

BEFORE
MEGHALAYA STATE ELECTRICITY REGULATORY COMMISSION,
SHILLONG

PETITION

FOR

**APPROVAL OF
BUSINESS PLAN AND AGGREGATE REVENUE REQUIREMENT
FOR
FY 2015-16 To FY 2017-18**

FILED BY

**STATE LOAD DESPATCH CENTRE
132 KV, NEHU GRID S/S COMPLEX, SHILLONG - 793 022**

BEFORE THE HON'BLE MEGHALAYA STATE ELECTRICITY REGULATORY COMMISSION

FILE / PETITION NO.....

IN THE MATTER OF

APPROVAL OF BUSINESS PLAN AND ANNUAL REVENUE REQUIREMENT FOR THE FINANCIAL YEARS 2015-16, 2016-17 & 2017-18 OF THE STATE LOAD DESPATCH CENTRE UNDER MEGHALAYA STATE ELECTRICITY REGULATORY COMMISSION (MULTI-YEAR TARIFF) REGULATIONS, 2014 AND MEGHALAYA STATE ELECTRICITY REGULATORY COMMISSION (LEVY AND COLLECTION OF STATE LOAD DESPATCH CENTRE FEES AND CHARGES) REGULATIONS-2009

AND IN THE MATTER OF

STATE LOAD DESPATCH CENTRE,
MEGHALAYA POWER TRANSMISSION CORPORATION LIMITED; 132KV, NEHU GRID S/S
COMPLEX, SHILLONG – 793022, MEGHALAYA

PETITIONER

IT IS RESPECTFULLY SUBMITTED BY THE PETITIONER THAT:

1. The State Load Despatch Center (hereinafter called as "SLDC") hereby submits the petition before the Meghalaya Electricity Regulatory Commission (hereinafter referred to as "the Hon'ble Commission" or "MSERC") for approval of Aggregate Revenue Requirement (ARR) and determination of SLDC Charges for the Control Period of FY2015-16 to FY2017-18 under Section 32 and 86 of the Electricity Act, 2003.
2. The Hon'ble Commission is an independent statutory body constituted under the provisions of the Electricity Regulatory Commissions (ERC) Act, 1998, which was superseded by the Electricity Act (EA), 2003. The Hon'ble Commission is vested with the authority of regulating the power sector in the State inter alia including determination of Annual Revenue Requirement for SLDC.
3. The estimates for FY2015-16, FY2016-17, and FY2017-18 have been prepared on the basis of provisional segregated financials of MePTCL, the transfer scheme notifications and estimates for FY2014-15.

4. The Aggregate Revenue Requirement (ARR) for the control period are projected as follows :

Rs. Cr		
FY2015-16	FY2016-17	FY2017-18
2.63	3.32	3.73

5. The Board of Directors of MePTCL has accorded approval to the Petition for approval of Business Plan and Annual Revenue Requirement for The Financial Years 2015-16, 2016-17 & 2017-18 and authorized the undersigned to file this petition.
6. The applicant, humbly prays before the Hon'ble MSERC to pass appropriate order on the following:
- Approval of Business Plan and Annual Revenue Requirement for The Financial Years 2015-16, 2016-17 & 2017-18 as proposed in this Petition.
 - To pass such orders, as the Hon'ble Commission may deem fit and proper and necessary in view of the facts and circumstances of the case.
 - To condone any inadvertent omissions, errors & shortcomings and permit the applicant to add/change/modify/alter this filing and make further submissions as required.

B. Wankhar
Executive Engineer (Market Operation)
For & on behalf of
State Load Despatch Centre (SLDC)

TABLE OF CONTENTS

1	BACKGROUND AND HISTORY	4
1.1	INTRODUCTION	4
1.2	KEY REGULATIONS	4
1.3	SUBMISSIONS TO THE HON'BLE COMMISSION	5
2	BUSINESS PLAN	7
2.1	PREAMBLE	7
2.2	APPROACH TO BUSINESS PLAN.....	8
2.3	DUTIES OF SLDC.....	8
3	SLDC PROFILE	9
3.1	ORGANIZATION STRUCTURE	9
3.2	RECRUITMENT PLAN	9
3.3	TRAINING NEED, OBJECTIVES AND PLAN	10
3.4	INVESTMENT PLAN	11
3.5	UP GRADATION/ EXPANSION OF SCADA/EMS UNDER NEULDC SCHEME	13
3.6	PROCUREMENT OF OFF-LINE OPEN ACCESS SERVER (HARDWARE, OPERATING SYSTEM & DEVELOPMENT CHARGES)	15
3.7	THE UNIFIED REAL TIME DYNAMIC STATE MEASUREMENT SYSTEM (URTDSM) UNDER WIDE AREA MEASUREMENT SYSTEMS (WAMS) OF POWER SYSTEMS.....	17
4	ARR FOR FY2015-16, FY2016-17, AND FY2017-18	21
4.1	INTRODUCTION:	21
4.2	EMPLOYEE COST	21
4.3	ADMINISTRATION AND GENERAL EXPENSE (A&G)	22
4.4	REPAIRS AND MAINTENANCE EXPENSES (R & M EXPENSE)	23
4.5	DEPRECIATION	23
4.6	INTEREST ON WORKING CAPITAL	24
4.7	RETURN ON EQUITY/INVESTMENTS	25
4.8	INTEREST AND FINANCE CHARGES.....	25
4.9	INCOME FROM OTHER SOURCES	26
5	ANNUAL REVENUE REQUIREMENT	27

List of Tables

TABLE 1: INVESTMENT PLAN-SLDC.....	12
TABLE 2: MANPOWER PROJECTIONS	22
TABLE 3: DEPRECIATION COMPUTATION	24
TABLE 4 : INTEREST ON WORKING CAPITAL COMPUTATION (RS. CR)	24
TABLE 5: RETURN ON EQUITY COMPUTATION (RS. CR)	25
TABLE 6: INTEREST & FINANCE CHARGES (RS. CR)	26
TABLE 7: OTHER INCOME OF SLDC (RS. CR)	26
TABLE 8: ANNUAL REVENUE REQUIREMENT.....	27

LIST OF ABBREVIATIONS	
A&G	Administration & General
ARR	Aggregate Revenue Requirement
CERC	Central Electricity Regulatory Commission
FY	Financial Year
GFA	Gross Fixed Assets
KV	Kilo Volt
KVA	Kilo Volt Amps
KW	Kilo Watt
kWh	kilo Watt hour
MVA	Million Volt Amps
MW	Mega Watt
NER	North Eastern Region
MePTCL	Meghalaya Power Transmission Corporation Limited
MSERC	Meghalaya Electricity Regulatory Commission
PGCIL	Power Grid Corporation of India Limited
RLDC	Regional Load Despatch Centre
SLDC	State Load Despatch Centre

1 Background and History

1.1 Introduction

- 1.1.1** The State Load Despatch Centre (SLDC) was established in State of Meghalaya in 2004, under the control of the Director (Distribution), MeECL under the provisions of Section 31(1) of Electricity Act 2003.
- 1.1.2** As per Notification No. MeECL/GA/302/2009/36 dated 20.06.2012, SLDC has been deputed to Meghalaya Power Transmission Corporation Limited (MePTCL) from 1st April, 2012.
- 1.1.3** In order to ensure that SLDC discharges the functions and duties entrusted within the Electricity Act 2003, in an efficient and effective manner, the Government of Meghalaya has notified functional independence of SLDC to enable Ring Fencing as per Notification No. POWER-79/2009/445 dated 18.06.2013. The notification mandates that SLDC shall work as a Strategic Business Unit under MePTCL.
- 1.1.4** The Meghalaya State Electricity Regulatory Commission (hereinafter referred to as “MSERC” or “the Hon’ble Commission”) is an independent statutory body constituted under the provisions of the Electricity Regulatory Commissions (ERC) Act, 1998, which was superseded by Electricity Act (EA), 2003. The Hon’ble Commission is vested with the authority of regulating the power sector in the State inter alia including determination of Annual Revenue Requirement for SLDC.

1.2 Key Regulations

- 1.2.1** Section 32(3) of the Electricity Act, 2003, provides for levy and collection of such fees and charges from the generating companies and licensees engaged in the intra-state transmission of electricity as may be specified by the State Commission. Subsequently after issuance of Indian Electricity Act 2003, Central Government through its Order 795(E) dated 8th June 2005 has notified “The Electricity (Removal of Difficulty) Sixth Order, 2005” wherein, it has clarified that SLDC fees and charges may be levied on users of intra State transmission system as specified by the Hon’ble Commission.
- 1.2.2** The Hon’ble Commission has notified the Meghalaya State Electricity Regulatory Commission (Levy and Collection of State Load Despatch Centre Fees and Charges) Regulations 2009 (hereinafter referred as SLDC Fees and Charges Regulations, 2009), under which SLDC is required to file petition for Annual Revenue Requirement. The

Regulation 4 (1) read as:

“4 (1) Not later than four months before the commencement of the Financial Year, the SLDC shall provide to the Commission, full details of its calculations of the estimated ARR for the ensuing Financial Year and proposed allocation of charges to transmission licensees and generating stations. The details shall also be furnished to the Generating Stations and Transmission Licensees simultaneously.”

1.2.3 Multi Year Tariff Framework

1.2.3.1 The Hon’ble Commission has notified Meghalaya State Electricity Regulatory Commission Multi Year Tariff Regulations 2014 (hereinafter referred as MYT Regulations, 2014), for determination of tariffs, in line with the provision of Section 61, Section 62, Section 63, Section 64, Section 65 and Section 86 of the Electricity Act 2003.

1.2.3.2 The MYT framework is designed to provide predictability and reduce regulatory risk. The longer time span enables the Petitioner to propose its investment plan with details on the possible sources of financing and the corresponding capitalization schedule for each investment.

1.2.3.3 As per the MYT Regulations, 2014, Regulation 3 *“Scope of Regulation “read as under:*

“3.1 The Commission shall determine tariff within the Multi-Year Tariff framework, for all matters for which the Commission has jurisdiction under the Act, including in the following cases:
ii. Intra-State transmission of electricity and SLDC charges;”

1.3 Submissions to the Hon’ble Commission

1.3.1 SLDC submits the Business Plan and Annual Revenue Requirement for the Control Period FY 2015-2016 to FY 2017-18 (3 years) prepared based on the MYT Regulations, 2014 and SLDC Fees and Charges Regulations, 2009.

BUSINESS PLAN

FY 2015-16 TO FY 2017-18

2 Business Plan

2.1 Preamble

2.1.1 MSERC has notified the MYT Regulations, 2014 on 15th September 2014 which came into force on 25th September, 2014. The tariff from 1st April 2015 onwards is to be determined under Multi Year Tariff frameworks. Based on the Business Plan, SLDC is required to forecast the Aggregate Revenue Requirement (ARR) for the first Control Period (FY2015-16 to FY2017-18). As per the MYT Regulations, Business Plan should comprise of capital investment plan, financing plan, physical targets etc.

2.1.2 The aforementioned components of Business Plan depend upon various factors such as historical data, current and future financial estimates, growth estimates, economic, financial and business related assumptions, current operational requirements, other foreseeable changes/ requirements in future etc. SLDC has taken a rational and scientific approach while forecasting various components of Business Plan in order to arrive at realistic forecast with minimal expected deviations. However, due to a number of uncontrollable externalities, deviations are expected and shall be brought to the notice of the Hon'ble MSERC in accordance with the provisions of MYT Regulations. The approach undertaken for preparation of various plans and forecasts is explained in detail in the relevant sections of Business Plan. This Business Plan, as submitted under MYT Regulations, 2014 will be considered as a base for determination of ARR and tariff for future period.

2.2 Approach to Business Plan

- 2.2.1** The Business Plan is initiated based on a review of SLDC's current operations, operational performance and organisation structure.
- 2.2.2** The Business Plan has been developed keeping in view of the current performance over the past performance with a view to develop targets that are realistic and achievable and that provide an impetus to improving performance.

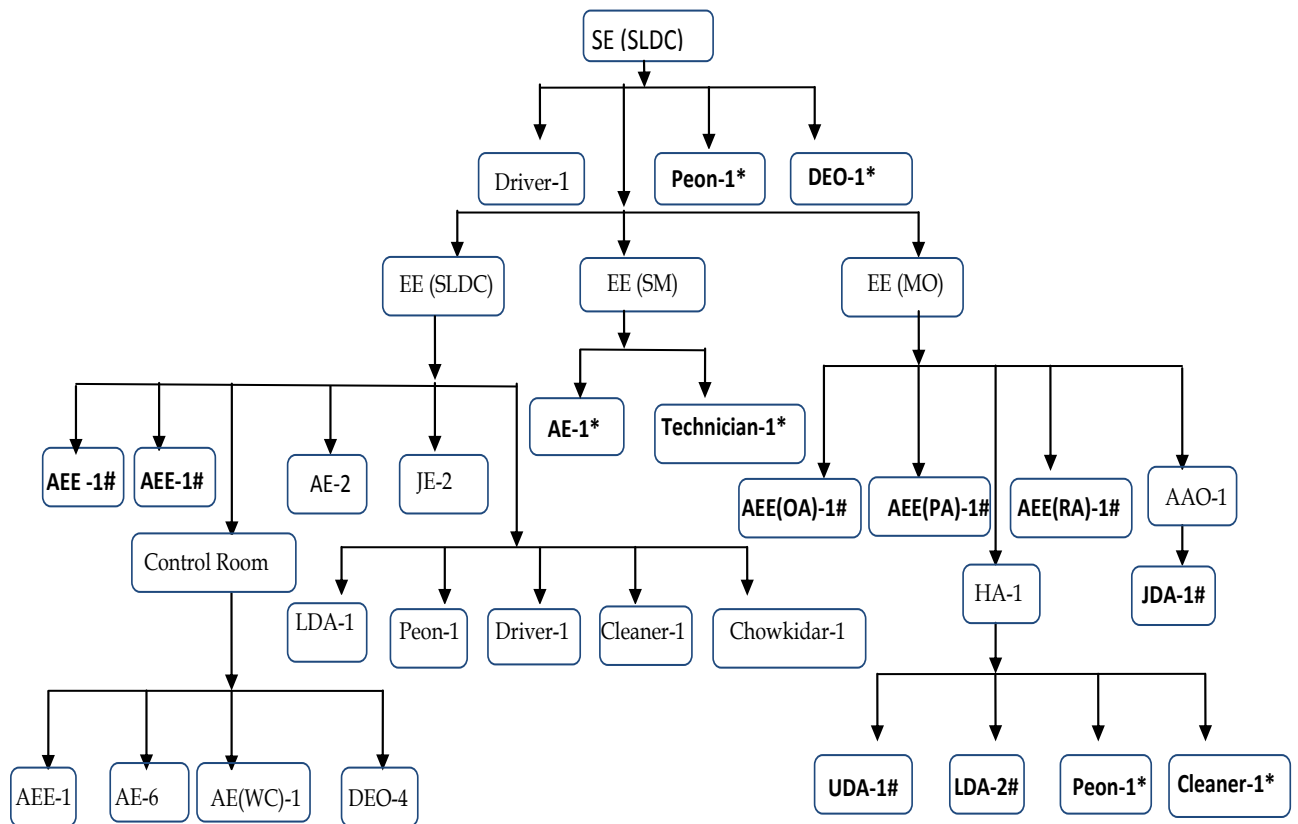
2.3 Duties of SLDC

Functions of State Load Despatch Centre as per the Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2010 (hereinafter referred as Indian Electricity Grid Code, 2010 are mentioned below:

- 2.3.1** The State Load Despatch Centre shall be the apex body to ensure integrated operation of the power system in a State.
- 2.3.2** The State Load Despatch Centre shall—
- a) 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;
 - b) monitor grid operations;
 - c) keep accounts of the quantity of electricity transmitted through the State grid
 - d) exercise supervision and control over the intra-State transmission system; and
 - e) be responsible for carrying out real time operations for grid control and despatch of electricity within the State through secure and economic operation of the State grid in accordance with the Grid Standards and the State Grid Code.
- 2.3.3** The State Load Despatch Centre may levy and collect such fee and charges from the generating companies and licensees engaged in intra-State transmission of electricity as may be specified by the Hon'ble Commission.

3 SLDC profile

3.1 Organization Structure



Legends

* = Proposed
= Vacancy

Existing Staff Strength = 28
Sanctioned Staff Strength = 37
Proposed Staff Strength = 43

Above organogram clearly depicts the strength of our staff with the additional manpower needed for smooth functioning of SLDC and its operatives.

3.2 Recruitment Plan

3.2.1 The post of EE (System Management) is being contemplated for being re-designated as EE (System Logistics) for handling SCADA/RTU functions, Telecom and IT activities.

3.2.2 The two vacant posts of AEE arising from promotion to EE are, as a first step, being envisaged for utilisation in (a) Grid Operations and MIS and (b) Reliability Coordination and IT. The above functions will be subsequently segregated to form distinct job specific functions.

3.2.3 The three sanctioned unfilled posts of AEE (Open Access), AEE (Regulatory Affairs) and AEE (Pool Account) under Market Operation is being pursued with the Management considering the increase and complexity in power market related

activities.

3.3 Training Need, Objectives and Plan

3.3.1 Need for Training

In the face of fast IT obsolescence and the need to upgrade the systems essential for streamlined functioning of LDCs, there is a need to train SLDC personnel in diverse courses / modules tailor made to suit the requirements of an Upgraded EMS/SCADA system (training for the same is ongoing), for acquaintance with the Wide Area Management Systems (part of future Smart Grids) in the form of Unified Real Time Dynamic State Measurement through Phasor Measurement Units (PMUs) for which training is being imparted at basic and intermediate stages, Power System Software (meant as part of Capacity Building) and other Workshops related to the Power System.

Certification courses, periodically arranged in an accredited institute viz National Power Training Institute (NPTI), Faridabad and Power Systems Training Institute, Bengaluru are part of the Gireesh B Pradhan Committees report for Ring Fencing of Load Despatch Centres. The courses were designed for three levels viz Power System Operator, Specialist and Management levels and are valid for three years on successful passing of an all India examination.

3.3.2 Objectives

- Upgrade standard knowledge for continual improvement
- Skills enhancement of the employees
- Positive behaviour change in employees towards his fellow employees & organization
- Preparing employees for higher responsibility by providing appropriate skills
- Creating conducive work culture & work environment through knowledge sharing
- Provide opportunity to update business & technology through external interaction

3.3.3 Training Plan

SLDC personnel had undergone training and had successfully completed Power System Operator level conducted by NPTI. Two Executives had also undergone training / examination at the Specialist Level regarding Regulatory Framework in India. There is also a need for training at the Specialist level for Reliability Coordinator conducted by NPTI to equip SLDC personnel (who had passed the Power System Operator Course) with the tools and knowhow to ensure reliability of the power system.

3.4 Investment Plan

- 3.4.1** The existing systems of SLDC are obsolete and few hardware spares are even unavailable. Also the Indian Power system has warranted creation of an enabling environment for SLDC to discharge its duties for secure, economic and reliable operation of the grid. Upgrading the system and enabling new technology will enhance the grid monitoring and operation activities. Certain schemes described below are on pan India basis for better visualization of the system on real time basis.
- 3.4.2** The table below shows schemes to be covered over the control period, year of start, nature of the project whether it is a system augmentation, system Improvement or New project.
- 3.4.3** Three schemes are mentioned below which SLDC will be implementing over the control period. The Up gradation / Expansion of SCADA / EMS is a system augmentation scheme, rest are new projects. The total outlay for the schemes during the control period is INR 11.59 Crores.

Table 1: Investment Plan-SLDC

Project Details						Total capital expenditure approved by MSERC/Govt/FI (Rs. Crs.)#	SOURCE OF FINANCING FOR SCHEME					
Name of scheme	Year of Start	Nature of Project	Whether the scheme is part of approved Business Plan* (YES/NO)	Project Start Date	Project Completion date		Equity component		Debt Component		Capital Subsidies / grants component	Consumer Contribution component
							Internal Accrual (from free reserves and surplus)	Additional equity infused	Loan amount (Rs. Crs.)	Loan source		
Construction of new building for SCADA/EMS under NEULDC Scheme	2014	a	NA	Apr-14	Mar-15	0.52	-	-	-	-	-	-
Upgradation/ Expansion of SCADA/EMS under NEULDC Scheme*	2015	b	NA	Apr-15	Mar-16	6.91	-	-	-	-	-	-
Capital Investment for Open Access Server and On line monitoring	2015	a	NA	Apr-15	Mar-16	0.5	0.5	-	-	-	-	-
WAMS/URTDSM (Phase -1)*	2015	a	NA	Apr-15	Mar-16	2.66	-	-	-	-	1.86	-
WAMS/URTDSM (Phase -2)*	2016	a	NA	Apr-16	Mar-17	1.0	-	-	-	-	0.70	-

* The projects will be funded by PGCIL and investment shall be recovered as tariff determined by CERC

Note : The schemes mentioned above are all mandatory schemes and these schemes are being developed on PAN India Basis

#Investment Plan includes some schemes which are yet to be approved

3.4.4 Up gradation/ Expansion of SCADA/EMS under NEULDC Scheme

3.4.4.1 Introduction:

The increasing complexity of the power system has warranted a strong transmission network supported by an equally strong communication / control system. This has led to the setting up of 5 synchronously connected regional grids viz., the Northern, Southern, Western, Eastern and North Eastern Regional Grids with corresponding Regional Load Dispatch Centres. This has culminated in the setting up of a national grid which makes it imperative for constant augmentation / upgradation of Regional Load Dispatch Centres (RLDCs) and State Load Dispatch Centres (SLDCs) with state-of-the-art facilities.

3.4.4.2 Functional Description:

- Under the North Eastern Unified Load Dispatch and Communication (NEULDC) EMS/SCADA scheme, a composite load dispatch and communication scheme is being implemented where real time data from all major generating stations and substations of NER are gathered and transmitted to the SLDCs and NERLDC thus providing real time indications of system conditions and status of equipment for system monitoring and control.
- Advanced application software permits both real time and off line flow, stability economic dispatch and reliability studies for optimization of system operation.
- The communication system which supports voice and data transmission is based on a well-knit backbone network comprising a combination of optical fiber systems supported by Power Line Carrier Communication (PLCC).

For real time operation, the tasks to be performed may be classified into two categories:

➤ Normal real time operation & Control:

- Data acquisition and monitoring of system parameters like active power (MW), reactive power (MVAR), voltage (KV), frequency (Hz) and status of circuit breaker and isolator position.
- Control of frequency, voltage, generation and tie line flows, load management & VAR management schedules.

These tasks are basically covered by the Supervisory Control and Data Acquisition (SCADA) functions.

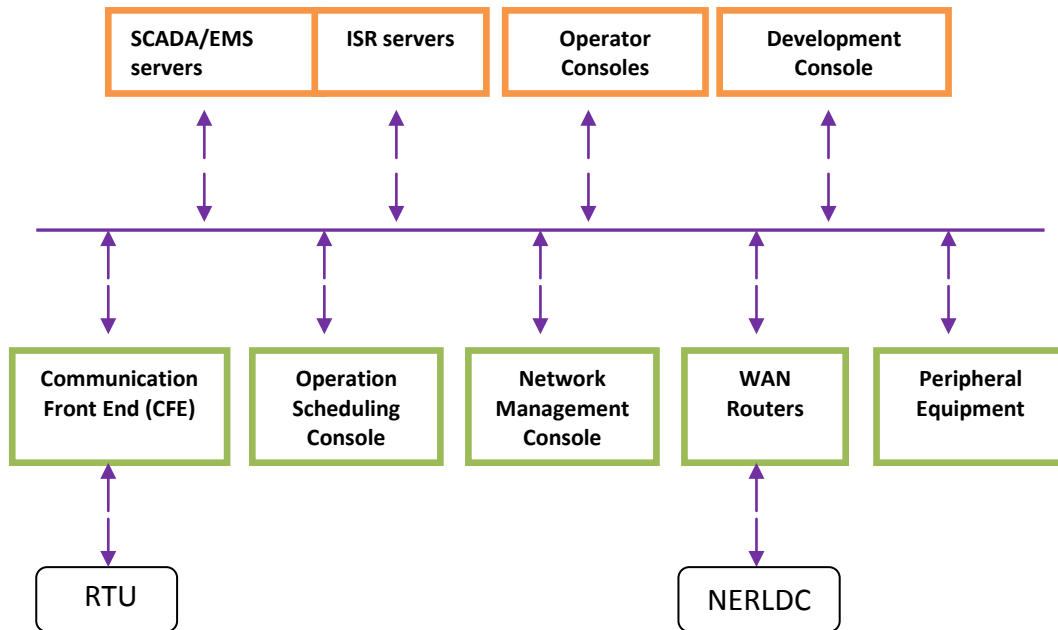
➤ Real Time emergency & reliability control:

- Power system estimation and contingency analysis.
- Operating procedures under emergency conditions eg load shedding and islanding.

These tasks are basically covered by the Energy Management Systems (EMS) functions.

3.4.4.3 Existing SLDC Configuration

Figure 1: Existing SLDC Configuration



3.4.4.4 The need for Up-gradation/Augmentation of the existing NEULDC EMS/SCADA system installed at SLDC:

- The operating system in use viz., Open VMS was commissioned way back in 2003 and has long been obsolete and unavailability of hardware spares in respect of RTUs, CFE etc dilutes the efficacy of the intended system.
- The emergence of intricate market mechanisms and conformation to regulations has warranted creation of an enabling environment for SLDC to discharge its duties for secure, economic and reliable operation of the grid.
- The upgraded EMS/SCADA system will definitely enhance the grid monitoring and operation activities *vis-à-vis* the existing obsolete EMS/SCADA system.

3.4.4.5 Source of Funding:

The 14th Technical Coordination Committee (TCC) meeting of North Eastern Regional Power Committee (NERPC) was held on 4th September, 2013. The Committee comprises of heads for respective Generation, Distribution and Transmission of the North Eastern states along with heads of central generating companies and members of Power Grid Corporation of India Ltd, CEA and NERPC.

The issue for Up-gradation and Expansion of SCADA/EMS system of NERLDC and SLDCs of North Eastern Region was discussed.

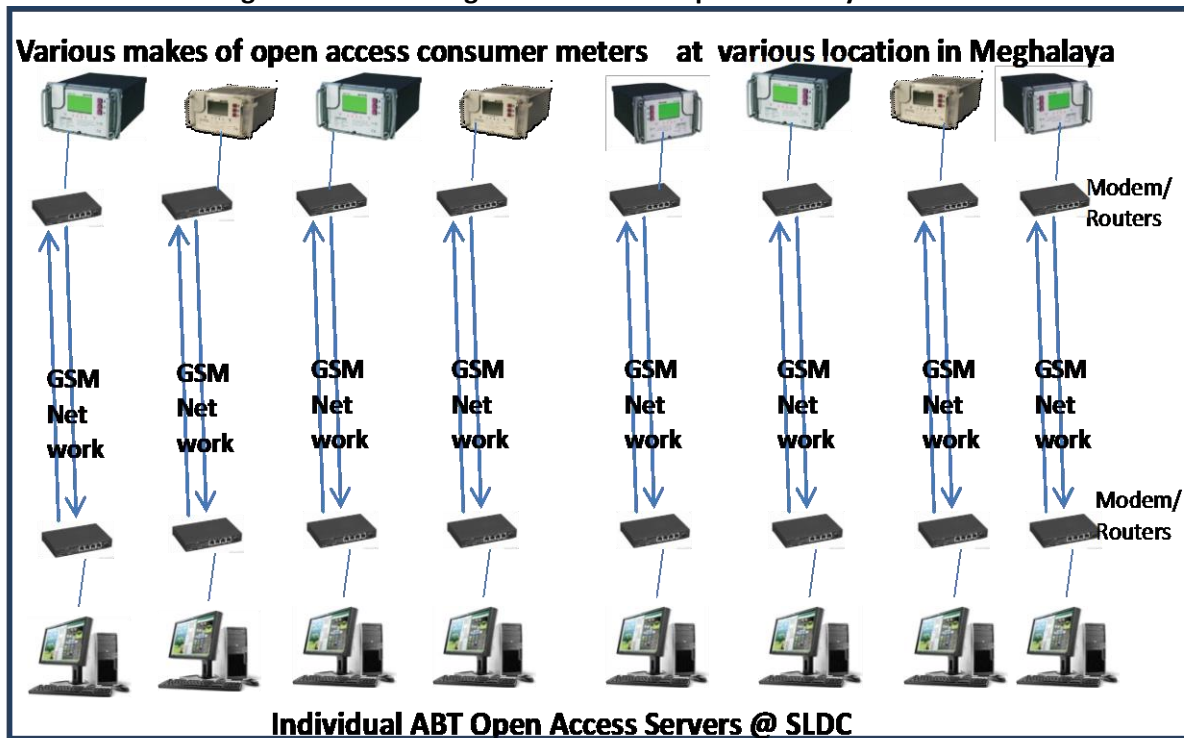
It was decided in the meeting that POWERGRID would implement the Expansion / Upgradation of SCADA / EMS system at NERLDC and SLDCs of North East region and investment shall be recovered as tariff determined by CERC.

3.4.5 Procurement of Off-line Open Access Server (Hardware, Operating System & Development Charges)

3.4.5.1 Existing system Open access system at SLDC, Meghalaya

Currently, State Load Despatch Center has 6 (six) Open Access User meters installed at different locations within the state. Each location has two meters, one at sub-station end and the other at open access consumer end, the metered data of which can be accessed on demand via dedicated GSM network/VSAT/Lease line by SLDC. On request each Open Access consumer meter shall communicate with respective dedicated standalone Servers located at SLDC Control Room. The consumer metered data provide a host of parameters viz., instantaneous MW/MVAR, KV, Hz, power factor, phase currents etc. The Current architecture of the open access system at SLDC is as given below (figure1).

Figure 2: The existing Architecture of Open access system at SLDC



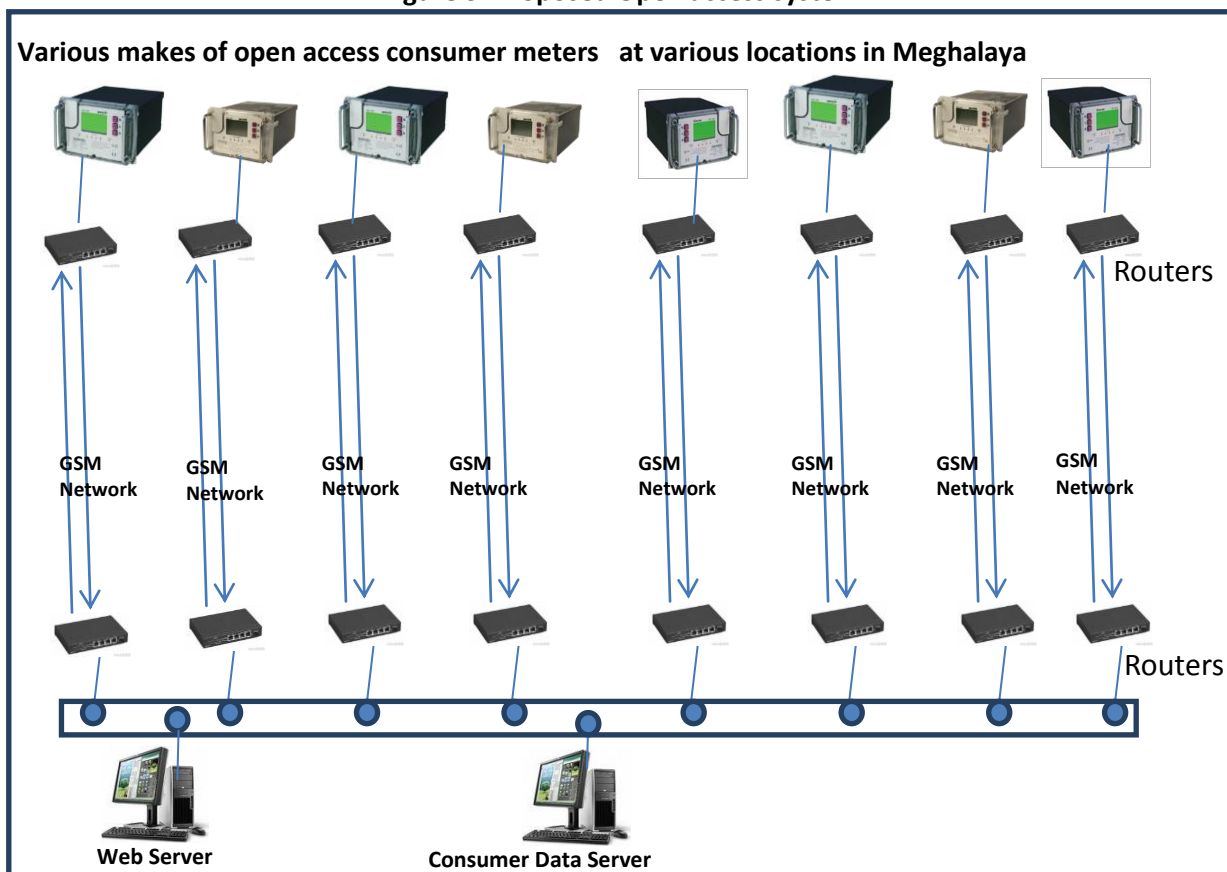
3.4.5.2 Drawbacks of the existing system

- Open access server having corresponding energy meter data only. There is no provision to see other consumer's meter data.
- Open access server data updates only on demand basis. There is no provision for periodic update.
- No provision to see real time data display.
- Maintenance of many individual open access servers is very difficult.

3.4.5.3 Proposed Open Access system:

The Consumer Data Server (CDS) will be a single server located at SLDC to extract the data from various open access consumer meters which are located at different locations in Meghalaya using VSAT/GSM network. The collected instantaneous data from CDS will be used for real time Monitoring. The average of fifteen minutes' data (MW/MVAR) will be provided by CDS.

Figure 3: Proposed Open access system



3.4.5.4 Benefits of the proposed system

- Consumer data server gets metered data from all consumer meters instead of one consumer meter. All consumer metered data can be seen in one machine.
- Open access server data updates periodically instead of on demand basis.
- Maintenance of single consumer data server will be easy compared to many individual servers.
- Scheduled drawal and deviations can be seen online.
- Software helps the operators make proper decisions based on real-time data.

3.4.5.5 Source of Funding

The proposed scheme outlay is Rs 0.5Cr and it would be funded from internal funds available.

3.4.6 The Unified Real Time Dynamic State measurement system (URTDSM) under Wide Area Measurement Systems (WAMS) of power systems

3.4.6.1 Introduction

- The skewed availability of energy resources *vis-à-vis* the load pockets/centres over large geographical regions in the country results in transmission of power over long distances. The power grids are expected to operate closer to their limits in order to maximize utilization of the network.
- The existing EMS/SCADA systems acquire analog and digital information. This information is updated once every 4-10 seconds at respective LDCs and is not presently time synchronized. Lack of coordinated time stamp for recorded data makes any reconstruction of a timeline difficult and is time consuming and may cause the recorded data to be suspect when it is used to reconstruct a timeline of events among Disturbance Recorders (DR) and Event Loggers (EL) records.
- The stress on the grid due to power flows is reflected by the angular separation between the nodes. EMS/SCADA calculates these angles through state estimation methods which are not instantaneous and may not be accurate due to time skewed data and improper system topology.
- In order to overcome these limitations, an emerging new technology known as synchrophasor technology is increasingly being used all over the world. Synchrophasor technology enhances the visibility and situational awareness and is popularly known as Wide Area Management Systems (WAMS) in power systems. Wide area monitoring through high speed communication helps in securing the system in minimum amount of time.

This Technology comes with the following distinct features:

- Phasor measurement units report the power system data 25 to 50 times in a second with synchronized time stamp.
- Phasor data concentrator collects the time synchronized data from PMUs and time aligns this data. Apart from time aligning the data, PDC also checks data and with time sync quality feeds this data to Historian.
- Historian archives the PMU data for a period of few years depending on the storage capacity. The data can be retrieved in user readable format and can be used for post disturbance and forensic analysis.
- Communication networks consist of high speed wide band communication infrastructure (optical fiber) from substation to control centres.
- Real time visualizations include trend graphs of voltages, currents, frequency, angular separation between nodes, MWs, MVARs and rate of change of frequency. Based on these trends, alarms can be raised for decision making.

Application of Synchrophasor data available through pilot project:

- The availability of Synchrophasor data at Control Centres has become firsthand information to the grid operator to view and analyze any transient phenomenon occurring in the grid. Various events that went unnoticed with the present SCADA system can now be detected and analyzed thus opening up a complete new era in power system monitoring and control.
- With the above advantages accruing through such WAMS, POWERGRID is embarking on an all India URTDSM project which through more availability of synchrophasors will become an effective tool of grid events and will facilitate preparation of an accurate 'first information report' of an event occurring in the grid.
- The project is split into two phases, the **first phase** being the installation and commissioning of Phasor Measurement Units (PMUs), Phasor Data Concentrators (PDCs), Historian, real time visualization and offline tool boxes at SLDC level and the **second** being installation and commissioning of PMUs at select locations along with high speed communication network.

3.4.6.2 Source of Funding: The project will be funded by 70% grant from Power Sector Development Fund (PSDF) and 30% investment by PGCIL.

- As per the 14th Technical Coordination Committee (TCC) meeting, URTDSM scheme for WAMS covers placement of phasors Measurement Unit(PMU) at sub-stations

and both ends of transmission lines at 400kV and above level including generating stations at 220 kV level of STU, ISTS & IPP coming up by 2014-15 time frame on pan India basis. The estimated cost of the overall pan India scheme is Rs. 655 Cr.

- POWERGRID has clarified that the scheme would be implemented as system strengthening scheme and transmission charges would be included in the National transmission pool and to be shared by all the Designated ISTS Customers (DICs) as per the POC mechanism under the CERC regulations.

ANNUAL REVENUE REQUIREMENT

FY 2015-16 TO FY 2017-18

4 ARR for FY2015-16, FY2016-17, and FY2017-18

4.1 Introduction:

As per sub-regulation 3 of Regulation 5 of the Meghalaya State Electricity Regulatory Commission (Levy and Collection of State Load Despatch Centre Fees and Charges) Regulations, 2009 the SLDC charges shall be determined by taking into account the following components:

- a) Employee Cost
- b) Administration and general Charges
- c) Repairs and Maintenance Expenses
- d) Depreciation
- e) Interest and finance charges
- f) Interest on working capital, if any
- g) Return on equity/Investments
- h) Any other expenses incidental to discharging the functions of SLDC.

4.2 Employee Cost

4.2.1 The employee costs have been projected based on the manpower recruitment plan for strengthening of SLDC.

4.2.2 In FY 2015-16 provisions for new posting of 4 AEEs, 1 AE and 7 No. supporting staff have been proposed. Similarly in FY 2016-17 provisions for 1 AE and 2 no. of supporting staff have been proposed.

4.2.3 The projected total employee cost for SLDC is attached as Annexure 3 & 4.

4.2.4 Based on the above manpower recruitment plan, SLDC submits before the Hon'ble Commission to kindly approve the Employee cost as under:

Rs. Cr		
FY2015-16	FY2016-17	FY2017-18
1.50	1.65	1.82

4.2.5 Projection of total Manpower is shown in table below:

Table 2: Manpower Projections

Posts	Existing	Proposed			Addl Requirement
	FY 15	FY 16	FY 17	FY 18	
Superintending Engineer (SE)	1	-	-	-	-
Executive Engineer (EE)	3	-	-	-	-
Asst. Executive Engineer (AEE)	1	4	-	-	4
Asst. Engineer (AE)	9	1	1	-	2
Jr. Engineer (JE)	2	-	-	-	-
Data Entry Operator (DEO)	4	1	-	-	1
Asst. Accounts Officer (AAO)	1	-	-	-	-
Jr. Divisional Asst (JDA)	-	1	-	-	1
Head Asst. (HA)	1	-	-	-	-
Upper Divisional Asst. (UDA)	-	1	-	-	1
Lower Divisional Asst. (LDA)	1	1	1	-	2
Peon	1	1	1	-	2
Driver	2	-	-	-	-
Technician	-	1	-	-	1
Cleaner	1	1	-	-	1
Chowkidar	1	-	-	-	-
Total	28	12	3	0	15

4.3 Administration and General Expense (A&G)

4.3.1 The A&G expenses comprise rent, rates and taxes, travel and conveyance expenses, consultancy and legal fees, insurance and other administration expenses.

4.3.2 It is submitted that a new vehicle is proposed in FY 2015-16 based on which the insurance cover and conveyance charges are projected in FY 2015-16. It is also submitted that under the capacity building process and ring fencing scheme, the existing as well as new employees of SLDC undergo trainings at State and National level.

4.3.3 Based on the planned training programs and nominal increase for other regular expenses, the Administration and general expenses for SLDC for FY 2015-16, FY 2016-17 and FY 2017-18 are projected below in the table, the detail has been attached as Annexure 5.

4.3.4 SLDC submits before the Hon'ble Commission to kindly approve the A&G Expenses as under:

Rs. Cr		
FY2015-16	FY2016-17	FY2017-18
0.19	0.21	0.23

4.4 Repairs and Maintenance Expenses (R & M Expense)

- 4.4.1** The Repairs and Maintenance Expenses of SLDC mainly includes maintenance of SCADA/EMS & Wideband Communication system, AMC charges for Computer/ Server Systems, Maintenance costs of Auxiliary Power Supply system, maintenance of system support services and Maintenance of building, furniture, office equipments etc..
- 4.4.2** The new scheme will be implemented in the last quarter of FY 2015-16 and therefore the AMC as per previous scheme will continue to exist for 3 quarters. From the last quarter of FY 2015-16, the R & M expense is projected by considering the applicable AMC as per new scheme. Furthermore from FY 2015-16 onwards paintings and repairing is proposed for SLDC Building.
- 4.4.3** Repairs and Maintenance expenses for the FY 2015-16, FY 2016-17 and FY 2017-18 are projected below in the table. The detail of Repairs and Maintenance Expenses is attached as Annexure -6.
- 4.4.4** SLDC submits before the Hon'ble Commission to kindly approve the R & M Expenses as under:

Rs. Cr		
FY2015-16	FY2016-17	FY2017-18
0.61	0.36	0.51

4.5 Depreciation

- 4.5.1** Depreciation for the year has been calculated as per the rates prescribed under CERC (Terms and Conditions of Tariff) Regulations, 2014, for various classes of assets. The SLDC assets comprise of the SCADA system, the computer terminals and equipments, the building etc.
- 4.5.2** It is submitted that SLDC will be upgrading the SCADA / EMS System, Offline Open Access Servers, Installation of Phasor Data Concentrators (PDCs) and associated equipment's at SLDC in the FY 2015-16. Provision for Installation of PMUs, GPS, and Communication Interfaces has been made in FY 2016-17. Based on the projected addition of Fixed Assets, Depreciation for FY 2015-16, FY 2016-17 and FY 2017-18 is computed and same is shown in table below and attached as Annexure-7.

Table 3: Depreciation Computation (Rs. Cr)

Particulars	%	FY 2015-16 (Projections)	FY 2016-17 (Projections)	FY 2017-18 (Projections)
Vehicle	9.50%	0.002	0.005	0.009
SLDC Building	3.34%	0.020	0.028	0.028
Furniture	6.33%	0.010	0.011	0.012
IT Equipments	15.00%	0.684	1.432	1.499
Depreciation value		0.717	1.476	1.548

4.5.3 The schemes proposed in the investment plan are mainly IT based schemes. As per the rates prescribed under CERC (Terms and Conditions of Tariff) Regulations, 2014, the useful life of IT equipment's is around 6 years. Because of such high obsolescence of IT Equipments, it becomes imperative to claim depreciation on such IT equipments.

4.5.4 SLDC submits before the Hon'ble Commission to kindly approve the Depreciation as under:

Rs. Cr		
FY2015-16	FY2016-17	FY2017-18
0.72	1.48	1.55

4.6 Interest on working capital

4.6.1 The Working capital shall cover:

- Employee Cost for One Month
- R&M Expenses for One Month
- A&G Expenses for One Month

4.6.2 As per MYT regulations, 2014, rate of interest on working capital shall be State Bank Advance rate (SBAR) as on 1st April 2014.

4.6.3 The computation of Interest on working capital is shown in table below and attached as Annexure-9.

Table 4 : Interest on Working Capital Computation (Rs. Cr)

Particular	FY 2015-16	FY 2016-17	FY 2017-18
Employee Cost for 1 month	0.125	0.137	0.151
R & M Expenses for 1 month	0.051	0.030	0.042
A & G Expenses for 1 month	0.016	0.018	0.019
Total Working Capital	0.191	0.184	0.213
Interest on Working Capital @ 14.75%	0.028	0.027	0.031

Note: SBI Advance rate (earlier SBI PLR) has not been revised since Nov'13. Therefore the SBI PLR as on 01.11.13 is considered for interest on Working Capital.

4.6.4 SLDC submits before the Hon'ble Commission to kindly approve the following interest on working capital:

Rs. Cr		
FY2015-16	FY2016-17	FY2017-18
0.03	0.03	0.03

4.7 Return on equity/Investments

4.7.1 Debt-Equity Ratio

4.7.2 The Normative Debt-Equity ratio of 70:30 is considered. As per MYT Regulations, 2014, Section -31, the Return on Equity for MePTCL is considered at 14%. As SLDC is part of MePTCL as on date, Return on Equity for SLDC is also considered to be same as MePTCL i.e. 14% of the total Equity.

4.7.3 The GFA mentioned in the table below comprises of Vehicles, Buildings, Furniture and IT Equipments. The increase in the GFA of SLDC for FY 2015-16, FY 2016-17 and FY 2017-18 is primarily due to procurement of IT equipments.

4.7.4 The computation of Return on Equity is shown in table below and attached as Annexure-12.

Table 5: Return on Equity Computation (Rs. Cr)

Particulars	FY 2015-16 (Projections)	FY 2016-17 (Projections)	FY 2017-18 (Projections)
Vehicle	0.020	0.100	0.100
SLDC Building	0.940	0.940	0.940
Furniture	0.185	0.203	0.224
IT Equipments	10.104	11.104	11.104
Total GFA	11.249	12.347	12.368
Projects funded by PGCIL	10.083	11.083	11.083
Net GFA	1.166	1.264	1.285
Equity @ 30%	0.350	0.379	0.385
Return on Equity @ 14%	0.049	0.053	0.054

4.7.5 SLDC submits before the Hon'ble Commission to kindly approve the Return on Equity for following years:

Rs. Cr		
FY2015-16	FY2016-17	FY2017-18
0.05	0.05	0.05

4.8 Interest and finance charges

4.8.1 Interest & finance charges on loan capital shall be computed on the outstanding loans, duly taking into account the schedule of loan repayment, terms and conditions of loan agreements, bond or debenture and the lending rate prevailing therein. It is submitted

that there are no outstanding loans on SLDC.

- 4.8.2** However, as per Regulation 27 of the MYT Regulations, 2014, if the equity employed for financing of projects is more than 30%, the amount of equity for the purpose of tariff shall be limited to 30% and balance shall be treated as normative loan.
- 4.8.3** It is submitted that the assets to be added in FY 2015-16, FY 2016-17 and FY 2017-18 are financed through funds from PGCIL and equity.
- 4.8.4** Also, as there is no outstanding loan for MePTCL and SLDC, the normative rate of interest has been considered as State Bank Advance rate (SBAR) as on 01st April 2014.
- 4.8.5** The Hon'ble Commission is requested to kindly approve the computed interest on normative loan as shown in table below and enclosed as Annexure 8:

Table 6: Interest & Finance Charges (Rs. Cr)

Interest & Finance Charges	FY 2015-16	FY 2016-17	FY 2017-18
Addition in Net GFA during the years	0.524	0.098	0.020
Cummulative GFA	0.539	0.637	0.658
Equity Employed	0.539	0.637	0.658
Equity Allowed (30% of Capital Cost)	0.162	0.191	0.197
Normative Loan (70 % of Capital Cost)	0.377	0.446	0.460
Interest on Loan @ 14.75%	0.056	0.066	0.068

Note: SBI Advance rate (earlier SBI PLR) has not been revised since Nov'13. Therefore the SBI PLR as on 01.11.13 is considered for interest on Working Capital.

- 4.8.1** SLDC submits before the Hon'ble Commission to kindly approve the Interest on Loan & Finance charges for following years:

Rs. Cr		
FY2015-16	FY2016-17	FY2017-18
0.06	0.07	0.07

4.9 Income from other sources

- 4.9.1** Other income comprises of Scheduling charges and application charges for Short term Open access consumers. It is envisaged that number of Open access consumers remains same for the control period.
- 4.9.2** Based on the actual income during 1st half of FY 2014-15, other income for SLDC has been projected for FY 2015-16, FY 2016-17 and FY 2017-18.
- 4.9.3** The detail of Other Income is attached as Annexure-13.

Table 7: Other Income of SLDC (Rs. Cr)

Particulars	FY 2015-16	FY 2016-17	FY 2017-18
SLDC Scheduling Charges for OA	0.452	0.452	0.452
SLDC Application Charges for OA	0.068	0.068	0.068
Total	0.520	0.520	0.520

SLDC submits before the Hon'ble Commission to kindly approve income from other sources as per the below table:

Rs. Cr		
FY2015-16	FY2016-17	FY2017-18
0.52	0.52	0.52

5 Annual Revenue Requirement

5.1.1 The abstract of Net ARR for FY 2015-16, FY 2016-17 and FY 2017-18 of SLDC is provided in Table below. The ARR summary is attached as Annexure-1.

Table 8: Annual Revenue Requirement

Sl No	Particulars	FY2015-16 (Projected)	FY2016-17 (Projected)	FY2017-18 (Projected)
1	Employee Cost	1.496	1.649	1.817
2	Administration & General Charges	0.192	0.210	0.226
3	Repairs and Maintenance Expenses	0.609	0.355	0.509
4	Depreciation	0.717	1.476	1.548
5	Interest on Working Capital	0.028	0.027	0.031
6	Other Expenses	-	-	-
7	Prior Period Adjustments(+ / -)	-	-	-
8	Return on Investments/Capital	0.049	0.053	0.054
9	Interest & Finance Charges	0.056	0.066	0.068
10	Total Revenue Requirement	3.146	3.836	4.253
11	<i>Less other income (fee etc.,)</i>	0.520	0.520	0.520
12	Net ARR	2.626	3.316	3.734
	<i>Amount Allocated to Generating Stations (50% of Sl.No. 12)</i>	1.31	1.66	1.87
	<i>Amount Allocated to Transmission Licensee(50% of Sl.No. 12)</i>	1.31	1.66	1.87

SLDC submits before the Hon'ble Commission to kindly approve the ARR of SLDC as under:

Rs. Cr		
FY2015-16	FY2016-17	FY2017-18
2.63	3.32	3.73

Annexure -1

SI No	Particulars	Annexure No	FY 2013-14 (Provisional)	FY 2014-15 (Estimated)	FY 2015-16 (Projections)	FY 2016-17 (Projections)	FY 2017-18 (Projections)
1	Employee Cost	Annexure-3	103.74	130.05	149.63	164.86	181.68
2	Administration & General Expenses	Annexure-5	12.34	12.58	19.18	21.01	22.60
3	Repair and Maintenance Expenses	Annexure-6	74.68	73.08	60.85	35.51	50.90
4	Depreciation	Annexure-7	2.76	2.81	71.65	147.60	154.80
5	Interest & Finance Charges	Annexure-8	NA	0.16	5.57	6.58	6.79
6	Interest on Working Capital	Annexure-9	2.30	2.65	2.82	2.72	3.14
7	Other Expenses	Annexure-10	NA	NA	NA	NA	NA
8	Prior Period Adjustments (+ / -)	Annexure-11	NA	NA	NA	NA	NA
9	Returns on Investments /Capital	Annexure-12	2.63	2.70	4.90	5.31	5.39
10	Total Revenue Requirement		198.45	224.02	314.60	383.59	425.30
11	Less other income (fee etc.)	Annexure-13	43.19	51.95	51.95	51.95	51.95
12	Net ARR		155.26	172.07	262.65	331.64	373.35
13	Amount Allocated to Generating Station (50 % of SI No. 12)		77.63	86.03	131.32	165.82	186.68
14	Amount Allocated to Transmission Licensees (50 % of SI No. 12)		77.63	86.03	131.32	165.82	186.68

Annexure -2

Sl No	Particulars	Generation Capacity in MW / Transmission Capacity in MW Km	Revenue from Generating Stations / Transmission Licensees Amount (Rs. Lac)					Remarks
			FY 2013-14 (Provisional)	2014-15 (Estimates)	FY 2015-16 (Projections)	FY 2016-17 (Projections)	FY 2017-18 (Projections)	
1	Umiam - I HEP Generating Station	36	8.88	9.84	15.02	18.97	21.35	
2	Umiam - II HEP Generating Station	20	4.93	5.47	8.35	10.54	11.86	
3	Umiam - III HEP Generating Station	60	14.80	16.40	25.04	31.61	35.59	
4	Umiam -VI HEP Generating Station	60	14.80	16.40	25.04	31.61	35.59	
5	Umtru HEP Generating Station	11.2	2.76	3.06	4.67	5.90	6.64	
6	Sonapani SHEP Generating Station	1.5	0.37	0.41	0.63	0.79	0.89	
7	Myntdu -Leshkal HEP Generating Stations	126	31.08	34.45	52.58	66.39	74.74	
Total from Generating Stations		314.7	77.63	86.03	131.32	165.82	186.68	
1	Meghalaya Power Transmission Corporation Ltd.		77.63	86.03	131.32	165.82	186.68	
Total from Transmission Licensees		0	77.63	86.03	131.32	165.82	186.68	
Total		314.7	155.26	172.07	262.65	331.64	373.35	

Annexure -3
Employees Cost (Rs in Lakhs)

Sl No	Particulars	FY 2012-13 (Provisional)	FY 2013-14 (Provisional)	FY 2014-15 (Estimates)	FY 2015-16 (Projections)	FY 2016-17 (Projections)	FY 2017-18 (Projections)	Remarks
1	Salaries	46.57	54.90	73.33	84.32	92.76	102.04	
2	Over Time / Double Wages	5.05	5.62	6.23	7.16	7.88	8.68	
3	Dearness Allowance	12.77	21.31	33.84	38.91	42.81	47.09	
4	Other Allowances	9.70	11.76	14.21	16.35	17.98	19.79	
5	Bonus /Ex-gratia	0.00	0.00	0.20	0.20	0.20	0.20	
6	Sub-Total (1 to 5)	74.09	93.59	127.81	146.94	161.63	177.80	
7	Medical Expenses	0.67	4.75	2.24	2.69	3.23	3.88	
8	Leave Travel Allowance	0.00	0.00	0.00	0.00	0.00	0.00	
9	Earned Leave Encashment	0.00	0.00	0.00	0.00	0.00	0.00	
10	Other expenses towards Employees Cost	4.67	5.40	0.00	0.00	0.00	0.00	
11	Sub -Total (7 to 10)	5.34	10.15	2.24	2.69	3.23	3.88	
12	Staff Welfare Expenses	0.00	0.00	0.00	0.00	0.00	0.00	
13	Terminal Benefits / Provisions	0.00	0.00	0.00	0.00	0.00	0.00	
14	Sub-Total (12 to 13)	0.00	0.00	0.00	0.00	0.00	0.00	
	Grand Total	79.43	103.74	130.05	149.63	164.86	181.68	

Annexure -4

Employees Cost - Additional Information (Rs in Lakhs)

Sl No	Category of Employees	FY 2012-13			FY 2013-14			FY 2014-15			FY 2015-16			FY 2016-17			FY 2017-18		
		Nos		Cost	Nos		Cost	Nos		Cost	Nos		Cost	Nos		Cost	Nos		Cost
		Sanctioned	Working	Rs in lakhs	Sanctioned	Working	Rs in lakhs	Sanctioned	Working	Rs in lakhs	Sanctioned	Working	Rs in lakhs	Sanctioned	Working	Rs in lakhs	Sanctioned	Working	Rs in lakhs
1	Board of Directors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	Chief Engineers and equivalent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	SE and equivalent	0.0	0.0	0.0	1.0	1.0	9.6	1.0	1.0	11.3	1.0	1.0	13.0	1.0	1.0	14.3	1.0	1.0	15.8
3	EE and equivalent	1.0	1.0	7.9	3.0	3.0	22.1	3.0	3.0	24.2	3.0	3.0	27.8	3.0	3.0	30.6	3.0	3.0	33.7
4	AEE and equivalent	2.0	3.0	16.2	5.0	1.0	5.6	5.0	2.0	7.0	5.0	5.0	8.6	5.0	5.0	9.5	5.0	5.0	10.4
5	AE and equivalent	8.0	10.0	44.8	11.0	9.0	44.1	12.0	10.0	58.2	12.0	12.0	67.6	12.0	12.0	74.3	12.0	12.0	82.1
6	All other staff	9.0	11.0	10.6	17.0	14.0	22.4	22.0	16.0	29.4	22.0	22.0	32.6	22.0	22.0	36.1	22.0	22.0	39.7
	Total	20.0	25.0	79.4	37.0	28.0	103.7	43.0	32.0	130.1	43.0	43.0	149.6	43.0	43.0	164.9	43.0	43.0	181.7

MYT & Business Plan Petition for
FY2015-16 to FY2017-18

Annexure-5: Administration and General Expenses (Rs in lakhs)

Sl No	Particulars	FY 2012-13 (Actuals)	FY 2013-14 (Provisional)	FY 2014-15 (Estimates)	FY 2015-16 (Projections)	FY 2016-17 (Projections)	FY 2017-18 (Projections)	Remarks
1	Rents, Rates and Taxes	0.00	0.00	0.00	0.00	0.00	0.00	
2	Security Arrangements	0.00	0.00	0.00	0.00	0.00	0.00	
3	Insurance	0.03	0.06	0.05	0.05	0.25	0.20	
4	Telephone Charges, postage, Telegram, Telex and fax charges	0.69	0.44	0.48	0.53	0.59	0.64	
5	V Sat Internet and related Charges	0.00	0.00	0.00	0.00	0.00	0.00	
6	Legal Charges	0.00	0.00	0.00	0.00	0.00	0.00	
7	Audit Fees	0.00	0.00	0.00	0.00	0.00	0.00	
8	Technical Fee	0.00	0.00	0.00	0.00	0.00	0.00	
9	Consultancy Fees	0.00	0.00	0.00	0.00	0.00	0.00	
10	Other Professional Charges	0.00	0.00	0.00	0.00	0.00	0.00	
11	Travelling Expenses	2.31	4.54	4.64	5.11	5.62	6.18	
12	Conveyance and Vehicles Hire Charges	0.85	2.78	4.52	9.04	9.04	9.04	
13	Sub-Total (1 to 12)	3.88	7.82	9.70	14.73	15.49	16.06	
14	Other Expenses	0.00	0.00	0.00	0.00	0.00	0.00	
	a) Fees & Subscription	0.00	0.00	0.00	0.00	0.00	0.00	*Entertainment Charges includes Special imprest
	b) Books and periodicals	0.00	0.00	0.10	0.10	0.10	0.10	
	c) Computer Stationery	0.09	0.00	0.00	0.00	0.00	0.00	
	d) Printing and Stationery	0.09	0.17	0.18	0.20	0.22	0.24	
	e) Advertisements	0.00	0.00	0.00	0.00	0.00	0.00	**Miscellaneous Charges includes Training Expenses & meetings
	f) Contributions / Donations	0.00	0.00	0.00	0.00	0.00	0.00	
	g) Electricity Charges	0.00	0.00	0.00	0.00	0.00	0.00	
	h) Water Charges	0.00	0.00	0.00	0.00	0.00	0.00	
	i) Entertainment Charges	0.03	0.05	0.10	0.15	0.20	0.20	
	j) Miscellaneous Charges*	3.57	4.30	2.50	4.00	5.00	6.00	
15	Sub-Total (a to j)	3.78	4.52	2.88	4.45	5.52	6.54	
16	Freight	0.00	0.00	0.00	0.00	0.00	0.00	
17	Other purchases and related expenses	0.00	0.00	0.00	0.00	0.00	0.00	
18	Grand Total	7.66	12.34	12.58	19.18	21.01	22.60	

Annexure -6

Repairs and Maintenance Charges (Rs in Lakhs)

SI No	Particulars	FY 2012-13 (Actuals)			FY 2013-14 (Actuals)			FY 2014-15			FY 2015-16			FY 2016-17			FY 2017-18		
		Consumption of Stores	Other O & M Expenses	Total	Consumption of Stores	Other O & M Expenses	Total	Consumption of Stores	Other O & M Expenses	Total	Consumption of Stores	Other O & M Expenses	Total	Consumption of Stores	Other O & M Expenses	Total	Consumption of Stores	Other O & M Expenses	Total
	Repairs and Maintenance to:																		
1	Plant & Machinery	0.00	68.40	68.40	0.00	74.35	74.35	0.00	72.44	72.44	0.00	56.58	56.58	0.00	30.38	30.38	0.00	44.78	44.78
2	Buildings	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50	3.50	0.00	4.20	4.20	0.00	5.00	5.00
3	Other Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Cable Network	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Vehicles	0.00	0.20	0.20	0.00	0.32	0.32	0.00	0.48	0.48	0.00	0.58	0.58	0.00	0.70	0.70	0.00	0.84	0.84
6	Furniture & Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.06	0.06	0.00	0.07	0.07	0.00	0.09	0.09
7	Office Equipment	0.00	0.29	0.29	0.00	0.01	0.01	0.00	0.11	0.11	0.00	0.13	0.13	0.00	0.16	0.16	0.00	0.19	0.19
8	Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.00	68.89	68.89	0.00	74.68	74.68	0.00	73.08	73.08	0.00	60.85	60.85	0.00	35.51	35.51	0.00	50.90	50.90

Annexure -7 (I)

Depreciation (Rs in Lakh) (Preious Years)

SI No	Description of Asset	FY 2013-14			FY 2014-15				
		Balance Accumulated Depreciaton at the beginning of the year	Depreciation provided for the year	With drawal of Depreciation	Balance Accumulated Depreciaton at the end of the year	Balance Accumulated Depreciaton at the beginning of the year	Deprecia tion provided for the year	With drawal of Deprecia tion	Balance Accumulated Depreciaton at the end of the year
1	Land and Rights	NA	NA	NA	NA	NA	NA	NA	NA
2	Building and Structure	NA	1.26	NA	1.26	1.26	1.26	NA	2.53
3	Communication equipments	NA	NA	NA	NA	NA	NA	NA	NA
4	Metering Equipments	NA	NA	NA	NA	NA	NA	NA	NA
5	V-Sat Equipments	NA	NA	NA	NA	NA	NA	NA	NA
6	Furniture	NA	0.87	NA	0.87	0.87	0.91	NA	1.78
7	IT Equipments	NA	0.46	NA	0.46	0.46	0.46	NA	0.92
8	Miscelleneous Equipments	NA	NA	NA	NA	NA	NA	NA	NA
9	Vehicles	NA	0.17	NA	0.17	0.17	0.17	NA	0.34
	Total	NA	2.76	NA	2.76	2.76	2.81	NA	5.57

Annexure -7 (II)

Depreciation (Rs in Lakh) (Control Period)

SI No	Description of Asset	FY 2015-16				FY 2016-17				FY 2017-18			
		Balance Accumulated Depreciaton at the beginning of the year	Deprecia tion provided for the year	With drawal of Deprecia tion	Balance Accumulated Depreciaton at the end of the year	Balance Accumulated Depreciaton at the beginning of the year	Deprecia tion provided for the year	With drawal of Deprecia tion	Balance Accumulated Depreciaton at the end of the year	Balance Accumulated Depreciaton at the beginning of the year	Deprecia tion provided for the year	With drawal of Deprecia tion	Balance Accumulated Depreciaton at the end of the year
1	Land and Rights	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2	Building and Structure	2.53	2.04	NA	4.57	4.57	2.83	NA	7.39	7.39	2.83	NA	10.22
3	Communication equipments	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4	Metering Equipments	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5	V-Sat Equipments	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6	Furniture	1.78	1.01	NA	2.79	2.79	1.11	NA	3.90	3.90	1.22	NA	5.11
7	IT Equipments	0.92	68.43	NA	69.35	69.35	143.15	NA	212.50	212.50	149.90	NA	362.40
8	Miscellaneous Equipments	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9	Vehicles	0.34	0.17	NA	0.51	0.51	0.51	NA	1.03	1.03	0.86	NA	1.88
	Total	5.57	71.65	NA	77.22	77.22	147.60	NA	224.81	224.81	154.80	NA	379.61

Annexure – 8

Interest and Finance Charges (Rs. In Lakhs)									
SI	Name of the	Balance at	Amount	Amount	Balance	Rate of	Interes	Total	Remarks
1	FY 2014-15	<i>As per Meghalaya State Electricity Regulatory Commission (Multi Year Tariff) Regulations, 2014, Return on Equity is limited to 30% of GFA and balance 70% is considered as loan</i>				14.75%	0.16	0.16	
2	FY 2015-16					14.75%	5.57	5.57	
3	FY 2016-17					14.75%	6.58	6.58	
4	FY 2017-18					14.75%	6.79	6.79	
Note: SBI Advance rate (earlier SBI PLR) has not been revised since Nov'13. Therefore the SBI PLR as on 01.11.13 is considered for interest on Working Capital.									

Annexure – 9
Interest on Working Capital
FY 2015-16 (In lakhs)

SI No	Source of Borrowing	Amount Borrowed during the year	Rate of interest	Period of borrowing	Amount of Interest	Interest for the year	Remarks
1	Bank / Financial Institution	19.14	14.75%	12 months	2.82	2.82	
	Grand Total				2.82	2.82	

FY 2016-17 (In lakhs)

SI No	Source of Borrowing	Amount Borrowed during the year	Rate of interest	Period of borrowing	Amount of Interest	Interest for the year	Remarks
1	Bank / Financial Institution	18.45	14.75%	12 months	2.72	2.72	
	Grand Total				2.72	2.72	

FY 2017-18 (In lakhs)

SI No	Source of Borrowing	Amount Borrowed during the year	Rate of interest	Period of borrowing	Amount of Interest	Interest for the year	Remarks
1	Bank / Financial Institution	21.27	14.75%	12 months	3.14	3.14	
	Grand Total				3.14	3.14	

Annexure – 10

Other Expenses (Rs in lakhs)

Sl No	Particulars of Expenses	Previous Year	Current Year (actuals for available period and estimate for the balance period)	Estimates for Ensuing Year	Remarks
1		Not Applicable			
2					
3					
4					
5					
6					
7					
8					
	Total				

Annexure – 11

Prior Period Adjustments (Rs in lakhs)

Sl No	Particulars of Expenses	Previous Year	Estimates for Current Year	Estimate s for Ensuing Year	Remarks
1		Not Applicable			
2					
3					
4					
5					
	Total				

Annexure-12

Return on Investments (Rs. Lacs)

Sl No	Particulars	FY 2013-14 (Provisional)	FY 2014-15 (Estimation)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
1	Equity @ 30% of GFA	18.80	19.26	34.97	37.93	38.54
2	Return on Equity @ 14%	2.63	2.70	4.90	5.31	5.39

Annexure – 13

Other Income

(Rs in lakhs)

Sl No	Particulars	Previous Year [2013-14]	Estimates for Current Year [2014-15]	Estimates for Ensuing Year [2015-16]	Estimates for Ensuing Year [2016-17]	Estimates for Ensuing Year [2017-18]	Remarks
1	SLDC charges from open access customers	36.79	45.15	45.15	45.15	45.15	
2	Application fees from open access customers	6.40	6.80	6.80	6.80	6.80	
	Total	43.19	51.95	51.95	51.95	51.95	



मेघालया MEGHALAYA

01AA 330585

BEFORE THE HON'BLE MEGHALAYA STATE ELECTRICITY REGULATORY
COMMISSION

FILE / PETITION NO.....

IN THE MATTER OF

APPROVAL OF BUSINESS PLAN AND ANNUAL REVENUE REQUIREMENT FOR THE
FINANCIAL YEARS 2015-16, 2016-17 & 2017-18 OF THE STATE LOAD DESPATCH
CENTRE UNDER MEGHALAYA STATE ELECTRICITY REGULATORY COMMISSION
(MULTI-YEAR TARIFF) REGULATIONS, 2014 AND MEGHALAYA STATE
ELECTRICITY REGULATORY COMMISSION (LEVY AND COLLECTION OF STATE
LOAD DESPATCH CENTRE FEES AND CHARGES) REGULATIONS-2009.

AND IN THE MATTER OF

STATE LOAD DESPATCH CENTRE (SLDC), 132 KV NEHU GRID SUB-STATION
COMPLEX, SHILLONG – 793022, MEGHALAYA.

PETITIONER

Affidavit verifying the Petition

I Shri Batskhem Wankhar, aged about 45 years, son of Shri S. Dkhar, residing at 4th
Mile, Upper Shillong, Shillong -793005, do solemnly affirm and say as follows:-

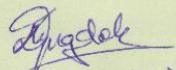
I am working as Executive Engineer, Market Operation, SLDC, at Meghalaya Power Transmission Corporation Limited (MePTCL), is the petitioner in the above matter and I am duly authorized to make this petition.

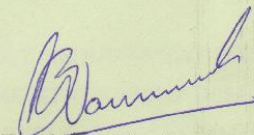
That the statement made in reply to the petition herein annexed and enclosed is based on information as derived from the records and I believe them to be true.


VERIFICATION

Solemnly affirm at Shillong on this 22nd day of December 2014 that the contents of the above petition are true to my knowledge and no part of it is false and no material has been concealed there from.

In acknowledgement thereof, I swear this affidavit before the Magistrate First Class, Shillong on this 22nd day of December 2014


(Ms. S. Lyngdoh)
Identified by:


(Batskhem Wankhar)
Petitioner


Subordinate District Council Court,
Khasi Hills, Shillong.