) a quantitative forecast of the unrestricted demand for electricity within its area of supply, from each tariff category over the financial year;

(b) approved level of transmission and distribution losses:

Provided that for purchase of electricity from sources outside the State, the transmission loss level agreed to in the power purchase agreement, if any, or worked out from energy accounts of RLDC/SLDC shall be considered;

- (c) an estimate of the quantities of electricity supply from the approved sources of generation and power purchase;
- (d) an estimate of availability of power to meet the base load and peak load requirement:
Provided that the estimate should be monthly estimation of demand and supply both in Mega-Watt (MW) as well as in million units (MU);
- (e) standards to be maintained with regard to quality and reliability of supply, in accordance with the Kerala State Electricity Regulatory Commission (Licensees' Standards of Performance) Regulations, 2006, as amended from time to time;
- (f) measures proposed to be implemented as regards energy conservation and energy efficiency;
- (g) minimum share of renewable energy purchase as specified by the Commission in the concerned Regulations;
- (h) the requirement for new sources of power generation and/or procurement, including augmentation of generation capacity and identified new sources of supply, based on clauses (a) to (g) above;
- (i) the forecast/estimate contained in the power procurement plan shall be separately stated for peak and off-peak periods, in terms of quantities of power to be procured (in millions of units of electricity) and maximum demand (in MW / MVA);
- (j) the forecasts/estimates prepared for each month of the financial year;
- (k) a cost-effective plan based on available information regarding costs of various sources of supply;
- (l) proposed short-term power procurement; and
- (m) merit order despatch.

(4) The distribution business/licensee shall also submit cost estimates for power procurement along with the annual power procurement plan, which shall be based on the following principles:-

- a) The cost of power purchased from generating companies and cost of transmission shall be worked out based on tariff determined or adopted by the appropriate Commission, as the case may be;
- b) The cost of power purchased from nuclear power stations of Nuclear Power Corporation of India Limited (NPCIL) shall be worked out on the basis of tariff notified by Department of Atomic Energy, Government of India.
- c) The cost of short-term power purchase from traders, power exchange and other licensees shall be based on estimates based on past trends.
- d) Cost of power generated by the distribution business/licensee and sold by it to consumers shall be worked out based on generation tariff determined by the Commission under chapter-VI of these Regulations.

76. Collection efficiency.– (1) The distribution business/licensee shall give information of total and category-wise collection efficiency in the previous financial year and current financial year and the basis on which such collection efficiency has been worked out.

(2) The distribution business/licensee shall also propose a target for collection efficiency for the ensuing financial year as well as for the subsequent financial years of the control period, giving details of the measures proposed to be taken for achieving the targets proposed, along with the application for approval of aggregate revenue requirement for the control period and determination of tariff for the first financial year of the control period.

(3) The Commission shall approve a target of improvement in collection efficiency for the ensuing financial year as well as subsequent financial years of the control period based on the opening level of collection efficiency, filings of the distribution business/licensee, submissions and objections raised by stakeholders and the findings of the Commission.

(4) The impact on revenue due to the difference between the actual level of collection efficiency and the approved level of collection efficiency shall be dealt with, as part of the truing up of the respective financial year, in accordance with the mechanism provided in these Regulations and by suitably adjusting the provision for bad debts.

77. Components of aggregate revenue requirement.– The aggregate revenue requirement of the distribution business/licensee shall comprise of the following items of expenditure:-

- (i) cost of own power generation;

- (ii) cost of power purchase;
- (iii) transmission charges;
- (iv) NLDC/RLDC/SLDC charges;
- (v) operation and maintenance expenses;
- (vi) interest and finance charges;
- (vii) depreciation;
- (viii) interest on working capital and on consumer security deposits and deposits from users of the distribution system;
- (ix) contribution to contingency reserves;
- (x) provision for bad debts, if any; and
- (xi) return on equity/net fixed assets;

Provided that the following items, if any, shall be deducted from the gross amount of aggregate revenue requirement computed as specified above.

- (i) non-tariff income;
- (ii) income from wheeling charges recovered from open access consumers;
- (iii) income from other business, to the extent specified in these Regulations;
- (iv) receipts on account of cross subsidy surcharge on wheeling charges from open access consumers; and
- (v) receipts on account of additional surcharge on wheeling charges from open access consumers:

78. Approval of power purchase agreement/arrangement. – (1) Every agreement or arrangement for procurement of power by the distribution business/licensee from the generating business/company or licensee or from other source of supply entered into after the date of coming into effect of these Regulations shall come into effect only with the approval of the Commission:

Provided that the approval of the Commission shall be required in accordance with this regulation in respect of any agreement or arrangement for power procurement by the distribution business/licensee from the generating business/company or licensee or from any other source of supply on a standby basis:

Provided further that the approval of the Commission shall also be required in accordance with this regulation for any change to an existing agreement or arrangement for power procurement, whether or not such existing agreement or arrangement was approved by the Commission.

(2) The Commission shall examine an application for approval of power purchase agreement/arrangement having regard to the approved power procurement plan of the distribution business/licensee and the following factors:-

- (a) requirement of power under the approved power procurement plan;
- (b) adherence to a transparent process of bidding in accordance with guidelines issued by the Central Government under Section 63 of the Act;
- (c) adherence to the terms and conditions for determination of tariff specified under chapter VI of these Regulations where the process specified in clause (b) above has not been adopted;
- (d) availability (or expected availability) of capacity in the intra-State transmission system for evacuation and supply of power procured under the agreement/arrangement; and
- (e) need to promote co-generation and generation of electricity from renewable sources of energy.

(3) Where the terms and conditions specified under chapter VI of these Regulations are proposed to be adopted, the approval of the power purchase agreement/arrangement between the generating business/company and the distribution business/licensee for supply of electricity from a new generating station may comprise of the following two steps, at the discretion of the applicant:-

- (a) approval of a provisional tariff, on the basis of an application made to the Commission at any time prior to the application made under clause (b) below; and
- (b) approval of the final tariff, on the basis of an application made not later than three months from the cut-off date.

79. Additional short-term power procurement.— (1) The distribution business/licensee may undertake additional short-term power procurement during the financial year, over and above the power procurement plan approved by the Commission, in accordance with this regulation.

(2) (a) 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

business/licensee may enter into agreement or arrangement for additional short-term procurement of power.

(b) If the total power purchase cost for any quarter including such short-term power procurement exceeds by five percent of the power purchase cost approved by the Commission for the respective quarter, the distribution business/licensee shall have to obtain approval of the Commission.

(3) The distribution business/licensee may enter into a short-term power procurement agreement or arrangement without the prior approval of the Commission under the following circumstances:

(a) where the distribution business/licensee has identified a new short-term source of supply from which power can be procured at a tariff that reduces its approved total power procurement cost;

(b) 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;

(c) where the tariff for power procured under such agreement or arrangement is in accordance with guidelines for short-term procurement of power by distribution licensees through tariff based bidding process issued by the Central Government:

Provided that the Commission shall indicate a tariff for procurement of short-term power which shall be considered as the approved ceiling tariff for short-term power procurement under bidding guidelines:

(d) when the Commission has specified the maximum ceiling price for power procurement under any contingency situation and power purchase price is within such ceiling price;

(e) procurement of short-term power through power-exchange; and

(f) procurement by way of exchange of energy under 'banking' transactions.

(4) The Commission may stipulate the ceiling quantum and ceiling rate for purchase of power from short-term sources.

(5) Within fifteen days from the date of entering into an agreement or arrangement for short-term power procurement for which prior approval has not been obtained, the distribution business/licensee shall obtain the approval of the Commission by submitting full details of such agreement or arrangement, including quantum, tariff calculations, duration, supplier details, method for supplier selection and such other details as the Commission may

require with regard to such agreement or arrangement to assess that the conditions specified in this regulation have been complied with:

Provided that where the Commission has reasonable grounds to believe that the agreement or arrangement entered into by the distribution business/licensee does not meet the criteria specified in this regulation, the Commission may disallow the net increase in the cost of power on account of such procurement.

80. Transmission charges and state load despatch centre charges.– (1) Transmission and wheeling charges to be paid by the distribution business/licensee for transmission or wheeling of power purchased by it shall be considered as per tariff determined by the appropriate Commission.

(2) National Load Despatch Centre (NLDC)/ Regional Load Despatch Centre (RLDC)/ State Load Despatch Centre (SLDC) charges as determined by the appropriate Commission shall be allowed as expenses.

(3) The distribution business/licensee shall be allowed to recover transmission charges payable for the access to and the use of the intra-State transmission system and the state load despatch centre charges in accordance with the tariff approved by the Commission for the transmission business/licensee under chapter VII and chapter VIII of these Regulations.

81. Operation and maintenance expenses. – (1) The distribution business of KSEB Limited shall be allowed to recover operation and maintenance expenses as per the norms specified in Annexure-IX to these Regulations for each financial year of the control period:

Provided that the distribution business of KSEB Limited shall be allowed to recover the annual pension contribution to the Master Trust, based on actuarial valuation, in respect of the personnel allocated to the distribution business of KSEB Limited, in addition to the above specified normative operation and maintenance expenses:

Provided that the distribution business of KSEB Limited shall be allowed to recover the annual pension contribution to the Master Trust, based on actuarial valuation, in respect of the personnel allocated to the distribution business of KSEB Limited, in addition to the above specified normative operation and maintenance expenses.

(2) The distribution business of Cochin Special Economic Zone (CSEZ) shall be allowed to recover operation and maintenance expenses as per the norms specified in Annexure-IX to these Regulations for each financial year of the control period.

(3) The distribution business of Technopark shall be allowed to recover operation and maintenance expenses as per the norms specified in Annexure-IX to these Regulations for each financial year of the control period.

(4) Kinesco Power & Utilities Pvt. Ltd. (KPUPL) shall be allowed to recover operation and maintenance expenses as per the norms specified in Annexure-IX to these Regulations for each financial year of the control period.

(5) The distribution business of Rubber Park of India (P) Ltd (RPIL) shall be allowed to recover operation and maintenance expenses as per the norms specified in Annexure-IX to these Regulations for each financial year of the control period.

(6) The distribution business of Kanan Devan Hills Plantation Company Private Ltd. (KDHCPL) shall be allowed to recover operation and maintenance expenses as per the norms specified in Annexure-IX to these Regulations for each financial year of the control period.

(7) The distribution business of Cochin Port Trust (CPT) shall be allowed to recover operation and maintenance expenses as per the norms specified in Annexure-IX to these Regulations for each financial year of the control period.

(8) The distribution business of Thrissur Corporation shall be allowed to recover operation and maintenance expenses as per the norms specified in Annexure-IX to these Regulations for each financial year of the control period.

(9) The distribution business of Infopark shall be allowed to recover operation and maintenance expenses as per the norms specified in Annexure-IX to these Regulations for each financial year of the control period.

82. Contribution to contingency reserves, investment and its utilization.–

(1) Where the distribution business/licensee has made an appropriation to the contingency reserve, a sum not more than 0.25 percent of the original cost of fixed assets shall be allowed annually towards such appropriation in the calculation of aggregate revenue requirement:

Provided that where the cumulative amount of such contingency reserve exceeds five per cent of the original cost of fixed assets, no such appropriation shall be allowed, which would have the effect of increasing the reserve beyond the said maximum:

Provided further that the amount so appropriated shall be invested in securities authorised under the Indian Trust Act, 1882 within a period of six months of the close of the financial year.

(2) The Contingency Reserve shall not be drawn during the term of the licence except to meet the following charges as may be approved by the Commission:-

- (a) expenses or loss of profits arising out of accidents, strikes or circumstances, which the licensee could not have prevented;
- (b) expenses on replacement or removal of plant or works other than the expenses required for normal maintenance or renewal; and
- (c) compensation payable under any law for the time being in force and for which no other provision is made:

Provided that such drawal from contingency reserve shall be computed after making due adjustments for any other amounts that may have been received by the distribution business/licensee as part of an insurance cover.

83. Provision for bad debts.– (1) The Commission may allow a provision for bad and doubtful debts in the revenue requirement of the distribution business/licensee, based on past data.

(2) The distribution business/licensee shall be allowed to provide for opening balances of receivables as per policies developed by the distribution business/licensee:

Provided that the dues actually written off shall be reduced from the provision made against outstanding receivables and shall not be charged to the revenue account of the financial year.

84. Non-tariff income.– (1) The amount of non-tariff income of the distribution business/licensee as approved by the Commission shall be deducted from the aggregate revenue requirement in determining the tariff of the distribution business/licensee.

(2) The indicative list of items to be considered as non-tariff Income are as under:-

- (i) interest on staff loans and advances;
- (ii) income from statutory investments;
- (iii) income from trading;
- (iv) income from rent of land or buildings;
- (v) income from sale of scrap;
- (vi) income from staff welfare activities;
- (vii) rental from staff quarters;
- (viii) excess found on physical verification;
- (ix) interest on investments, fixed and call deposits and bank balances;
- (x) interest on advances to suppliers/contractors;
- (xi) income from hire charges from contractors and others;

- (xii) income due to right of way granted for laying fibre optic cables/co-axial cables on distribution system;
- (xiii) income from advertisements, etc.;
- (xiv) miscellaneous receipts;
- (xv) commission for collection of electricity duty;
- (xvi) interest on delayed or deferred payment on bills;
- (xvii) rebate from central generating stations;
- (xviii) revenue from late payment surcharge;
- (xix) recovery of theft and pilferage of energy; and
- (xx) meter/metering equipment/service line rentals.

(3) The distribution business/licensee shall submit full details of its forecast of non-tariff Income to the Commission along with its application for determination of tariff.

(4) The interest earned from investments made out of return on investment by the distribution business/licensee shall not be included in non-tariff Income.

85. Income from other business.— (1) Where the distribution business/licensee has engaged in any other business for optimum utilisation of the assets of its electricity 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 of the distribution business/licensee.

(2) The distribution business/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 to the Commission, duly audited and certified by the statutory auditors, along with its application for determination of tariff.

(3) Where the sum total of the direct and indirect costs of such other business exceeds the revenues from such other business, no amount shall be allowed to be added to the aggregate revenue requirement of the distribution business/licensee on account of such other business:

(4) Nothing contained in sub-regulations (1), (2) and (3) above shall apply to a Local Authority engaged in the business of distribution of electricity before the commencement of the Act.

86. Determination of tariff.— (1) The bulk supply tariff, retail supply tariff and wheeling charges of the distribution licensee shall be determined by the Commission on the basis of an application for determination of tariff made by the distribution licensee in accordance with chapter IV of these Regulations.

(2) The retail supply tariff shall be uniform for the same category of consumers of all distribution businesses/licensees in the State of Kerala and shall be same as the retail supply tariff determined by the Commission for the distribution business of KSEB Limited.

(3) The retail supply tariff of the distribution business of KSEB Limited shall provide for the recovery of the aggregate revenue requirement of the distribution business/licensee for the financial year after deducting the amount of non-tariff income, income from other business, income from wheeling charges and income from surcharges, as approved by the Commission.

(4) The bulk supply tariff for supply of electricity by KSEB Limited to other distribution licensees in the State of Kerala shall be determined by the Commission in accordance with principles laid down from time to time in the orders of the Commission with regard to such distribution licensees.

(5) The Commission may categorize consumers on the basis of their load factor, power factor, voltage, total consumption of electricity during any specified period or the 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.

(6) The retail supply tariff for different consumer categories shall be determined on the basis of the average cost of supply, computed as the ratio of the aggregate revenue requirement of the distribution business/licensee for the financial year calculated in accordance with regulation 77 to the total sales of the distribution business/licensee for the respective financial year.

(7) The Commission shall endeavour to reduce gradually the cross-subsidy between consumer categories with respect to the average cost of supply in accordance with the provisions of the Act and the provisions of the Kerala State Electricity Regulatory Commission (Principles for Determination of Roadmap for Cross-subsidy Reduction for Distribution Licensees) Regulations, 2012.

(8) The wheeling charges may be denominated in terms of Rupees/kWh or Rupees/kW/month, for the purpose of recovery from the user of distribution system or any such denomination, as stipulated by the Commission from time to time.

(9) Any revenue subsidy/grant received from the State Government other than the subsidy under Section 65 of the Act shall be treated in the manner as indicated by the State Government:

Provided that if no such manner is indicated, the subsidy/grant shall be used to reduce the overall gap between the aggregate revenue requirement and actual revenue of the distribution business/licensee.

(10) While determining the tariff the Commission may also keep in view the cost of supply at different voltage levels and the need to minimise tariff shock to any category of consumers.

87. Determination of wheeling charges.– (1) The wheeling charges of the distribution business/licensee may be determined by the Commission on the basis of segregated accounts for distribution wires business:

(2) (a) Where the distribution business/licensee is not able to submit audited and certified separate accounts for the distribution wires business and for the retail supply business, the distribution business/licensee shall submit to the Commission for its approval, an allocation matrix for segregation of expenses between the distribution wires business and the retail supply business.

(b) The Commission may take appropriate decision on such allocation matrix for segregation of expenses between the distribution wires business and the retail supply business

(3) The wheeling charges payable by a user of the distribution system of the distribution business/licensee may comprise of any combination of demand charges and variable charges, as may be stipulated by the Commission in such order.

88. Fuel surcharge formula.– (1) The tariff or part of any tariff determined in accordance with these Regulations, shall not ordinarily be amended, more frequently than once in any financial year, except in respect of any changes expressly permitted by the Commission under the terms of fuel surcharge formula specified in this regulation.

(2) Fuel surcharge is the amount approved by the Commission for adjustment by the distribution business/licensee, by way of recovery from or by way of refund to the consumer, to enable the distribution business/licensee to pass through to the consumer additional expenditure or savings due to,

(i) the difference between the actual cost of fuel and the cost of fuel approved in aggregate revenue requirement by the Commission for the generation of electricity in the generating stations owned by the distribution business/licensee; and

(ii) the difference on account of the change in cost of fuel, between the actual cost of power purchase and the cost of power purchase as approved by the Commission in the aggregate revenue requirement.

(3) The distribution business/licensee may be allowed by the Commission to adjust the fuel surcharge on a quarterly basis at the rate and the period of adjustment, as approved by the Commission based on the application submitted by the distribution business/licensee specifically for this purpose.

(4) (a) The amount of fuel surcharge to be adjusted shall be determined by the Commission in accordance with the formula specified in Annexure X.

(b) The difference between the actual cost of fuel and the approved cost of fuel for own generation shall be computed for each quarter with respect to the month wise quantity of generation as approved by the Commission in the aggregate revenue requirement of the distribution business/licensee, based on merit order.

(c) The difference between the actual cost of power purchase and the approved cost of power purchase on account of change in cost of fuel shall be computed for each quarter with respect to the month wise quantity of power purchase as approved by the Commission in the aggregate revenue requirement of the distribution business/licensee, based on merit order.

(5) Every distribution business/licensee shall, within thirty days after the close of each quarter, submit to the Commission an application with all relevant details required for the approval of the amount of fuel surcharge to be adjusted from the consumers and of the rate and period of such adjustment:

Provided that distribution licensees who purchase electricity from KSEB Limited in bulk for retail sale, are exempted from the above requirement.

(6) The Commission may, after prudence check, approve with modifications if any, the amount of fuel surcharge to be adjusted from the consumers and stipulate the rate and the period of such adjustment.

(7) The rate of adjustment of fuel surcharge shall be expressed as paise per kWh and it shall be adjusted in the energy charges as per the existing tariff for the energy billed to each consumer, on a monthly or bi-monthly basis, as the case may be.

(8) The adjustment on account of fuel surcharge as approved by the Commission shall be effected from the third month of the subsequent quarter onwards or as directed by the Commission.

(9) The fuel surcharge adjustment shall be uniformly applicable to all consumers in the State except the domestic consumers with connected load of and below 500 W and having monthly consumption of and below 20 units.

(10) The Commission may decide appropriate rate and period of adjustment of the amount of fuel surcharge, considering the impact on the tariff of consumers.

(11) (a) The distribution business/licensee shall submit to the Commission, the month-wise details of the changes in the cost of fuel with respect to the approved cost for all its generating stations using liquid fuel or gas or coal, for each quarter separately.

(b) The distribution business/licensee shall submit to the Commission, the month-wise details of the changes in the cost of power purchase with respect to the approved cost of power purchase on account of change in cost of fuel, for each quarter separately.

(c) The month-wise details as specified in clauses (a) and (b) above, shall be submitted in the Form-I as specified in Annexure-X to these Regulations, on a quarterly basis.

(12) (a) Distribution licensees who purchase electricity from KSEB Limited in bulk for retail sale, shall within fifteen days of the close of each month, provide to KSEB Limited with a copy to the Commission, the month-wise details of retail sale of energy to facilitate the estimation of fuel surcharge.

(b) KSEB Limited shall consolidate the details of such retail sales and indicate with calculations, the provisional amount and rate of fuel surcharge to be adjusted along with the details in Form-I.

(13) The distribution licensees who purchase electricity in bulk from KSEB Limited shall promptly adjust with KSEB Limited on a monthly basis, the amount of fuel surcharge adjusted from their consumers.

(14) The Commission may seek additional information, if any, required from the distribution business/licensee and the distribution business/licensee shall submit the details within the time limit stipulated by the Commission.

89. Recovery of additional cost due to change in hydro-thermal mix.– (1)

The distribution business/licensee shall, within thirty days from the close of every financial year, file separately the particulars relating to additional cost, incurred if any, due to change in hydro-thermal mix on account of reduction in rainfall and consequent increase in cost of purchase of power.

(2) The Commission may, after prudence check, approve the additional cost of power purchase on account of change in hydro-thermal mix, after prudence check of all the relevant information submitted by the distribution business/licensee and make appropriate decision on the recovery of such amount.

90. Cross subsidy surcharge.– (1) The consumers who are permitted open access through the transmission network of the transmission business/licensee and/or the distribution network of the distribution business/licensee shall pay to the distribution business/licensee in whose area the consumer is located, a cross subsidy surcharge as per the formula specified in the Annexure-XI to these Regulations.

(2) The cross subsidy surcharge shall be levied in the manner specified with the Kerala State Electricity Regulatory Commission (Connectivity and Intra state Open Access) Regulations, 2013, as amended from time to time.

91. Receipts on account of cross subsidy surcharge.– The amount received by the distribution business/licensee by way of cross-subsidy surcharge, as approved by the Commission, shall be deducted from the aggregate revenue requirement while calculating the tariff for distribution business/licensee.

92. Receipts on account of additional surcharge.–The amount received by the distribution business/licensee by way of additional surcharge on charges of wheeling, as approved by the Commission in accordance with the Kerala State Electricity Regulatory Commission (Connectivity and Intra state Open Access) Regulations, 2013, as amended from time to time, shall be deducted from the aggregate revenue requirement while calculating the tariff for distribution business/licensee.

93. Norms for operation.– (1) (a) It shall be the duty of the distribution business/ licensee to ensure one hundred percent supply of electricity to its consumers.

(b) The distribution business/ licensee shall make necessary and sufficient arrangements to ensure availability of electricity, either by own generation or by purchase of electricity or both, to meet the requirement of one hundred percent supply of electricity.

(2) (a) The gross availability of electricity for supply shall be computed based on the availability of electricity to meet the base load and the peak load.

(b) The availability of electricity to meet the base load shall be computed in accordance with the following formula:-

Availability of electricity to meet the base load = sum of electricity in MW generated and contracted for purchase to meet the base load ÷ the base load in MW.

(c) The availability of electricity to meet the peak load shall be computed in accordance with the following formula:-

Availability of electricity to meet the peak load = sum of electricity in MW generated and contracted for purchase to meet the peak load ÷ the peak load in MW:

Provided that the peak load shall be calculated based on un-restricted demand of the distribution business/licensee.

(d) The gross availability of electricity for supply shall be computed in accordance with the following formula giving seventy five percent weightage to the availability of electricity to meet the base load and twenty five percent weightage to the availability of electricity to meet the peak load:-

Gross availability of electricity for supply = Availability of electricity to meet base load X 0.75 + Availability of electricity to meet peak load X 0.25.

(3) For every one percent under achievement by the distribution business/licensee in the gross availability of electricity for supply, the rate of return on equity or the rate of return on net fixed assets shall be reduced by 0.1 percent.

(4) The distribution business/licensee shall submit to the Commission monthly reports along with the calculation of availability of electricity for supply.

CHAPTER –X

MISCELLANEOUS

94. Power to remove difficulties.- If any difficulty arises in giving effect to any of the provisions of these Regulations, the Commission may, by general or specific order, for reasons to be recorded in writing, make such provisions not inconsistent with the provisions of the Act, as may be necessary for removing the difficulty.

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

96. Interpretation.- (1) The words and expressions used in these Regulations and not defined herein, but defined in the Act, shall have the meanings assigned to them under the Act.

(2) If a question arises relating to the interpretation of any provision of these Regulations, the decision of the Commission shall be final.

97. Inquiry and investigation.- All inquiries, investigations and adjudications under these Regulations shall be done by the Commission through proceedings in accordance with the provisions of the Kerala State Electricity Regulatory Commission (Conduct of Business) Regulations, 2003, as amended from time to time.

98. Power to amend.- The Commission, for reasons to be recorded in writing, may at any time vary, alter or modify any of the provision of these Regulations by amendment:

Provided that the Commission may by order, for the purpose of obtaining data or information for taking decisions or for reviewing performance, vary, alter or modify any form specified in the annexures or stipulate new form in the annexures for collection of data or information, without following the procedures for amendment of regulations.

99. Repeal and savings.- (1) Save as otherwise provided in these Regulations, the “Kerala State Electricity Regulatory Commission (Tariff) Regulations, 2003”, “Kerala State Electricity Regulatory Commission (Terms and Conditions of Tariff for Retail Sale of Electricity) Regulations, 2006”, “Kerala State Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff for Distribution and Retail Sale of Electricity under MYT Framework) Regulations, 2006” and the “Kerala State Electricity Regulatory Commission (Fuel Surcharge formula) Regulations, 2009” are hereby repealed.

(2) Notwithstanding such repeal,-

(a) any proceedings before the Commission pertaining to the period till March 31, 2015, including determination of tariff or truing up or review matters pertaining to the period till financial year 2014-15, i.e., up to 31st March 2015, shall be governed by the Kerala State Electricity Regulatory Commission (Tariff) Regulations, 2003, the Kerala State Electricity Regulatory Commission (Terms and Conditions of Tariff for Retail Sale of Electricity) Regulations, 2006 and the Kerala State Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff for Distribution and Retail Sale of Electricity under MYT Framework) Regulations, 2006, including amendments thereto as the case may be.

(b) anything done or any action taken or purported to have been done or taken including any order or declaration made or any licence, permission, authorisation or exemption granted or any document or instrument executed or any direction given under the repealed Regulations shall, in so far as it is not inconsistent with the provisions

of these Regulations, be deemed to have been done or taken under the corresponding provisions of these Regulations.

By order of the Commission

K. Mathew Kurien
Secretary

Kerala State Electricity Regulatory Commission

Explanatory Note

(This does not form part of the notification, but is intended to achieve its general purport).

Section 61 of the Electricity Act, 2003, authorizes the State Electricity Regulatory Commission to specify the terms and conditions for the determination of tariff for the supply of electricity by a generating company to a distribution licensee, transmission of electricity, wheeling of electricity and for retail sale of electricity and such other charges incidental thereto. The said section further stipulates that in specifying the terms and conditions for determination of tariff, the Commission shall be guided by certain principles laid down therein. Sub-section (3) of Section 32 of the Act authorises the Commission to specify fees and charges that may be levied by the State Load Despatch Centre. Consequently the Kerala State Electricity Regulatory Commission had formulated a draft Kerala State Electricity Regulatory Commission (Terms and Conditions of Determination of Tariff) Regulations, 2014 and previously published it in the website of the Commission on 02.06.2014 for eliciting opinions, suggestions and objections from the stakeholders and the general public. Many suggestions and objections were received from the stakeholders and the public. Based on these suggestions and objections, public hearing was conducted on 25.07.2014. After considering all the suggestions and objections received directly and in the public hearing, the Commission has approved the final Kerala State Electricity Regulatory Commission (Terms and Conditions of Determination of Tariff) Regulations, 2014, and decided to publish the same in the official gazette.

This notification is intended to achieve the above purpose.

Annexure-I
Depreciation schedule

Description of Assets		Depreciation (Straight line) (%)
A.	Land owned under full title	--
B.	Assets Purchased New:	
a.	Plant and machinery in generating stations including plant foundations	
	i) Hydro-electric	5.28
	ii) Steam electric	5.28
	NHRS & Waste Heat Recovery Boilers/Plants	
	iii) Diesel-electric and gas plant	5.28
b.	Cooling towers and circulating water systems	5.28
c.	Hydraulic works forming part of Hydro-electric systems including:-	
	i) Dams, Spillways, weirs, canals, reinforced concrete Flumes and siphons	5.28
	ii) Reinforced concrete pipelines and surge tanks, steel pipelines, sluice gates, steel surge (tanks) hydraulic control valves and other hydraulic works	5.28
d.	Building & civil engineering works of permanent character	
	i) Offices & showrooms	3.34
	ii) Containing thermo-electric generating plant	3.34
	iii) Containing hydro-electric generating plant	3.34
	iv) Temporary erection such as wooden structures	100
	v) Roads other than kutchra roads	3.34
	vi) Others	3.34
e.	Transformers, transformer (Kiosk) sub-station equipment & other fixed apparatus (including plant foundations)	
	i) Transformers (including foundations) having a rating of 100 kilo volt amperes and over	5.28
	ii) Others	5.28
f.	Switchgear including cable connections	5.28
g.	Lightning arrestors	

Description of Assets		Depreciation (Straight line) (%)
	i) Station type	5.28
	ii) Pole type	5.28
	iii) Synchronous condenser	5.28
h.	Batteries	5.28
	i) Underground Cable including joint boxes and disconnected boxes	5.28
	ii) Cable duct system	5.28
i.	Overhead lines including supports:	
	i) Lines on fabricated steel operating at nominal voltages higher than 66 kV	5.28
	ii) Lines on steel supports operating at nominal voltages higher than 13.2 kilovolts but not exceeding 66 kilovolts	5.28
	iii) Lines on steel or reinforced concrete supports	5.28
	iv) Lines on treated wood supports	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 fittings	6.33
	ii) Office equipments	6.33
	iii) Internal wiring including fittings and apparatus	6.33
	iv) Street light fittings	5.28
n.	Apparatus let on hire	
	i) Other than motors	9.50
	ii) Motors	6.33
o.	Communication equipment:	
	i) Radio and high frequency carrier system	6.33
	ii) Telephone lines and telephones	6.33
p.	I.T. equipments	15.00
q.	Assets purchased second hand and assets not otherwise provided for in the Schedule	5.28

Useful life

- (i) Gas/ Liquid fuel based thermal generating station: 25 years
- (ii) Coal/Lignite based thermal generating station: 25 years
- (iii) Hydro generating station: 35 years
- (iv) AC and DC sub-station: 25 years
- (v) Gas Insulated sub-station (GIS): 25 years
- (vi) Transmission line and transmission system
(including HVAC and HVDC): 35 years
- (vii) Distribution lines and distribution system: 35 years

Annexure-II

Procedure for calculation of availability for any period

(i) For thermal generating station

Availability in relation to a thermal generating station for any period means the average of the daily average declared capacities as certified by state load despatch centre for all the days during that period expressed as a percentage of the installed capacity of the generating station minus normative auxiliary consumption in MW, as specified in these Regulations and shall be computed in accordance with the following formula:

$$\text{Availability} = 10000 \times \sum_{i=1}^N \text{DC}_i / \{ N \times \text{IC} \times (100 - \text{AUX}_n) \} \%$$

where - N = number of time blocks in the given period
DC_i = Average Declared Capacity in MW for the ith time block in such period
IC = Installed Capacity of the generating station in MW
AUX_n = Normative Auxiliary Consumption in MW, expressed as a percentage of gross generation

(ii) For transmission system

1. Transmission system availability shall be calculated separately for each transmission system. 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.
2. The Availability of AC portion of transmission system shall be calculated as under:

% System Availability for AC system

$$= \frac{o \times AV_o + p \times AV_p + q \times AV_q + r \times AV_r}{o + p + q + r} \times 100$$

Where

- o is Total number of AC lines.
- AV_o is Availability of o number of AC lines.
- p is Total number of switched bus reactors .
- AV_p is Availability of p number of switched bus reactors.
- q is Total number of ICTs.
- AV_q is Availability of q number of ICTs.
- r is Total number of SVCs.
- AV_r is Availability of r number of SVCs.

3. The weightage factor for each category of transmission elements shall be as under:
 - i) For each circuit of AC line – Surge Impedance Loading for Uncompensated line (SIL) multiplied by Circuit Km.
 - ii) SIL rating for various voltage level and conductor configuration is given in Appendix-II to this Annexure. However, for the voltage levels and/or conductor configurations not listed in Appendix-II, appropriate SIL based on technical considerations may be used for availability calculation under intimation to the Commission.
 - iii) For each ICT bank – The rated MVA capacity.
 - iv) For SVC – The rated MVAR capacity (inductive & capacitive).
 - v) For switched Bus reactor – The rated MVAR capacity.
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 per Appendix-I to this Annexure - II.
5. The transmission elements under outage due to following reasons not attributable to the transmission licensee shall be deemed to be available:
 - i) Shut down of transmission elements availed by other agency/agencies for maintenance or construction of their transmission system.
 - ii) Manual tripping of line due to over voltage and manual tripping of switched bus reactor as per the directions of state load despatch centre.

6. Outage time of transmission elements for the following contingencies shall be excluded from the total time of the element under period of consideration.
 - i) Outage of elements due to acts of God and force majeure events beyond the control of the transmission licensee. However, onus of satisfying the Commission or any such other forum/agency as specified by the Commission 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 Commission or any such other forum/agency as specified by the Commission 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. Commission or any such other forum/agency as specified by the Commission 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.
 - ii) Outage caused by grid incident/disturbance not attributable to the transmission licensee, e.g. faults in substation or bays owned by other agency causing outage of the transmission licensee's elements, tripping of lines, ICTs, etc. due to grid disturbance. However, if the element is not restored on receipt of direction from state load despatch centre 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 a in-state generation stations then the outage period for that element shall be deemed to be twice the actual outage period for the day(s) on which such loss of generation has taken place.

Appendix-I

Formulae for calculation of availability of each category of transmission element

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

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

$$AV_r(\text{Availability of } r \text{ no. of SVCs}) = \frac{\left[\sum_{l=1}^r \frac{0.5 W_{lI} (T_{lI} - T_{NAIl})}{T_{lI}} + \sum_{l=1}^r \frac{0.5 W_{lC} (T_{lC} - T_{NACl})}{T_{lC}} \right]}{\left[\sum_{l=1}^r 0.5 W_{lI} + \sum_{l=1}^r 0.5 W_{lC} \right]}$$

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

Where W_i = Weightage factor for i^{th} transmission line

W_k = Weightage factor for k^{th} ICT

W_{lI} & W_{lC} = Weightage factors for inductive & capacitive operation of l^{th} SVC

W_m = Weightage factor for m^{th} bus reactor

T_i, T_k, T_{lI} The total hours of i^{th} AC line, k^{th} ICT, l^{th} SVC (Inductive

$T_{Cl}, T_m \& T_n$ Operation), l^{th} SVC (Capacitive Operation), m^{th} Switched Bus Reactor & n^{th} HVDC back-to-back block during the period under consideration (excluding time period for outages not attributable to transmission licensee for reasons given in Para 6 of the procedure)

$T_{NAi}, T_{NAk},$
 $T_{NAI}, T_{NACI},$
 T_{NAm} The non-availability hours (excluding the time period for outages not attributable to transmission licensee taken as deemed availability as per Para 5 of the procedure) for i^{th} AC line, k^{th} ICT, l^{th} SVC (Inductive Operation), l^{th} SVC (Capacitive Operation), m^{th} Switched Bus Reactor.

Surge impedance loading (SIL) of AC lines

Sl. 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	Triple 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

Annexure-III

Format for certificate to be issued by generating business/company

a) For hydro-electric generating stations

It is to certify that the (Name of the Station) has fulfilled all the key provisions as prescribed below in accordance with regulation 8 of Kerala State Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff), Regulations, 2014.

1. All documents as prescribed in regulation 3(8) of the Central Electricity Authority (Technical Standards for Construction of Electric Plants and Electric Lines) Regulations, 2010 have been retained at site and are available at site.
2. All requirements as per regulation 30(1), 30(2) and 30(5) of the Central Electricity Authority (Technical Standards for Construction of Electric Plants and Electric Lines) Regulations, 2010 have been complied.
3. The unit operating capability shall be in conformity to regulation 32 (1), 32(3), 32(4), 32(6) and 32(8) of the Central Electricity Authority (Technical Standards for Construction of Electric Plants and Electric Lines) Regulations, 2010.
4. All requirements as per regulation 33(6), 33(7), 33(8) of the Central Electricity Authority (Technical Standards for Construction of Electric Plants and Electric Lines) Regulations, 2010 have been complied for the hydraulic Turbine.

Name:
(CMD/CEO/MD)

b) For gas-based generating stations

It is to certify that the (Name of the Station) has fulfilled all the key provisions as prescribed below in accordance with regulation 8 of Kerala State Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff), Regulations, 2014.

1. All documents as prescribed in regulation 3(8) of the Central Electricity Authority (Technical Standards for Construction of Electric Plants and Electric Lines) Regulations, 2010 have been retained at site and are available at site.
2. All requirements as per regulation 5 of the Central Electricity Authority (Technical Standards for Construction of Electric Plants and Electric Lines) Regulations, 2010 have been complied.
3. The unit operating capability shall be in conformity to regulation 14 (2), 14(3), 14(4), 14(5) and 14(7) of the Central Electricity Authority (Technical Standards for Construction of Electric Plants and Electric Lines) Regulations, 2010.
4. All requirements as per regulation 17 and regulations 9(2), 9(4), 9(9), 9(15), 9(16), 9(18) of the Central Electricity Authority (Technical Standards for Construction of Electric Plants and Electric Lines) Regulations, 2010 have been complied for the Steam Turbine.

Name:
(CMD/CEO/MD)

Annexure-IV

Guidelines for in-principle clearance of investment schemes

Regulation 21 of the Kerala State Electricity Regulatory Commission (Conditions of Licence for Existing Distribution Licensee) Regulations, 2006 requires the distribution licensee to take prior approval of the Commission for schemes involving 'major investment', i.e., above Rs. 10 crore and not covered under the investment plan approved by the Commission.

These Guidelines shall be adhered to by all generating businesses/companies, transmission businesses/licensees, distribution businesses/licensees, and state load despatch centre, while submitting their capital investment plan. The methodology and evaluation criteria for evaluation of these capital investment schemes, are detailed below:

Methodology

A. Submission of capital investment plan

The generating businesses/companies, transmission businesses/licensees, distribution businesses/licensees, and state load despatch centre shall submit the capital investment plan outlining the major schemes proposed, in the manner directed by the Commission. Such plan shall be uniform and consistent with other relevant proposals, and supporting information as desired by the Commission shall be included in the submission.

B. Capital investment schemes

- (a) For the purpose of these guidelines, a capital investment scheme means:
 - i) Any non-recurring capital expenditure programme of the transmission business/licensee, distribution business/licensee, and state load despatch centre for the acquisition, construction or improvement of permanent facility in the respective business
 - ii) Capital investment scheme involving replacement, renovation and modernization or life extension of existing fixed assets of the generating business/company.
- (b) The schemes shall be planned considering the three year investment horizon
- (c) The scope of investments included in each scheme shall be any of the following:

(i) Works of a similar or related nature

For example, new receiving stations proposed at different locations within the licence area must be clubbed together and presented as a scheme for new receiving stations, schemes for modernization/augmentation of the transmission cables must be presented together, information technology schemes, SCADA and communication equipment at the region/State level, schemes for major replacement of old equipment, etc.

(ii) Different types of works within a geographical area, say in a district

For example, all capital investments covered under a District Integrated Scheme can be presented together as a Scheme.

(iii) An independent identifiable project as would be submitted to a financial institution like Rural Electrification Corporation, Powe Finance Corporation, etc., or for funding under Revised Accelerated Power Development & Reform Programme.

C. Submission of Detailed Project Reports

For the capital investment schemes exceeding the amount of Rs. 10 crore, the generating businesses/companies, transmission businesses/licensees, distribution businesses/licensees, and state load despatch centre shall submit the detailed project report for the Commission's in-principle approval with a broad cost-benefit analysis. The capital investment plans shall constitute a least cost plan.

The detailed project reports shall necessarily include the scope and objective of the proposed scheme and elaborate how the scheme meets the evaluation criteria mentioned herein.

D. Evaluation of the detailed project reports

Stages of approval process

1) **In-principle clearance:** During this stage, the scheme would be given clearance considering primarily its scope and objective, while keeping in view the following criteria:

(i) **Statutory requirements:**

a. Whether the proposed capital investment is necessary to discharge the duties and obligations of the generating businesses/companies, transmission businesses/licensees, distribution businesses/licensees, and state load despatch

centre, as per the Electricity Act, 2003 and rules and Regulations made thereunder?

- b. Whether the proposed capital investment is in line with such provisions, Rules and Regulations?

(ii) Need for investment:

- a. Whether the proposed capital investment is necessary to set-up the infrastructure
 1. To strengthen the system to meet the normal load growth
 2. To supply to new consumers
 3. For improving the quality of supply to consumers
- b. Whether equipments are operating close to their rated capacities and the proposed capital investment is necessary?
 1. To increase the reliability of the system
 2. For life extension of the equipment.
 3. To facilitate the creation of back-up facilities

(iii) Technical justification:

- a) Whether the scheme confirms to the technical design criteria?
- b) Whether the replacement of old equipment is necessary for equipments, which have outlived their normal life-span?
- c) Whether the useful life of the proposed equipment is reasonable?
- d) What is the average rate of technology obsolescence for the proposed equipment?
- e) Whether the proposed investment would improve the reliability of supply?
- f) Whether the investment is necessary for a reduction in transmission or distribution losses?

(iv) Timing of the investment:

- a) Whether the timing of the investment is optimum?
- b) Whether the investment planned is commensurate with the demand growth?

(v) Prudence of the Investment:

- a) Whether other alternatives schemes have been considered?
- b) Whether the proposed investment would result in duplication of existing infrastructure?
- c) Whether the proposed investment is a necessity for the conduct of business?

(vi) Cost-benefit analysis:

- a) Whether the cost estimates are reasonable?
- b) Whether it is in line with the cost rates approved by the Commission in the past, if any?
- c) Whether the least cost option has been considered?

2) Final approval after capitalization, while approving the aggregate revenue requirement & expected revenue from charges

During this stage, the impact of the capital expenditure schemes will be included in the aggregate revenue requirement, based on the approved capital expenditure and any cost over-run, if approved by the Commission.

Annexure-V
Formula for calculation of plant load factor

Plant load factor shall be computed in accordance with the following formula:

$$\text{Plant load factor (\%)} = 10000 \times \sum_{i=1}^N \frac{AG_i}{\{N \times IC \times (100 - AUX_n)\}} \%$$

where,

N = number of time blocks in the given period;

AG_i = Actual ex-bus generation in MW for the ith time block in such period;

IC = Installed capacity of the generating station in MW;

AUX_n = Normative auxiliary consumption in MW, expressed as a percentage of gross generation;

Annexure-VI
Ceiling norms for capitalised initial spares

Ceiling norms for the capitalised initial spares as a percentage of the cost of plant and machinery upto cut-off date

- | | |
|--|---------|
| (a) Coal based/lignite fired thermal generating stations | - 4.0%; |
| (b) Gas turbine/combined cycle thermal generating stations | - 4.0%; |
| (c) hydro generating stations | - 4.0%, |
| (d) Transmission system: | |
| (i) Transmission Line | - 1.0% |
| (ii) Transmission sub-station (green-field) | - 4.0% |
| (iii) Transmission sub-station (brown-field) | - 6.0% |
| (iv) Series compensation devices and HVDC Station | - 4.0% |
| (v) Gas Insulated switchgear sub-station (GIS) | - 5.0% |
| (vi) Communication system | - 5.0% |

Annexure-VII
O&M norms for existing generating stations of generation business of
KSEB Limited

Particulars (Rs. Crore)	FY 2015-16	FY 2016-17	FY 2017-18
Employee expenses	45.01	47.65	50.43
Repair & maintenance expenses	18.73	19.83	20.99
Administrative & general expenses	4.34	4.59	4.86
Total	68.08	72.07	76.28

Annexure-VIII
O&M norms for the transmission business of KSEB Limited and
transmission licensee

Particulars	FY 2015-16	FY 2016-17	FY 2017-18
O&M expenses per bay (Rs. lakh)	5.23	5.54	5.86
O&M expenses per ckt km (Rs. lakh)	0.58	0.61	0.65

Explanation: The O&M expenses for any year of the control period shall be allowed by multiplying the O&M norms for that year with the actual number of bays and transmission line length in ckt km for the previous year, i.e., the O&M expenses for FY 2015-16 shall be allowed by multiplying the O&M norms for FY 2015-16 with the actual number of bays and transmission line length in ckt km for FY 2014-15.

Annexure-IX
O&M norms for the distribution business/licenseses

Table 1: O&M norms for distribution business of KSEB Limited

O&M Expenses	FY 2015-16	FY 2016-17	FY 2017-18
Employee expenses			
Rs lakh/'000 consumers	2.40	2.54	2.69
Rs. lakh/distribution transformer	0.33	0.35	0.37
Rs. lakh per km of HT line	0.40	0.42	0.44
Rs/unit of sales	0.10	0.11	0.11
A&G expenses			
Rs Lakh/'000 consumers	0.21	0.22	0.23
Rs. lakh/distribution transformer	0.03	0.03	0.03
Rs. lakh per km of HT line	0.03	0.04	0.04
Rs/unit of sales	0.01	0.01	0.01
R&M expenses			
% of opening GFA	3%	3%	3%

Explanation: The O&M expenses for any year of the control period shall be allowed by multiplying the O&M norms for that year with the actual number of consumers, distribution transformers, km of HT line and sales for the previous year, i.e., the O&M expenses for FY 2015-16 shall be allowed by multiplying the O&M norms for FY 2015-16 with the actual number of consumers, distribution transformers, km of HT line and sales for FY 2014-15.

Table 2: O&M norms for distribution business of Cochin Special Economic Zone

O&M Expenses	FY 2015-16	FY 2016-17	FY 2017-18
Employee expenses (Rs. lakh)	152.31	161.22	170.65
R&M expenses (Rs. lakh)	7.80	8.26	8.74
A&G expenses (Rs. lakh)	25.43	26.92	28.50

Table 3: O&M norms for distribution business of Technopark

O&M Expenses	FY 2015-16	FY 2016-17	FY 2017-18
Employee expenses (Rs. lakh)	133.38	141.18	149.44
R&M expenses (Rs. lakh)	156.37	165.52	175.20
A&G expenses (Rs. lakh)	19.83	20.99	22.21

Table 4: O&M norms for distribution business of Kinesco Power & Utilities Private Limited

O&M Expenses	FY 2015-16	FY 2016-17	FY 2017-18
Employee expenses (Rs. lakh)	21.90	23.18	24.54
R&M expenses (Rs. lakh)	30.45	32.23	34.12
A&G expenses (Rs. lakh)	59.60	63.09	66.78

Table 5: O&M norms for distribution business of Rubber Park of India (P) Limited

O&M Expenses	FY 2015-16	FY 2016-17	FY 2017-18
Employee expenses (Rs. lakh)	26.10	27.62	29.24
R&M expenses (Rs. lakh)	24.33	25.75	27.26
A&G expenses (Rs. lakh)	18.02	19.07	20.19

Table 6: O&M norms for distribution business of Kanan Devan Hills Plantation Company Private Limited

O&M Expenses	FY 2015-16	FY 2016-17	FY 2017-18
Employee expenses (Rs. lakh)	80.09	84.78	89.74
R&M expenses (Rs. lakh)	16.64	17.62	18.65
A&G expenses (Rs. lakh)	13.91	14.73	15.59

Table 7: O&M norms for distribution business of Cochin Port Trust

O&M Expenses	FY 2015-16	FY 2016-17	FY 2017-18
Employee expenses (Rs. lakh)	313.23	331.55	350.95
R&M expenses (Rs. lakh)	9.42	9.97	10.55
A&G expenses (Rs. lakh)	35.10	37.15	39.33

Table 8: O&M norms for distribution business of Thrissur Corporation

O&M Expenses	FY 2015-16	FY 2016-17	FY 2017-18
Employee expenses (Rs. lakh)	889.37	941.40	996.47
R&M expenses (Rs. lakh)	51.59	54.61	57.81
A&G expenses (Rs. lakh)	243.03	257.24	272.29

Table 9: O&M Norms for distribution business of Infopark

O&M Expenses	FY 2015-16	FY 2016-17	FY 2017-18
Employee expenses (Rs. lakh)	3.30	3.50	3.70
R&M expenses (Rs. lakh)	17.99	19.05	20.16
A&G expenses (Rs. lakh)	4.02	4.26	4.51

Annexure-X
Fuel Surcharge Formula

The Formula for adjustment of fuel surcharge shall be as under:

The rate of fuel surcharge adjustment in paise per kWh = $F \div E \times 100$

Where,-

F = The amount of fuel surcharge in rupees, which is the sum of Fg, Fp and A
E = Energy billed for retail sale to the consumers other than the domestic consumers with connected load of and below 500 W and consumption of and below 20 kWh, in the relevant quarter, based on the approved level of transmission and distribution loss

Fg = Change in the cost of fuel for generation of electricity from own stations

$$= \sum_1^n Qg \times (R1 - R2)$$

Fp = Change in cost of the energy purchased, due to the change in fuel cost

$$= \sum_1^n Qp \times (P1 - P2)$$

(Fg and Fp shall be calculated for each station month-wise and added up)

A = Balancing term to take care of difference, if any, in the energy sales

Qg = Quantity of fuel used for generation of electricity in own stations

$$= \frac{(\text{Approved station heat rate in kilo calories per kWh} \times \text{Actual or approved energy whichever is less in MU} \times 1000)}{\text{Calorific value of the fuel in kilo calories per kilo gram}}$$

Q_p = Actual quantity of energy purchased or approved whichever is lesser

R1 = Actual price of fuel in rupees per metric ton

R2 = Approved price of fuel in rupees per metric ton

P1 = Actual price of purchased energy in rupees per kWh

P2 = Approved price of purchased energy in rupees per kWh

Annexure-X
Rate of Fuel Surcharge Adjustment (Form-I)

Name of distribution business/licensee _____

Format 1 : Details of month wise energy billed for retail sale for the quarter

Month	Retail Sales (kWh)		T&D loss (%)		Energy input (kWh)	
	Actual	Approved	Actual	Approved	Actual	Approved

Format 2: Month wise details of generation from own sources & IPPs (Stationwise): Month: _____ Quarter: _____

Source	Energy generation (kWh)		Aux. consumption (kWh)		Net energy input (kWh)		Station heat rate (kcal/kWh)		Calorific value of fuel (kcal/kg)	Quantity of fuel (MT)		Price of fuel (Rs./MT)	
	Actual	Approved	Actual	Approved	Actual	Approved	Actual	Approved		Actual	Approved	Actual	Approved

*Note : 1) If more than one fuel is used, information may be provided separately for each fuel
2) In the case of IPPs, norms as per PPA may be indicated*

Format 3: Month wise details of purchase of energy Month: _____ Quarter: _____

Source	Energy purchase (kWh)		Price Rs./kWh		Total Cost (Rs.)	
	Actual	Approved	Actual	Approved	Actual	Approved

Format 4 : Source wise energy input for the quarter _____

Source	Month		Month	
	Actual	Approved	Actual	Approved

Annexure-XI
Formula for calculating cross subsidy surcharge

Cross subsidy surcharge shall be calculated as per following formula:

$$S = T - [C \times (1 + (L \div 100)) + D]$$

Where,

S is the Cross Subsidy Surcharge;

T is the tariff payable by the relevant category of consumers;

C is the weighted average cost of power purchase of top 5% at the margin excluding liquid fuel based generation and renewable energy sources;

D is the wheeling charge;

L is the system losses for the applicable voltage level, expressed as a percentage:

Provided that if S is computed to be negative as per above Formula, S shall be considered as zero.

Annexure-XII

Formats for filing application for approval of aggregate revenue requirement and tariff

NOTE

(This does not form part of these Regulations, but is intended for explaining the methodology for computation of normative O&M costs)

Method Adopted for Specifying Normative O&M Costs for the Businesses of KSEB Limited.

Common Steps Adopted for Generation, Transmission & Distribution Businesses.

1. The employee costs, repair & maintenance costs, and administrative & general costs, as approved by the Commission in the true-up order for the financial year 2010-11, have been considered as the base figures for computation of normative costs, as they are the latest available trued-up expenses.
2. The allocation of O&M expenses of KSEB Limited to the generation business, transmission business and distribution business, has been done on the basis of the share of generation business, transmission business and distribution business in the total O&M expenses, as per the Statement 6 of the audited accounts of Kerala State Electricity Board for the financial year 2010-11.
3. The common expenses such as the expenses of construction division, stores organisation and management & administration, have been allocated to generation business, transmission business and distribution business in the same ratio as the O&M expenses of generation business, transmission business and distribution business.
4. The total capitalized expenses comprise of the capitalized employee cost constituting 94.05% of the total capitalized expense and the capitalized administration and general (A&G) cost constituting the balance 5.95%.
5. The net trued-up O&M expenses for the financial year 2010-11 (net of capitalisation) and after reducing the terminal liabilities for the financial year 2010-11, are apportioned in the same ratio as the ratio of actual terminal liabilities to the actual employee costs as given in the following table:

Table

Sl. No.	Particulars	FY 2010-11 (Rs. Crore)	
		Truing-up Order	Audited
1	(a) Employee Costs	831.11	973.61
	(b) Terminal Liabilities	631.00	739.19
	(c) Total Employee Costs	1462.11	1712.80
	(d) Less: Capitalisation	90.14	90.14
	(e) Net total employee costs	1371.97	1622.66
	(f) Net employee costs (excl. Terminal Liabilities) =(e)-(b)	740.97	883.47
2	R&M Costs	167.91	231.85
3	(a) A&G Costs	73.78	90.14
	(b) Electricity Duty	0.00	84.42
	(c) Total A&G Cost	73.78	174.56
	(d) Less: Capitalisation	5.70	5.70
	(e) Net total A&G costs	68.08	168.86
	(f) Net total A&G costs (excl Elec. Duty) = (e)-(b)	68.08	84.44
	Total O&M Expenses (excl. Terminal Liabilities) =1(f) + 2 + 3(f)	976.96	1199.76

6. The allocation of O&M expenses to generation business, transmission business and distribution business has been done based on the following table, as per the Statement 6 in the audited accounts of KSEB for the financial year 2010-11:

Table

Sl. No.	Particulars	Allocation as per Statement 6 of KSEB			
		Generation	Transmission	Distribution	Total
1	Employee Cost	4.59%	7.37%	88.04%	100%
2	R&M Cost	8.43%	21.41%	70.17%	100%
3	A&G Cost	4.81%	12.56%	82.62%	100%

7. The net trued-up O&M expenses for the financial year 2010-11 (net of capitalisation) and after reducing the terminal liabilities for the financial year 2010-11, have been allocated among the generation business, transmission business and distribution business, in accordance with the above matrix, as given in the following table:

Table

Sl. No.	Particulars	Allocation of trued-up O&M costs for FY 2010-11 (Rs. Crore)			
		Generation	Transmission	Distribution	Total
1	Employee Cost	34.00	54.60	652.37	740.97
2	R&M Cost	14.15	35.94	117.82	167.91
3	A&G Cost	3.28	8.55	56.25	68.08
	Total O&M costs	51.43	99.10	826.43	976.96

8. The above O&M expenses for the financial year 2010-11 for the generation business, transmission business and distribution business, have been escalated by the growth rate of 5.72% per annum (based on CERC escalation index for the Tariff Period 2009-14), for determining the O&M expenses for the financial year 2013-14, as given in the following table:

Table

Sl.	Particulars	O&M costs for FY 2013-14 (Rs. Crore)			
		Generation	Transmission	Distribution	Total
1	Employee Cost	40.17	64.52	770.84	875.53
2	R&M Cost	16.72	42.47	139.21	198.40
3	A&G Cost	3.87	10.11	66.46	80.44
	Total O&M costs	60.77	117.10	976.52	1154.38

Normative O&M Costs for Generation Business of KSEB Limited for the First Control Period.

9. The employee costs, repair & maintenance costs and administrative & general costs for the generation business of KSEBL, as computed above in para 8 for the financial year 2013-14, have been escalated by the growth rate of 5.85% per annum (based on escalation index notified by CERC), for determining the O&M expenses for the financial years 2015-16, 2016-17, and 2017-18, as given in the following table:

Table

Sl.	Particulars	O&M costs for generation business of KSEBL (Rs. Crore)		
		FY 2015-16	FY 2016-17	FY 2017-18
1	Employee Cost	45.01	47.65	50.43
2	R&M Cost	18.73	19.83	20.99
3	A&G Cost	4.34	4.59	4.86
	Total O&M costs	68.08	72.07	76.28

Normative O&M Costs for Transmission Business of KSEB Limited for the First Control Period.

10. The data regarding the number of bays (66 kV and above) are available only for the period the financial year 2005-06 to the financial year 2010-11, as submitted by KSEB Limited. The number of bays has increased from 1315 to 1448, at an annual growth rate of 1.95%. The number of bays at the end of the financial year 2012-13 has been projected by escalating the number of bays in the financial year 2010-11 by the annual growth rate of 1.95%, which works out to 1505 number of bays and it has been considered as the operational number of bays for the financial year 2013-14, for the purpose of working out the normative O&M expense per bay.
11. The total length of transmission lines (66 kV and above) in the financial year 2012-13 was 9102 circuit kilometer. The line length at the end of the financial year 2012-13 has been considered as the operational line length for the financial year 2013-14, for the purpose of working out the normative O&M expense per circuit kilometer.
12. The employee costs, repair & maintenance costs and administrative & general costs for the transmission business of KSEB Limited, as computed in para 8 above, for the financial year 2013-14, have been allocated to the number of bays and line length in circuit kilometer in the ratio of 60:40, respectively, for working out the normative O&M expenses for the transmission business for the financial year 2013-14, and they work out to Rs. 4.67 lakh per bay and Rs. 0.51 lakh per circuit kilometer.

13. The above normative O&M expenses for the financial year 2013-14 have been escalated by the growth rate of 5.85% per annum (based on escalation index notified by CERC), for determining the normative O&M expenses for the financial years 2015-16, 2016-17 and 2017-18, as given in the following table:

Table

Sl.	Particulars	O&M costs for transmission business of KSEBL (Rs. Crore)		
		FY 2015-16	FY 2016-17	FY 2017-18
1	Rs. lakh per bay	5.23	5.54	5.86
2	Rs. lakh per ckt km	0.58	0.61	0.65

14. The O&M expenses for any year of the first control period shall be allowed by multiplying the normative O&M costs for that year with the actual number of bays and transmission line length in circuit kilometer for the previous year, i.e., the O&M expenses for the financial year 2015-16 shall be allowed by multiplying the normative O&M costs for the financial year 2015-16 with the actual number of bays and transmission line length in circuit kilometer for the financial year 2014-15.

Normative O&M Costs for the Distribution Business of KSEB Limited for the First Control Period.

15. The number of consumers, number of distribution transformers, length of HT lines in kilometer and sales in the financial year 2012-13 were 108.07 lakh, 64972 numbers, 54507 km and 16838 MU, respectively. The gross fixed assets of the distribution business at the end of the financial year 2012-13 was Rs. 5193.78 crore.
16. The above output parameters for the distribution business at the end of the financial year 2012-13 have been considered as the output parameters for the financial year 2013-14, for the purpose of working out the normative O&M expenses.
17. The employee costs and administrative & general costs for the distribution business of KSEB Limited, as computed above in para 8 for the financial year 2013-14, have been allocated to the number of consumers, number of distribution transformers, length of HT lines in

kilometer and the sales, in the ratio of 30:25:25:20, respectively, for working out the normative employee costs and A&G costs for the distribution business for the financial year 2013-14. The R&M costs for the financial year 2013-14 works out to 2.7% of the GFA at the end of the financial year 2012-13.

18. The normative employee costs and A&G costs for the financial year 2013-14 have been escalated by the growth rate of 5.85% per annum (based on escalation index notified by CERC), for determining the normative employee costs and A&G costs for the financial years 2015-16, 2016-17 and 2017-18, while the R&M expenses have been considered as 3% of GFA, as given in table below:

Table

Sl.	Particulars	O&M costs for distribution business of KSEB Limited (Rs. Crore)			
		FY 2013-14	FY 2015-16	FY 2016-17	FY 2017-18
A	Employee Costs				
1	Rs. lakh per '000 consumers	2.14	2.40	2.54	2.69
2	Rs. lakh per distribution transformer	0.30	0.33	0.35	0.37
3	Rs. lakh per km of HT line	0.35	0.40	0.42	0.44
4	Rs. per unit of sales	0.09	0.10	0.11	0.11
B	A&G Costs				
1	Rs. lakh per '000 consumers	0.18	0.21	0.22	0.23
2	Rs. lakh per distribution transformer	0.03	0.03	0.03	0.03
3	Rs. lakh per km of HT line	0.03	0.03	0.04	0.04
4	Rs. per unit of sales	0.01	0.01	0.01	0.01
C	R&M Costs as % of GFA	2.7%	3%	3%	3%

19. The O&M expenses for any year of the first control period shall be allowed by multiplying the normative O&M costs for that year with the actual number of consumers, number of distribution transformers, length of HT line in kilometer, sales, and GFA for the previous year, i.e., the O&M expenses for the financial year 2015-16 shall be allowed by multiplying the normative O&M costs for the financial year 2015-16 with the actual number of number of consumers, number of distribution transformers, length of HT lines in kilometer and sales for the financial year 2014-15.

**Method Adopted for Specifying Normative O&M Costs
for Small Distribution Licensees**

1. The employee costs, repair & maintenance costs and administrative & general costs, as approved by the Commission in the true-up order for the financial year 2011-12 for Cochin Port Trust (CPT), Kanan Devan Hills Plantations Company Private Limited (KDHPCPL), Thrissur Corporation, Cochin Special Economic Zone Authority (CSEZA) and Rubber Park India Limited (RPIL), have been considered as the base figures, as they are the latest available trued-up expenses. For Kinesco Power and Utilities Private Limited (KPUPL), the employee costs, repair & maintenance costs and administrative & general costs, as approved by the Commission in the true-up order for the financial year 2008-09 has been considered as the base figure. For Technopark and Infopark, the employee costs, repair & maintenance costs and administrative & general costs, as approved by the Commission in the latest tariff order for the financial year 2014-15 have been considered as the base figures, since, Infopark is a new distribution licensee that has started operations recently and Technopark has added another area of operations, thereby increasing the scale of operations and hence, reliance cannot be placed on past data.

Sl.	Particulars	True Up Order FY 2011-12 (Rs. Lakh)					
		CPT	KDHPCPL	TC	CSEZA	RPIL	KPUPL*
1	Employee Cost	250.13	63.96	710.21	121.63	20.84	14.80

Sl.	Particulars	True Up Order FY 2011-12 (Rs. Lakh)					
		CPT	KDHPCPL	TC	CSEZA	RPIL	KPUPL*
2	R&M cost	7.52	13.29	41.20	6.23	19.43	20.58
3	A&G Expenses	28.03	11.11	194.07	20.31	14.39	40.28
	Total O&M Expenses	285.68	88.36	945.48	148.17	54.66	75.66

Note: For KPUPL the trued-up values for financial year 2008-09 have been adopted.

- The above O&M expenses for the financial year 2011-12 for CPT, KDHPCPL, Thrissur Corporation, CSEZA, and RPIL and for the financial year 2008-09 for KPUPL, have been escalated by the growth rate of 5.72% per annum (based on CERC escalation index for the Tariff Period 2009-14), for determining the O&M expenses for the financial year 2013-14, as given in the following table:

Table

Sl.	Particulars	O&M Costs for FY 2013-14 (Rs. lakh)					
		CPT	KDHPCPL	TC	CSEZA	RPIL	KPUPL
1	Employee Cost	279.56	71.49	793.78	135.94	23.29	19.55
2	R&M cost	8.40	14.85	46.05	6.96	21.72	27.18
3	A&G Expenses	31.33	12.42	216.91	22.70	16.08	53.20
	Total O&M Expenses	319.30	98.76	1056.74	165.61	61.09	99.92

- The employee costs, repair & maintenance costs and administrative & general costs for CPT, KDHPCPL, Thrissur Corporation, CSEZA, RPIL, and KPUPL, as computed above for the financial year 2013-14, have been escalated by the growth rate of 5.85% per annum (based on escalation index notified by CERC), for determining the normative O&M expenses for the financial years 2015-16, 2016-17 and 2017-18. For Technopark and Infopark, the employee costs, repair & maintenance costs and administrative & general costs approved by the Commission for the financial year 2014-15 have been escalated by the growth rate of 5.85% per annum (based on escalation index notified by CERC), for determining the normative O&M expenses for the financial years

2015-16, 2016-17 and 2017-18. The normative O&M expenses of the small licensees are as given in the following tables:

O&M Norms for distribution business of CSEZA

O&M Expenses	FY 2015-16	FY 2016-17	FY 2017-18
Employee expenses (Rs. lakh)	152.31	161.22	170.65
R&M expenses (Rs. lakh)	7.80	8.26	8.74
A&G expenses (Rs. lakh)	25.43	26.92	28.50

O&M Norms for distribution business of Technopark

O&M Expenses	FY 2015-16	FY 2016-17	FY 2017-18
Employee expenses (Rs. lakh)	133.38	141.18	149.44
R&M expenses (Rs. lakh)	156.37	165.52	175.20
A&G expenses (Rs. lakh)	19.83	20.99	22.21

O&M Norms for distribution business of KPUPL

O&M Expenses	FY 2015-16	FY 2016-17	FY 2017-18
Employee expenses (Rs. lakh)	21.90	23.18	24.54
R&M expenses (Rs. lakh)	30.45	32.23	34.12
A&G expenses (Rs. lakh)	59.60	63.09	66.78

O&M Norms for distribution business of RPIL

O&M Expenses	FY 2015-16	FY 2016-17	FY 2017-18
Employee expenses (Rs. lakh)	26.10	27.62	29.24
R&M expenses (Rs. lakh)	24.33	25.75	27.26
A&G expenses (Rs. lakh)	18.02	19.07	20.19

O&M Norms for distribution business of KDHPCPL

O&M Expenses	FY 2015-16	FY 2016-17	FY 2017-18
Employee expenses (Rs. lakh)	80.09	84.78	89.74
R&M expenses (Rs. lakh)	16.64	17.62	18.65
A&G expenses (Rs. lakh)	13.91	14.73	15.59

O&M Norms for distribution business of CPT

O&M Expenses	FY 2015-16	FY 2016-17	FY 2017-18
Employee expenses (Rs. lakh)	313.23	331.55	350.95
R&M expenses (Rs. lakh)	9.42	9.97	10.55
A&G expenses (Rs. lakh)	35.10	37.15	39.33

O&M Norms for distribution business of Thrissur Corporation

O&M Expenses	FY 2015-16	FY 2016-17	FY 2017-18
Employee expenses (Rs. lakh)	889.37	941.40	996.47
R&M expenses (Rs. lakh)	51.59	54.61	57.81
A&G expenses (Rs. lakh)	243.03	257.24	272.29

O&M Norms for distribution business of Infopark

O&M Expenses	FY 2015-16	FY 2016-17	FY 2017-18
Employee expenses (Rs. lakh)	3.30	3.50	3.70
R&M expenses (Rs. lakh)	17.99	19.05	20.16
A&G expenses (Rs. lakh)	4.02	4.26	4.51

**ARR and Tariff Formats
Generation Business
INDEX**

S.No.	Form No.	Title of Form
1	2	3
1	Form G 1.1	Summary of Tariff Proposal
2	Form G 1.2	Aggregate Revenue Requirement
3	Form G 2.1	Plant Characteristics
4	Form G 2.2	Operational Parameters - Generation
5	Form G 3.1	Revenue from Sale of Power
6	Form G 3.2	Non-Tariff Income
7	Form G 3.3	Capital Subsidies and Grants
8	Form G 4	O&M Expenses
9	Form G 4a	Employee Expenses
10	Form G 4b	Administrative & General Expenses
11	Form G 4c	Repair & Maintenance Expenses
12	Form G 5.1	Energy Charges for Thermal Generation
13	Form G 5.2	Fuel Cost Details for Thermal Generation
14	Form G 6.1	Fixed assets & provisons for depreciation
15	Form G 6.2a	Calculation of Weighted Average Rate of Interest on Actual Loans
16	Form G 6.2b	Calculation of Interest on Normative Loan
17	Form G 6.3	Details of Project Specific Loans
18	Form G 6.4	Consolidated report on additions to Fixed Assets during the year
19	Form G 6.5	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects
20	Form G 6.6	Break-up of Capital Cost for Thermal projects
21	Form G 6.7	Break-up of Construction / Supply / Service packages
22	Form G 6.8	Draw Down Schedule for Calculation of IDC & Financing Charges (year wise from commencement of works to COD)
23	Form G 6.9	Return on Equity/Return on Net Fixed Assets
24	Form G 6.10	Statement of Additional Capitalisation after COD and Details for Financing
25	Form G 6.11	Interest on Working Capital
26	Form G 6.12	Tax on ROE
27	Form G 6.13	Inflow Review (Water Year)
28	Form G 6.14	Month wise inflow in MM3
29	Form G 6.15	Maintenance Schedule and net hydro capacity available (MW)
30	Form G 7.1	Proposed improvement in performance
31	Form G 8	Deviation Analysis
Other Information/Documents		
1	Form G P&L	Profit & Loss Account
2	Form G BS	Balance Sheet at the end of the year
3	Form G CF	Cash Flow for the year

4. Corporate audited/unaudited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the relevant years.

Note : Spread sheet financial models (in CD) shall also be submitted along with the application.

**Form G 1.1
Summary of Tariff Proposal**

Name of the Generating Business/Company _____

Name of the Generating Station/Unit : _____

(Rs. Crore)													
S.No.	Particulars	Ref.of Form No	Previous Year (n-1)				Current Year (n)			Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Approved in Tariff Order	Audited	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)	(Projected)	(Projected)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Capacity Charge												
1.1	Annual Fixed Charges												
1.1.1	O & M Expenses	4											
1.1.2	Depreciation	6.1											
1.1.3	Interest on Loan Capital	6.2											
1.1.4	Interest on Bonds to meet Terminal Liabilities	6.2 ©											
1.1.5	Interest on Working Capital	6.11											
1.1.6	Return on Equity	6.9											
1.1.7	Tax on ROE	6.12											
1.1.8	Any other item (to be specified)												
1.1.9	Less: Non-Tariff income	3.2											
	Total (1.1) Annual Fixed Charges												
2	Total- Energy (variable) charges												
3	Units sold to Discoms (MU)												
4	Rate of Variable Charges												
4.1	Rate of Energy Charge from Primary Fuel (REC) _p	5.3											
4.2	Total-(2) Rate of Energy Charge ex-bus(REC) ^{3A,3B}	5.1											

¹ Details of calculations to be furnished.^{3A} The rate of energy charge shall be computed for open cycle operation and combined cycle operation separately in case of gas/liquid fuel fired plants.^{3B} The total energy charge shall be worked out based on ex-bus energy sent out in case of plants not covered by ABT.

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form G 1.2
Aggregate Revenue Requirement

Name of the Generating Business/Company _____

Name of the Generating Station /Unit : _____

(Rs. Crore)

S.No.	Particulars	Reference Form	Previous Year (n-1)				Current Year (n)			Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Approved in Tariff Order	Audited	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)	(Projected)	(Projected)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
A	Expenditure												
1	Variable Costs, including Fuel Cost	5.1											
2	Depreciation	6.1											
3	Interest on term Loan & Finance charges	6.2											
4	Return on Equity	6.9											
5	Tax on ROE	6.12											
6	Interest on Working Capital	6.11											
7	O & M Expenses	4											
9	Any other item (to be specified)												
	Total- (A) Expenditure												
B	Receipts												
1	Revenue from Sale of Power (Tariff income)	3.1											
2	Non Tariff income	3.2											
3	Revenue Subsidies, Grants & Subvention from State Govt.												
	Total- (B)												
C	ARR (A-B(2)-B(3))												

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

**Form G 2.1
Plant Characteristics**

Name of the Generating Business/Company
Name of the Generating Station/Unit :

Basic characteristics of the plant¹							
Special Features of the Plant							
Site Specific Features²							
Special Technological Features³							
Environmental Regulation related features⁴							
Any other special features							
Fuel Details⁵	Primary Fuel			Secondary Fuel		Alternate Fuels	
Details	Unit number						
	1	2	3	4	5	6	& so on
Installed Capacity (IC)							
Date of Commercial Operation (COD)							
Type of cooling system ⁶							
Type of Boiler Feed Pump ⁷							
Pressure (kg/cm ²)							
Temperature 0C							
-At Superheater Outlet							
-At Reheater Outlet							
Turbine Cycle heat Rate(Kcal/ Kwh)							
Boiler Efficiency (%)							
Guaranteed Design Heat rate (kCal/kWh)⁸							
Conditions on which guaranteed							
% MCR							
% Makeup							
Design Fuel							
Design cooling water Temperature							
Back Pressure							

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

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

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

⁴ Environmental regulation related features like FGD, ESP etc.

⁵ Coal or natural gas or naphtha or lignite etc.

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

⁷ Motor driven, Steam turbine driven etc.

⁸ In case guaranteed unit heat rate is not available then furnish the guaranteed turbine cycle heat rate and guaranteed boiler efficiency separately along with condition of guarantee.

Form G 2.2
Operational Parameters - Generation

Name of the Generating Business/Company _____
Name of the Generating Station/Unit : _____

S. No.	Particulars	Units	Previous Year (n-1)			Current Year (n)			Year (n+1)	Year (n+2)	Year (n+3)
			Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)	(Projected)	(Projected)
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12
1	Operational Parameters - Hydel										
1.1	Total Capacity	MW									
	AFC										
	Capacity Charge										
	Energy charge rate										
1.2	NAPAF	%									
1.3	Actual/Projected Annual Plant Availability Factor	%									
1.4	Design Energy	MU									
1.5	Gross Generation	MU									
1.6	Auxiliary Energy Consumption	%									
1.7	Auxiliary Energy Consumption	MU									
1.8	Net Generation	MU									

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Remarks
13

Form G 3.1
Revenue from Sale of Power

Name of the Generating Business/Company _____
Name of the Generating Station : _____

Year (n-1)*

Rs. Crore

S.No.	Particulars	Allocation (in %) /contract demand	Unit Sold (MU)	% of total Unit Sold	Fixed Charges	Energy Charges	Others, if any	Total (6+7+8)	Average' rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity (as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)										
(b)										
(c)										
(d)										
(e)										
(f)										
2	Other recoveries									
3	Revenue From Sale of Power									

*To be submitted from (n-1)th year, nth year, (n+1)th, (n+2)th and (n+3)th year

**Form G 3.2
Non-Tariff Income**

Name of the Generating Business/Company _____
Name of the Generating Station/Unit : _____

Rs. Crore

Sr. No	Particulars	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
		Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12
	Non-tariff income										
1	Interest on staff loans and advances										
2	Income from statutory investments										
3	Income from sale of ash/rejected coal										
4	Income from rent of land or buildings										
5	Income from sale of scrap										
6	Income from staff welfare activities										
7	Rental from staff quarters										
8	Excess found on physical verification										
9	Interest on investments, fixed and call deposits and bank balances										
10	Interest on advances to suppliers/contractors										
11	Income from hire charges from contractors and others										
12	Income from advertisements, etc.										
13	Miscellaneous receipts										
14	Interest on delayed or deferred payment on bills										
15	Rebate from fuel suppliers										
	Total non-tariff income										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form G 3.3
Capital Subsidies and Grants

Name of the Generating Business/Company _____
Name of the Generating Station/Unit : _____

Rs. Crore

S. No.	Particulars	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
		Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12
1	Subsidy towards cost of Capital Asset										
2	Grant towards cost of Capitals Assets										
3	Receipts from State Govt. under any scheme as grant/subsidy										
	Total										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

**Form G 4
O&M Expenses**

Name of the Generating Business/Company _____
Name of the Generating Station/Unit : _____

(Rs. Crore)

S.No.	Particulars	Previous Year (n-1)				Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
		Approved in Tariff Order	Audited	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Employee Expenses (as per norms)											
2	Annual Contribution for Terminal Liabilities based on actuarial valuation											
3	Repair & Maintenance Expenses (as per norms)											
4	Administrative & General Expenses (as per norms)											
5	Total O&M Expenses (as per Norms)											
6	Total O&M Expenses (actuals)											

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form G 4(a)
Employee Expenses

Name of Generating Business/Licensee

Rs. Crore

S. No.	Particulars	Reference	Previous Year (n-1)			Current Year (n)			Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)	(Projected)	(Projected)	
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Basic Salary											
2	Dearness Allowance (DA)											
3	House Rent Allowance											
4	Conveyance Allowance											
5	Leave Travel Allowance											
6	Earned Leave Encashment											
7	Other Allowances											
8	Medical Reimbursement											
9	Overtime Payment											
10	Bonus/ Ex-Gratia Payments											
11	Interim Relief / Wage Revision											
12	Staff welfare expenses											
13	VRS Expenses/Retrenchment Compensation											
14	Commission to Directors											
15	Training Expenses											
16	Payment under Workmen's Compensation Act											
17	Net Employee Costs											
18	Terminal Benefits											
18.1	Provident Fund Contribution											
18.2	Provision for PF Fund											
18.3	Pension Payments											
18.4	Gratuity Payment											
18.5	Annual Contribution for Terminal Liabilities based on actuarial valuation											
19	Others											
20	Gross Employee Expenses											
21	Less: Expenses Capitalised											
22	Net Employee Expenses											

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form G 4(b)
Administrative & General Expenses

Name of Generating Business /Licensee												Rs. Crore
S. No.	Particulars	Reference	Previous Year (n-1)			Current Year (n)			Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)	(Projected)	(Projected)	
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Rent Rates & Taxes											
2	Insurance											
3	Telephone & Postage, etc.											
4	Legal charges											
5	Audit Fees											
6	Consultancy charges											
7	Other Professional charges											
8	Conveyance											
9	Vehicle Running Expenses Truck / Delivery Van											
10	Vehicle Hiring Expenses Truck / Delivery Van											
11	Electricity charges											
12	Water charges											
13	Entertainment											
14	Fees & subscription											
15	Printing & Stationery											
16	Advertisements, exhibition publicity											
17	Contribution/Donations											
18	Training expenses											
19	Miscellaneous Expenses											
20	DSM activities											
21	SRPC expenses											
22	Sports and related activities											
23	Freight											
24	Purchase Related Advertisement Expenses											
25	Bank Charges											
26	Office Expenses											
27	License Fee and other related fee											
28	Cost of services procured											
29	Outsourcing of metering and billing system											
30	V-sat, Internet and related charges											
31	Security arrangements											
32	Books & periodicals											
33	Computer Stationery											
34	Others											
35	Gross A&G Expenses											
36	Ele. Duty u/s 3(I), KED Act											
37	Less: Expenses Capitalised											
38	Net A&G Expenses											

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form G 4(c)
Repair & Maintenance Expenses

Name of Generating Business/Licensee

Rs. Crore

S. No.	Particulars	Reference	Previous Year (n-1)			Current Year (n)			Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)	(Projected)	(Projected)	
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Plant & Machinery											
2	Buildings											
3	Civil Works											
4	Hydraulic Works											
5	Lines & Cable Networks											
6	Vehicles											
7	Furniture & Fixtures											
8	Office Equipment											
9	Gross R&M Expenses											
10	Less: Expenses Capitalised											
11	Net R&M Expenses											

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form G 5.1
Energy Charges for Thermal Generation

Name of the Generating Business/Company _____
Name of the Generating Station/Unit: _____

S.No.	Particulars	Units	Previous Year (n-1)				Current Year (n)			Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Approved in Tariff Order	Audited	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)	(Projected)	(Projected)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Operational Parameters												
1.1	Total Capacity	MW											
1.2	Availability	%											
1.3	PLF	%											
1.4	Gross Generation	MU											
1.5	Auxiliary Energy Consumption	%											
1.6	Auxiliary Energy Consumption	MU											
1.7	Net Generation	MU											
1.8	Heat Rate	kcal/kWh											
2	Fuel Parameters (for each primary and secondary fuel)												
2.1	Gross Calorific Value												
2.1.1	Fuel 1-----	kcal/unit											
2.2	Landed Fuel Price per unit (Please specify the fuel)												
2.2.1	Fuel 1-----	Rs/unit											
3	Fuel Consumption and Heat Contribution (for each fuel separately)												
3.1	Specific Fuel Consumption												
3.1.1	Fuel 1-----	unit/kWh											
3.2	Total Fuel Consumption												
3.2.1	Fuel 1-----	unit											
3.3	Heat Content (each fuel separately)												
3.3.1	Fuel 1 (2.1.1 x 3.1.1)	Million kcal											
	Total Heat Content												
4	Total Fuel Cost												
4.1.1	Fuel 1----- (2.2.1 x 3.2.1)	Rs Crore											
	Total Fuel Cost	Rs Crore											
5	Other Charges and Adjustments												
5.1.1	Other Charges (pl. specify details)	Rs Crore											
5.1.2	Other Adjustments (Pl. specify details)	Rs Crore											
	Total Other Charges and Adjustments	Rs Crore											
6	Total Cost (4+5)	Rs Crore											
7	Cost of Generation per unit (at Generation Terminal) (6/1.4)	Rs/kWh											
8	Energy Charge per unit (ex-bus) (6/1.7)												
8.1.1	Fuel 1-----	Rs/kWh											
	Total--(9)	Rs/kWh											

Note

- 1 Submit details of each primary and secondary fuel
- 2 The energy charge should be computed for open cycle operation and combined cycle operation separately in case of gas/liquid fuel fired plants.
- 3 Operational data are to be submitted for each Unit of each station separately

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

**Form G 5.2
Fuel Cost Details for Thermal Generation**

Name of the Generating Business/Company _____
 Name of the Generating Station/Unit : _____

S. No.	Particulars	Units	Previous Year (n-1)			Current Year (n)			Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)	(Projected)	(Projected)	
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Basic Cost	Rs/unit										
2	Freight	Rs/unit										
3	Freight Surcharge, if applicable	Rs/unit										
4	Fuel Handling Charges	Rs/unit										
5	Taxes and Duties (pl. specify details)	Rs/unit										
6	Any other charges	Rs/unit										
7	Total Price excluding Transit Loss	Rs/unit										
	Transit Loss	%										
	Total Price including Transit Loss	Rs/unit										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form G 6.1
Fixed assets & provisions for depreciation

Name of the Generating Business/Company _____

Name of the Generating Station : _____

Year (n-1)* (Rs Crore)

S. No.	Particular	Rate of depreciation %	Gross fixed assets				Provisions for depreciation				Net fixed assets at the beginning of the year	Net Fixed Asset at the end of the year
			At the beginning of the year	Additions during the year	Adjustment & deductions	At the end of the year	Cumulative upto the beginning of the year	Additions during the year	Adjustment during the year	Cumulative at the end of the year		
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Land & land rights											
1A	Hydraulic works											
2	Building & Civil works of Power plant											
3	Plant & machinery including sub-station equipments											
4	Communication equipment											
5	Vehicles											
6	Furniture & fixtures											
7	Office Equipments											
8	Capital spares											
9	IT Equipments											
11	Any other items											
	Total (1) to (11)											

*** Note : To be furnished separately for each year commencing from (n-1)th year to (n+3)rd year.**

Note: Name of the assets should conform to the description of the assets mentioned in the depreciation schedule under Tariff Regulations

Form G 6.2(a)
Calculation of Weighted Average Rate of Interest on Actual Loans

Name of Generating Business/Company
 Licensed Area of Supply

(Rs. Cr)

S.No.	Particulars (specify items)	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
		Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12
1	Loan 1										
i.	Gross Loan -Opening										
ii.	Cumulative repayments of Loans upto previous year										
iii.	Net loan-Opening										
iv.	Add: Drawal(s) during the Year										
v.	Less: Repayment (s) of Loans during the year										
vi.	Net loan - Closing										
vii.	Average Net Loan										
viii.	Rate of Interest on Loan on annual basis										
ix.	Interest on loan										
x.	Loan repayment effective from (date to be indicated)										
2	Loan 2										
i.	Gross Loan -Opening										
ii.	Cumulative repayments of Loans upto previous year										
iii.	Net loan-Opening										
iv.	Add: Drawal(s) during the Year										
v.	Less: Repayment (s) of Loans during the year										
vi.	Net loan - Closing										
vii.	Average Net Loan										
viii.	Rate of Interest on Loan on annual basis										
ix.	Interest on loan										
x.	Loan repayment effective from (date to be indicated)										
3	Loan 3										
...	...										
...	...										
4	Total Loan										
i.	Gross Loan -Opening										
ii.	Cumulative repayments of Loans upto previous year										
iii.	Net loan-Opening										
iv.	Add: Drawal(s) during the Year										
v.	Less: Repayment (s) of Loans during the year										
vi.	Net loan - Closing										
vii.	Average Net Loan										
viii.	Interest on Loan										
ix.	Weighted average Rate of Interest on Loans										

Note: In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form
 Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form G 6.2(b)
Calculation of Interest on Normative Loan

Name of Generating Business/ Company _____
 Licensed Area of Supply _____

(Rs. Cr)

S.No.	Particulars (specify items)	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
		Approved in Tariff Order	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12
1	Gross Normative loan - Opening										
2	Cumulative repayment of Normative Loan upto previous year										
3	Net Normative loan - Opening										
4	Increase/Decrease due to ACE/de-capitalization during the Year										
5	Repayments of Normative Loan during the year										
6	Net Normative loan - Closing										
7	Average Normative Loan										
8	Weighted average Rate of Interest of actual Loans										
9	Interest on Normative loan										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form G 6.2 (c)

Interest on Bonds to meet Terminal Liabilities

Name of Generating Business/Company _____

(Rs. Cr)

S.No.	Particulars (specify items)	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
		Approved in Tariff Order	Normative	Truing Up requirement 5 = 4 - 3	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12
A	Bond Series 1										
1	Value of Bond										
2	Rate of Interest on Bond										
3	Interest on Bond										
B	Bond Series 2										
4	Value of Bond										
5	Rate of Interest on Bond										
6	Interest on Bond										
C	Bond Series 3										
	...										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form G 6.3
Details of Project Specific Loans

Name of the Generating Business/Company : _____

Name of the Generating Station : _____

Commercial Operation Date : _____

Particulars	Year (n-1)*						Rs. Crore
	Package 1	Package 2	Package 3	Package 4	Package 5	Package 6	Package 6
1	2	3	4	5	6	7	
Source of Loan ¹							
Currency ²							
Amount of Loan sanctioned							
Amount of Gross Loan drawn upto previous year/during current/ensuing year/ COD <small>3,4,5,13,15</small>							
Interest Type ⁶							
Fixed Interest Rate, if applicable							
Base Rate, if Floating Interest ⁷							
Margin, if Floating Interest ⁸	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Are there any Caps/Floor ⁹							
If above is yes,specify caps/floor							
Moratorium Period ¹⁰							
Moratorium effective from							
Repayment Period ¹¹							
Repayment effective from							
Repayment Frequency ¹²							
Repayment Instalment ^{13,14}							
Base Exchange Rate ¹⁶							

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

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

³ Details are to be submitted as at the end of previous year for existing assets and as on COD for the remaining assets.

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

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

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

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

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

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

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

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

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

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

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

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

¹⁶ Base exchange rate means the exchange rate prevailing at the end of previous year for existing assets and as on COD for the remaining assets.

*** Note : To be furnished separately for each year commencing from (n-1)th year to (n+3)rd year.**

Name of the Generating E
 Name of the Generating S

Sr. No.	Asset Description	Ensuing Year (n+2)							Ensuing Year (n+3)						
		(Projected)							(Projected)						
		Cost	Interest	Finance Charges	Pre-Operative expenses	Exchange fluctuations	Total	Date of commissioning	Cost	Interest	Finance Charges	Pre-Operative expenses	Exchange fluctuations	Total	Date of commissioning
1	2	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Note: nth year = FY 201.

Form G 6.5

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

Name of the Generating Business/Company : _____

Name of the Power Station : _____

New Projects

Capital Cost Estimates

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

COD of last Unit/Block							

Note:

1. Copy of approval letter should be enclosed.
2. Details of Capital cost are to be furnished in relevant forms
3. Details of IDC & Financing Charges are to be furnished in relevant form

Form G 6.6
Break-up of Capital Cost for Thermal projects

Name of the Generating Business/Company: _____

Name of the Generating Station: _____

Rs. Crores.

S.No.	Break Down	Cost in Rs. Crores			Variation (Rs. Cr.)	Reasons for Variation	Admitted Cost (Rs. Cr.)
		As per original Estimates	Actual Expenditure as on COD	Liabilities/ Provisions			
1	2	3	4	5	6	7	8
1.0	Land & Site Development						
2.0	Access road						
3.0	Temporary construction and enabling works						
4	Water storage system						
5.0	Water transportation system						
6.0	Railway system						
7.0	Steam generator / Boiler Island						
8.0	Steam Turbine Generator island including taxes, duties etc.						
9.0	Balance of Plant						
9.1	Mechanical BOP						
9.1.1	Coal handling system /fuel handling system and storage						
9.1.2	Ash handling system						
9.1.3	CW System						
9.1.4	DM Plant						
9.1.5	Raw water system						
9.1.6	Effluent treatment Plant						
9.1.7	Station Piping System						
9.1.8	Fire Fighting System						
9.1.9	Compressed Air System						
9.1.10	Air Conditioning and Ventilation System						
9.1.11	Misc. items including EOT cranes, hoist and elevators etc.						
9.1.12	Tax, Duties, F&I						
9.1.13	Spares						
9.2	Electrical BOP						
9.2.1	Power Transformers						
9.2.2	Switchyard						
9.2.3	Bus Duct						
9.2.4	HT Switchgear						
9.2.5	LT Switchgear						
9.2.6	DC Power System						
9.2.7	Power and Control Cables						

Form G 6.6
Break-up of Capital Cost for Thermal projects

Name of the Generating Business/Company: _____

Name of the Generating Station: _____

Rs. Crore.

S.No.	Break Down	Cost in Rs. Crores			Variation (Rs. Cr.)	Reasons for Variation	Admitted Cost (Rs. Cr.)
		As per original Estimates	Actual Expenditure as on COD	Liabilities/Provisions			
1	2	3	4	5	6	7	8
9.2.8	Control and Relay Panels						
9.2.9	Station Lighting						
9.2.10	DG Set						
9.2.11	Electrical equipment erection, cabling and grounding						
9.2.12	Other Misc. items						
9.2.13	Taxes, Duties and F&I						
9.2.14	ETC and spares						
9.3	Total BOP Civil Works						
9.3.1	Main Power house building						
9.3.2	Plant water system						
9.3.3	Chimney						
9.3.4	Permanent Township						
9.3.5	Ash dyke						
9.3.6	Misc. plant buildings						
9.3.7	Temporary sheds						
10.0	Control and Instrumentation						
11.0	Operator Training						
12.0	Start up fuel						
13.0	Construction insurance						
14.0	Special T&P						
15.0	Total Cost of Works (sum of items 1 to 15 above)						
16.0	Overheads						
16.1	Development Expenses						
16.2	Legal Expenses						
16.3	Establishment/Construction supervision						
16.4	Consultancy and Engineering						
16.5	Audit and Account						
16.6	Contingency						
16.7	Sub-total of Item 16						
17.0	Capital cost excluding IDC & FC						
18	Interest During Construction (IDC)						
19	Financing Charges (FC)						
20.0	Capital cost including IDC & FC						
21	Cost per MW						
Note:							
1. Above list is illustrative							
2. In case of time & Cost over run, a detailed note giving reasons of such time and cost over run should be submitted clearly bring out the agency responsible and whether such time & cost over run was beyond the control of the generating company.							

Form G 6.7

Break-up of Construction/ Supply/ Service packages

Name of the Generating Business/Company : _____

Name of the Generating Station : _____

S.No.	Name/No. of Construction/ Supply/ Service Package	Scope of works ¹ (in line with head of cost break-ups as applicable)	Whether awarded through ICB/DCB/ Departmentally/ Deposit Work	No. of bids received	Date of Award	Date of Start of work	Date of Completion of Work	Value of Award ² in (Rs. Cr.)	Firm or With Escalation in prices	Actual expenditure till the completion or up to COD whichever is earlier(Rs.Cr.)	Taxes & Duties and Pre-operative Expenses	IDC, FC, FERV & Hedging cost	Variation (Rs.Cr.)	Variation on account of change in Price (Rs. Cr.)	Reason for change in Price	Variation on account of change in Scope of Work (Rs. Cr.)	Reason for Change in Scope of Work
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	
31																	
32																	

¹ The scope of work in any package should be indicated in conformity of Capital cost break-up for the coal/lignite based plants to the extent possible. In case of Gas/Liquid fuel based projects, break down in the similar manner in the relevant heads.

² 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 e.g. Rs.80 Cr+US\$50m=Rs.280Cr at US\$=Rs40 as on say 4.1.1999.

Form G 6.8
Draw Down Schedule for Calculation of IDC & Financing Charges (year wise from commencement of works to COD)

Name of the Generating Business/Company: _____
 Name of the Generating Station : _____

Rs. Crore

S.No.	Draw Down Particulars	Quarter 1			Quarter 2			Quarter 3			Quarter 4		
		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	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Loans												
1.1	Foreign Loans												
1.1.1	Foreign Loan 1												
	Draw down Amount												
	IDC												
	Financing charges												
1.1.2	Foreign Loan 2												
	Draw down Amount												
	IDC												
	Financing charges												
1.1.3	Foreign Loan 3												
	Draw down Amount												
	IDC												
	Financing charges												
1.1.4	--												
	--												
	--												
1.1	Total Foreign Loans												
	Draw down Amount												
	IDC												
	Financing charges												

Form G 6.8
Draw Down Schedule for Calculation of IDC & Financing Charges (year wise from commencement of works to COD)

Name of the Generating Business/Company: _____
 Name of the Generating Station : _____

Rs. Crore

S.No.	Draw Down Particulars	Quarter 1			Quarter 2			Quarter 3			Quarter 4		
		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	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.2	Indian Loans												
1.2.1	Indian Loan 1												
	Draw down Amount	--	--		--	--		--	--		--	--	
	IDC	--	--		--	--		--	--		--	--	
	Financing charges	--	--		--	--		--	--		--	--	
1.2.2	Indian Loan 2												
	Draw down Amount	--	--		--	--		--	--		--	--	
	IDC	--	--		--	--		--	--		--	--	
	Financing charges	--	--		--	--		--	--		--	--	
1.2.3	Indian Loan 3												
	Draw down Amount	--	--		--	--		--	--		--	--	
	IDC	--	--		--	--		--	--		--	--	
	Financing charges	--	--		--	--		--	--		--	--	
1.2.4	--	--	--		--	--		--	--		--	--	
	--	--	--		--	--		--	--		--	--	
	--	--	--		--	--		--	--		--	--	
1.2	Total Indian Loans												
	Draw down Amount	--	--		--	--		--	--		--	--	
	IDC	--	--		--	--		--	--		--	--	
	Financing charges	--	--		--	--		--	--		--	--	
1	Total of Loans drawn												
	IDC												
	Financing charges												
2	Equity												
2.1	Foreign equity drawn												
2.2	Indian equity drawn	--	--		--	--		--	--		--	--	
	Total equity deployed												

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

Form G 6.9
Return on Equity/Return on Net Fixed Assets

Name of the Generating Business/Company: _____
Name of the Generating Station : _____

Rs. Crore													
S.No.	Particulars	Reference	Previous Year (n-1)				Current Year (n)			Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Approved in Tariff Order	Audited	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)	(Projected)	(Projected)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Equity at the beginning of the year												
2	Capitalisation												
3	Equity portion of capitalisation												
4	Equity at the end of the year												
Return Computation													
5	Return on Equity at the beginning of the year	14%*(1)											
6	Return on Equity portion of capitalisation (on pro-rata basis)	14%*(3)/2											
7	Total Return on Equity	(5)+(6)											

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form G 6.11
Interest on Working Capital

Name of the Generating Business/Company _____
Name of the Generating Station : _____

Rs. Crore

S. No.	Particulars	Previous Year (n-1)				Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
		Approved in Tariff Order	Audited	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Fuel cost (as per norms)											
2	Liquid fuel stock (as per norms)											
3	O & M expenses (as per norms)											
4	Maintenance Spares (as per norms)											
5	Receivables (as per norms)											
	Total Working Capital											
	Rate of Interest (as per norms)											
	Interest on Working Capital											

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

**Form G 6.12
Tax on ROE**

Name of the Generating Business/Company: -----
Name of the Generating Station : -----

Rs.

S. No.	Particulars	Previous Year (n-1)			Current Year (n)	Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
		Approved in Tariff Order	Audited	Truing Up requirement	Actual/ Estimated	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10
A)	Advance Tax assessed & deposited on								
a)	for Quarter I & deposited on 15 th June.								
b)	for Quarter II & deposited on 15 th Sept.								
c)	for Quarter III & deposited on 15 th Dec.								
d)	for Quarter IV & deposited on 15 th March.								
	Total---(A)								

Note:- Tax calculated should be only for the generation business and should not include income from any other income stream like efficiency gain & incentive etc.

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

**Form G 6.13
Inflow Review (Water Year)**

Name of the Generating Business/Company:

Rs. Crore

Sr. No.	Year	June	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1993-94													
2	1994-95													
3	1995-96													
4	1996-97													
5	1997-98													
6	1998-99													
7	1999-00													
8	2000-01													
9	2001-02													
10	2002-03													
11	2003-04													
12	2004-05													
13	2005-06													
14	2006-07													
15	2007-08													
16	2008-09													
17	2009-10													
18	2010-11													
19	2011-12													
20	2012-13													
21													
22													
23													
	Average													

Form G 6.14
Month wise inflow in MM³

Name of the Generating Business/Company:

Name of the Hydro Generating Station :

														Rs. Crore		
Sr. No.	Month	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	(n-1)	Current Year(n)	Ensuing Year (n+1)	Average
1	2	3	4	5	6	7	8	9	10	11	12	...	14	15	16	17
1	June															
2	July															
3	Aug															
4	Sep															
5	Oct															
6	Nov															
7	Dec															
8	Jan															
9	Feb															
10	Mar															
11	Apr															
12	May															
	Average															

Form G 7.1
Proposed improvement in performance

Name of the Generating Business/Company _____

Name of the Generating Station : _____

Rs. Crore

S.No.	Particulars	Previous Year (n-1)				Current year			MYT Control Period			Remarks	
		n				n			n+1	n+2	n+3		
		Approved in Tariff Order	Audited	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)				
1	2	3	4	5	6	7	8	9	10	11	12	13	
1	Plant load factor (%)												
2	Auxiliary consumption (%)												
3	Specific fuel consumption												
(i)	coal, kg / kWh												
(ii)	gas, SCM / kWh												
(iii)	oil, ml / kWh												
(iv)	Limestone kg / kWh												
(v)	any other fuel												
4	Station heat rate, (kcal / kWh)												
5	Annual Maintenance shut down days												
6	Forced / planned shut down except annual shut down												
(i)	number / year												
(ii)	cumulative duration, hours / year												
7	Fly ash utilisation, %												
8	Other by-product utilisation(give list)												
9	Outstanding dues, days of receivables												
10	Availability												

Note:-1. Remarks to indicate manner in which performance parameters reflected in the tariff proposal

2.list is illustrative

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form G 8

Deviation Analysis

Name of Generation Business/Company _____

Year (n-1)

(Rs. Crore)

S. No.	Particulars	Approved	Actual	Deviation	Reason for Deviation	Controllable	Uncontrollable
1	2	3	4	5	6	7	8
A	Expenditure						
1	Variable Costs, including Fuel Cost						
2	Depreciation						
3	Interest on term Loan & Finance charges						
4	Return on Equity						
5	Tax on ROE						
6	Interest on Working Capital						
7	O & M Expenses						
9	Any other item (to be specified)						
	Total (A) Expenditure						
B	Receipts						
1	Revenue from Sale of Power (Tariff income)						
2	Non Tariff income						
3	Revenue Subsidies, Grants & Subvention from State Govt.						

Note: Please give detailed explanation separately for the deviations on account of uncontrollable factors

Form G P&L

Profit & Loss Account

Name of Generation Business/Company _____

S.No.	Particulars	Ref	Previous Year	Previous Year	Remarks
			(n-1)	(n-2)	
1	2	3	4	5	6
	I.INCOME				
	a. Revenue from Sale of Power				
	b. Revenue Subsidies and Grants				
	c. Other Income				
	Total (a+b+c)				
	II. EXPENDITURE				
	a. Repairs and Maintenance.				
	b. Employee Cost				
	c. Administration and General Expenses				
	d. Depreciation				
	e. Interest and Finance charges				
	f. Subtotal (a+b+c+d+e)				
	g. Less Capitalised Expenses:				
	- Interest & Finance Charges				
	- Other Expenses				
	h. Other Debits				
	I. Extra Ordinary Items				
	j. Fuel cost				
	Total Expenditure (f-g+h+i+j)				
	III. Profit/(Loss) before Tax (I-II)				
	IV. Provision for Income Tax				
	V. Net Prior period credits (Charges)				
	VI. Surplus (Deficit)				
	VII. Net Assets at the beginning of the year (Less consumer's Contribution)				
	VIII. Rate of Return (VI/ VII)				

Note: Reconciliation between audited accounts and amounts for generation business should be furnished.

Form G BS

Balance Sheet at the end of the year

Name of Generation Business/Company _____

S.No.	Particulars	Ref	Previous Year	Previous Year	Remarks
			(n-1)	(n-2)	
1	2	3	4	5	6
	Sources of Funds:				
	(A)Capital Funds:				
	Share Capital (Govt. equity)				
	Reserves & Surplus				
	Total (A)				
	(B) Loan from State Government				
	Loan from others :				
	-Secured				
	-Unsecured				
	Total (B)				
	(C) Contribution, grants & subsidies towards cost of capital assets				
	Provident Fund				
	Terminal Benefit Fund				
	Borrowings for working capital				
	Grand total of sources of funds (A+B+C)				
	*Application of Funds:				
	A) Fixed assets				
	a) Gross fixed assets				
	b) Less accumulated depreciation				
	c) Net Fixed assets((a)-(b))				
	d) Capital works in progress				
	e) Assets not in use				
	f) Deferred costs				
	g) Intangible assets				
	h) Investments				
	Total (c) +(d)+(e)+(f)+(g)+(h)				

	B)Subsidy receivable from Government				
	Contribution receivable from State Government towards pension liability				
	C) Net Current Assets				
	(1) Current assets, loans and advances				
	a) Inventories*				
	b) Receivables against Sale of Power				
	c) Cash & bank balances				
	d) Loans and advances				
	e) Sundry receivables				
	Total (C)(1)				
	(2) Current liabilities & provisions				
	a) Borrowings for working capital				
	b) Payments due on Cap. liabilities				
	c) Other current liabilities				
	Total (C)(2)				
	Net Current Assets (C) [(C(1)) - (C(2))]				
	Grand Total of Application of funds (A)+(B)+(C)				

Note: For the projection of current assets and current liabilities, working sheets showing the calculations along with assumptions upon which they are based should be furnished

Note: Reconciliation between audited accounts and amounts for generation business should be furnished.

Form G CF

Cash Flow for the year

Name of Generation Business/Company _____

S.No.	Particulars	Ref	Previous Year (n-1)	Previous Year (n-2)	Remarks
1	2	3	4	5	6
I	Net Funds from Operations				
1a	Net Funds from Earnings :				
	a) Profit before tax and before revenue subsidies and grants				
	Less : Income Tax Payment during the year				
	Total of (a)				
	b. Add: Debits to rev. account not requiring cash Flow:				
	I) Depreciation				
	ii) Amortisation of Deferred costs				
	iii) Amortisation of Intangible Assets				
	iv) Investment Allowance Reserve				
	v) Others, if any				
	Total of (b)				
	c. Less : Credits to revenue Account not involving cash receipts				
	I) Deprecation				
	ii) Subsidies receivables				
	iii) Revenue gap				
	Total of (c)				
	Net Funds from Earnings (a)+(b)-(c)				
2	Contributions, Grants & Subsidies to cost of Capital Assets				
3	Proceeds from disposal of fixed Assets				
4	Total Funds from Operations (1+2+3)				
6	Net Increase/(Decrease) in working Capital				
	(a) Increase/(Decrease) in Current Assets				
	I) Inventories				
	ii) Receivables against sale of power				

	iii) Loans and Advances				
	iv) Sundry receivables				
	v) Subsidy receivables				
	Total of (a)				
	(b) Increase/(Decrease) in Current liabilities				
	i) Borrowings for working Capital				
	ii) Other current liabilities				
	iii) Others (Increase in Reserve + payment due on cap.liab)				
	Total of (b)				
	Net Increase/(Decrease) in working Capital (a) - (b)				
7	Net Funds from operations before subsidies and Grants (5-6)				
8	Receipts from revenue subsidies and Grants				
	Total Net Funds from operations including subsidies & Grants (7+8)				
II.	Net increase/ decrease in Capital liabilities				
	a). Fresh borrowings				
	i) State Loans				
	ii) Foreign currency Loans / Credits				
	iii) Other borrowings				
	Total of (a)				
	b) Repayments :				
	i) State Loans				
	ii) Foreign currency Loans / Credits				
	iii) Other borrowings				
	Total of (b)				
	Net Increase/(Decrease) in Capital liabilities (a) - (b)				
III.	Increase/(Decrease) in equity Capital				
IV.	Total Funds available for Capital Expenditure (I+II+III)				
V	Funds utilised on Capital Expenditure				
	a) On projects				
	b) Advance to Suppliers & Contractors				
	c) Intangible Assets				
	d) Deferred Cost				
	Total of V (a+b+c+d)				
VI	Net Increase/(Decrease) in Government contribution				
VII	Net Increase/(Decrease) in Terminal benefit fund				
VIII	Net Increase/(Decrease) in Provident fund				
IX	Net Increase/(Decrease) in investments				
X	Net Increase/(Decrease) in cash / bank balance (IV - V- VI)				
XI	Add opening cash & Bank balance				
XII	Closing Cash & Bank balance (VII+VIII)				

Note: Reconciliation between audited accounts and amounts for generation business should be furnished.

**ARR and Tariff Formats
Transmission Business
INDEX**

S.No.	Form No.	Particulars
1	2	3
1	Form T 1	Summary of Aggregate Revenue Requirement
2	Form T 2	Operation and Maintenance Expenses
3	Form T 2(a)	Employee Expenses
4	Form T 2(b)	Administrative & General Expenses
5	Form T 2(c)	Repair & Maintenance Expenses
6	Form T 3	Fixed assets & Depreciation
7	Form T 4(a)	Calculation of Weighted Average Rate of Interest on Actual Loans
8	Form T4(b)	Calculation of Interest on Normative Loan
9	Form T 5	Interest on working capital requirement
10	Form T 6	Other items (Other debits or any other items)
11	Form T 7	Return on Equity/Return on Net Fixed Assets
12	Form T 8	Income Tax Provisions
13	Form T 9	Revenue at Existing Transmission Tariff
14	Form T 10	Non-tariff Income
15	Form T 11	Expected Revenue at Proposed Transmission Tariff
16	Form T 12	Revenue Subsidy and Grant
17	Form T 13	Consumer Contribution, Capital Subsidy and Grant
18	Form T 14	Proposed improvement in performance
19	Form T 15	Transmission Losses
20	Form T 16	Forecast of Electricity Transmitted (MU)
21	Form T17	Deviation Analysis

Other Information/Documents		
1	Form T P&L	Profit & Loss Account
2	Form T BS	Balance Sheet at the end of the year
3	Form T CF	Cash Flow for the year
4. Corporate audited/ unaudited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the relevant years.		

Note : Spread sheet financial models (in CD) shall also be submitted along with the application.

Form T 1

Summary of Aggregate Revenue Requirement

Name of Transmission Business/Licensee _____

Rs. Crore

S. No.	Particulars	Reference Form No.	Previous Year				Current year			Ensuing Year	Year	Year	Remarks	
			(n-1)				n			n+1	n+2	n+3		
			Approved in Tariff Order	Audited	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1	Operation & Maintenance Expenses	Form T 2												
2	Interest and finance charges on long-term loans	Form T4(b)												
3	Interest on Bonds to meet Terminal Liabilities	Form T4 (c)												
4	Depreciation	Form T 3												
5	Interest on Working Capital and deposits from Users of the transmission system	Form T 5												
6	Contribution to contingency reserves													
7	Other items													
8	Adjustment for profit/loss on account controllable/uncontrollable factors													
9	Other items	Form T 6												
10	Total Revenue Expenditure													
11	Return on Equity	Form T 7												
12	Tax on RoE	Form T 8												
13	Aggregate Revenue Requirement (9+10+11)													
14	Less: Non Tariff Income	Form T 10												
14	Less: Revenue from Short Term/Medium Term Open Access													
15	Less: Income from Other Business													
16	Aggregate Revenue Requirement from Transmission Tariff													

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form T 2

Operation and Maintenance Expenses

Name of Transmission Business/Licensee _____

S. No.	Particular	Previous Year				Current Year			Ensuing Year	Year	Year	Remarks	
		(n-1)				n			(n+1)	(n+2)	(n+3)		
		Approved in Tariff Order	Audited	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected		
1	2	4	5	6	7	8	9	10	11	12	13	14	
1	Bay Basis												
a	Op. Balance of no. of Bays												
b	Addition of no. of Bays during year												
c	Deletion of no. of Bay during year												
d	Cl. Balance of no. of Bays												
e	Average no. of Bays during Year												
f	Applicable O&M cost Norm for Bay :- Rs _____Lakh/Bay												
A	O&M Expense per Bay, Rs L												
2	ckt-km Basis												
a	Op. Balance of ckt-km												
b	Addition of ckt-km during year												
c	Deletion of ckt-km during year												
d	Cl. Balance of ckt-km												
e	Average ckt-km during Year												
f	Applicable O&M cost Norm - Rs _____ Lakh / ckt- km												
B	O&M Expense Rs. Lakh												
3	Total O&M Expenses (as per norms) (A+B)												
4	Total O&M Expenses (actual)	T 2(a), T 2(b), T 2(c)											

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form T 2(a)

Employee Expenses

Name of Transmission Business/Licensee

Rs. Crore

S. No.	Particulars	Reference	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Approved in Tariff Order	Audited	Truing Up requirement 6 = 5 - 4	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Basic Salary											
2	Dearness Allowance (DA)											
3	House Rent Allowance											
4	Conveyance Allowance											
5	Leave Travel Allowance											
6	Earned Leave Encashment											
7	Other Allowances											
8	Medical Reimbursement											
9	Overtime Payment											
10	Bonus/ Ex-Gratia Payments											
11	Interim Relief / Wage Revision											
12	Staff welfare expenses											
13	VRS Expenses/ Retrenchment Compensation											
14	Commission to Directors											
15	Training Expenses											
16	Payment under Workmen's Compensation Act											
17	Net Employee Costs											
18	Terminal Benefits											
18.1	Provident Fund Contribution											
18.2	Provision for PF Fund											
18.3	Pension Payments											
18.4	Gratuity Payment											
18.5	Annual Contribution for Terminal Liabilities based on actuarial valuation											
19	Others											
20	Gross Employee Expenses											
21	Less: Expenses Capitalised											
22	Net Employee Expenses											

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form T 2(b)

Administrative & General Expenses

Name of Transmission Business/Licensee

Rs. Crore

S. No.	Particulars	Reference	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Rent Rates & Taxes											
2	Insurance											
3	Telephone & Postage, etc.											
4	Legal charges											
5	Audit Fees											
6	Consultancy charges											
7	Other Professional charges											
8	Conveyance											
9	Vehicle Running Expenses Truck / Delivery Van											
10	Vehicle Hiring Expenses Truck / Delivery Van											
11	Electricity charges											
12	Water charges											
13	Entertainment											
14	Fees & subscription											
15	Printing & Stationery											
16	Advertisements, exhibition publicity											
17	Contribution/Donations											
18	Training expenses											
19	Miscellaneous Expenses											
20	DSM activities											
21	SRPC expenses											
22	Sports and related activities											
23	Freight											
24	Purchase Related Advertisement Expenses											
25	Bank Charges											
26	Office Expenses											
27	License Fee and other related fee											
28	Cost of services procured											
29	Outsourcing of metering and billing system											
30	V-sat, Internet and related charges											
31	Security arrangements											
32	Books & periodicals											
33	Computer Stationery											
34	Others											
35	Gross A&G Expenses											
36	Ele. Duty u/s 3(I), KED Act											
37	Less: Expenses Capitalised											
38	Net A&G Expenses											

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form T 2(c)

Repair & Maintenance Expenses

Name of Transmission Business/Licensee

Rs. Crore

S. No.	Particulars	Reference	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Plant & Machinery											
2	Buildings											
3	Civil Works											
4	Hydraulic Works											
5	Lines & Cable Networks											
6	Vehicles											
7	Furniture & Fixtures											
8	Office Equipment											
9	Gross R&M Expenses											
10	Less: Expenses Capitalised											
11	Net R&M Expenses											

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form T 3

Fixed assets & Depreciation

Name of Transmission Business/Licensee _____
 Year (n-1)* _____

S.No.	Assets Group (as per notification in respect of depreciation)	Rate of depreciation	Gross fixed assets				Provisions for depreciation				Rs. Crore	
			At the beginning of the year	Additions during the year	Adjustment & deductions	At the end of the year	Cumulative upto the beginning of year	Additions during the year	Adjustment during the year	Cumulative at the end of year	Net fixed assets at the beginning of the year	Net fixed assets at the end of the year
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Land & land rights											
2	Other Civil works											
3	EHV											
a)	Transmission lines											
b)	Sub-station equipments											
i)	Transformers											
ii)	Switchgeares, Control gear & Proteciton											
iii)	Batteries											
iv)	Others											
4	HV & LT											
a)	Transmission lines											
b)	Sub-station equipments											
i)	Transformers											
ii)	Switchgeares, Control gear & Proteciton											
iii)	Batteries											
iv)	Others											
5	Communication equipment											
6	Meters											
7	Vehicles											
8	Furniture & fixtures											
9	Office Equipments											
10	Assets of Partnership projects etc.											
11	Capital spares of											
a)	EHV transmission											
b)	HV & LT transmissison											
12	Assets taken over & pending final valuation											
13	IT equipments											
14	Any other items											
15	Gross Asset (Total (1) to (14))											
16	Less: Consumer contribution											
17	Less: Government grants											
18	Less: Deposit Works											
19	Less: Capital Subsidies											
20	Net Asset considered for depreciation (15-16-17-18-19)											

- Note:-** 1 This statement is to be furnished separately for each of 3 years (i.e. previous year, current year, ensuring year & subsequent years of the Control Period)
 2. The figures at the beginning of the year & that at the end of previous year will be the same
 3. The write off of depreciated price of unserviceable assets & assets not in use lost/damaged in natural or assets sold or ocast of buy back of assetsare to be included in this schedule.

Form T 4(a)

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of Transmission Business/Licensee _____
Licensed Area of Supply _____

(Rs. Cr)

S.No	Particulars (specify items)	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
		Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Loan 1										
i.	Gross Loan -Opening										
ii.	Cumulative repayments of Loans upto previous year										
iii.	Net loan-Opening										
iv.	Add: Drawal(s) during the Year										
v.	Less: Repayment (s) of Loans during the year										
vi.	Net loan - Closing										
vii.	Average Net Loan										
viii.	Rate of Interest on Loan on annual basis										
ix.	Interest on loan										
x.	Loan repayment effective from (date to be indicated)										
2	Loan 2										
i.	Gross Loan -Opening										
ii.	Cumulative repayments of Loans upto previous year										
iii.	Net loan-Opening										
iv.	Add: Drawal(s) during the Year										
v.	Less: Repayment (s) of Loans during the year										
vi.	Net loan - Closing										
vii.	Average Net Loan										
viii.	Rate of Interest on Loan on annual basis										
ix.	Interest on loan										
x.	Loan repayment effective from (date to be indicated)										
3	Loan 3										
..	...										
..	...										
4	Total Loan										
i.	Gross Loan -Opening										
ii.	Cumulative repayments of Loans upto previous year										
iii.	Net loan-Opening										
iv.	Add: Drawal(s) during the Year										
v.	Less: Repayment (s) of Loans during the year										
vi.	Net loan - Closing										
vii.	Average Net Loan										
viii.	Interest on Loan										
ix.	Weighted average Rate of Interest on Loans										

Note: In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form
 Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form T4(b)

Calculation of Interest on Normative Loan

Name of Transmission Business/Licensee _____
 Licensed Area of Supply _____

(Rs. Cr)

S.No	Particulars (specify items)	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
		Approved in Tariff Order	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Gross Normative loan - Opening										
2	Cumulative repayment of Normative Loan upto previous year										
3	Net Normative loan - Opening										
4	Increase/Decrease due to ACE/de-capitalization during the Year										
5	Repayments of Normative Loan during the year										
6	Net Normative loan - Closing										
7	Average Normative Loan										
8	Weighted average Rate of Interest of actual Loans										
9	Interest on Normative loan										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form T4(c)

Interest on Bonds to meet Terminal Liabilities

Name of Transmission Business/Licensee _____

Licensed Area of Supply _____

(Rs. Cr)

S.No	Particulars (specify items)	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
		Approved in Tariff Order	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12
A	Bond Series 1										
1	Value of Bond										
2	Rate of Interest on Bond										
3	Interest on Bond										
B	Bond Series 2										
4	Value of Bond										
5	Rate of Interest on Bond										
6	Interest on Bond										
C	Bond Series 3										
	...										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form T 5

Interest on working capital requirement

Name of Transmission Business/Licensee _____

Rs. Crore

Sl. No.	Particulars	Previous Year				Current year			Ensuing Year	Year	Year	Remarks	
		(n-1)				n			n+1	n+2	n+3		
		Approved in Tariff Order	Audited	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected		
1	2	3	4	5	6	7	8	9	10	11	12	13	
1	O&M expenses (as per norms)												
2	Maintenance Spares (as per norms)												
3	Receivables calculated on target availability (as per norms)												
	Less												
4	Amount, if any, held as security deposits except security deposits held in the form of Bank Guarantees from Users of the transmission system												
5	Total Working Capital												
6	Interest Rate (as per norms)												
7	Interest on Working Capital												

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form T 6

Other items (Other debits or any other items)

Name of Transmission Business/Licensee _____

Rs. Crore

S. No.	Particulars (specify items)	Previous Year			Current year			Ensuing Year	Year	Year	Remarks
		(n-1)			n			n+1	n+2	n+3	
		Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12
A 1											
2											
3											
	Total										
	Less										
B	Chargeable to Capital Expenses										
	Net chargeable to revenue(A-B)										

Note:- This form can be used for any other item not covered under specified forms

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form T 7

Return on Equity/Return on Net Fixed Assets

Name of Transmission Business/Licensee _____

Rs. Crore

S.No.	Particulars	Ref.	Previous Year				Current year			Ensuing Year	Year	Year	Remarks	
			(n-1)				n			n+1	n+2	n+3		
			Approved in Tariff Order	Audited	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1	Equity at the beginning of the year													
2	Capitalisation													
3	Equity portion of capitalisation													
4	Equity at the end of the year													
	Return Computation													
5	Return on Equity at the beginning of the year	14%*(1)												
6	Return on Equity portion of capitalisation	14%*(3)/2												
7	Total Return on Equity	(5)+(6)												

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form T 8

Income Tax Provisions

Name of Transmission Business/Licensee _____

Rs. Crore

S. No.	Particulars	Previous Year			Current year			Ensuing Year	Year	Year	Remarks	
		(n-1)			n			n+1	n+2	n+3		
		Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected		
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12	
(A)	Advance Tax assessed & deposited on ...											
a)	for Quarter I & deposited on 15th June											
b)	for Quarter II & deposited on 15th September											
c)	for Quarter III & deposited on 15th December											
d)	for Quarter IV & deposited on 15th March											
	Total (A)											

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form T 9

Revenue at Existing Transmission Tariff

Name of Transmission Business/Licensee _____

Year (n-1)*

S. No	Category	Amount of Energy Transmitted (specify unit)	Transmission Tariff			Revenue from Transmission charges (Rs. Cr.)			
			Capacity based Charge (Specify part name and unit)	Energy based charge, (Specify unit)	Any other charge (Specify part name and unit)	Capacity based Charges	Energy based Charges	Any other charge (Please specify)	Total
1	2	3	4	5	6	7	8	9	10
1	Long Term Open Access								
A	Distribution Licensees								
	Discom 1								
	Discom 2								
	Discom 3								
	...								
	sub-total								
B	Traders								
	Trader 1								
	Trader 2								
	Trader 3								
								
	sub-total								
C	Consumers								
	Consumer 1								
	Consumer 2								
	Consumer 3								
								
	sub-total								
2	Short Term Open Access								
	Consumer 1								
	Consumer 2								
	Consumer 3								
								
	sub-total								
	Total								

* Note : To be furnished separately for each year commencing from (n-1)th year to (n+3)th year.

Form T 10

Non-tariff Income

Name of Transmission Business/Licensee _____

Rs. Crore

S.No	Particulars	Previous Year			Current year			Ensuing Year	Year	Year	Remarks
		(n-1)			n			n+1	n+2	n+3	
		Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12
	Non Tariff Income										
1	Interest on staff loans and advances										
2	Income from statutory investments										
3	Income from rent of land or buildings										
4	Income from sale of scrap										
5	Income from staff welfare activities										
6	Rental from staff quarters										
7	Excess found on physical verification										
8	Interest on investments, fixed and call deposits and bank balances										
9	Interest on advances to suppliers/contractors										
10	Income from hire charges from contractors and others										
11	Income due to right of way granted for paying fibre optic cables/co-axial cables on transmission system										
12	Income from advertisements, etc.										
13	Miscellaneous receipts										
14	Interest on delayed or deferred payment of bills										
	...										
	Total Non-Tariff Income										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form T 11

Expected Revenue at Proposed Transmission Tariff

Name of Transmission Business/Licensee _____
 Year (n-1)*

S. No	Category	Amount of Energy transmitted (specify unit)	Transmission Tariff			Revenue from Transmission charges (Rs. Cr.)			
			Capacity based Charge (Specify part name and unit)	Energy based charge, (Specify unit)	Any other charge (Specify part name and unit)	Capacity based Charge	Energy based Charge	Any other charge (Please specify)	Total
1	2	3	4	5	6	7	8	9	10
1	Long term open access								
A	Distribution Licensees								
	Discom 1								
	Discom 2								
	Discom 3								
								
	sub-total								
B	Traders								
	Trader 1								
	Trader 2								
	Trader 3								
								
	sub-total								
C	Consumers								
	Consumer 1								
	Consumer 2								
	Consumer 3								
								
	sub-total								
2	Short term open access								
	Consumer 1								
	Consumer 2								
	Consumer 3								
								
	sub-total								
	Total								

* Note : To be furnished separately for each year commencing from (n-1)th year to (n+3)th year.

Form T 12

Revenue Subsidy and Grant

Name of Transmission Business/Licensee _____

Rs. Crore

S.No	Particulars	Previous Year			Current year			Ensuing Year	Year	Year	Remarks
		(n-1)			n			n+1	n+2	n+3	
		Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12
	Revenue Subsidies & Grants										
1	Subvention from the State Government										
2	The State Govt. Grant										
3	Any Other item										
	Total										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form T 13

Consumer Contribution, Capital Subsidy and Grant

Name of Transmission Business/Licensee _____

Rs. Crore

S. No.	Particulars	Previous Year			Current year			Ensuing Year	Year	Year	Remarks
		(n-1)			n			n+1	n+2	n+3	
		Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12
1	Consumer's Contribution for service connection lines and associated wiring										
2	Any other Contribution by consumers or for consumers under any scheme.										
a)											
b)											
c)											
3	Sub-Total										
4	Subsidies towards cost of Capital Asset										
5	Grant towards cost of Capital Assets										
6	Amount received from State Govt. under any scheme as grant /subsidy										
7	Total										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form T 14

Proposed improvement in performance

Name of Transmission Business/Licensee

S.No.	Paritculars	Performance parameters					Remarks
		Actual for the previous year	Current year	Ensuing Year	Year	Year	
		n-1	n	n+1	n+2	n+3	
1	2	3	4	5	6	7	8
1	EHV Trransmission losses						
2	System availability						
a)	400 kV System						
b)	220 kV System						
c)	132 kV System						
d)	66 kV System						
e)	33 kV System						
	Total System Availability						

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form T 15

Transmission Losses

Name of Transmission Business/Licensee _____
 Year (n-1)* _____

S.no.	Particulars	Unit	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Energy input into the system											
(a)	Energy from the sources Inside the State (T-G interface)	MU										
(b)	Energy from the sources outside the State (State Periphery)	MU										
(c)	Total (a)+(b)	MU										
2	Energy transmitted to Discoms (including their direct EHT consumers being fed from Grid SS)	MU										
3	Energy transmitted to open access consumers	MU										
4	Energy transmitted for inter-state sale	MU										
5	Intra-State transmission losses (1(c)-(2+3+4)/1(c))											

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form T 16

Forecast of Electricity Transmitted (MU)

Name of Transmission Business/Licensee

S. No.	Category	Previous Year			Current Year	Ensuing Year	Year	Year	Remarks
		(n-1)			(n)	(n+1)	(n+2)	(n+3)	
		Approved in Tariff Order	Audited	Truing Up requirement	Estimated	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10
1	Distribution Licensees								
	Discom 1								
	Discom 2								
	Discom 3								
	...								
	sub-total								
2	Traders								
	Trader 1								
	Trader 2								
	Trader 3								
								
	sub-total								
3	Consumers								
	Consumer 1								
	Consumer 2								
	Consumer 3								
								
	sub-total								
	Total								

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form T 17

Deviation Analysis

Name of Transmission Business/Licensee _____
 Licensed Area of Supply _____

Year (n-1)

(Rs. Crore)

S. No.	Particulars	Approved	Actual	Deviation	Reason for Deviation	Controllable	Uncontrollable
1	2	3	4	5	6	7	8
1	Operation & Maintenance Expenses						
2	Interest and finance charges on long-term loans						
3	Interest on Bonds to meet Terminal Liabilities						
4	Depreciation						
5	Interest on Working Capital and deposits from Users						
6	Contribution to contingency reserves						
7	Other items						
8	Adjustment for profit/loss on account						
9	Other items						
10	Total Revenue Expenditure						
11	Return on Equity						
12	Tax on RoE						
13	Aggregate Revenue Requirement (9+10+11)						
D	Revenue						
1	Revenue from sale of electricity						
2	Less: Non Tariff Income						
3	Less: Revenue from Short Term/Medium Term Open Access						
4	Less: Income from Other Business						

Note: Please give detailed explanation separately for the deviations on account of uncontrollable factors

Form T P&L

Profit & Loss Account

Name of Transmission Business/Licensee _____

S.No.	Particulars	Ref	Previous Year	Previous Year	Remarks
			(n-1)	(n-2)	
1	2	3	4	5	6
	I. INCOME				
	a. Revenue from Sale of Power				
	b. Revenue Subsidies and Grants				
	c. Other Income				
	Total (a+b+c)				
	II. EXPENDITURE				
	a. Repairs and Maintenance.				
	b. Employee Cost				
	c. Administration and General Expenses				
	d. Depreciation				
	e. Interest and Finance charges				
	f. Subtotal (a+b+c+d+e)				
	g. Less Capitalised Expenses:				
	- Interest & Finance Charges				
	- Other Expenses				
	h. Other Debits				
	I. Extra Ordinary Items				
	Total Expenditure (f-g+h+i)				
	III. Profit/(Loss) before Tax (I-II)				
	IV. Provision for Income Tax				
	V. Net Prior period credits (Charges)				
	VI. Surplus (Deficit)				
	VII. Net Assets at the beginning of the year (Less consumer's Contribution)				
	VIII. Rate of Return (VI / VII)				

Note: Reconciliation between audited accounts and amounts for transmission business should be furnished.

Form T BS

Balance Sheet at the end of the year

Name of Transmission Business/Licensee _____

S.No.	Particulars	Ref	Previous Year	Previous Year	Remarks
			(n-1)	(n-2)	
1	2	3	4	5	6
	Sources of Funds:				
	(A) Capital Funds:				
	Share Capital (Govt. equity)				
	Reserves & Surplus				
	Total (A)				
	(B) Loan from State Government				
	Loan from others :				
	-Secured				
	-Unsecured				
	Total (B)				
	(C) Contribution, grants & subsidies towards cost of capital assets				
	Provident Fund				
	Terminal Benefit Fund				
	Borrowings for working capital				
	Grand total of sources of funds (A+B+C)				
	*Application of Funds:				
	A) Fixed assets				
	a) Gross fixed assets				
	b) Less accumulated depreciation				
	c) Net Fixed assets((a)-(b))				
	d) Capital works in progress				
	e) Assets not in use				
	f) Deferred costs				
	g) Intangible assets				
	h) Investments				
	Total (c) +(d)+(e)+(f)+(g)+(h)				

	B)Subsidy receivable from Government				
	Contribution receivable from State Government towards pension liability				
	C) Net Current Assets				
	(1) Current assets, loans and advances				
	a) Inventories*				
	b) Receivables against transmission charges				
	c) Cash & bank balances				
	d) Loans and advances				
	e) Sundry receivables				
	Total (C)(1)				
	(2) Current liabilities & provisions				
	a) Security Deposits from Consumers				
	b) Borrowings for working capital				
	c) Payments due on Cap. liabilities				
	d) Other current liabilities				
	Total (C)(2)				
	Net Current Assets (C) [(C(1)) - (C(2))]				
	Grand Total of Application of funds (A)+(B)+(C)				

Note: For the projection of current assets and current liabilities, working sheets showing the calculations along with assumptions upon which they are based should be furnished

Note: Reconciliation between audited accounts and amounts for transmission business should be furnished.

Form T CF

Cash Flow for the year

Name of Transmission Business/Licensee _____

S.No.	Particulars	Ref	Previous Year	Previous Year	Remarks
			(n-1)	(n-2)	
1	2	3	4	5	6
I	Net Funds from Operations				
1a	Net Funds from Earnings :				
	a) Profit before tax and before revenue subsidies and grants				
	Less : Income Tax Payment during the year				
	Total of (a)				
	b. Add: Debits to rev. account not requiring cash Flow:				
	I) Depreciation				
	ii) Amortisation of Deferred costs				
	iii) Amortisation of Intangible Assets				
	iv) Investment Allowance Reserve				
	v) Others, if any				
	Total of (b)				
	c. Less : Credits to revenue Account not involving cash receipts				
	I) Depreciation				
	ii) Subsidies receivables				
	iii) Revenue gap				
	Total of (c)				
	Net Funds from Earnings (a)+(b)-(c)				
2	Contributions, Grants & Subsidies to cost of Capital Assets				
3	Security Deposit from consumers				
4	Proceeds from disposal of fixed Assets				
5	Total Funds from Operations (1+2+3+4)				
6	Net Increase/(Decrease) in working Capital				
	(a) Increase/(Decrease) in Current Assets				
	I) Inventories				
	ii) Receivables against transmission charges				

	iii) Loans and Advances				
	iv) Sundry receivables				
	v) Subsidy receivables				
	Total of (a)				
	(b) Increase/(Decrease) in Current liabilities				
	I) Borrowings for working Capital				
	ii) Other current liabilities				
	iii) Others (Increase in Reserve + payment due on cap.liab)				
	Total of (b)				
	Net Increase/(Decrease) in working Capital (a)- (b)				
7	Net Funds from operations before subsidies and Grants (5-6)				
8	Receipts from revenue subsidies and Grants				
	Total Net Funds from operations including subsidies & Grants (7+8)				
II.	Net increase/ decrease in Capital liabilities				
	a). Fresh borrowings				
	I) State Loans				
	ii) Foreign currency Loans / Credits				
	iii) Other borrowings				
	Total of (a)				
	b) Repayments :				
	I) State Loans				
	ii) Foreign currency Loans / Credits				
	iii) Other borrowings				
	Total of (b)				
	Net Increase/(Decrease) in Capital liabilities (a) - (b)				
III.	Increase/(Decrease) in equity Capital				
IV.	Total Funds available for Capital Expenditure (I+II+III)				
V	Funds utilised on Capital Expenditure				
	a) On projects				
	b) Advance to Suppliers & Contractors				
	c) Intangible Assets				
	d) Deferred Cost				
	Total of V (a+b+c+d)				
VI	Net Increase/(Decrease) in Government contribution				
VII	Net Increase/(Decrease) in Terminal benefit fund				
VIII	Net Increase/(Decrease) in Provident fund				
IX	Net Increase/(Decrease) in investments				
X	Net Increase/(Decrease) in cash / bank balance (IV - V- VI)				
XI	Add opening cash & Bank balance				
XII	Closing Cash & Bank balance (VII+VIII)				

Note: Reconciliation between audited accounts and amounts for transmission business should be furnished.

ARR and Tariff Formats
SLDC
INDEX

S.No.	Form No.	Particulars
1	2	3
1	Form S 1	Summary of Aggregate Revenue Requirement
2	Form S 2	Operation and Maintenance Expenses
3	Form S 2.1	Employee Expenses
4	Form S 2.2	Administrative and General Expenses
5	Form S 2.3	Repair and Maintenance Expenses
6	Form S 3	Interest on working capital requirement
7	Form S 4	RLDC Fees and Charges
8	Form S 5	Fixed assets & provisions for depreciation
9	Form S 6	Loan Repayment & Interest Liability
10	Form S 7	Return on Equity/Return on Net Fixed Assets
11	Form S 8	Income Tax Provisions
12	Form S 9	Non Tariff Income
13	Form S 10	Summary of Revenue from current fee and charges
14	Form S 11	Deviation Analysis

Other Information/Documents		
1	Form S P&L	Profit & Loss Account
2	Form S BS	Balance Sheet at the end of the year
3	Form S CF	Cash Flow for the year
4. Corporate audited/ unaudited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the relevant years.		

Note : Spread sheet financial models (in CD) shall also be submitted along with the application.

Form S 1

Summary of Aggregate Revenue Requirement

Name of Petitioner _____

Rs. Lakh

S. No.	Particulars	Reference Form No.	Previous Year				Current year			Ensuing Year	Year	Year	Remarks	
			(n-1)				n			n+1	n+2	n+3		
			Approved in Tariff Order	Audited	Normative	Truing Up requirement	Approved	Apr-Sep (Actual)	Estimated	Projected	Projected	Projected		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1	Expenses													
a)	Operating Expenses													
i)	Employee expenses	Form S 2.1												
ii)	Administrative and General Expenses	Form S 2.2												
iii)	Repair and Maintenance Expenses	Form S 2.3												
iv)	Interest on Working Capital	Form S 3												
v)	RLDC Fee and Charges	Form S 4												
b)	Capital expense components													
i)	Depreciation	Form S 5												
ii)	Interest and finance charges on term loan	Form S 6												
iii)	Return on equity	Form S 7												
iv)	Income Tax provision	Form S 8												
2	Total Revenue Expenditure (a+b+c)													
3	Less: Non Tariff income	Form S 9												
4	Less: Income from other business													
5	Aggregate Revenue Requirement													

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form S 2

Operation and Maintenance Expenses

Name of Petitioner _____

Rs. Lakh

S. No.	Particulars	Previous Year			Current Year			Ensuing Year	Year	Year	Remarks
		(n-1)			n			n+1	n+2	n+3	
		Approved in Tariff Order	Audited	Truing Up requirement	Approved	Apr-Sep(Actual)	Estimated	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12
a)	Employee expenses										
b)	Administrative and General Expenses										
c)	Repair and Maintenance Expenses										
	Total (a) + (b)+(c)										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form S 2.1
Employee Expenses

Name of Petitioner _____

Rs. Lakh

S. No.	Particulars	Previous Year			Current Year			Ensuing Year	Year	Year	Remarks	
		(n-1)			n			n+1	n+2	n+3		
		Approved in Tariff Order	Audited	Truing Up requirement	Approved	Apr-Sep(Actual)	Estimated	Projected	Projected	Projected		
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12	
1	Employee's Cost (Other Than Covered In 'III & IV')											
1	Basic Salary											
2	Additional Pay											
3	D.A.											
4	House Rent Allowance											
5	Other Allowances & Relief											
6	Sub-Total: (1 to 5)											
7	Medical Expenses Reimbursement											
8	Travelling Allowance(Conveyance Allowance)											
9	Leave Travel Assistance											
10	Honorarium/Overtime											
11	Load Despatch Allowance											
12	Earned Leave Encashment											
13	Payment Under Workman's Compensation											
14	Any Other Item											
15	Arrears to Wage Revision											
16	Sub-Total (7 to 15)											
17	Staff Welfare Expenses											
	II Apprentice And Other Training Expenses											
	III Payment/Contribution To PF Staff Pension And Gratuity											
1	Terminal Benefits											
a.	Provident Fund Contribution											
b.	Provision for PF Fund											
c.	Pension Payments											
d.	Gratuity Payment on super annuation											
e.	Super Annuation Fund, if any											
f.	Any other terminal benefit(Encashment)											
2	Any Other Items											
	Total III											
IV	Grand Total [I.6 + I.16 + I.17 + II + III]											
V	Incentive Payment											
VI	Grand Total											
VII	Less Expenses Capitalised											
	Net Employee expenses											

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Administrative and General Expenses

Name of Petitioner _____

Rs. Lakh

S. No.	Particulars	Previous Year			Current Year			Ensuig Year	Year	Year	Remarks	
		(n-1)			n			n+1	n+2	n+3		
		Approved in Tariff Order	Audited	Truing Up requirement	Approved	Apr-Sep(Actual)	Estimated	Projected	Projected	Projected		
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12	
A)	Administration Expenses											
	Rent rates and taxes											
i)	Rent											
ii)	Rates & Taxes											
	Sub - total of Rent rates and taxes											
iii)	Insurance											
iv)	Revenue Stamp Expenses, Telephone, P&T & Telex Charges											
v)	Legal Charges											
vi)	Audit Fees											
vii)	Technical Fees, Consultancy and Other Professional Charges											
viii)	Conveyance and Travel											
ix)	Electricity charges											
x)	Vehicle Running & Hiring Expenses											
xi)	Vehicles Running Expenses Petrol And Oil											
xii)	Security / Service Charges Paid To Outside Agencies											
	Sub-Total of Administrative Expenses											
B)	Other Charges											
i)	Fee And Subscriptions Books And Periodicals											
ii)	Printing And Stationery											
iii)	Advertisement Expenses (Including Purchase Related) Exhibition & Demo.											
iv)	Water Charges											
v)	Bank Charges											
vi)	Miscellaneous Expenses											
vii)	Office Expenses											
	Sub-Total of other charges											
C)	Material Related Expenses											
i)	Incidental Stores Expenses											
	Sub Total of Material related expenses											
D)	Total A&G expenses											
E)	A&G expenses chargeable To Capital Works											
F)	Net A&G expenses chargeable to Revenue Expenses											

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form S 2.3

Repair and Maintenance Expenses

Name of Petitioner _____

Rs. Lakh

S. No.	Particulars	Previous Year			Current Year			Ensuing Year	Year	Year	Remarks
		(n-1)			n			n+1	n+2	n+3	
		Approved in Tariff Order	Audited	Truing Up requirement	Approved	Apr-Sep(Actual)	Estimated	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12
1	Plant & Machinery										
2	Building										
3	Civil Works										
4	Lines, Cables, Networks, etc.										
5	Vehicle										
6	Furniture & Fixtures										
7	Office Equipment										
8	Station Supplies										
9	Miscellaneous										
A	Total R&M Expenses										
B	less: Expenses Capitalized										
C	Total R&M Expenses chargeable to Revenue Expenses										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form S 3

Interest on working capital requirement

Name of Petitioner _____

Rs. Lakh

SL.N o.	Particulars	Previous Year				Current Year			Ensuing Year	Year	Year	Remarks	
		(n-1)				n			n+1	n+2	n+3		
		Approved in Tariff Order	Audited	Normative	Truing Up requirement	Approved	Apr-Sep(Actual)	Estimated	Projected	Projected	Projected		
1	2	3	4	5	6	7	8	9	10	11	12	13	
1	O&M expenses												
2	Maintenance Spares												
3	Annual Revenue from Tariff and Charges												
4	Receivables equal to one and half months of average billing												
	Less												
5	Amount held as security deposits from Users except security deposits held in the form of Bank Guarantees												
6	Total Working Capital												
7	Interest Rate												
8	Interest on Working Capital												

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form S 4

RLDC Fees and Charges

Name of Petitioner _____

Rs. Lakh

S. No.	Particulars	Previous Year			Current Year			Ensuing Year	Year	Year	Remarks
		(n-1)			n			n+1	n+2	n+3	
		Approved in Tariff Order	Audited	Truing Up requirement	Approved	Apr-Sep(Actual)	Estimated	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12
1	NRLDC Fees										
2	NRLDC Charges										
3	ULDC Scheme charges										
4	NRPC Charges										
5	Other Costs (related to RLDC), if any										
	Grand Total										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form S 5

Fixed assets & provisions for depreciation

Name of Petitioner _____
 Year (n-1)* _____

Rs. Lakh

S.No.	Assets Group (as per notification in respect of depreciation)	Rate of depreciation	Gross fixed assets					Provisions for depreciation			Net fixed assets at the beginning of the year	Net fixed assets at the end of the year
			At the beginning of the year	Additions during the year	Adjustment & deductions	At the end of the year	Cumulative upto the beginning of year	Additions during the year	Adjustment during the year	Cumulative at the end of year		
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Land & Land rights											
2	Building and Civil Works											
3	Hydraulic Works											
4	Other Civil Works											
5	Plant & Machinery											
6	Lines Cable Network etc.											
7	Vehicles											
8	Furniture & fixtures											
9	Office Equipment's											
10	Communication equipment											
11	SCADA and IT system											
12	Other equipment											
	Total (1) to (12)											

- Note:-** 1 This statement is to be furnished separately for each of 3 years (i.e. previous year, current year, ensuring year & subsequent years of the Control Period)
 2. The figures at the beginning of the year & that at the end of previous year will be the same
 3. The write off of depreciated price of unserviceable assets & assets not in use lost/damaged in natural or assets sold or cost of buy back of assets are to be included in this schedule.

Form S 7

Return on Equity/Return on Net Fixed Assets

Name of Petitioner _____

Rs. Crore

S.No.	Particulars	Previous Year				Current year			Ensuing Year	Year	Year	Remarks	
		(n-1)				n			n+1	n+2	n+3		
		Approved in Tariff Order	Audited	Normative	Truing Up requirement	Approved	Apr-Sep (Actual)	Estimated	Projected	Projected	Projected		
1	2	3	4	5	6	7	8	9	10	11	12	13	
1	Equity at the beginning of the year												
2	Capitalisation												
3	Equity portion of capitalisation												
4	Equity at the end of the year												
	Return Computation												
5	Return on Equity at the beginning of the year	14%*(1)											
6	Return on Equity portion of capitalisation (on pro-rata basis)	14%*(3)/(n/12)											
7	Total Return on Equity	(5)+(6)											

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form S 8

Income Tax Provisions

Name of Petitioner _____

Rs. Crore

S. No.	Particulars	Previous Year			Current Year			Ensuing Year	Year	Year	Remarks	
		(n-1)			n			n+1	n+2	n+3		
		Approved in Tariff Order	Audited	Truing Up requirement	Approved	Apr-Sep(Actual)	Estimated	Projected	Projected	Projected		
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12	
(A)	Advance Tax assessed & deposited on ...											
a)	for Quarter I & deposited on 15th June											
b)	for Quarter II & deposited on 15th September											
c)	for Quarter III & deposited on 15th December											
d)	for Quarter IV & deposited on 15th March											
	Total (A)											
(B)	Deferred tax liability before 01.04.2009											

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form S 9

Non Tariff Income

Name of Petitioner _____

Rs. Crore

S.No.	Particulars	Ref.	Previous Year			Current year			Ensuing Year	Year	Year	Remarks	
			(n-1)			n			n+1	n+2	n+3		
			Approved in Tariff Order	Audited	Truing Up requirement	Approved	Apr-Sep (Actual)	Estimated	Projected	Projected	Projected		
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13	
	Non Tariff Income												
1	Interest on staff loans and advances												
2	Income from statutory investments												
3	Income from rent of land or buildings												
4	Income from sale of scrap												
5	Income from staff welfare activities												
6	Rental from staff quarters												
7	Excess found on physical verification												
8	Interest on investments, fixed and call deposits and bank balances												
9	Interest on advances to suppliers/contractors												
10	Income from hire charges from contractors and others												
11	Income due to right of way granted for paying fibre optic cables/co-axial cables on transmission system												
12	Income from advertisements, etc.												
13	Miscellaneous receipts												
14	Interest on delayed or deferred payment of bills												
	...												
	Total Non Tariff Income												

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Summary of Revenue from current fee and charges

Name of Petitioner

S. No.	Particular	* Previous Year (n-1)						Current Year (n)						Ensuing Year (n+1)						Ensuing Year (n+2)					
		Contracted Capacity	Fixed Annual Charges	Operating Charges on monthly basis	Annual SLDC Fees & Charges	SLDC Operating Charges	Total SLDC Charges	Contracted Capacity	Fixed Annual Charges	Operating Charges on monthly basis	Annual SLDC Fees & Charges	SLDC Operating Charges	Total SLDC Charges	Contracted Capacity	Fixed Annual Charges	Operating Charges on monthly basis	Annual SLDC Fees & Charges	SLDC Operating Charges	Total SLDC Charges	Contracted Capacity	Fixed Annual Charges	Operating Charges on monthly basis	Annual SLDC Fees & Charges	SLDC Operating Charges	Total SLDC Charges
		(in MW)	Rs. Lakh/MW	Rs. Lakh/MW	(Rs. In Lakhs)	(Rs. In Lakhs)	(Rs. In Lakhs)	(in MW)	Rs. Lakh/MW	Rs. Lakh/MW	(Rs. In Lakhs)	(Rs. In Lakhs)	(Rs. In Lakhs)	(in MW)	Rs. Lakh/MW	Rs. Lakh/MW	(Rs. In Lakhs)	(Rs. In Lakhs)	(Rs. In Lakhs)	(in MW)	Rs. Lakh/MW	Rs. Lakh/MW	(Rs. In Lakhs)	(Rs. In Lakhs)	(Rs. In Lakhs)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	Fee and Charges for System Operation																								
	a) Discom 1																								
	b) Discom 2																								
	c) Discom 3																								
	d) Generating Company 1																								
	e) Generating Company 2																								
	f) Generating Company 3																								
	g) Other Long term Users (Please specify)																								
	2. Charges for decision support system and IT Infrastructure																								
	a) Discom 1																								
	b) Discom 2																								
	c) Discom 3																								
	d) Generating Company 1																								
	e) Generating Company 2																								
	f) Generating Company 3																								
	g) Other Long term Users (Please specify)																								
	3. Operating Charges for Scheduling, Metering and Settlement																								
	a) Discom 1																								
	b) Discom 2																								
	c) Discom 3																								
	d) Generating Company 1																								
	e) Generating Company 2																								
	f) Generating Company 3																								
	g) Trading Companies																								
	h) Captive Users																								
	i) Other third party transactions																								
	j) Any other user (Please specify)																								
	4. Other Revenue																								
	a) Consultancy services																								
	b) Manpower development																								
	c) Miscellaneous Receipt																								
5	Total (1+2+3+4)																								

* Note : To be furnished based on fees and charges applicable in the previous year

Summary of Revenue from current fee and charges

Name of Petitioner

S. No.	Particular	* Previous Year (n+1)						Current Year (n)						Ensuing Year (n+1)						Ensuing Year (n+2)						Ensuing Year (n+3)					
		Contracted Capacity	Fixed Annual Charges	Operating Charges on monthly basis	Annual SLDC Fees & Charges	SLDC Operating Charges	Total SLDC Charges	Contracted Capacity	Fixed Annual Charges	Operating Charges on monthly basis	Annual SLDC Fees & Charges	SLDC Operating Charges	Total SLDC Charges	Contracted Capacity	Fixed Annual Charges	Operating Charges on monthly basis	Annual SLDC Fees & Charges	SLDC Operating Charges	Total SLDC Charges	Contracted Capacity	Fixed Annual Charges	Operating Charges on monthly basis	Annual SLDC Fees & Charges	SLDC Operating Charges	Total SLDC Charges	Contracted Capacity	Fixed Annual Charges	Operating Charges on monthly basis	Annual SLDC Fees & Charges	SLDC Operating Charges	Total SLDC Charges
		(in MW)	Rs. Lakh/MW	Rs. Lakh/MW	(Rs. In Lakhs)	(Rs. In Lakhs)	(Rs. In Lakhs)	(in MW)	Rs. Lakh/MW	Rs. Lakh/MW	(Rs. In Lakhs)	(Rs. In Lakhs)	(Rs. In Lakhs)	(in MW)	Rs. Lakh/MW	Rs. Lakh/MW	(Rs. In Lakhs)	(Rs. In Lakhs)	(Rs. In Lakhs)	(in MW)	Rs. Lakh/MW	Rs. Lakh/MW	(Rs. In Lakhs)	(Rs. In Lakhs)	(Rs. In Lakhs)	(in MW)	Rs. Lakh/MW	Rs. Lakh/MW	(Rs. In Lakhs)	(Rs. In Lakhs)	(Rs. In Lakhs)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1	Fee and Charges for System Operation																														
	a) Discom 1																														
	b) Discom 2																														
	c) Discom 3																														
	d) Generating Company 1																														
	e) Generating Company 2																														
	f) Generating Company 3																														
	g) Other Long term Users (Please specify)																														
2	Charges for decision support system and IT Infrastructure																														
	a) Discom 1																														
	b) Discom 2																														
	c) Discom 3																														
	d) Generating Company 1																														
	e) Generating Company 2																														
	f) Generating Company 3																														
	g) Other Long term Users (Please specify)																														
3	Operating Charges for Scheduling, Metering and Settlement																														
	a) Discom 1																														
	b) Discom 2																														
	c) Discom 3																														
	d) Generating Company 1																														
	e) Generating Company 2																														
	f) Generating Company 3																														
	g) Trading Companies																														
	h) Captive Users																														
	i) Other third party transactions																														
	j) Any other user (Please specify)																														
4	Other Revenue																														
	a) Consultancy services																														
	b) Manpower development																														
	c) Miscellaneous Receipt																														
5	Total (1+2+3+4)																														

* Note : To be furnished based on fees and charges applicable in the previous year

Summary of Revenue from current fee and charges

Name of Petitioner

S.No.	Particular	* Previous Year (n-1)						Current Year (n)						Ensuing Year (n+1)						Ensuing Year (n+2)						Remarks			
		Contracted Capacity	Fixed Annual Charges	Operating Charges on monthly basis	Annual SLDC Fees & Charges	SLDC Operating Charges	Total SLDC Charges	Contracted Capacity	Fixed Annual Charges	Operating Charges on monthly basis	Annual SLDC Fees & Charges	SLDC Operating Charges	Total SLDC Charges	Contracted Capacity	Fixed Annual Charges	Operating Charges on monthly basis	Annual SLDC Fees & Charges	SLDC Operating Charges	Total SLDC Charges	Contracted Capacity	Fixed Annual Charges	Operating Charges on monthly basis	Annual SLDC Fees & Charges	SLDC Operating Charges	Total SLDC Charges		Contracted Capacity	Fixed Annual Charges	Total SLDC Charges
		(in MW)	Rs. Lakh/MW	Rs. Lakh/MW	(Rs. In Lakhs)	(Rs. In Lakhs)	(Rs. In Lakhs)	(in MW)	Rs. Lakh/MW	Rs. Lakh/MW	(Rs. In Lakhs)	(Rs. In Lakhs)	(Rs. In Lakhs)	(in MW)	Rs. Lakh/MW	Rs. Lakh/MW	(Rs. In Lakhs)	(Rs. In Lakhs)	(Rs. In Lakhs)	(in MW)	Rs. Lakh/MW	Rs. Lakh/MW	(Rs. In Lakhs)	(Rs. In Lakhs)	(Rs. In Lakhs)		(in MW)	Rs. Lakh/MW	(Rs. In Lakhs)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	32	33
1	Fee and Charges for System Operation																												
	a) Discosm 1																												
	b) Discosm 2																												
	c) Discosm 3																												
	d) Generating Company 1																												
	e) Generating Company 2																												
	f) Generating Company 3																												
	g) Other Long term Users (Please specify)																												
2	Charges for decision support system and IT Infrastructure																												
	a) Discosm 1																												
	b) Discosm 2																												
	c) Discosm 3																												
	d) Generating Company 1																												
	e) Generating Company 2																												
	f) Generating Company 3																												
	g) Other Long term Users (Please specify)																												
3	Operating Charges for Scheduling, Metering and Settlement																												
	a) Discosm 1																												
	b) Discosm 2																												
	c) Discosm 3																												
	d) Generating Company 1																												
	e) Generating Company 2																												
	f) Generating Company 3																												
	g) Trading Companies																												
	h) Captive Users																												
	i) Other third party transactions																												
	j) Any other user (Please specify)																												
4	Other Revenue																												
	a) Consultancy services																												
	b) Manpower development																												
	c) Miscellaneous Receipt																												
5	Total (1+2+3+4)																												

* Note : To be furnished based on fees and charges applicable in the previous year

Form S 11**Deviation Analysis**

SLDC

Year (n-1)

(Rs. Lakh)

S. No.	Particulars	Approved	Actual	Deviation	Reason for Deviation	Controllable	Uncontrollable
1	2	3	4	5	6	7	8
1	Expenses						
a)	Operating Expenses						
i)	Employee expenses						
ii)	Administrative and General Expenses						
iii)	Repair and Maintenance Expenses						
iv)	Interest on Working Capital						
v)	RLDC Fee and Charges						
b)	Capital expense components						
i)	Depreciation						
ii)	Interest and finance charges on term loan						
iii)	Return on equity						
iv)	Income Tax provision						
2	Total Revenue Expenditure (a+b+c)						
3	Less: Non Tariff income						
4	Less: Income from other business						

Note: Please give detailed explanation separately for the deviations on account of uncontrollable factors

Form S P&L**Profit & Loss Account**

Name of Petitioner _____

S.No .	Particulars	Ref.	Previous Year	Previous Year	Remarks
			(n-1)	(n-2)	
1	2	3	4	5	11
	I. INCOME				
	a. Revenue from Sale of Power				
	b. Revenue Subsidies and Grants				
	c. Other Income				
	Total (a+b+c)				
	II. EXPENDITURE				
	a. Repairs and Maintenance.				
	b. Employee Cost				
	c. Administration and General Expenses				
	d. Depreciation				
	e. Interest and Finance charges				
	f. Subtotal (a+b+c+d+e)				
	g. Less Capitalised Expenses:				
	- Interest & Finance Charges				
	- Other Expenses				
	h. Other Debits				
	I. Extra Ordinary Items-Impact of APTEL orders				
	Total Expenditure (f-g+h+i)				
	III. Profit/(Loss) before Tax (I-II)				
	IV. Provision for Income Tax				
	V. Net Prior period credits (Charges)				
	VI. Surplus (Deficit)				
	VII. Net Assets at the beginning of the year (Less consumer's Contribution)				
	VIII. Rate of Return (VI/ VII)				

Note: Reconciliation between audited accounts and amounts for SLDC business should be furnished.

	C) Net Current Assets				
	(1) Current assets, loans and advances				
	a) Inventories*				
	b) Receivables against Sale of Power				
	c) Cash & bank balances				
	d) Loans and advances				
	e) Sundry receivables				
	Total (C) (1)				
	(2) Current liabilities & provisions				
	a) Security Deposits from Consumers				
	b) Borrowings for working capital				
	c) Payments due on Cap. liabilities				
	d) Other current liabilities				
	Total (C) (2)				
	Net Current Assets (C(1)) - (C(2))				
	Grand Total of Application of funds (A)+(B)+(C)				

Note: For the projection of current assets and current liabilities, working sheets showing the calculations along with assumptions upon which they are based should be furnished

Note: Reconciliation between audited accounts and amounts for SLDC business should be furnished.

Form S CF

Cash Flow for the year

Name of Petitioner _____

S.No.	Particulars	Ref	Previous Year	Previous Year	Remarks
			(n-1)	(n-2)	
1	2	3	4	5	11
I	Net Funds from Operations				
1a	Net Funds from Earnings :				
	a) Profit before tax and before revenue subsidies and grants				
	Less : Income Tax Payment during the year				
	Total of (a)				
	b. Add: Debits to rev. account not requiring cash Flow:				
	I) Depreciation				
	ii) Amortisation of Deferred costs				
	iii) Amortisation of Intangible Assets				
	iv) Investment Allowance Reserve				
	v) Others, if any				
	Total of (b)				
	c. Less : Credits to revenue Account not involving cash receipts				
	I) Depreciation				
	ii) Subsidies receivables				
	iii) Revenue gap				
	Total of (c)				
	Net Funds from Earnings (a)+(b)-(c)				
2	Contributions, Grants & Subsidies to cost of Capital Assets				
3	Security Deposit from consumers				
4	Proceeds from disposal of fixed Assets				
5	Total Funds from Operations (1+2+3+4)				
6	Net Increase/ (Decrease) in working Capital				
	(a) Increase/ (Decrease) in Current Assets				
	I) Inventories				
	ii) Receivables against sale of power				
	iii) Loans and Advances				
	iv) Sundry receivables				
	v) Subsidy receivables				
	Total of (a)				
	(b) Increase/ (Decrease) in Current liabilities				
	I) Borrowings for working Capital				
	ii) Other current liabilities				

	iii) Others (Increase in Reserve + payment due on cap.liab)				
	Total of (b)				
	Net Increase/(Decrease) in working Capital (a)- (b)				
	7. Net Funds from operations before subsidies and Grants (5-6)				
	8. Receipts from revenue subsidies and Grants				
	Total Net Funds from operations including subsidies & Grants (7+8)				
II.	Net increase/ decrease in Capital liabilities				
	a). Fresh borrowings				
	I) State Loans				
	ii) Foreign currency Loans / Credits				
	iii) Other borrowings				
	Total of (a)				
	b) Repayments :				
	I) State Loans				
	ii) Foreign currency Loans / Credits				
	iii) Other borrowings				
	Total of (b)				
	Net Increase/(Decrease) in Capital liabilities (a) - (b)				
III.	Increase/(Decrease) in equity Capital				
IV.	Total Funds available for Capital Expenditure (I+II+III)				
V	Funds utilised on Capital Expenditure				
	a)On projects				
	b)Advance to Suppliers & Contractors				
	c) Intangible Assets				
	d) Deferred Cost				
	Total of V (a+b+c+d)				
VI	Net Increase/(Decrease) in Government contribution				
VII	Net Increase/(Decrease) in Terminal benefit fund				
VIII	Net Increase/(Decrease) in Provident fund				
IX	Net Increase/(Decrease) in investments				
X	Net Increase /(Decrease) in cash / bank balance (IV - V- VI)				
XI	Add opening cash & Bank balance				
XII	Closing Cash & Bank balance (VII+VIII)				

Note: Reconciliation between audited accounts and amounts for SLDC business should be furnished.

ARR and Tariff Formats
Distribution Business
INDEX

S.No.	Form No.	Particulars
1	2	3
1	Form D 1.1	Summary of Aggregate Revenue Requirement
2	Form D 2.1	Revenue from Sale of Power
3	Form D 2.2	Income from Wheeling Charges
4	Form D 2.3	Income from sale of surplus power
5	Form D 2.4	Non-tariff Income
6	Form D 2.5	Subsidy provided by the State Govt under Section 65 of EA 2003
7	Form D 2.6	Revenue Subsidy and Grant
8	Form D 2.7	Consumer Contribution, Capital Subsidy and Grant
9	Form D 3.1	Power Purchase Expenses
10	Form D 3.2	Transmission Charges
11	Form D 3.3	Load Despatch Charges
12	Form D 3.4	Operations and Maintenance Expenses
13	Form D 3.4(a)	Employee Expenses
14	Form D 3.4(b)	Administrative & General Expenses
15	Form D 3.4(c)	Repair & Maintenance Expenses
16	Form D 3.5	Fixed assets & depreciation
17	Form D 3.6(a)	Calculation of Weighted Average Rate of Interest on Actual Loans
18	Form D 3.6(b)	Calculation of Interest on Normative Loan
19	Form D 3.6(c)	Interest on Bonds to meet Terminal Liabilities
20	Form D 3.7	Interest on Working Capital
21	Form D 3.8	Return on Equity/Return on Net Fixed Assets
22	Form D 3.9	Tax on R.O.E.
23	Form D 4.1	Project-wise / Scheme-wise Capital Expenditure
24	Form D 4.2	Consolidated report on additions to Fixed Assets during the year
25	Form D 4.3	General (Other debits, write offs or any other items)
26	Form D 5.1	Consumer category wise Existing Tariff
27	Form D 5.2	Consumer category wise Proposed Tariff
28	Form D 5.3	Revenue from Proposed Tariff
29	Form D 6.1	Improvement in performance
30	Form D 6.2	Appropriation of Distribution loss
31	Form D 7.1	Category-wise Sales
32	Form D 7.2	Distribution Losses
33	Form D 7.3	Collection Efficiency
34	Form D 8	Deviation Analysis
35	Form D 9	Consumer category-wise cross-subsidy

Other Information/Documents		
1	Form D P&L	Profit & Loss Account
2	Form KSEBL SBU-wise P&L	KSEB Limited SBU-wise Profit & Loss Account
3	Form Small Lic Distr P&L	Small Distribution Licensees - Distribution business Profit & Loss Account
4	Form D BS	Balance Sheet at the end of the year
5	Form D CF	Cash Flow for the year

6. Corporate audited/unaudited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the relevant years.

Note : Spread sheet financial models (in CD) shall also be submitted along with the application.

Form D 1.1

Summary of Aggregate Revenue Requirement

Name of Distribution Business/Licensee _____
 Licensed Area of Supply _____

(Rs Cr)

S.No.	Particulars	Reference form no.	Previous Year (n-1)				Current Year (n)			Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Approved in Tariff Order	Audited	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)	(Projected)	(Projected)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Cost of own power generation/power purchase	3.1											
2	Transmission Charges	3.2											
3	NLDC/RLDC/SLDC Charges	3.3											
4	Operation & Maintenance Expenses	3.4											
4.1	Employee Expenses	3.4											
4.2	Annual Contribution for Terminal Liabilities based on actuarial valuation												
4.3	Administration & General Expenses	3.4											
4.4	Repair & Maintenance Expenses	3.4											
5	Depreciation	3.5											
6	Interest and finance charges on long term loans	3.6											
7	Interest on Bonds to meet Terminal Liabilities	3.6											
8	Interest on Working Capital	3.7											
9	Interest on consumer security deposits and deposits from Users of the distribution system												
10	Any other item (to be specified)												
11	Contribution to contingency reserves												
12	Provisioning for Bad debts, if any												
13	Adjustment for profit/loss on account of controllable/uncontrollable factors												
14	Total Revenue Expenditure												
15	Return on Equity /Net Fixed Assets	3.8											
16	Tax on ROE	3.9											
17	Aggregate Revenue Requirement (13+15)												
18	Less: Non Tariff Income	2.4											
19	Less: Income from wheeling charges	2.2											
20	Less: Income from Other Business (to be specified)												
21	Less: Receipt on account of Cross Subsidy Surcharge on wheeling charges												
22	Less: Receipt on account of additional surcharge on charge of wheeling												
23	Aggregate Revenue Requirement from Retail Tariff												

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form D 2.1

Revenue from Sale of Power

Name of Distribution Business/ Licensee _____
 Licensed Area of Supply _____

Year (n-1)*

S.No	Particulars	Number of consumers	Number of consumers billed	Connected Load of consumers	Units Sold (MU)	% of total Unit sold	Demand/ fixed charges@	Energy Charges @	Fuel Adjustment charges@	Total	Average rate/kwh	Excess Load/ excess demand charges@	Adjustment of past billing	Power factor surcharge/incentive	voltage rebate	load factor penalty/incentive
1	2	3	4	KW	MU	7	8	9	10	8+9+10	paisa/kwh	13	14	15	16	17
A)	Revenue from sale of Electricity to consumers (categories as per Tariff for supply of Electricity)															
	LT Categories															
1	...															
2	...															
	HT Categories															
1	...															
2	...															
	Extra High Tension (EHT)															
1	...															
2	...															
	Bulk Consumers/ Licensees															
1	...															
2	...															
	Revenue from sale of power outside the State															
	Sale through power exchange															
	Sale to other States															
	Sale through Traders															
	Total of items not shown categorywise															
a)	Reactive Energy Charges															
b)	Electricity Duty Recovery															
c)	Other state Levies Recovery															
	Total Duty & Levies															
d)	Wheeling charges Recoveries															
e)	Miscellaneous Charges from consumers															
1	...															
2	...															
3	...															
	Gross Revenue From Sale of Power															
30	Less: i) Electricity Duty Payable to Govt. (Contra)															
	ii) Other State Levies Payable to Govt. (Contra)															
	Net Revenue from Sale of Power (A29-A30)															

Note:-

* Note : To be furnished separately for each year commencing from (n-1)th year to (n+3)th year.

1. Information at Column 3,4 & 5 will be for the end of the year.

2. Inapplicable items may be omitted.

3. Electricity duties & State Govt. levies, wheeling charges, Recoveries for theft & malpractices, which can not be indicated categorywise may be shown against Item 13.

5. @ to be indicated where applicable.

6. consumer categories in forms are indicative only. Distribution Business/ Licensee should indicate actual consumer categories as per existing tariff schedule

7. Detailed data should be submitted for all categories, sub-categories, and consumption slabs, as applicable

Form D 2.1

Revenue from Sale of Power

Name of Distribution Business/Licensee
Licensed Area of Supply

Year (n-1)*

(Rs Cr)

S.No	Particulars	Other charges if any@	DPS/LPS @	Sub-total	Other Rentals	Misc. recoveries@	Sub-total	Avg. realisation per KWh (Excluding ED & Govt.levies@)	Remarks
		18	19	(13) to (19)	21	22	(11)+(20)+(21)+(22)	24	25
1	2								
A)	Revenue from sale of Electricity to consumers (categories as per Tariff for supply of Electricity)								
	LT Categories								
1	...								
2	...								
	HT Categories								
1	...								
2	...								
	Extra High Tension (EHT)								
1	...								
2	...								
	Bulk Consumers/ Licensees								
1	...								
2	...								
	Revenue from sale of power outside the State								
	Sale through power exchange								
	Sale to other States								
	Sale through Traders								
	Total of items not shown categorywise								
a)	Reactive Energy Charges								
b)	Electricity Duty Recovery								
c)	Other state Levies Recovery								
	Total Duty & Levies								
d)	Wheeling charges Recoveries								
e)	Miscellaneous Charges from consumers								
1	...								
2	...								
3	...								
	Gross Revenue From Sale of Power								
30	Less: i) Electricity Duty Payable to Govt. (Contra)								
	ii) Other State Levies Payable to Govt. (Contra)								
	Net Revenue from Sale of Power (A29-A30)								

Form D 2.2

Income from Wheeling Charges

Name of Distribution Business/Licensee: _____
 Licensed Area of Supply: _____

Year (n-1)*

(Rs Cr)

S.No	Open Access Consumer	Open Access Contracted Capacity (kW)	Fixed Charge (Rs/kW/month)	Energy Wheeled	Energy Charge (Rs/kWh)	Any Other Charge as approved by Commission (Please specify)	Revenue from Fixed Charge	Revenue from Energy Charge	Revenue from Other Charge	Total Revenue
	<u>1</u>	2	3	4	5	6	7	8	9	10=7+8+9
1	...									
2									
	Total									

* Note :1. To be furnished separately for each year commencing from (n-1)th year to (n+3)th year.

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

2. In case of Income from Wheeling Charge for (n+1)th to (n+3)th year, it is mandatory for Distribution business/licensee to indicate the 'Total Revenue' (10), whereas others details may be furnished, if available

Form D 2.3

Income from sale of surplus power

Name of Distribution Business/Licensee _____

Licensed Area of Supply _____

Year (n-1)*

(Rs Cr)

Month	Name of buyer	Transaction No.	Nature of transaction- Bilateral /Exchange	Volume of trading in		Sale Price Rs/Unit	Income
				MU	Contracted MW		
1	2	3	4	5	6	7	8
April		...					
		...					
May		...					
		...					
June		...					
		...					
July		...					
		...					
August		...					
		...					
September		...					
		...					
October		...					
		...					
November		...					
		...					
December		...					
		...					
January		...					
		...					
February		...					
		...					
March		...					
		...					

* Note : To be furnished separately for each year commencing from (n-1)th year to (n+3)th year.

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

2. In case of Income from Trading for (n+1)th, (n+2)th and (n+3)th year, it is mandatory for Distribution business/ licensee to indicate the Volume (6), Sale Price (8), and 'Income' (9), whereas others details may be furnished, if available.

3. In case of bilateral transaction, sale contract copy should be submitted

Form D 2.5

Subsidy provided by the State Govt under Section 65 of EA 2003

Name of Distribution Business/Licensee _____

Licensed Area of Supply _____

(Amount in Rs Cr)

S.No.	Consumer Category	Previous Year (n-1)					Current Year (n)*						
		Tariff approved by Commission	Reference of Government directives	Relaxation/ Subsidy committed by Government	Subsidy assessed	Reference of finance department order releasing subsidy amount	Subsidy actually received	Tariff as per Commission	Reference of Government directives	Relaxation/ Subsidy committed by Government	Subsidy assessed	Reference of finance department order releasing subsidy amount	Subsidy actually received
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Domestic Category (LT - 1(a))												
	...												
												

Form D 2.6**Revenue Subsidy and Grant**

Name of Distribution Business/Licensee _____

Licensed Area of Supply _____

(Amount in Rs Cr)

Sr. No.	Particulars	Previous Year (n-1)			Current Year (n)			Ensuing Year	Year	Year	Remarks
		Approved in Tariff Order	Actually received	Balance Receivable	Apr-Sep	Estimated for the year	Approved by the Commission	(n+1)	(n+2)	(n+3)	
					(Actual)			Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12
A)	Revenue Subsidies & Grants										
1	Revenue Subsidy from State Government other than S.65 subsidy										
2	State Govt. Grant										
4	Any Other item										
	Total										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form D 2.7

Consumer Contribution, Capital Subsidy and Grant

Name of Distribution Business/Licensee _____

Licensed Area of Supply _____

(Rs. Cr)

S. No.	Particulars	Previous Year (n-1)			Current Year (n)			Ensuing Year	Year	Year	Remarks
		Approved in Tariff Order	Actually received	Balance Receivable	Apr-Sep	Estimated for the year	Approved by the Commission	(n+1)	(n+2)	(n+3)	
					(Actual)			Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12
1	Consumers Contribution for service connection lines and associated works										
2	Any other contribution by consumers under any scheme.										
a)											
b)											
c)											
	Sub-Total										
3	Capital Subsidies from appropriate Government towards cost of Capital Assets										
4	Receipts from appropriate Government under any scheme as Grants										
5	Any Other item(to be specified)										
	Total										
	TOTAL										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

FormD 3.2

Transmission Charges

Name of Distribution Business/Licensee _____

Licensed Area of Supply _____

Transmission Charges

Year(n-1)*

S. No.	Name of Transmission/Distribution Network Provider	Contracted Capacity	Transmission Tariff	Transmission Charges	Sources of power for which Network is used
		(MW)	<Units>	(Rs. Crore)	
1	2	3	4	5	6
Total					

* Note : To be furnished separately for each year commencing from (n-1)th year to (n+3)th year.

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form D 3.3

Load Despatch Charges

NLDC/ RLDC/ SLDC Charges

Year(n-1)*

S. No.	Particular	Contracted Capacity	Annual fee	Any other fee	Total
		(MW)	(Rs. Crore)	(Rs. Crore)	(Rs. Crore)
1	2	3	4	5	6
	NLDC Charges				
	RLDC Charges				
	<Specify Region>				
	SLDC Charges				
Total	Total				

* Note : To be furnished separately for each year commencing from (n-1)th year to (n+3)th year.

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Operations and Maintenance Expenses

A Name of Distribution Business/Licensee Distribution Business of KSEB Limited
Licensed Area of Supply _____

1 Employee Expenses

(Rs. Crore)

S. No.	Particulars	Reference	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Number of Consumers ('000)											
	Norms (Rs. Lakh/'000 consumers)											
2	Distribution Transformers (no.)											
	Norms (Rs. Lakh/Distribution Transformer)											
3	HT line (km)											
	Norms (Rs. Lakh/km of HT line)											
4	Sales (kWh)											
	Norms (Rs./unit of sales)											
5	Employee Expense (as per norms)											
6	Employee Expense (actuals)	3.4(a)										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

2 Administrative and General Expenses

(Rs. Crore)

S. No.	Particulars	Reference	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Approved in Tariff Order	Audited/ Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Number of Consumers ('000)											
	Norms (Rs. Lakh/'000 consumers)											
2	Distribution Transformers (no.)											
	Norms (Rs. Lakh/Distribution Transformer)											
3	HT line (km)											
	Norms (Rs. Lakh/km of HT line)											
4	Sales (kWh)											
	Norms (Rs./unit of sales)											
4	A&G Expense (as per norms)											
5	A&G Expense (actuals)	3.4(b)										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC Tariff Regulations, 2014

3 Repair and Maintenance Expense

(Rs. Crore)

S. No.	Particulars	Reference	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Approved in Tariff Order	Audited/ Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Opening GFA (Rs. Crore)											
	Norms (% of opening GFA)											
2	R&M Expense (as per norms)											
3	R&M Expense (actuals)	3.4(c)										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC Tariff Regulations, 2014

B Name of Distribution Business/Licensee (CSEZ, Technopark, KPUL, RPIL, KDHPCL, CPT, Thrissur Corporation, and Infopark)
Licensed Area of Supply _____

1 O&M Expenses

(Rs. Lakh)

S. No.	Particulars	Reference	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Approved in Tariff Order	Audited/ Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Employee Expenses (as per norms)											
2	R&M Expenses (as per norms)											
3	A&G Expenses (as per norms)											
4	O&M Expense (as per norms) (1+2+3)											
2	O&M Expense (actuals)	3.4(a),3.4(b), 3.4(c)										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC Tariff Regulations, 2014

Form D 3.4(a)

Employee Expenses

Name of Licensee

Rs. Crore

S. No.	Particulars	Reference	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Audited	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5	6	7	8	9	10	11
1	Basic Salary									
2	Dearness Allowance (DA)									
3	House Rent Allowance									
4	Conveyance Allowance									
5	Leave Travel Allowance									
6	Earned Leave Encashment									
7	Other Allowances									
8	Medical Reimbursement									
9	Overtime Payment									
10	Bonus/Ex-Gratia Payments									
11	Interim Relief / Wage Revision									
12	Staff welfare expenses									
13	VRS Expenses/Retrenchment Compensation									
14	Commission to Directors									
15	Training Expenses									
16	Payment under Workmen's Compensation Act									
17	Net Employee Costs									
18	Terminal Benefits									
18.1	Provident Fund Contribution									
18.2	Provision for PF Fund									
18.3	Pension Payments									
18.4	Gratuity Payment									
19	Others									
20	Gross Employee Expenses									
21	Less: Expenses Capitalised									
22	Net Employee Expenses									

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form D 3.4(b)

Administrative & General Expenses

Name of Licensee

Rs. Crore

S. No.	Particulars	Reference	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Audited	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5	6	7	8	9	10	11
1	Rent Rates & Taxes									
2	Insurance									
3	Telephone & Postage, etc.									
4	Legal charges									
5	Audit Fees									
6	Consultancy charges									
7	Other Professional charges									
8	Conveyance									
9	Vehicle Running Expenses Truck / Delivery Van									
10	Vehicle Hiring Expenses Truck / Delivery Van									
11	Electricity charges									
12	Water charges									
13	Entertainment									
14	Fees & subscription									
15	Printing & Stationery									
16	Advertisements, exhibition publicity									
17	Contribution/Donations									
18	Training expenses									
19	Miscellaneous Expenses									
20	DSM activities									
21	SRPC expenses									
22	Sports and related activities									
23	Freight									
24	Purchase Related Advertisement Expenses									
25	Bank Charges									
26	Office Expenses									
27	License Fee and other related fee									
28	Cost of services procured									
29	Outsourcing of metering and billing system									
30	V-sat, Internet and related charges									
31	Security arrangements									
32	Books & periodicals									
33	Computer Stationery									
34	Others									
35	Gross A&G Expenses									
36	Ele. Duty u/s 3(I), KED Act									
37	Less: Expenses Capitalised									
38	Net A&G Expenses									

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form D 3.4(c)

Repair & Maintenance Expenses

Name of Licensee

Rs. Crore

S. No.	Particulars	Reference	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
			Audited	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5	6	7	8	9	9	10
1	Plant & Machinery									
2	Buildings									
3	Civil Works									
4	Hydraulic Works									
5	Lines & Cable Networks									
6	Vehicles									
7	Furniture & Fixtures									
8	Office Equipment									
9	Gross R&M Expenses									
10	Less: Expenses Capitalised									
11	Net R&M Expenses									

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form D 3.5

Fixed assets & depreciation

Name of Distribution Business/Licensee _____

Licensed Area of Supply _____

Year (n-1)* _____

(Figures in Rs Cr)

S. No.	Asset Group (as per notification in respect of depreciation)	Rate of depreciation (%)	Gross fixed assets				Provision for depreciation				Net fixed assets at the beginning of the year	Net Fixed Assets at the end of the year
			At the beginning of the year	Additions during the year	Adjustment & deductions	At the end of the year	Cumulative upto the beginning of the year	Additions during the year	Adjustment during the year	Cumulative at the end of the year		
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Land & land rights											
2	Other Civil works											
3	HV Distribution system											
a)	Distribution lines											
b)	Sub-station equipments											
i)	Transformers											
ii)	Switchgears, Control gear & Protection											
iii)	Batteries											
iv)	Others											
4	LT Distribution system											
a)	Distribution lines											
b)	Sub-station equipments											
i)	Transformers											
ii)	Switchgears, Control gear & Protection											
iii)	Batteries											
iv)	Others											
5	Communication equipment											
6	Meters											
7	Vehicles											
8	Furniture & fixtures											
9	Office Equipments											
10	Assets of Partnership projects etc.											
11	Capital spares of HV & LT transmission											
12	Assets taken over & pending final valuation											
13	IT Equipments											
15	Any other items											
16	Gross Asset (Total (1) to (15))											
17	Less: Consumer contribution											
18	Less: Government grants											
19	Less: Deposit Works											
20	Less: Capital Subsidies											
21	Net Asset considered for depreciation (16-17-18-19-20)											

* Note : To be furnished separately for each year commencing from (n-1)th year to (n+3)th year.

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Note :

1. The figures at the beginning of the year & that at the end of previous year will be the same
2. The write off of depreciated price of unserviceable assets & assets not in use/lost/damaged in natural calamity or assets sold or cost of buy back of assets are to be included in this schedule.

Form D 3.6 (a)

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of Distribution Licensee _____
 Licensed Area of Supply _____

(Rs. Cr)

S.No	Particulars (specify items)	Previous Year (n-1)		Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
		Approved in Tariff Order	Audited	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	6	7	8	9	10	11	12
1	Loan 1									
i.	Gross Loan -Opening									
ii.	Cumulative repayments of Loans upto previous year									
iii.	Net loan-Opening									
iv.	Add: Drawal(s) during the Year									
v.	Less: Repayment (s) of Loans during the year									
vi.	Net loan - Closing									
vii.	Average Net Loan									
viii.	Rate of Interest on Loan on annual basis									
ix.	Interest on loan									
x.	Loan repayment effective from (date to be indicated)									
2	Loan 2									
i.	Gross Loan -Opening									
ii.	Cumulative repayments of Loans upto previous year									
iii.	Net loan-Opening									
iv.	Add: Drawal(s) during the Year									
v.	Less: Repayment (s) of Loans during the year									
vi.	Net loan - Closing									
vii.	Average Net Loan									
viii.	Rate of Interest on Loan on annual basis									
ix.	Interest on loan									
x.	Loan repayment effective from (date to be indicated)									
3	Loan 3									
..	...									

..	...									
4	Total Loan									
i.	Gross Loan -Opening									
ii.	Cumulative repayments of Loans upto previous year									
iii.	Net loan-Opening									
iv.	Add: Drawal(s) during the Year									
v.	Less: Repayment (s) of Loans during the year									
vi	Net loan - Closing									
vii	Average Net Loan									
viii	Interest on Loan									
ix	Weighted average Rate of Interest on Loans									

Note: In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form
Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form D 3.6 (b)

Calculation of Interest on Normative Loan

Name of Distribution Licensee _____
 Licensed Area of Supply _____

(Rs. Cr)

S.No	Particulars (specify items)	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
		Approved in Tariff Order	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12
1	Gross Normative loan - Opening										
2	Cumulative repayment of Normative Loan upto previous year										
3	Net Normative loan - Opening										
4	Increase/Decrease due to ACE/de-capitalization during the Year										
5	Repayments of Normative Loan during the year										
6	Net Normative loan - Closing										
7	Average Normative Loan										
8	Weighted average Rate of Interest of actual Loans										
9	Interest on Normative loan										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form D 3.6 (c)

Interest on Bonds to meet Terminal Liabilities

Name of Distribution Licensee _____
 Licensed Area of Supply _____

(Rs. Cr)

S.No	Particulars (specify items)	Previous Year (n-1)			Current Year (n)			Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
		Approved in Tariff Order	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12
A	Bond Series 1										
1	Value of Bond										
2	Rate of Interest on Bond										
3	Interest on Bond										
B	Bond Series 2										
4	Value of Bond										
5	Rate of Interest on Bond										
6	Interest on Bond										
C	...										
	...										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form D 3.7

Interest on Working Capital

Name of Distribution Business/Licensee _____
 Licensed Area of Supply _____

Rs. Crore

Sl.No.	Particulars	Previous Year (n-1)				Current year			Ensuing Year	Year	Year	Remarks
		Approved in Tariff Order	Audited	Normative	Truing Up requirement	(n)			n+1	n+2	n+3	
						Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)	(Projected)	(Projected)	
1	2	3	4	5	6	7	8	9	10	11	12	13
1	O&M expenses (as per norms)											
2	Maintenance Spares (as per norms)											
3	Receivables (as per norms)											
	Less:											
4	Security deposits except security deposits held in the form of Bank Guarantee from Users											
	Less:											
5	Cost of Power Purchase (as per norms)											
6	Total Working Capital											
7	Interest Rate (as per norms)											
8	Interest on Working Capital (actual)											

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form D 3.8

Return on Equity/Return on Net Fixed Assets

Name of Distribution Business/Licensee _____

Licensed Area of Supply _____

Rs. Crore

S.No.	Particulars	Ref.	Previous Year (n-1)				Current Year			Ensuing Year	Year	Year
			Approved in Tariff Order	Audited	Normative	Truing Up requirement	(n)			n+1	n+2	n+3
							Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)	(Projected)	(Projected)
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Equity at the beginning of the year											
2	Capitalisation											
3	Equity portion of capitalisation											
4	Equity at the end of the year											
	Return Computation											
5	Return on Equity at the beginning of the year	14%*(1)										
6	Return on Equity portion of capitalisation	14%*(3)/2										
7	Total Return on Equity	(5)+(6)										
	In case equity invested in the regulated Business is not clearly identifiable											
8	Net Fixed Assets net of Consumer Contribution & Grants (at the beginning of the year)	(8)										
9	Rate of return	3%										
10	Total return on net fixed assets	3% * (8)										

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form D 3.9

Tax on R.O.E.

Name of Distribution Business/Licensee _____
 Licensed Area of Supply _____

(Rs Cr)

S. No.	Particulars	Previous Year (n-1)			Current Year (n)	Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
		Approved in Tariff Order	Audited/ Normative	Truing Up requirement	Actual/ Estimated	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10
A)	Advance Tax assessed & deposited on-----								
a)	for Quarter I & deposited on 15 th June.								
b)	for Quarter II & deposited on 15 th Sept.								
c)	for Quarter III & deposited on 15 th Dec.								
d)	for Quarter IV & deposited on 15 th March.								
	Total---(A)								

Note:- Tax calculated should be only for the distribution business and should not include income from any other income stream like efficiency gain & incentive etc.

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form D 4.2

Consolidated report on additions to Fixed Assets during the year

Name of Distribution Business/Licensee

Licensed Area of Supply

Year (n-1)*

(Rs Cr)

S.No.	Asset Description	Asset Code	Total Addition to Assets	Date of commissioning
1	2	3	4	5

* Note : To be furnished separately for each year commencing from (n-1)th year to (n+3)th year.

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form D 4.3

General (Other debits, write offs or any other items)
--

Name of Distribution Business/Licensee _____
 Licensed Area of Supply _____

(Rs. Cr)

S.No.	Particulars (specify items)	Previous Year (n-1)			Current year			Ensuing Year	Year	Year	Remarks
					(n)			(n+1)	(n+2)	(n+3)	
		Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12
1											
2											
3											
4											
5											
Total											
Less											
Chargable to Capital Expenses											
Net chargable to revenue											

Note: - This form can be used for any other item not covered under specified forms eg.

1. Other Debits / Credits
2. Prior period Credits / charges

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form D 5.1

Consumer category wise Existing Tariff

Name of Distribution Business/Licensee _____

Licensed Area of Supply _____

S.No.	Particulars	Demand/ Fixed charges	Energy Charges	Fuel Adjustment Charges	Capacitor/ Power Factor charges	Rebate	LPS	Minimum Billing
1	2	3	4	5	6	7	8	9
	LT Categories	<Please specify Unit>	<Please specify Unit>	<Please specify Unit>	<Please specify Unit>	<Please specify Unit>	<Please specify Unit>	<Please specify Unit>
1	...							
2	...							
	HT Categories							
1	...							
2	...							
	Extra High Tension (EHT)							
1	...							
2	...							
	Bulk Consumers/ Licensees							
1	...							
2	...							

Note: consumer categories in forms are indicative only. Distribution Business/Licensee should indicate actual consumer categories as per tariff (as per existing tariff for previous & current year).

Form D 5.2

Consumer category wise Proposed Tariff

Name of Distribution Business/Licensee _____

Licensed Area of Supply _____

S.No.	Particulars	Demand/ Fixed charges	Energy Charges	Fuel Adjustment Charges	Capacitor/ Power Factor charges	Rebate	LPS	Minimum Billing
		<Please specify Unit>	<Please specify Unit>	<Please specify Unit>	<Please specify Unit>	<Please specify Unit>	<Please specify Unit>	<Please specify Unit>
1	2	3	4	5	6	7	8	9
	LT Categories							
1 ...								
2 ...								
	HT Categories							
1 ...								
2 ...								
	Extra High Tension (EHT)							
1 ...								
2 ...								
	Bulk Consumers/ Licensees							
1 ...								
2 ...								

Note: consumer categories in forms are indicative only. Distribution Business/Licensee should indicate consumer categories as per proposed schedule of tariff for ensuring years).

Form D 5.3

Revenue from Proposed Tariff

Name of Distribution Business/Licensee
Licensed Area of Supply

Ensuing Year (n+1)

S.No.	Particulars	No. of consumers	No. of consumers billed	Connected Load of consumers	Units sold	Demand/ Fixed charges	Energy Charges	Fuel Adjustment Charges	Excess Load excess demand charges
1	2	3	4	5	6	7	8	9	10
		Nos	Nos	KW	MUs	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh
	LT Categories								
1	...								
2	...								
	HT Categories								
1	...								
2	...								
	Extra High Tension (EHT)								
1	...								
2	...								
	Bulk Consumers/ Licensees								
1	...								
2	...								
	Revenue from sale of power outside the State								
	Sale through power exchange								
	Sale to other States								
	Sale through Traders								
	Total of items not shown categorywise								
	a) Reactive Energy Charges								
	b) Electricity Duty Recovery								
	c) Other state Levies Recovery								
	Total Duty & Levies								
	d) Wheeling charges Recoveries								
	e) Miscellaneous Charges from consumers								
1	...								
2	...								
3	...								
	Gross Revenue From Sale of Power								
30	Less: i) Electricity Duty Payable to Govt. (Contra)								
	ii) Other State Levies Payable to Govt. (Contra)								
	Net Revenue from Sale of Power (A29-A30)								

Form D 5.3

Revenue from Proposed Tariff

Name of Distribution Business/Licensee
Licensed Area of Supply

Ensuing Year (n+1)

S.No.	Particulars	Adjustment of past billing	Power factor surcharge/incentive	voltage rebate	load factor penalty/incentive	Other charges	DPS /LPS	Other Rentals	Misc. recoveries	Total Billing	Actual/Anticipated realisation	Average tariff
1	2	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	Rs Lakh	paisa/KWh
		11	12	13	14	15	16	17	18	19	20	21
	LT Categories											
1	...											
2	...											
	HT Categories											
1	...											
2	...											
	Extra High Tension (EHT)											
1	...											
2	...											
	Bulk Consumers/ Licensees											
1	...											
2	...											
	Revenue from sale of power outside the State											
	Sale through power exchange											
	Sale to other States											
	Sale through Traders											
	Total of items not shown categorywise											
	a) Reactive Energy Charges											
	b) Electricity Duty Recovery											
	c) Other state Levies Recovery											
	Total Duty & Levies											
	d) Wheeling charges Recoveries											
	e) Miscellaneous Charges from consumers											
1	...											
2	...											
3	...											
	Gross Revenue From Sale of Power											
30	Less: i) Electricity Duty Payable to Govt. (Contra)											
	ii) Other State Levies Payable to Govt. (Contra)											
	Net Revenue from Sale of Power (A29-A30)											

Note: consumer categories in forms are indicative only. Distribution Business/Licensee should indicate actual consumer categories as per tariff (as per existing tariff for previous & current year and as per proposed tariff for ensuing years).

Form D 6.1

Improvement in performance

Name of Distribution Business/Licensee _____
 Licensed Area of Supply _____

S.No.	Particulars	Ref	Previous Year	Current Year	MYT Control Period			Remarks
			(n-1)	(n)	(n+1)	(n+2)	(n+3)	
1	2	3	4	5	6	7	8	11
1	Distribution Losses, (%)							
2	Collection Efficiency, (%)							
3	Distribution losses for (%)							
(a)	Urban areas with population exceeding 1 lakh							
(b)	Industrial areas of load exceeding 5MVA#							
(c)	Rural areas							
4 (a)	Percentage of consumers billed							
4 (b)	Revenue realisation , (Rs Cr)							
5	Stopped Meters %							
6 (a)	Defective meters/metering arrangement%							
6 (b)	Replacement of Defective meters, %							
7	Supply availability %							
(1)	Base Load supply availability							
(a)	Actual contracted Base Load supply in MW							
(b)	Base Load in MW							
(c)	Base Load supply availability (%) (c=a/b)							
(2)	Peak Load supply availability							
(d)	Actual Contracted Peak Load Supply in MW							
(e)	Peak load in MW							
(f)	Peak Load Supply Availability (%) (c=a/b)							
	Supply availability % (0.75*c + 0.25*f)							
8	Transformer failure rate							
a.	Distribution transformers (%)							
b.	Power transformers (%)							

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form D 6.2

Appropriation of Distribution loss

Name of Distribution Business/Licensee _____

Licensed Area of Supply _____

Year (n-1)*

S.No.	Particulars	Previous Year (n-1)				
		(Actual/Audited)				
		Energy Input	Energy Sales	Energy sent to lower voltage	Distribution Loss	
		MKWh	MKWh	MKWh	Percent	MKWh
1	2	3	4	5	6	7
	Voltage-wise Apportionment of Distribution losses					
1	33 kV					
2	11 kV					
3	LT					
	Overall Distribution Loss					

* Note : To be furnished separately for each year commencing from (n-1)th year to (n+3)th year.

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations,

Form D 7.1

Category-wise Sales

Name of Distribution Business/L. _____

Licensed Area of Supply _____

Year (n-1)*

(MU)

S. No.	Consumer Category & Consumption Slab	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	HT Category													
	Category-1													
	Category-n													
	LT Category													
	Category-1													
	Category-n													
	Total													

Note : consumer categories in forms are indicative only. Distribution Business/Licensee should indicate actual consumer categories as per tariff (as per existing tariff for previous & current year and as per proposed tariff for ensuing years).

* Note : To be furnished separately for each year commencing from (n-1)th year to (n+3)th year.

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form D 7.2

Distribution Losses

Name of Distribution Business/L _____

Licensed Area of Supply _____

Year(n-1)*

S. No.	Voltage Level	No of Feeders	Feeders metered	Energy Input	Energy Sent to lower network	Direct Sale	Total Output	Total Losses	Total Losses (% of Energy Input)	Total Technical Loss	Total technical Losses (% of Energy Input)	Total Commercial Loss	Total Commercial Losses (% of Energy Input)
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Circle 1													
Circle 2													
Circle 3													
...													

* Note : To be furnished separately for each year commencing from (n-1)th year to (n+3)th year.

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form D 7.3

Collection Efficiency

Name of Distribution Busin: _____

Licensed Area of Supply _____

(Rs. Crore)

S. No.	Particulars	Previous Year (n-1)	Current Year (n)	Ensuing Year (n+1)	Year (n+2)	Year (n+3)	Remarks
		(Actuals/Audited)	Estimated	(Projected)	(Projected)	(Projected)	
1	2	3	4	5	6	7	8
	HT Category						
	Category-1						
	Category-n						
	LT Category						
	Category-1						
	Category-n						
	Total						

Note: 1. Collection Efficiency should be calculated after taking into account provision for bad debts (as per Tariff Policy para 8.2.1(IV))

Note: 2. consumer categories in forms are indicative only. Distribution Business/Licensee should indicate actual consumer categories as per tariff (as per existing tariff for previous & current year and as per proposed tariff for ensuring year).

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC (Terms and Conditions for Determination of Tariff) Regulations, 2014

Form D 8**Deviation Analysis**

Name of Distribution Business/Licensee _____

Licensed Area of Supply _____

Year (n-1)

(Rs. Crore)

S. No.	Particulars	Approved	Actual	Deviation	Reason for Deviation	Controllable	Uncontrollable
1	2	3	4	5	6	7	8
1	Cost of own power generation/power purchase						
2	Transmission Charges						
3	NLDC/RLDC/SLDC Charges						
4	Operation & Maintenance Expenses						
4.1	Employee Expenses						
4.2	Administration & General Expenses						
4.3	Repair & Maintenance Expenses						
5	Interest and finance charges on long term loans						
6	Depreciation						
7	Interest on Working Capital						
8	Interest on consumer security deposits and deposits from Users of the distribution system						
9	Any other item (to be specified)						
10	Contribution to contingency reserves						
11	Provisioning for Bad debts, if any						
A	Total Expenditure						
B	Return on Equity						
C	Tax on ROE						
D	Revenue						
1	Revenue from sale of electricity						
2	Other Income						

Note: Please give detailed explanation separately for the deviations on account of uncontrollable factors

Form D 9

Consumer category-wise Cross-subsidy

Name of Distribution Business/Licensee _____

Licensed Area of Supply _____

(n+1)th year

S.No.	Particulars	Average Cost of Supply (Rs./unit)	Average Billing Rate		Ratio of Average Billing Rate to Average Cost of Supply (%)		Proposed percentage increase in tariff (%)
			As per latest Tariff Order	Proposed by Distribution Business/Licensee	As per latest Tariff Order	Proposed by Distribution Business/Licensee	
1	2	3	4	5	6	7 = 5 / 3	8 = 5 / 4
	LT Categories						
1	...						
2	...						
3	...						
	High Tension (HT)						
1	...						
2	...						
3	...						
4	...						
	Extra High Tension (EHT)						
23	EHT 66 kV						
24	EHT 110 kV						
25	EHT 220 kV						
26	Railway Traction						
27	Bulk Consumers/ Licensees						
	Kinesco Power Utilities Private Limited						
	Cochin Special Economic Zone						
	Rubber Park India Pvt Ltd						
	Technopark						
	Cochin Port Trust						
	Thrissur Municipal Corporation						
	Kanan Devan Hills Plantation Corporation Limited						
	Infopark						
	Military Engineering Services						
	Electricity Department Pondicherry						
	Electricity Department Karnataka						

Note: consumer categories in forms are indicative only. Distribution Business/Licensee should indicate actual consumer categories as per tariff (as per existing tariff for previous & current year).

Form D P&L

Profit & Loss Account

Name of Distribution Business/Licensee _____

Licensed Area of Supply _____

S.No.	Particulars	Ref	Previous Year	Previous Year	Remarks
			(n-1)	(n-2)	
1	2	3	4	5	6
	I. INCOME				
	a. Revenue from Sale of Power				
	b. Revenue Subsidies and Grants				
	c. Other Income				
	Total (a+b+c)				
	II. EXPENDITURE				
	a. Repairs and Maintenance.				
	b. Employee Cost				
	c. Administration and General Expenses				
	d. Depreciation				
	e. Interest and Finance charges				
	f. Subtotal (a+b+c+d+e)				
	g. Less Capitalised Expenses:				
	- Interest & Finance Charges				
	- Other Expenses				
	h. Other Debits				
	I. Extra Ordinary Items				
	j. Purchase of power				
	k. Generation of Power				
	Total Expenditure (f-g+h+i+j+k)				
	III. Profit/(Loss) before Tax (I-II)				
	IV. Provision for Income Tax				
	V. Net Prior period credits (Charges)				
	VI. Surplus (Deficit)				
	VII. Net Assets at the beginning of the year (Less consumer's Contribution)				
	VIII. Rate of Return (VI/ VII)				

Note: Reconciliation between audited accounts and amounts for distribution business should be furnished.

KSEBL SBU-wise P&L Account

Profit & Loss Account

KSEB Limited

S.No.	Particulars	Ref	Audited Accounts of Licensee	Electricity Distribution Business	Other Business	Remarks
1	2	3	4	5	6	7
	I. INCOME					
	a. Revenue from Sale of Power					
	b. Revenue Subsidies and Grants					
	c. Other Income					
	Total (a+b+c)					
	II. EXPENDITURE					
	a. Repairs and Maintenance.					
	b. Employee Cost					
	c. Administration and General Expenses					
	d. Depreciation					
	e. Interest and Finance charges					
	f. Subtotal (a+b+c+d+e)					
	g. Less Capitalised Expenses:					
	- Interest & Finance Charges					
	- Other Expenses					
	h. Other Debits					
	i. Extra Ordinary Items					
	j. Purchase of power					
	k. Generation of Power					
	Total Expenditure (f-g+h+i+j+k)					
	III. Profit/(Loss) before Tax (I-II)					
	IV. Provision for Income Tax					
	V. Net Prior period credits (Charges)					
	VI. Surplus (Deficit)					
	VII. Net Assets at the beginning of the year (Less consumer's Contribution)					
	VIII. Rate of Return (VI/ VII)					

Note: Reconciliation between audited accounts of KSEBL Limited and amounts for each SBU should be furnished.
Note: Above details should be submitted for (n-1)th year, for which audited accounts are available

Small Distribution Licensee - licensed business P&L Account

Profit & Loss Account

Name of Distribution Licensee _____

S.No.	Particulars	Ref	Audited Accounts	Generation SBU	Transmission SBU	Distribution SBU	SLDC	Remarks
1	2	3	4	5	6	7	8	9
	I.INCOME							
	a. Revenue from Sale of Power							
	b. Revenue Subsidies and Grants							
	c. Other Income							
	Total (a+b+c)							
	II. EXPENDITURE							
	a. Repairs and Maintenance.							
	b. Employee Cost							
	c. Administration and General Expenses							
	d.Depreciation							
	e.Interest and Finance charges							
	f. Subtotal (a+b+c+d+e)							
	g. Less Capitalised Expenses:							
	- Interest & Finance Charges							
	- Other Expenses							
	h. Other Debits							
	I. Extra Ordinary Items							
	j. Purchase of power							
	k.Generation of Power							
	Total Expenditure (f-g+h+i+j+k)							
	III. Profit/(Loss) before Tax (I-II)							
	IV. Provision for Income Tax							
	V.Net Prior period credits (Charges)							
	VI. Surplus (Deficit)							
	VII. Net Assets at the beginning of the year (Less consumer's Contribution)							
	VIII. Rate of Return (VI/ VII)							

Note: Reconciliation between audited accounts of KSEBL Limited and amounts for each SBU should be furnished.

Form D BS

Balance Sheet at the end of the year

Name of Distribution Business/Licensee _____

Licensed Area of Supply _____

S.No.	Particulars	Ref	Previous Year (n-1)	Previous Year (n-2)	Remarks
1	2	3	4	5	6
	Sources of Funds:				
	(A) Capital Funds:				
	Share Capital (Govt. equity)				
	Reserves & Surplus				
	Total (A)				
	(B) Loan from State Government				
	Loan from others :				
	-Secured				
	-Unsecured				
	Total (B)				
	(C) Contribution, grants & subsidies towards cost of capital assets				
	Provident Fund				
	Terminal Benefit Fund				
	Borrowings for working capital				
	Grand total of sources of funds (A+B+C)				
	Application of Funds:				
	A) Fixed assets				
	a) Gross fixed assets				
	b) Less accumulated depreciation				
	c) Net Fixed assets((a)-(b))				
	d) Capital works in progress				
	e) Assets not in use				
	f) Deferred costs				
	g) Intangible assets				
	h) Investments				
	Total (c)+(d)+(e)+(f)+(g)+(h)				

	B)Subsidy receivable from Government				
	Contribution receivable from State Government towards pension liability				
	C) Net Current Assets				
	(1) Current assets, loans and advances				
	a) Inventories*				
	b) Receivables against Sale of Power				
	c) Cash & bank balances				
	d) Loans and advances				
	e) Sundry receivables				
	Total (C) (1)				
	(2) Current liabilities & provisions				
	a) Security Deposits from Consumers				
	b) Borrowings for wrking capital				
	c) Payments due on Cap. liabilities				
	d) Other current liabilities				
	Total (C) (2)				
	Net Current Assets (C(1)) - (C(2))				
	Grand Total of Application of funds (A)+(B)+(C)				

Note: Reconciliation between audited accounts and amounts for distribution business should be furnished.

Form D CF

Cash Flow for the year

Name of Distribution Business/Licensee _____

Licensed Area of Supply _____

S.No.	Particulars	Ref	Previous Year	Previous Year	Remarks
			(n-1)	(n-2)	
1	2	3	4	5	6
I	Net Funds from Operations				
1a	Net Funds from Earnings :				
	a) Profit before tax and before revenue subsidies and grants				
	Less : Income Tax Payment during the year				
	Total of (a)				
	b. Add: Debits to revenue account not requiring cash Flow:				
	I) Depreciation				
	ii) Amortisation of Deferred costs				
	iii) Amortisation of Intangible Assets				
	iv) Investment Allowance Reserve				
	v) Others, if any				
	Total of (b)				
	c. Less : Credits to revenue Account not involving cash receipts				
	I) Depreciation				
	ii) Subsidies receivables				
	iii) Revenue gap				
	Total of (c)				
	Net Funds from Earnings (a)+(b)-(c)				
2	Contributions, Grants & Subsidies to cost of Capital Assets				
3	Security Deposit from consumers				
4	Proceeds from disposal of fixed Assets				
5	Total Funds from Operations (1+2+3+4)				
6	Net Increase/(Decrease) in working Capital				
	(a) Increase/(Decrease) in Current Assets				
	I) Inventories				
	ii) Receivables against sale of power				
	iii) Loans and Advances				
	iv) Sundry receivables				
	v) Subsidy receivables				
	Total of (a)				

	(b) Increase/(Decrease) in Current liabilities				
	i) Borrowings for working Capital				
	ii) Other current liabilities				
	iii) Others (Increase in Reserve + payment due on cap.liab)				
	Total of (b)				
	Net Increase/(Decrease) in working Capital (a)- (b)				
7	Net Funds from operations before subsidies and Grants (5-6)				
8	Receipts from revenue subsidies and Grants				
	Total Net Funds from operations including subsidies & Grants (7+8)				
II.	Net increase/ decrease in Capital liabilities				
	a. Fresh borrowings				
	i) State Loans				
	ii) Foreign currency Loans / Credits				
	iii) Other borrowings				
	Total of (a)				
	b) Repayments :				
	i) State Loans				
	ii) Foreign currency Loans / Credits				
	iii) Other borrowings				
	Total of (b)				
	Net Increase/(Decrease) in Capital liabilities (a) - (b)				
III.	Increase/(Decrease) in equity Capital				
IV.	Total Funds available for Capital Expenditure (I+II+III)				
V	Funds utilised on Capital Expenditure				
	a) On projects				
	b) Advance to Suppliers & Contractors				
	c) Intangible Assets				
	d) Deferred Cost				
	Total of V (a+b+c+d)				
VI	Net Increase/(Decrease) in Government contribution				
VII	Net Increase/(Decrease) in Terminal benefit fund				
VIII	Net Increase/(Decrease) in Provident fund				
IX	Net Increase/(Decrease) in investments				
X	Net Increase/(Decrease) in cash/ bank balance (IV - V - VI)				
XI	Add opening cash & Bank balance				
XII	Closing Cash & Bank balance (VII+VIII)				

Note: Reconciliation between audited accounts and amounts for distribution business should be furnished.