

BEFORE THE
HON'BLE TAMIL NADU ELECTRICITY REGULATORY COMMISSION
AT CHENNAI

Filing No. :

Case No. : M.P. No. of 2017.

IN THE MATTER OF : Praying for Approval of Aggregate Revenue Requirement (ARR) of the SLDC for the FY 2017-18 & 2018-19

State Load Despatch Centre (SLDC),
TANTRANSKO,
144, Anna Salai,
Chennai -600 002.

..... **Petitioner**

Versus

NIL

..... **Respondent**

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FY 2017-18 & 2018-19**

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The petitioner named above respectfully showeth as under:

1. It is submitted that as per part-VII (section 61 to section 64) of the Electricity Act, 2003 and the TNERC (Terms and conditions of Determination of Tariff) Regulations 2005, and Amendments issued from time to time, the licensee (TANTRANSCO) shall file a separate Aggregate Revenue Requirement (ARR) for the State Load Despatch centre before the Hon'ble TNERC.
2. It is respectfully submitted that a Petition has already been filed by the Tamil Nadu Transmission Corporation Ltd before the Hon'ble Commission vide M.P.3 of 2017 before this Hon'ble Commission praying approval of ARR for the Transmission function of TANTRANSCO for the FY 2016-17 to 2018-19 alongwith true up for the FY 2011-12 to the FY 2015-16.

3. It is respectfully submitted that the Aggregate Revenue Requirement for the period 2017-18 & 2018-19 for SLDC is being filed before this Hon'ble Commission for approval.

4. It is prayed that this Hon'ble commission may be pleased to approve the Aggregate Revenue Requirement (ARR) of SLDC for the financial year 2017-18 & 2018-19 and pass any other order as the Hon'ble Commission may deem fit.

PETITIONER

**BEFORE THE HON'BLE
TAMIL NADU ELECTRICITY REGULATORY COMMISSION,
CHENNAI**

**FILING OF THE PETITION FOR APPROVAL OF AGGREGATE REVENUE
REQUIREMENT FOR FY 2017-18 AND FY 2018-19**

**UNDER TNERC (TERMS AND CONDITIONS FOR DETERMINATION OF TARIFF)
REGULATIONS, 2005 AND TNERC (MULTI YEAR TARIFF FRAMEWORK)
REGULATIONS, 2009 AMENDED FROM TIME TO TIME**

&

**UNDER PART VII (SECTION 61 TO SECTION 64) OF THE ELECTRICITY ACT, 2003
READ WITH THE RELEVANT GUIDELINES**

**FILED BY
STATE LOAD DESPATCH CENTRE, CHENNAI**

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List of Abbreviations

Sr. No	Abbreviations	Descriptions
1.	A&G	Administrative and General
2.	ARR	Aggregate Revenue Requirement
3.	CAPEX	Capital Expenditure
4.	CERC	Central Electricity Regulatory Commission
5.	Crs	Crores
6.	FY	Financial Year
7.	GFA	Gross Fixed Assets
8.	GoTN	Government of Tamil Nadu
9.	LDC	Load Despatch Centre
10.	LTOA	Long Term Open Access
11.	MTOA	Medium Term Open Access
12.	MYT	Multi Year Tariff
13.	NTP	National Tariff Policy
14.	O&M	Operation & Maintenance
15.	LT	Low Tension
16.	MOU	Memorandum of Understanding
17.	MU	Million Units (Million kWh)
18.	MVA	Mega Volt Ampere
19.	MW	Mega Watt
20.	P&C	Protection and Communication
21.	R&M	Repair and Maintenance
22.	RLDC	Regional Load Despatch Centre
23.	ROE	Return on Equity
24.	Rs	Rupees
25.	SBI	State Bank of India
26.	SLDC	State Load Despatch Centre
27.	STOA	Short Term Open Access
28.	T&D	Transmission and Distribution
29.	TANGEDCO	Tamil Nadu Generation and Distribution Corporation Limited
30.	TANTRANSCO	Tamil Nadu Transmission Corporation Limited
31.	TNEB	Tamil Nadu Electricity Board
32.	TNERC	Tamil Nadu Electricity Regulatory Commission

1. OVERVIEW OF STATE LOAD DESPATCH CENTRE, CHENNAI

1.1 Preamble

1.1.1 This section presents the background and reasons for filing of this Petition.

1.2 Background

1.2.1 Tamil Nadu Electricity Board (TNEB) came into existence on 1st July 1957 under the repealed Act of Electricity (Supply) Act 1948 and has been in the business of generation, transmission and distribution of electricity in the state of Tamil Nadu.

- Grid operation in Tamil Nadu started by November 1964.
- The first Load Despatch Centre was operated from Erode.
- Subsequently the Main load Despatch Centre was formed in 1986 at Chennai and Sub Load Despatch Centre at Madurai.
- Currently the State Load Despatch Centre (SLDC) is functioning at Chennai with three Sub- Load Despatch Centres at Chennai, Erode and Madurai.

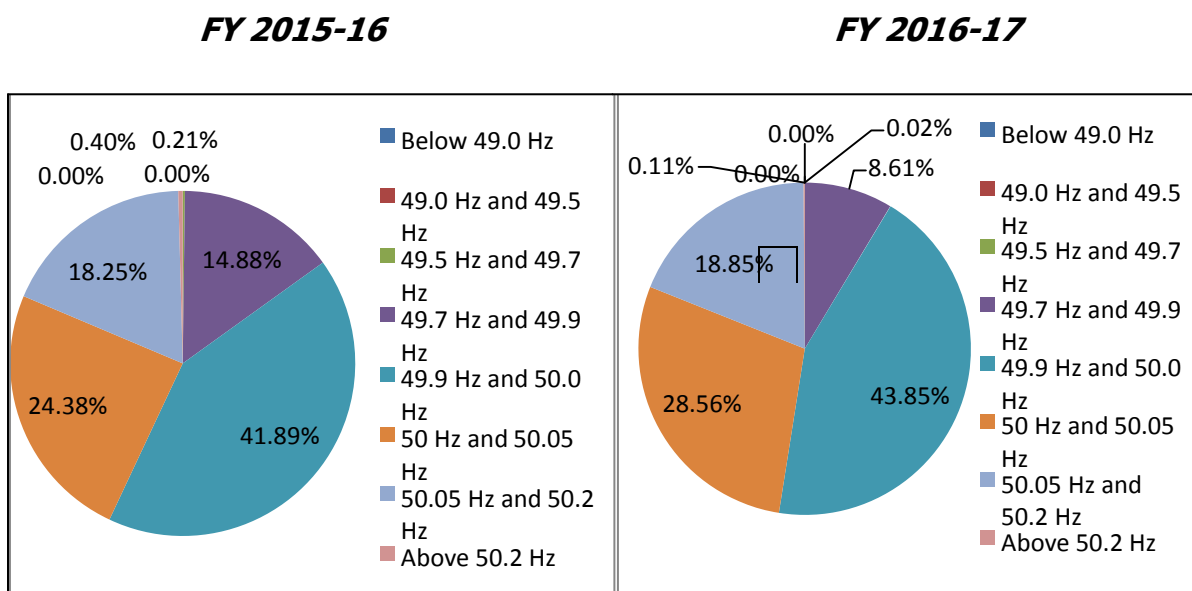
1.2.2 Over the last few decades, there has been significant interest in opening the Electricity sector to competition and, by extension, interest in designing electricity markets to push the sector towards more efficient outcomes. Accordingly, the Electricity Act, 2003 ("the Act" or "EA 2003") was enacted with effect from 10th June, 2003 which requires the State Governments to initiate major changes in the Industry Structure and Operations of the state power sector. The objective of the enactment was to make competition feasible or desirable in a sector that has been vertically integrated and highly regulated and State owned.

1.2.3 In line with the Electricity Act 2003, Sections 131 to 134 mandates reorganisation of the State Electricity Boards into functional entities and corporatisation of the same. Regardless of the design of the electricity sector reforms, the ultimate goal of reforms is to make the sector more efficient. Therefore, in order to meet the requirements under the Act and to become more efficient and competitive, the Government of Tamil Nadu (GoTN) and the Tamil Nadu Electricity Board (TNEB) proposed to restructure the state power sector.

- 1.2.4 In accordance with the above mandate the Government of Tamil Nadu (GoTN) had given in- principle approval for the re-organization of TNEB by establishing a holding company, named TNEB Ltd and two subsidiary companies, namely Tamil Nadu Transmission Corporation Limited (TANTRANSCO) and Tamil Nadu Generation and Distribution Corporation Limited (TANGEDCO) vide G.O.Ms.No.114 Energy (B2) Department dated 8th October 2008 with the stipulation that the aforementioned companies shall be fully owned by the State Government.
- 1.2.5 Subsequently, the audited balance sheet as on 31.10.2010 was ready and as a result final transfer scheme was notified by the Government of Tamil Nadu vide G.O.Ms No.49, Energy (B1) department, dated 13th August 2015, which is the final amendment to the earlier transfer scheme (G.O. (Ms).No.100 Energy (B2) Department dated 19th Oct 2010 and G.O. (Ms.) No.2, Energy (B2) department, dated 2nd January 2012) which gave effect to the transfer of assets and liabilities to the successor entities of erstwhile TNEB as on 01.11.2010.
- 1.2.6 Post restructuring, TANTRANSCO as per the notification was provided with the function of transmission of electricity in the State of Tamil Nadu. The State Transmission Utility (STU) TANTRANSCO has been vested with the State Load Despatch functions till further orders of the State Government from the date of transfer.
- 1.2.7 As per Section 31(1) of the Electricity Act, 2003, the State Government shall establish a State Load Despatch Centre (SLDC). Section 31(2) also provides that the said SLDC shall be operated by a Government company / authority / corporation constituted by or under any State Act and that until such company /authority / corporation is notified by the State Government, the State Transmission Utility (STU) shall operate the SLDC.
- 1.2.8 The Load Dispatch Centre of Tamil Nadu is divided into three control areas viz Chennai, Madurai and Erode and the area Load Despatch Centres in each area takes care of the operation of the respective area.
- 1.2.9 The State Load Despatch Centre is functioning at Chennai with three Sub-Load Despatch Centres at Chennai, Erode and Madurai carrying out the grid management and taking care of the overall reliability, security,

economy and efficiency of the power system function for smooth evacuation of power from generating stations to the consumers.

1.2.10 The average system frequency maintained by SLDC, Chennai was **49.98 Hz** and **50.00 Hz** in FY 2015-16 and FY 2016-17 respectively. The chart below represents the frequency being maintained at the optimal frequency of 49.9Hz to 50.0Hz for most time of the year (41.89% and 43.85% in FY 2015-16 and FY 2016-17 respectively).



1.3 Role of SLDC and their functions:

1.3.1 In accordance with section 32 of Electricity Act, 2003 roles and functions of SLDCs are as under:

1.3.2 SLDCs shall:

- Shall be the apex body to ensure integrated operation of the power system in a State.
- Be responsible for optimum scheduling and despatch of electricity within a State in accordance with the contracts entered into with the licensees or the generating Companies operating in that State.
- Monitor grid operation.
- Keep accounts of the quantity of electricity transmitted through State grid.
- Exercise supervision and control over the intra -State transmission system.
- Be responsible for carrying out real time operation for grid control and despatch of electricity within the State through secure and economic

operation of the State Grid in accordance with the Indian Electricity Grid Code (IEGC) and Tamil Nadu Electricity Grid Code.

- Levy and collect application and Scheduling & System Operation Charges from the generating companies and licensees engaged in intra-State transmission of electricity as may be specified by the State Commission.

1.3.3 The grid management function in the SLDC can be segregated into pre-planning, real-time and post-facto functions.

1.3.4 The pre-planning functions are more in the nature of forecasting for the day, month and current which involves estimating the future scenarios, evaluating options and making elaborate plans to meet the anticipated as well as unforeseen events by TANGEDCO.

1.3.5 The real time function is balancing the dynamically varying supply and demand at any moment in the interconnected system as per Indian Electricity Grid Code (IEGC) 2010. The Vital grid parameters such as frequency, node voltages, transmission line loading, transformer loading, etc. are also monitored round the clock and suitable action is taken in case the values of the above parameters are seen to be outside the permissible bands. The operating band have been specified in the Indian Electricity Grid Code (IEGC), approved by Central Electricity Regulatory Commission (CERC) with commercial mechanism for implementation of Availability Based Tariff (ABT) with frequency linked rate.

1.3.6 Post facto functions involve grid performance reporting, Analysis of events, settlement of accounts and data acquisition for the past period.

1.4 Open Access:

1.4.1 Under Open Access, SLDC is taking care of the following activities.

- Permitting Inter-State Open access to the HT consumers for purchase of power from outside Tamil Nadu through traders under Bilateral transaction.
- Permitting Inter-State Open access to the HT consumers for purchase of power from Power Exchanges (PXIL and IEX Ltd) under collective transaction.

- Permitting Intra-State Open access to the HT consumers for purchase of power from the generators within Tamil Nadu.
- Permitting Inter-State Open access to the Intrastate Private Generators for selling of power through Bilateral transaction.
- Permitting Inter-State Open access to the Intrastate Private Generators for selling of power through Power Exchanges (PXIL and IEX Ltd) under collective transaction.

1.4.2 SLDC is also granting connectivity and permitting Long Term Open Access (LTOA), Medium Term Open Access (MTOA) and Short Term Open Access (STOA) for the captive Power Plants and Generators.

1.4.3 SLDC, Chennai has granted short term open access to an average 789 consumers during the FY 2016-17.

1.5 Renewable Purchase Obligation (RPO), Renewable Energy Certificates (REC)

1.5.1 SLDC is the Nodal Agency for monitoring RPO for all the following categories of consumers as "Obligated Entity".

- a) Distribution Licensees
- b) Captive and Open access consumers

1.5.2 SLDC is the Nodal Agency for Accreditation of Renewable Energy Generators and issuance of Energy Injection Reports under Renewable Energy Certificate(REC) mechanism.

1.6 Implementation of Intrastate ABT in Tamil Nadu:

1.6.1 In order to implement Intrastate ABT in Tamil Nadu, a grant of 11.98 Crore from Power System Development Fund (PSDF) has been sanctioned by Ministry of Power vide their letter dt 02.01.2017 for establishment of IT infrastructure and procurement of CT and PT for implementation of Intrastate ABT in Tamil Nadu. The project cost is Rs 13.31 Crore out of which 90% (11.98 Crores) will be funded from PSDF and the remaining 10% (1.33 Cr.) has to be contributed by TANTRANSCO.

1.7 Renewable Energy Management Centre (REMC)

1.7.1 The Government of India has targeted 175 GW of Renewable Energy by 2022, for which CEA, MNRE, PGCIL etc., are in the process of executing several programs. One of the program is establishment of Renewable Energy Management Centre (REMC) towards managing the huge quantum of Renewable energy in the grid in RE rich States including Tamil Nadu.

1.7.2 Tamil Nadu leads the country in Renewable Energy with an installed capacity of about 7686 MW in wind and 1506 MW in Solar. The State has an ambitious plan for promotion of more no. of wind / solar Power Projects.

1.7.3 The Renewable Energy Management Centre (REMC) will contribute to the following:

- Effective grid management in handling huge and variable Renewable energy, within the prescribed frequency bandwidth.
- Balancing conventional power generation and RE generation at ease.
- Aid the SLDC to manage the grid without any difficulty, even with the sudden variation of wind / Solar energy. (There is intraday variation of about 200 MW to 2500 MW experienced in the grid)
- The wind forecasting and scheduling forms an integral part of the REMC.
- National Institute of Wind Energy (NIWE), Chennai in collaboration with Swedish weather forecasting Company, supported by MNRE has launched a pilot project on forecasting of wind energy on 13.05.2015.
- MNRE has announced financial assistance for setting up of REMC.

1.8 Vision & Mission of SLDC

1.8.1 Ensuring security, economy and efficiency of the power system in the State and adopt Best Practices in the grid operation in maintaining the grid discipline

1.8.2 Ways to fulfill Vision & Mission

1.8.2.1 Developing,

- Extensive coordination with the operating personnel of the power system down the line.

- Decision taking capability at the critical moment.
- Awareness about the present techno-commercial scenario of the power sector among the operating personnel.
- Dedication towards the quality service and making the company as profit oriented.

1.9 Ring-fencing of State Load Despatch Centre (SLDC)

1.9.1 The Govt. of India, Ministry of Power (MoP) vide Order dated 04.02.2008 constituted a Committee under the Chairmanship of Sri Gireesh B Pradhan, Additional Secretary to MoP to examine the issues for ring fencing of State Load Despatch Centre to ensure their functional autonomy and give recommendation.

1.9.2 The relevant extracts from the recommendation of the above committee for functional autonomy of the Load Despatch Centre are as follows:

- a) The Load Despatch Centre should be ring fenced suitably to ensure their functional autonomy by taking the following steps.
 - The Appropriate Government should take suitable steps to facilitate independent functioning of the Load Despatch Centre in line with the Electricity Act 2003 and National Electricity Policy. To begin with, the State Governments are urged to create a separate representative board structure for governance of LDCs on the lines of wholly owned subsidiary being created for the independent System Operation of RLDCs and NLDC.
 - The financial accounts should be separated for all LDCs by 31st March 2009 with the appropriate State Electricity Regulatory Commissions (SERC) specifying the fees and charges payable.
- b) For making Load Despatch Centre financially self-reliant, the Electricity Regulatory Commission should recognize the three distinct revenue streams mentioned as under;
 - Fees and charges for system operation and market operation
 - Tariff for decision support system and IT infrastructure (presently only ULDC tariff)
 - Operating charges for scheduling, metering and settlement for market players. Hon'ble Commission under Section 86(2)(iii) of

the Act 2003 advised the State Govt. for recognition and restructuring of SLDC separating from TANTRANSCO- the STU notifying an appropriate Transfer Scheme by 3 to 5 years positively as suggested for in the Electricity Act 2003 Amendment proposals given by CEA.

1.9.3 It is humbly submitted that the Hon'ble Tamil Nadu Electricity Regulatory Commission (TNERC) vide letter dated 21.09.2012 & 14.11.2012 have issued a road map for implementation of levy of annual fee and operating charges for SLDC functions in Tamil Nadu in order to separate SLDC charges from the existing transmission charges of TANTRANSCO with effect from 01.04.2013 to make SLDC self-reliant..

1.9.4 Further, in the report submitted by the "Task Force on Capital Expenditure and issues related to Emolument for Personnel in Load Despatch Centre" in the Salient points of part-I 1, it is mentioned that:

- Ownership of new Remote Terminal Units(RTUs) should rest with the entities in whose premises these RTUs would be located. Regarding ownership of existing as well as work-in-progress RTUs in central sector stations and state sector stations, these could rest with the CTU and STUs / SEBs respectively as per the prevailing arrangement. However in due course of time, modalities for their transfer to actual entities can be planned by mutual consent.
- The responsibility of owning and providing the communication system from sub-station to the nearest control centers as well as between control centers should continue to be that of CTU or STUs / SEBs. However, in case of any special requirements the LDCs can access, plan and take a lease such communication system from other telecom service providers also.
- The computer system along with software and peripherals located in the control center building of NLDC/RLDCs and SLDC/Sub-LDCs should be transferred to respective entities managing these LDCs.

1.9.5 Accordingly, the application for approval for collection of Fees & Charges by SLDC for the aggregate period FY 2017-18 and FY 2018-19 has been prepared in line with the provision mentioned in the CERC (Fees & Charges of RLDC & other related matters) Regulations, 2009, TNERC (Fees & Charges of SLDC & other related matters) Regulations, 2010 and considering the following recommendation of the MOP Committee Report.

- a) SLDC is to be equipped suitably to play the pivotal role of an Independent System Operator (ISO).
- b) Power system operation is the core activity of LDCs. Efficient load dispatching also requires a deep understanding of Transmission, Generation and Distribution technology. In view of the above, the executives shall be from electrical engineering discipline. Efforts are to be made to supplement them with inter disciplinary learning and development.

1.9.6 As per the recommendation in the report of the task force committee on "Capital Expenditure and Issues related to Emoluments for Personnel in Load Despatch Centres", the assets pertaining to the Control Centre (SLDC) has to be handed over to the State Load Despatch Centres. Provision for recovery of the outstanding amount for investments made by the POWERGRID on ULDC project shall be kept in the ARR of SLDC and hence the cost of ULDC/SCADA up-gradation of Rs.19.07 Crs have been included in the ARR for the FY 2016-17 and FY 2017-18.

1.10 Provision of CAPEX Plan

1.10.1 The CAPEX plan and expenditure for SLDC has been proposed for the ensuing FY 2017-18 and 2018-19.

1.10.2 Provision of AMC charges for SCADA, Facility Management Services (FMS) for providing IT support, Website Charges for maintenance of SLDC website have been made under O&M expenditure.

1.11 Organisational structure and their Functions (Provisional)

1.11.1 As per the directions of Hon'ble Commission vide order dated 20.03.09, the functional organizational structure of SLDC has been prepared in line with SRLDC structure for discharging SLDC functions smoothly as per the provisions of the Act to facilitate an independent system

operator in order to ensure an efficient, reliable and secure power system operation and merit order dispatch of electricity pending finalisation of National Power Committee (NPC) structure.

1.12 Energy Catered by system in FY 2015-16 and FY 2016-17

1.12.1 The energy catered by SLDC, Chennai in FY 2015-16 and FY 2016-17 is outlined below.

Table 1: Energy Catered by System in FY 2015-16 and FY 2016-17

Energy Catered in System (in MU)	FY 2015-16 (MU)	FY 2016-17 (MU)
Total Energy Catered	99679.54	105151.78
Max Catered in a day	327.02	345.62
Min Catered in a day	143.55	200.63
Demand Catered in system (in MW)	FY 2015-16 (MW)	FY 2016-17 (MW)
Average demand catered	13500	14600
Max demand catered	14538	15343
Min demand catered	4723	6409
Unrestricted demand (in MW)	FY 2015-16 (MW)	FY 2016-17 (MW)
Max unrestricted demand	14538	15343

2. OVERALL APPROACH FOR PRESENT FILING

2.1 Present Approach

- 2.1.1 In order to ensure that SLDC discharges the functions and duties entrusted with it in the Electricity Act 2003, in an efficient and effective manner, the Tamil Nadu Electricity Regulatory Commission (TNERC) imparted directions to TANRANSCO to take steps to ring fence SLDC. TNERC vide Order No. T.P. No. 2 of 2013 dated 20/06/2013 directed TANRANSCO to file separate petition for SLDC's ARR in accordance with TNERC Tariff Regulations and again reiterated the same vide Order No. 8 of 2014 dated 11/12/2014.
- 2.1.2 Also as per the APTEL's judgement in Appeal No. 197 dated 18th October 2014, TANRANSCO should ensure filing of a separate petition with regard to approval of SLDC charges before the State Commission.
- 2.1.3 Therefore, in accordance with section 62 of the Electricity Act 2003 and Regulation 5 of the TNERC (Terms and Conditions for Determination of Tariff) Regulations, 2005, SLDC, Chennai is now filing this present petition for determination of the Aggregate Revenue Requirement (ARR) for FY 2017-18 and FY 2018-19.
- 2.1.4 As per the Amendment to Tamil Nadu Electricity Regulatory Commission Terms and conditions for determination of tariff for intra state transmission / Distribution of Electricity under MYT framework Regulations 2009 dated 28th November 2012, the control period is defined as:
- "(i) Control Period: The control period under the MYT framework shall be for duration of 3 years. The year preceding the first year of the control period shall be the base year."*
- 2.1.5 Based on the above amendment, the control period will be from FY 2016-17 to FY 2018-19. However, since the annual accounts for FY 2016-17 is under preparation, the provisional figures for 2016-17 has been submitted and same is considered as the base figures for projection purpose for FY 2017-18 and FY 2018-19. Therefore, the petitioner requests the Hon'ble Commission to consider the FY 2017-18 and FY 2018-19 as the control period for SLDC, Chennai.

- 2.1.6 As this is the first instance of filing petition for approval of ARR for SLDC, the petitioner requests the Hon'ble Commission to approve the ARR for the FY 2017-18 and FY 2018-19 only.
- 2.1.7 It is also submitted that the segregation of accounts between TANTRANSCO and SLDC is still under process and the petitioner is taking efforts to maintain separate accounts from FY 2017-18 onwards. Therefore, the ARR submitted is on provisional basis and in certain cases, assumptions has been made applicable for projection purpose.
- 2.1.8 The petitioner also requests the Hon'ble Commission to revise the income from scheduling and operating charges projected in the TANTRANSCO petition filed on 28th January, 2017 in line with the projections made for ARR for FY 2017-18 and FY 2018-19 in the present petition.

2.2 Regulatory Framework

- 2.2.1 TANTRANSCO has considered the norms as specified by TNERC Tariff Regulations 2005, TNERC MYT Regulations, 2009 and its subsequent amendments. However certain deviation has been considered with a justification for the purpose of this petition and it is requested to approve the same.

3. AGGREGATE REVENUE REQUIREMENT OF SLDC FOR FY 2017-18 AND FY 2018-19

3.1.1 This section deals with the determination of ARR of SLDC, Chennai for the FY 2017-18 and FY 2018-19 based on the relevant provisions of Tariff Regulations.

3.2 Operation and Maintenance Expenses

3.2.1 The provisional actual O&M Expenses for FY 2016-17 have been considered as base and the O&M expenses for FY 2017-18 and FY 2018-19 have been arrived at on the basis of escalation over the O&M expense of FY 2016-17. O&M expenses comprises of employee expense, A&G expense and R&M expense.

3.2.2 As TNERC (Terms & Conditions for determination of tariff) Regulations provides for an escalation of 5.72% on O&M expenses of previous year; SLDC, Chennai has considered escalation rates as per TNERC Regulations.

3.2.3 Protection & Communication (P&C) Wing plays a vital role in the functioning of SLDC. Unified Load Despatch Centre (ULDC) scheme for real time monitoring of various sources of generation, interstate tie line flow, demand side management (DSM) quantum, per unit rate corresponding to frequency, State demand, SR Constituents demand, Chennai demand, Central and State generating stations unit status, flow of power in MW, current, voltage & MVAR, Breaker & Isolator opening and closing, various status of analog points, frequency profile, various trend graphs of voltage, frequency, demand, solar, wind generation mix, and various data such as similar day, previous month, previous year are available through SCADA, fiber optic cables, RTU, PMU and various communication channels.

3.2.4 Without the functioning of communication & SCADA network, the real time operation of State Load Despatch Centre and Sub Load Despatch Centres will be at great risk. Though P&C wing is common for TANTRANSCO, TANGEDCO, the services of communication & SCADA equipment's and executive's services have been availed by SLDC also for its day to day affairs.

3.2.5 Hence, the entire equipment cost of SCADA and Communication system and one third of establishment & administrative cost pertaining to the executives of P&C Wing from Chennai, Madurai, Coimbatore and Trichy is considered while determining the ARR of SLDC for the FY 2017-18 and FY 2018-19.

3.3 Employee Expenses

3.3.1 Employee Expense consists of Basic Salary, Dearness Allowance, Bonuses, Medical expense reimbursement and Terminal Benefits etc. SLDC, Chennai has considered the provisional actual impact of 7th pay commission to be 15% and has considered a provision of 15% of the salaries and the gratuity as the additional liability on account of the anticipated salary revision recommendations in FY 2017-18 and FY 2018-19 on equal proportion. The Hon'ble Commission is requested to approve the same. Further, the arrears of Previous Years have also been considered in FY 2017-18.

3.3.2 Thus, the projected Employee Expense of SLDC, Chennai for the year FY 2016-17 to FY 2018-19 is shown as under:

Table 2: Employee Expenses for FY 2016-17 to FY 2018-19 – Rs. Lakhs

Particulars	FY 2016-17	FY 2017-18	FY 2018-19
Salaries	777.46	821.93	868.94
Dearness allowance	1007.40	1065.02	1125.94
Over-time wages	3.30	3.49	3.69
Other Allowance (shift, conveyance, ABT etc)	96.74	102.27	108.12
Bonus	13.82	14.61	15.44
Other Staff Cost			
Reimbursement of Medical Expenses	1.38	1.46	1.54
Leave Travel Concession	0.29	0.31	0.33
Encashment of Earned Leave	90.51	95.69	101.16
Staff Welfare Expenses	0.35	0.37	0.39
Terminal Benefits	77.36	81.78	86.46
Sub- Total	2068.61	2186.93	2312.03
Additional Liability on account of 7th Pay commission	0.00	141.52	141.52
Arrears of 7th Pay Commission	0.00	133.86	133.86
Total	2068.61	2462.32	2587.41

3.4 Administration & General Expenses

3.4.1 Administration and General Expenses consists of expenses pertaining to Rent, Rates, Taxes, Telephone and Postage, Printing and Stationary, Training and Certification programme of operators and executives, professional charges, communication system, gardening, meeting expenditure etc. The A&G expenses projected are in line with the Regulations with escalation of 5.72% p.a.

3.4.2 The A&G expense for the year FY 2016-17 to FY 2018-19 are as follows:

Table 3: A&G Expenses for FY 2016-17 to FY 2018-19 – Rs. Lakhs

Particulars	FY 2016-17	FY 2017-18	FY 2018-19
Rent, Rates & Taxes	1.72	1.81	1.92
Telephone, Postage & Telegrams	12.24	12.94	13.68
Conveyance & Travel	118.43	125.20	132.36
Insurance	0.00	0.00	0.00
Fees & Subscriptions	0.50	0.53	0.56
Books & Periodicals	0.10	0.10	0.11
Printing & Stationery	1.92	2.03	2.15
Advertisement Expenses	0.00	0.00	0.00
Office Meeting Expense	18.00	19.03	20.12
Miscellaneous Expenses	10.52	11.12	11.76
Legal Charges	20.01	21.15	22.36
Training Expense	12.20	12.90	13.64
Watch and Ward Expense	0.00	0.00	0.00
A&G – Total	195.63	206.82	218.65

3.5 Repairs & Maintenance Expenses

3.5.1 R&M expenses are incurred in Facility Management System (FMS), Website charges, AMC charges for SCADA / EMS equipment's, IT equipment's and civil work maintenance of office building and quarters etc.. For R&M expenses, the escalation has been considered at 5.72% which is in line with the TNERC (Terms & Conditions for determination of Tariff)

Regulations. The R&M expenses for the year FY 2016-17 to FY 2018-19 is shown in the table below:

Table 4: R&M Expenses for FY 2016-17 to FY 2018-19 – Rs. Lakhs

Particulars	FY 2016-17	FY 2017-18	FY 2018-19
Plant & Machinery	55.80	58.99	62.37
Buildings	6.25	6.61	6.99
Civil Works	15.80	16.70	17.66
Hydraulic Works	0.00	0.00	0.00
Lines, Cables Networks & DTR Repair	6.60	6.98	7.38
Vehicles	0.00	0.00	0.00
Furniture & Fixtures	4.80	5.07	5.36
Office Equipments	8.30	8.77	9.28
R&M Cost – Total	97.55	103.13	109.03

3.5.2 The breakup of O&M expenses for the year FY 2016-17 to FY 2018-19 is as shown under:

Table 5: O&M Expenses for FY 2016-17 to FY 2018-19 – Rs.Lakhs

Particulars	FY 2016-17	FY 2017-18	FY 2018-19
Employee Cost	2068.61	2462.32	2587.41
A&G Expense	195.63	206.82	218.65
R&M Expense	97.55	103.13	109.03
Total O&M Expense	2361.79	2772.27	2915.09

3.5.3 It is requested to the Hon'ble Commission to approve the O&M expenses as showcased in the above table which has been estimated in line with the Tariff Regulations.

3.6 Capital Expenditure and Capitalisation

3.6.1 Regulation 17 (5) of the Tariff Regulations, 2005 and Regulation 3 (v) of the Tariff Regulation under MYT framework specifies that the licensee shall get the capital investment plan approved by the Commission before filing ARR and application for determination of Tariff. Accordingly, TANTRANSCO has submitted the application for approval of provisional Capital investment and capitalisation for its transmission activities in June 2016 for FY 2016-17 to FY 2018-19. Considering the present status wherein SLDC, Chennai is filing its petition for first time it is hereby

submitting the CAPEX and Capitalisation for approval of the Hon'ble Commission and consideration of the same for calculation of ARR.

Table 6: Summary of Scheme-wise CAPEX and Capitalisation for FY 2017-18 and FY 2018-19 – Rs. Lakhs

Particulars	CAPEX		CAPITALISATION	
	FY 2017-18	FY 2018-19	FY 2017-18	FY 2018-19
ULDC SCADA Upgradation	1400.00	0.00	1907.00	0.00
Modernization of SLDC	21.29	0.00	21.29	0.00
IT Infra & ABT Mechanism	399.30	958.30	0.00	1357.60
Power System Development Funding	0.00	85.80	0.00	85.80
RE Management Center	0.00	274.00	0.00	274.00
Modernization of Sub LDC	0.00	18.45	0.00	18.45
SCADA Communication	8.16	0.00	8.16	0.00
Total Capex	1828.75	1336.55	1936.45	1735.85

3.7 GFA and Depreciation

3.7.1 The depreciation rate considered in the petition is in line with the rates specified in the Tariff Regulations. The total depreciation is calculated on the opening balance of the Gross Fixed Assets (GFA) and on an average basis on the addition of assets during the year.

3.7.2 This is calculated in line with the tariff regulations 2005 which also allows claiming of depreciation on the asset addition during the year on pro-rata basis.

3.7.3 In line with the above Tariff Regulations, SLDC, Chennai has claimed depreciation on the assets added during the year by assuming that the assets will be added during the mid of the year.

3.7.4 The depreciation rate considered is in line with the Amendment to the Terms and Conditions for determination of Tariff Regulations 2005 dated 13th March 2014.

3.7.5 The depreciation and the opening GFA for the year FY 2016-17 to FY 2018-19 works out to be as follows.

Table 7: GFA and Depreciation for FY 2016-17 to FY 2018-19 – Rs. Lakhs

Particulars	FY 2016-17	FY 2017-18	FY 2018-19
Opening Gross Block	6586.60	6615.75	8552.20
Closing Gross Block	6615.75	8552.20	10288.05
Average Gross Block	6601.17	7583.98	9420.13
Depreciation during the Year	399.71	463.32	637.41
Rate of Depreciation	6.06%	6.11%	6.77%

3.7.6 The Hon'ble Commission is requested to approve the depreciation as projected by SLDC, Chennai for the year FY 2016-17 to FY 2018-19.

3.8 Interest on Loan

3.8.1 SLDC, Chennai would like to submit that interest on loan in the petition has been claimed on the normative basis in line with the Regulations.

3.8.2 As per norms specified in Tariff Regulations 2005, SLDC, Chennai has determined interest expenses corresponding to long term loans and interest on working capital separately.

3.8.3 For determination of interest expenses, following approach has been considered by SLDC, Chennai:

- Opening loan has been considered as 70% of the opening GFA of that particular year.
- Loan addition has been considered as 70% of the capital expenditure.
- Repayment has been considered equal to depreciation.
- Average interest rate of 12% on average loan has been considered to arrive at interest on loan for all the three years.

3.8.4 The interest calculation for the year FY 2016-17 to FY 2018-19 is shown in the table below:

Table 8: Interest and Finance Charges for FY 2016-17 to FY 2018-19- Rs Lakhs

Particulars	FY 2016-17	FY 2017-18	FY 2018-19
Opening Loan	4610.62	4586.21	5403.02
Loan addition during the year	375.31	1280.12	935.59
Repayment during the year	399.71	463.32	637.41
Closing balance	4586.21	5403.02	5701.19
Average Loan	4598.42	4994.62	5552.10
Average rate of Interest	12.00%	12.00%	12.00%
Interest on Loan	551.81	599.35	666.25

3.8.5 The Hon'ble Commission is requested to approve the Interest on Loan as projected for the year FY 2016-17 to FY 2018-19.

3.9 Working Capital and Interest on Working Capital

3.9.1 SLDC, Chennai would like to submit that interest on working capital in the petition has been claimed on the normative basis.

3.9.2 In line with norms, revenue has been considered for 2 months based on the total ARR to be recovered in the ensuing year.

3.9.3 Further, the Tariff Regulations stipulates that rate of interest on working capital shall be considered on normative basis and shall be equal to the short-term Prime Lending Rate of State Bank of India as on 01st April of the relevant year.

3.9.4 Based on the above Regulations, interest on working capital is calculated as shown in the table below:

Table 9: Interest on Working Capital for FY 2016-17 to FY 2018-19 – Rs. Lakhs

Particulars	FY 2016-17	FY 2017-18	FY 2018-19
O&M Expenses	196.82	231.02	242.92
Maintenance Spares	3.25	3.44	3.63
Receivables	619.39	717.71	794.85
Total Working Capital	819.46	952.17	1041.41
Rate of Interest on Working Capital	14.05%	14.05%	14.05%
Total interest on Working Capital	115.13	133.78	146.32

3.10 Reasonable Return on Equity

3.10.1 SLDC, Chennai has calculated Return on Equity for the year FY 2016-17 to FY 2018-19 on the basis on the average equity for the corresponding year considering infusion of Equity @30% of the total capital expenditure of the respective year. This has been done in line with the TNERC Regulations. The Normative Rate of Equity has been taken at 14%.

3.10.2 The reasonable Return on equity of SLDC, Chennai for the year FY 2016-17 to FY 2018-19 is shown in the table below:

Table 10: RoE for FY 2016-17 to FY 2018-19 – Rs. Lakhs

Particulars	FY 2016-17	FY 2017-18	FY 2018-19
Opening Equity	1975.98	2136.83	2685.45
Addition during the year	160.85	548.62	400.97
Closing Equity	2136.83	2685.45	3086.42
Average Equity	2056.40	2411.14	2885.93
Rate of Return on Equity	14.00%	14.00%	14.00%
Return on Equity	287.90	337.56	404.03

3.10.3 Based on the foregoing paragraphs, SLDC, Chennai requests the Hon'ble Commission to approve the Reasonable Return on Equity for FY 2017-18 and FY 2018-19.

3.11 Other debits and prior period items

3.11.1 SLDC, Chennai submits that other debits and prior period items has not been considered in estimated ARR and reserves the right to claim the same at the time of true-up of the respective financial year in the next petition.

3.12 Aggregate Revenue Requirement

3.12.1 Based on the category-wise expenses as described above, the Aggregate Revenue Requirement for FY 2017-18 and FY 2018-19 for SLDC, Chennai has been summarised in the table given below for the approval of the Hon'ble Commission.

Table 11: Summary of ARR for FY 2017-18 and FY 2018-19 – Rs. Lakhs

Particulars	FY 2017-18	FY 2018-19
Operation & Maintenance Expenses	2772.27	2915.09
<i>Employee Cost</i>	<i>2462.32</i>	<i>2587.41</i>
<i>A&G Cost</i>	<i>206.82</i>	<i>218.65</i>
<i>R&M Cost</i>	<i>103.13</i>	<i>109.03</i>
Depreciation	463.32	637.41
Interest & Finance Charges	599.35	666.25
Interest on Working Capital	133.78	146.32
Return on Equity Capital	337.56	404.03
Total Expenses	4306.28	4769.10

3.12.2 Therefore, SLDC, Chennai requests the Hon'ble Commission to approve the Annual Revenue Requirement for FY 2017-18 and FY 2018-19 as tabulated above.

4. PRAYERS

4.1 SLDC, Chennai respectfully prays to the Hon'ble Commission:

- 4.1.1 To admit the petition seeking approval of Aggregate Revenue Requirement for FY 2017-18 and FY 2018-19 as per the provisions of TNERC (Terms and Conditions of Tariff) Regulations, 2005 and MYT Regulations, 2009;
- 4.1.2 To approve the total Aggregate Revenue Requirement for FY 2017-18 and FY 2018-19 as proposed by SLDC, Chennai.
- 4.1.3 To revise the submission of TANTRANSCO in its ARR petition for FY 2016-17 to FY 2018-19 with respect to revenue from scheduling and operating charges for FY 2017-18 and FY 2018-19 as per the ARR submitted by SLDC, Chennai in this petition.
- 4.1.4 To grant any other relief as the Hon'ble Commission may consider appropriate.
- 4.1.5 To pass any other order as the Hon'ble Commission may deem fit and appropriate under the circumstances of the case and in the interest of justice.
- 4.1.6 To condone any error/omission and to give opportunity to rectify the same.
- 4.1.7 To permit the Petitioner to make further submissions, addition and alteration to this Petition as may be necessary from time to time.
- 4.1.8 Since there is no provisions for fee structure for SLDC in TNERC fees and fines regulation and the State Load Despatch Centre (SLDC) is a part of STU (TANTRANSCO) only. As the TANTRANSCO have already paid the fee amount towards filing TANTRANSCO's ARR 2016-17 to 2018-19, the fee amount towards filing SLDC's ARR 2017-18 and 2018-19 may be waived please.

PETITIONER

Annexure 1: Tariff Formats

STATE LOAD DESPATCH CENTRE, CHENNAI

ARR FOR FY 2017-18 and FY 2018-19

Form 1: Summary Sheet

Rs. Lakhs

SL. No.	Details	Reference	FY 2017-18	FY 2018-19
			Projections	Projections
1	Operation & Maintenance Expenses		2,772.27	2,915.09
	<i>Employee Cost</i>	<i>Form 5</i>	<i>2,462.32</i>	<i>2,587.41</i>
	<i>Repair & Maintenance</i>	<i>Form 4</i>	<i>103.13</i>	<i>109.03</i>
	<i>Administration & General Charges</i>	<i>Form 6</i>	<i>206.82</i>	<i>218.65</i>
2	Interest and Finance charges	Form2	599.35	666.25
3	Depreciation	Form 3	463.32	637.41
4	Interest on Working Capital	Form 10	133.78	146.32
5	Return on Equity	Form 8	337.56	404.03
6	Total Fixed Costs		4,306.28	4,769.10

STATE LOAD DESPATCH CENTRE, CHENNAI
ARR FOR FY 2017-18 and FY 2018-19
Form 2: Interest Calculations

Previous Year 2016-17							
S.No.	Particulars	Outstanding at the start of the year	Borrowings	Repayment	Outstanding at the end of the year	Interest Rate	Interest payable
1	Interest on Loan Details	4,610.62	375.31	399.71	4,586.21	12.00%	551.81

Next Year 2017-18 -Projections							
S.No.	Particulars	Outstanding at the start of the year	Borrowings	Repayment	Outstanding at the end of the year	Interest Rate	Interest payable
1	Interest on Loan Details	4,586.21	1,280.12	463.32	5,403.02	12.00%	599.35

Next Year 2018-19 -Projections							
S.No.	Particulars	Outstanding at the start of the year	Borrowings	Repayment	Outstanding at the end of the year	Interest Rate	Interest payable
1	Interest on Loan Details	5,403.02	935.59	637.41	5,701.19	12.00%	666.25

STATE LOAD DESPATCH CENTRE, CHENNAI

ARR FOR FY 2017-18 and FY 2018-19

Form 3: Calculation of depreciation

FY 2016-17

Rs. Lakhs

SL. No.	Name of Asset	Gross Block				Rate of depreciation	Depreciation on Assets
		At the beginning of the year	Additions during the year	Deductions / Adjustment	At the end of the year	%	
1	2	3	4	5	6	7	8
1	Land & Land Rights	-	-	-	-	0.00%	-
2	Building & civil works	234.39	6.00	-	240.39	3.34%	7.93
4	Plants & Mechinery	1,105.82	-	-	1,105.82	5.28%	58.39
5	Furniture Fixture	6.98	-	-	6.98	6.33%	0.44
6	Office Equipment	36.17	-	-	36.17	6.33%	2.29
7	SCADA Comm. Equipment	5,203.24	10.09	-	5,213.33	6.33%	329.68
8	IT Equipments	-	13.06	-	13.06	15.00%	0.98
	Total	6,586.60	29.15	-	6,615.75		399.71

STATE LOAD DESPATCH CENTRE, CHENNAI

ARR FOR FY 2017-18 and FY 2018-19

Form 3: Calculation of depreciation

FY 2017-18

SL. No.	Name of Asset	Gross Block				Rate of depreciation	Depreciation on Assets
		At the beginning of the year	Additions during the year	Deductions / Adjustment	At the end of the year	%	
1	2	3	4	5	6	7	8
1	Land & Land Rights	-	-	-	-	0.00%	-
2	Building & civil works	240.39	-	-	240.39	3.34%	8.03
3	Plants & Mechainery	1,105.82	-	-	1,105.82	5.28%	58.39
4	Furniture Fixture	6.98	-	-	6.98	6.33%	0.44
5	Office Equipment	36.17	-	-	36.17	6.33%	2.29
6	SCADA Comm. Equipment	5,213.33	1,915.16	-	7,128.49	6.33%	390.62
7	IT Equipments	13.06	21.29	-	34.35	15.00%	3.56
	Total	6,615.75	1,936.45	-	8,552.20		463.32

STATE LOAD DESPATCH CENTRE, CHENNAI

ARR FOR FY 2017-18 and FY 2018-19

Form 3: Calculation of depreciation

FY 2018-19

SL. No.	Name of Asset	Gross Block				Rate of depreciation	Depreciation on Assets
		At the beginning of the year	Additions during the year	Deductions / Adjustment	At the end of the year	%	
1	2	3	4	5	6	7	8
1	Land & Land Rights	-	-	-	-	0.00%	-
2	Building & civil works	240.39	264.00	-	504.39	3.34%	12.44
3	Plants & Mechainery	1,105.82	46.30	-	1,152.12	5.28%	59.61
4	Furniture Fixture	6.98	-	-	6.98	6.33%	0.44
5	Office Equipment	36.17	15.45	-	51.62	6.33%	2.78
6	SCADA Comm. Equipment	7,128.49	-	-	7,128.49	6.33%	451.23
7	IT Equipments	34.35	1,410.10	-	1,444.45	15.00%	110.91
	Total	8,552.20	1,735.85	-	10,288.05		637.41

STATE LOAD DESPATCH CENTRE, CHENNAI

ARR FOR FY 2017-18 and FY 2018-19

Form 3: Operation & Maintenance Expenses - R&M Expenses

Rs. Lakhs

SL. No.	Details	FY 2016-17	FY 2017-18	FY 2018-19
			Projections	Projections
1	2	9	10	10
1	Plant & Machinery	55.80	58.99	62.37
2	Building	6.25	6.61	6.99
3	Civil Works	15.80	16.70	17.66
4	Hydraulic work	-	-	-
5	Lines & Cable network	6.60	6.98	7.38
6	Vehicles	-	-	-
7	Furniture & Fixtures	4.80	5.07	5.36
8	Office equipments	8.30	8.77	9.28
10	Total Expenses	97.55	103.13	109.03

STATE LOAD DESPATCH CENTRE, CHENNAI

ARR FOR FY 2017-18 and FY 2018-19

Form 3: Operation & Maintenance Expenses - Employee Cost

Rs.Lakhs

SL. No.	Details	FY 2016-17	FY 2017-18	FY 2018-19
			Projections	Projections
1	2	9	10	10
1	Salaries	777.46	821.93	868.94
2	DA	1,007.40	1,065.02	1,125.94
3	Over-time	3.30	3.49	3.69
4	Other Allowance (shift, convenience, ABT etc)	96.74	102.27	108.12
5	Bonus	13.82	14.61	15.44
	Subtotal 1	1,898.72	2,007.33	2,122.15
6	Reimbursement of Medical Expenses	1.38	1.46	1.54
7	Leave Travel Concession	0.29	0.31	0.33
8	Encashment of Earned Leave	90.51	95.69	101.16
10	Staff Welfare Expenses	0.35	0.37	0.39
11	Terminal Benefits	77.36	81.78	86.46
12	Additional Liability on account of 7th Pay commission	-	141.52	141.52
13	Arrears of 7th Pay Commission for FY 17	-	133.86	133.86
14	TOTAL	2068.61	2462.32	2587.41

STATE LOAD DESPATCH CENTRE, CHENNAI

ARR FOR FY 2017-18 and FY 2018-19

Form 6: Operation & Maintenance Expenses - A&G Expenses

Rs. Lakhs

SL. No.	Details	FY 2016-17	FY 2017-18	FY 2018-19
			Projections	Projections
1	2	9	10	10
1	Rates & Taxes	1.72	1.81	1.92
2	Telephone & Trunk Call	10.55	11.15	11.79
3	Postage & Telegram, Telex, Teleprinter Charges, Telefax	1.15	1.22	1.29
4	Courier Charges	0.54	0.57	0.60
5	Legal expenses	20.01	21.15	22.36
6	Conveyance expenses (Fuel)	1.00	1.06	1.12
7	Travelling expenses	22.79	24.09	25.47
8	Hire charges of vehicle	89.53	94.65	100.07
9	Other conveyance expenses	5.11	5.40	5.71
10	Fees & Subscription	0.50	0.53	0.56
11	Books & Periodicals	0.10	0.10	0.11
12	Printing & Stationery	1.92	2.03	2.15
13	Training (including certification of operators)+ERP Training, Data entry & data integration	12.20	12.90	13.64
14	Miscellaneous(advances,other exp..)	10.52	11.12	11.76
15	Meetings (SRPC etc)	18.00	19.03	20.12
16	Total Admin and General Expenses	195.63	206.82	218.65

STATE LOAD DESPATCH CENTRE, CHENNAI

ARR FOR FY 2017-18 and FY 2018-19

Form 7: Operation & Maintenance Expenses - Summary

Rs. Lakhs

SL. No.	Details	FY 2016-17	FY 2017-18	FY 2018-19
			Projections	Projections
1	2	9	10	11
1	Repair & Maintenance Expenses	97.55	103.13	109.03
2	Employees Cost	2,068.61	2,462.32	2,587.41
3	Admn. & General Expnses	195.63	206.82	218.65
4	Total Operation and Maintenance expenses	2,361.79	2,772.27	2,915.09

STATE LOAD DESPATCH CENTRE, CHENNAI

ARR FOR FY 2017-18 and FY 2018-19

Form 8: Reasonable Return / Return on Equity

Rs. Lakhs

SL. No.	Details	Units	FY 2016-17	FY 2017-18	FY 2018-19
				Projections	Projections
1	2		9	10	11
1	Opening Balance of Equity	Rs. Crs	1,975.98	2,136.83	2,685.45
2	Additions during the year	Rs. Crs	160.85	548.62	400.97
3	Closing Balance of Equity	Rs. Crs	2,136.83	2,685.45	3,086.42
4	Average Equity	Rs. Crs	2,056.40	2,411.14	2,885.93
5	Return on Equity @ 14%	14%	287.90	337.56	404.03

STATE LOAD DESPATCH CENTRE, CHENNAI

ARR FOR FY 2017-18 and FY 2018-19

Form 13: Interest on Working Capital

Rs. Lakhs

SL. No.	Particulars	Reference	FY 2016-17	FY 2017-18	FY 2018-19
			Projections	Projections	Projections
1	O & M expenses	Form 2 (One Month)	196.82	231.02	242.92
2	Maintenance Spares		3.25	3.44	3.63
3	Receivables	Form 1 (Two Month Receivable)	619.39	717.71	794.85
4	Total Working Capital		819.46	952.17	1,041.41
5	Rate of Interest on Working Capital		14.05%	14.05%	14.05%
6	Interest on Working Capital		115.13	133.78	146.32

Form-2
BEFORE THE
HON'BLE TAMIL NADU ELECTRICITY REGULATORY COMMISSION
AT CHENNAI

Filing No. :
Case No. : M.P. No. of 2017.
IN THE MATTER OF : Praying for Approval of Aggregate Revenue Requirement (ARR) of the SLDC for the FY 2017-18 & 2018-19

State Load Despatch Centre (SLDC),
TANTRANSCO
144, Anna Salai
Chennai -600 002.

..... **Petitioner**

Versus

NIL

..... **Respondent**

AFFIDAVIT OF THE PETITIONER

I, S. Shanmugam, aged about 54 years, S/o. M. Sivanu serving as the Managing Director, Tamil Nadu Transmission Corporation Limited (TANTRANSCO) having office at No. 144, Anna Salai, Chennai- 600 002, do hereby solemnly affirm and sincerely state as follows:

1. I am the Managing Director, TANTRANSCO, the petitioner herein; as such I am well acquainted with the facts of the case and authorized to file the present petition.
2. I solemnly affirm at Chennai on thisday of May 2017 that the contents of the above petition are true to my knowledge and I believe no part of it is false and no material has been concealed there from.

Deponent

Verification

I, the above signed petitioner do hereby solemnly affirm at Chennai on this.....day of May 2017 that the contents of the above petition are true and correct to the best of my knowledge and no material has concealed there from.

Deponent

Signed before me at Chennai on
the ----- day of May 2017