

BEFORE
MEGHALAYA STATE ELECTRICITY REGULATORY COMMISSION,
SHILLONG

PETITION

FOR

**APPROVAL OF
BUSINESS PLAN AND ANNUAL REVENUE REQUIREMENT
FOR FY 2015-16 TO FY 2017-18
&
DISTRIBUTION TARIFF FOR FY 2015-16**

FILED BY



**MEGHALAYA POWER DISTRIBUTION
CORPORATION LTD.**

Lum Jingshai, Short Round Road, Shillong - 793 001

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 FINANCIAL YEARS 2015-16, 2016-17 & 2017-18 AND TARIFF PROPOSAL FOR THE FINANCIAL YEAR 2015-16 OF THE MEGHALAYA POWER DISTRIBUTION CORPORATION LIMITED (MePDCL) UNDER THE MEGHALAYA STATE ELECTRICITY REGULATORY COMMISSION (MULTI YEAR TARIFF) REGULATIONS, 2014 AND UNDER SECTION-62 READ WITH SECTION 86 OF THE ELECTRICITY ACT 2003.

AND IN THE MATTER OF

MEGHALAYA POWER DISTRIBUTION CORPORATION LIMITED; LUMJINGSHAI, SHILLONG – 793001, MEGHALAYA

PETITIONER

IT IS RESPECTFULLY SUBMITTED BY THE PETITIONER THAT:

1. In exercising its powers conferred under the section 131 and 133 of the Electricity Act 2003, the State Government of Meghalaya notified "The Meghalaya Power Sector Reforms Transfer Scheme 2010" on 31st March 2010 leading to restructuring and unbundling of erstwhile Meghalaya State Electricity Board (MeSEB) into four entities namely (i) Meghalaya Energy Corporation Limited (MeECL), the Holding Company; (ii) Meghalaya Power Distribution Corporation Limited (MePDCL), the Distribution Utility; (iii) Meghalaya Power Generation Corporation Limited (MePGCL), the Generation Utility; & (iv) Meghalaya Power Transmission Corporation Limited (MePTCL), the Transmission Utility. However, the holding company - MeECL carried out the functions of distribution, generation and transmission utilities from 1st April 2010 to 31st March 2012. Therefore, through notification dated 31st March 2012, State Government notified an amendment to The Power Sector Reforms Transfer Scheme leading to effective unbundling of MeECL into MeECL (Holding Company), MePDCL (Distribution Utility), MePGCL (Generation utility) and MePTCL (Transmission Utility) from 1st April 2012 onwards.
2. MePDCL has begun segregated commercial operations as an independent entity from 1st April 2013 onwards. The Meghalaya State Electricity Regulatory Commission (MSERC, hereinafter referred to as "The Hon'ble Commission") has determined the segregated Aggregate Revenue Requirement (ARR) and tariffs for MePDCL for FY2013-14 and FY2014-15 in accordance with Meghalaya State Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2011.

3. The petition for determination of ARR for the first Control Period (FY2015-16 to FY2017-18) and Tariff for FY 2015-16 has been prepared in accordance with The Meghalaya State Electricity Regulatory Commission (Multi Year Tariff) Regulations, 2014 (hereinafter referred to as "MYT Regulations, 2014") which have been notified by the Hon'ble Commission on 15th September 2014.
4. Based on the provisional segregated financials and transfer scheme, estimates for the FY 2014-15 and projections for FY 2015-16 to FY2017-18 are prepared and ARR for FY 2015-16 to FY2017-18 is proposed.
5. The Net ARR for FY 2015-16, FY 2016-17 and FY 2017-18 of MePDCL is projected at Rs. **1,005.93** Cr, Rs **1157.58** Cr and Rs. **1,285.05** Cr respectively.
6. The Board of Directors of MePDCL have accorded approval for the Distribution ARR and Tariff petition for the first control period FY2015-16 to FY2017-18 and authorized the undersigned to file accordingly.
7. The applicant, therefore, humbly prays to the Hon'ble Commission to pass appropriate order on the following:
 - a. Approval of Business Plan for the Control Period of FY 2015-16 to FY 2017-18
 - b. Approval of Tariff Proposal for FY 2015-16
 - c. Approval of Net ARR amounting to Rs. **1005.93** Cr for FY 2015-16 as proposed in this Petition.
 - d. Approval of Net ARR amounting to Rs. **1,157.58** Cr for FY 2016-17 as proposed in this Petition.
 - e. Approval of Net ARR amounting to Rs. **1,285.05** Cr for FY 2017-18 as proposed in this Petition.
 - f. To pass such orders, as Hon'ble Commission may deem fit and proper and necessary in view of the facts and circumstances of the case.
 - g. To condone any inadvertent omissions, errors & shortcomings and permit the applicant to add/change/modify/alter this filing and make further submissions as required.

(R Sungoh)
Superintending Engineer (Reorganisation),
For and on behalf of
Meghalaya Power Distribution Corporation Ltd

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1 Background

1.1 Introduction

1.1.1 The Power Supply industry in Meghalaya had been under the control of the erstwhile Meghalaya State Electricity Board (MeSEB) with effect from 21st January 1975. On 31st March 2010, the State Government issued a Notification “The Meghalaya Power Sector Reforms Transfer Scheme 2010” thereby giving effect to the transfer of assets, properties, rights, liabilities, obligations, proceedings and personnel of the erstwhile MeSEB to four successor companies. On 31st March 2012, Government of Meghalaya issued further amendment to the above mentioned transfer scheme, to transfer Assets and Liabilities including all rights, obligations and contingencies with effect from 1st April, 2012 to namely:

- Generation: Meghalaya Power Generation Corporation Ltd. (MePGCL)
- Transmission: Meghalaya Power Transmission Corporation Ltd. (MePTCL)
- Distribution: Meghalaya Power Distribution Corporation Ltd. (MePDCL)
- Meghalaya Energy Corporation Limited (MeECL), a holding company.

1.1.2 The Government of Meghalaya issued further notification on 23rd December 2013 thereby notifying the revised statement of Assets and Liabilities as on 1st April 2010 to be vested in Meghalaya Energy Corporation Limited.

1.1.3 The MSERC 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 tariff for electricity consumers.

1.2 Provision of Law

1.2.1 The Hon’ble Commission has notified the MYT Regulations, 2014 on 15th September, 2014.

1.2.2 As per Regulations 3, 4 & 7 of the MYT Regulations, 2014, the Hon’ble Commission will determine ARR & Tariff for the Distribution Licensee under Multi Year Tariff framework from 1st April, 2015. The relevant regulations are reproduced below for reference.

“3 Scope of Regulation

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:

i. Supply of electricity by a Generating Company to a Distribution Licensee:

Provided that where the Commission believes that a shortage of supply of electricity exists, it may fix the minimum and maximum ceiling of tariff for sale or purchase of electricity in pursuance of an agreement, entered into between a generating Company and a Distribution Licensee or between distribution licensees, for a period not exceeding one year to ensure reasonable prices of electricity;

ii. Intra-State transmission of electricity and SLDC charges;

iii. Intra-State Wheeling of electricity;

iv. Retail supply of electricity:

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

Provided further that where the Commission has allowed open access to certain consumers under sub-section (2) of Section 42 of the Act, the Commission shall determine the wheeling charges, cross subsidy surcharge, additional surcharges and other open access related charges in accordance with these regulations and MSERC (Terms and Conditions of Open Access) Regulations 2012 as applicable and as amended through Orders issued by the Commission from time to time

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4 Multi-Year Tariff framework

4.1 The Commission shall determine the tariff for matters covered under clauses (i), (ii), (iii) and (iv) of regulation 3 above under Multi- Year Tariff framework with effect from April 01, 2015.

Provided that the Commission may, either on suo-moto basis or upon application made to it by an applicant, exempt the determination of tariff of a Generating Company or Transmission Licensee or Distribution Licensee under the Multi-Year Tariff framework for such period as may be contained in the Order granting such an exemption.

4.2 The Multi-Year Tariff framework shall be based on the following elements, for determination of Aggregate Revenue Requirement and expected revenue from tariff and charges for Generating Company, Transmission Licensee, and Distribution Business:

a) A detailed Business Plan based on the principles specified in these Regulations, for each year of the Control Period, shall be submitted by the applicant for the Commission's approval:

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7 Applicability

7.1 The Multi-Year Tariff framework shall apply to applications made for determination of tariff for a Generating Company, Transmission Licensee, and Distribution Licensee for Distribution Business.”

1.2.3 The Regulation 6 & 80 of the MYT Regulations, 2014, provides the guidelines for filing of Multi Year Tariff. The relevant sections are reproduced below:

“6 Accounting statement and filing under MYT

6.1 The filing under MYT by the Generating Company, Transmission Licensee, and Distribution Licensee, shall be done on or before 30th November each year to the Commission and in compliance with the principles for determination of ARR as specified in these Regulations, in such formats and at such time as may be prescribed by the Commission from time to time. The filing of truing up of petitions prior to MYT period shall be done in the manner and at such time as may be decided by the Commission.

6.2 The filing of MYT Petition for the Control Period under these Regulations shall be as under:

a) MYT Petition shall comprise of:

- i. Multi-year Aggregate Revenue Requirement for the entire Control Period with year-wise details;
- ii. Revenue from the sale of power at existing tariffs and charges and projected revenue gap, for the first year of the Control Period under these Regulations.
- iii. Application for determination of tariff for first year of the Control Period.

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80 Application for Determination of Tariff

80.1 The Distribution licensee shall file an application for determination of tariff for retail supply along with Annual Revenue Requirement (ARR) in the formats specified by the Commission in accordance with the procedure laid down by the Commission.

80.2 The application shall contain data for base year, actual and estimated data for the present year and forecasted and target data for all years of the control period based on the business plan.”

1.2.4 As per Regulation 8 & 78 of the MYT Regulations, 2014, MePDCL has to file a Business Plan for the control period of FY 2015-16 to FY 2017-18. The relevant regulation is reproduced below:

“8 Business Plan

8.1 The Generating Company, Transmission licensee, and Distribution Licensee for Distribution Business, shall file a Business Plan for the Control Period of three (3) financial years from 1st April 2015 to 31st March 2018, which shall comprise but not be limited to detailed category-wise sales and demand projections, power procurement plan, capital investment plan, financing plan and physical targets, in accordance with guidelines and formats, as may be prescribed by the Commission from time to time:

Provided that a mid-term review of the Business Plan/Petition may be sought by the Generating Company, Transmission Licensee and Distribution Licensee through an application filed three (3) months prior to the specified date of filing of Petition for truing up for the second year of the Control Period and tariff determination for the third year of the Control Period.

8.2 The capital investment plan shall show separately, on-going projects that will spill over into the Control Period, and new projects (along with justification) that will commence in the Control Period but may be completed within or beyond the Control Period. The Commission shall consider and approve the capital investment plan for which the Generating Company, Transmission Licensee, and Distribution Licensee for the Distribution Business, may be required to provide relevant technical and commercial details.

8.3 The Distribution Licensee shall project the power purchase requirement based on the Merit Order Dispatch principles of all Generating Stations considered for power purchase, the Quantum of Renewable Purchase Obligation (RPO) under Meghalaya State Electricity Regulatory Commission (Renewal Energy Purchase Obligation and Compliance) Regulations, 2010 and the target set, if any, for Energy Efficiency (EE) and Demand Side Management (DSM) schemes.

8.4 The Generating Company, Transmission Licensee, and Distribution Licensee for the Distribution Business, shall get the Business Plan approved by the Commission.

...

78 Business Plan

78.1 The Distribution Licensee shall submit a Business Plan full details as stipulated by the Commission from time to time and in the manner specified in Chapter-2 of these Regulations. The business plan shall comprise among other details like capital investment plan, financing plan and fiscal targets in accordance with the guidelines/formats as may be stipulated by the Commission from time to time."

1.3 Submissions to the Hon'ble Commission

1.3.1 MePDCL hereby submits the petition under section 61, 62(c) & 62(d) of the Electricity Act, 2003 and MYT Regulations, 2014, as amended from time to time for approval of Business Plan & ARR for the period of FY 2015-16 to FY 2017-18 and Tariff for FY 2015-16.

BUSINESS PLAN

FY 2015-16 TO FY 2017-18

2 Business Plan

2.1 Preamble

2.1.1 The Hon'ble Commission has notified the MYT Regulations, 2014 on 15th September 2014 which came into force on 25th September, 2014. The tariff from 01st April 2015 onwards is to be determined under Multi Year Tariff framework. Based on the Business Plan, MePDCL is required to forecast the ARR for the first Control Period (FY2015-16 to FY2017-18) and expected revenue from existing tariff for the first year of Control Period. As per the MYT Regulations, 2014, Business Plan should comprise of Demand and Supply forecast, Capital Investment Plan, Power Procurement Plan, Financing plan, Physical targets etc.

2.1.2 The aforementioned components of Business Plan depends 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. MePDCL 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 Commission in accordance with the provisions of MYT Regulations, 2014. 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 Indian Power Sector Scenario

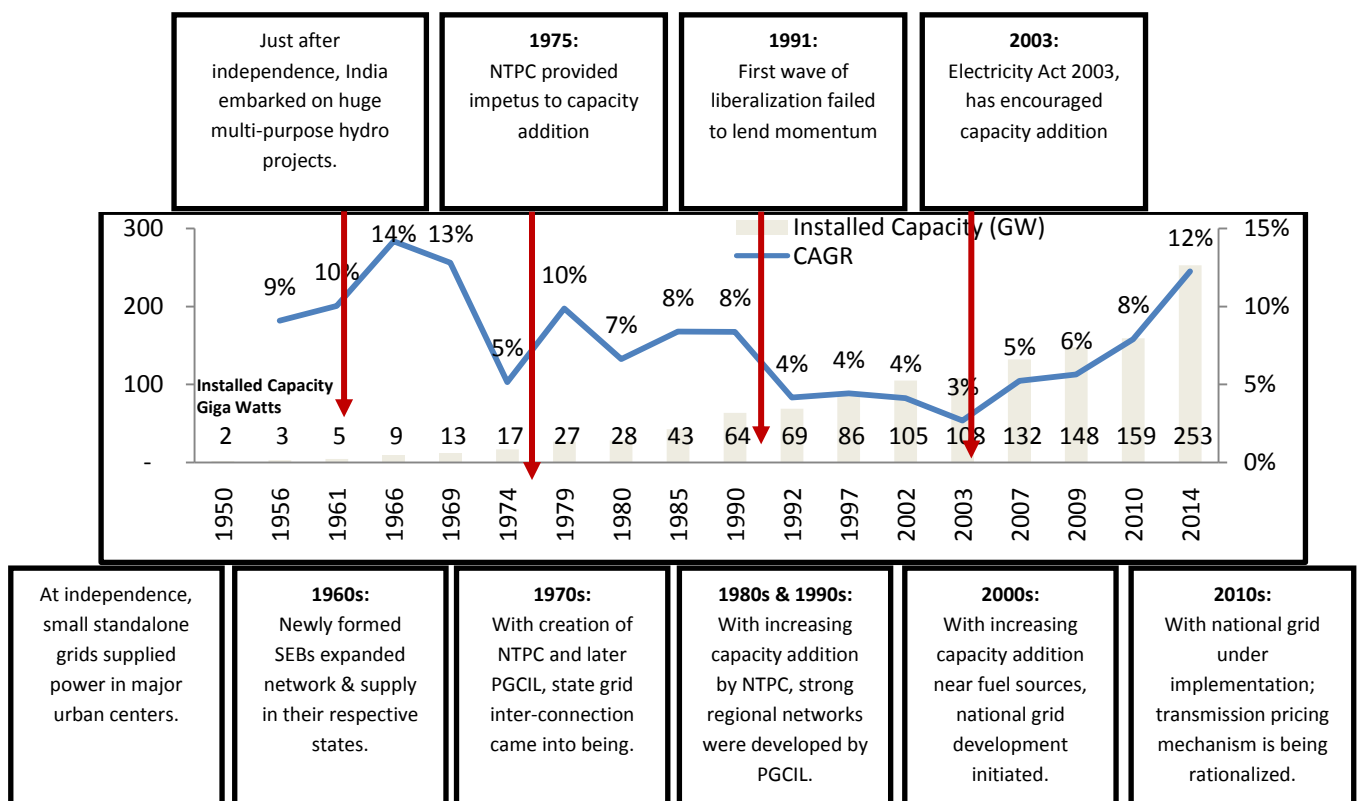
2.2.1 India is the fourth largest consumer of energy in the world after USA, China and Russia, the second most populous country and one of the fastest growing economies of the world. It must, therefore, meet its development needs by using all available domestic resources of coal, uranium, oil, hydro and other renewable resources, and supplementing domestic production by imports. High reliance on imported energy is costly especially keeping in view the rising energy prices; it also impinges adversely on energy security. Meeting the energy requirement of country, with a targeted economic growth rate of 8%-9% every year and a fast growing population, at affordable prices therefore presents a major challenge. Therefore a sustained effort at increasing energy efficiency is required while increasing domestic production as much as possible to keep import dependence at a reasonable level.

With the growing demand in energy requirement, the annual per capita energy

consumption has grown significantly. The low per capita consumption of electric power in India compared to the world average presents a significant potential for sustainable growth in the demand for electric power in India. According to the 18th Electric Power Survey (EPS), India’s peak demand is expected to grow to 207 GW in 2016-17 and 294 GW in 2021-22.

2.2.2 Sector Evolution

Electricity sector in India has evolved over the years. After independence, in order to fuel India’s growth, the government embarked on multi-purpose hydro projects. During this time, the sector was underdeveloped and consisted of small standalone grids which supplied power in major urban centers. Evolution of the electricity sector from 1947 to its current state has been detailed below:



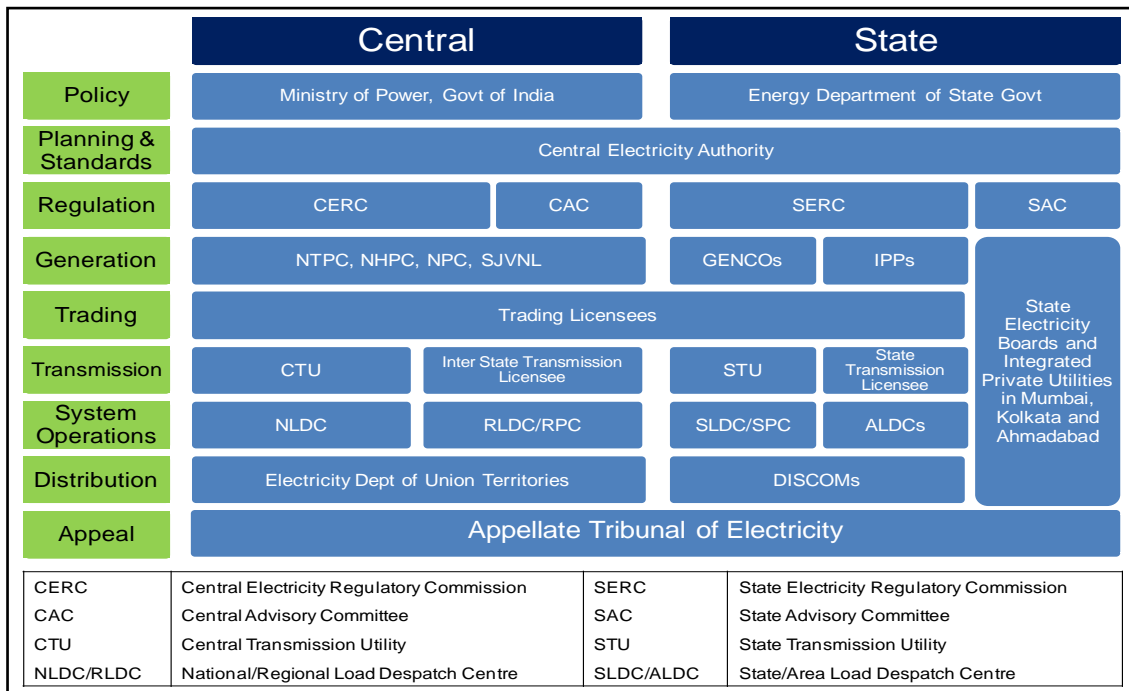
Electricity Act 2003 has overhauled the sector framework and has catalysed capacity addition. Fundamental changes brought about by the Electricity Act, 2003 are detailed below.

The most critical change brought about by Electricity Act, 2003 is competition – at wholesale as well as retail level – across the functions of generation, transmission, trading and distribution. While each sub-segment is at a different stage of implementation, competition is most pronounced in generation and trading.

Other than competition, the most critical element of EA 2003 is open access. Open access which provides for non-discriminatory access to networks of all transmission & distribution licensees actually facilitates competitions amongst power generators, traders and suppliers.

2.2.3 Key features of Indian Power Sector

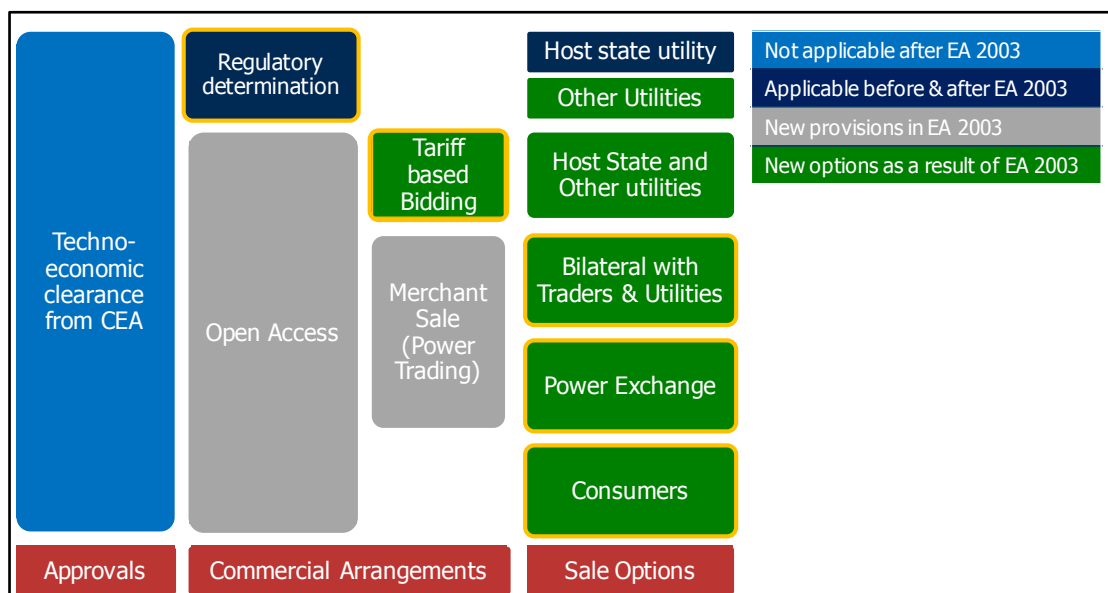
- Sector governed by Ministry of Power and Ministry of Renewable Energy with technical support by CEA and Regulatory support by CERC;
- Generation has been delicensed and is owned by a mix of Central, State and Private entities;
 - Private Sector contributes to ~ 36% of the total capacity with Adani Power being the largest with an installed capacity of 9240 MW;
- Transmission is largely owned by State and Central utilities with a few private sector participants;
 - India’s national grid comprises of five regions connected to each other through inter-regional links;
 - Operation owned by state and central entities only;
- Distribution is largely state owned;
 - Few exceptions in Mumbai, Delhi, Kolkata;
 - Franchisee model is gaining ground - Uttar Pradesh, Maharashtra, Bihar , Madhya Pradesh and few others
- Following chart highlights the structure and entities of Indian power sector:



2.2.4 Sale Options after EA 2003

Prior to Electricity Act, 2003 (EA 2003), IPPs sold power only to the host state utility through a cost plus tariff mechanism. EA 2003 opened up new avenues of power sale like sale to other utilities (other than host state), tariff based bidding, trading and direct sale to consumers.

While options for sale of other state utilities, power traders and power exchange have taken off, sale to consumers is still not as prevalent, largely due to limited development of open access at intra-state level governing such sale.



2.2.5 Renewable Energy

The supply from renewable is expected to increase rapidly from 24503 MW by the end of the 11th Plan to 54503 MW by the end of the 12th Plan and 99617 MW by the end of the 13th Plan. This fourfold increase in the next 10 years is expected to continue in subsequent years as policies provide a strong incentive for the renewable. Nevertheless the base is small and the share of renewable in total commercial energy used will remain small. It is expected to rise from about 1% in 2011-12 to 1.43% in 2016-17 and just under 2% in 2021–22. Though small, the share of renewable energy in India is comparable with that in many other countries: USA (1.7%), Indonesia (1.4 %), Thailand (1.0 %) and China (0.5 %). Brazil at 3.1 % is significantly higher.

The 11th Plan was the period in which the Electricity Act of 2003, which was enacted during the 10th Plan period was to be fully operationalized. The objectives of the Act are “to consolidate the laws related to generation, transmission, distribution, trading

and use of electricity, and taking measures conducive for the development of electrical industry, protecting interests of consumers and supply of electricity to all areas, rationalization of electricity tariff, ensuring transparent policies regarding subsidies, promotion of efficient and environmentally benign policies, constitution of regulatory commission and establishment of Appellate Tribunals”. While substantial progress was made in setting up the institutional structure, there are several important areas where reforms have yet to pick up the pace.

An important gain in the 11th Plan was the ramping up of the pace of addition to generation capacity.

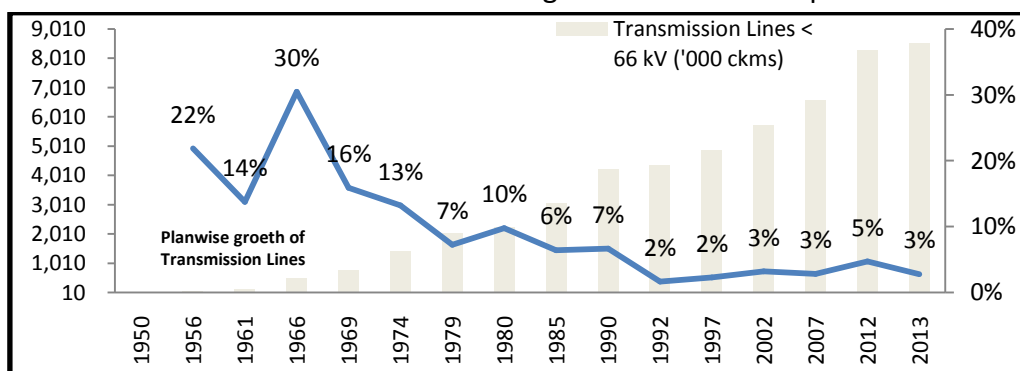
2.2.6 Distribution Sector

The Distribution Sector plays a crucial role in the overall functioning of the Power Sector. The Government is emphasizing on an efficient and well performing distribution sector and focusing on the improvement of financial health of utilities towards providing reliable and quality power supply and universal access to power.

Accessibility of Power in Rural Areas, AT&C loss Reduction, financial viability of Discoms, Smart Grid, Demand Side Management (DSM), Private Sector Participation/ Private Public Participation (PPP), etc. are also some initiatives taking centre stage today. These have largely been influenced by drivers in Policies and Acts introduced over the past decade. Considering the ambitious targets that were set for the 11th Plan, significant progress has been achieved. The key focus for the 12th Plan is to carry forward the achievements of the 11th Plan and to introduce improved initiatives. Viability of the power sector is largely hinged on the Distribution sector.

2.2.7 Achievements during the 11th Plan

~70,286 circuit km (ckm) of transmission line, 150362 MVA capacity of alternating current (AC) substations and 3000 MVA capacity of HV, direct current (HVDC) substations were added to the existing transmission system. Plan wise growth of transmission line <66 kV and CAGR during 1950 to 2013* are presented below:



* At the end of 1st year of 12th Plan, Source: CEA

Total number of villages electrified till March 2012 was about 5.6 Lacs, indicating that more than 93 per cent village electrification has been achieved. However, a large number of small habitations still remain unconnected. Various activities under different schemes of Bureau of Energy Efficiency (BEE) and Ministry of Power (MoP) have resulted in saving in avoided power capacity of 11000 MW.

In 12th Plan, investments totaling to Rs. 3.06 Lac Cr is planned to augment the distribution capacity of the country.

2.3 Company Profile-MePDCL

2.3.1 The Company is a Distribution Licensee within the meaning of Section 2 (17) of Electricity Act 2003. Further, Section 42 and 43 of the Electricity Act 2003 prescribes the following major duties of the Distribution Licensee:

- To develop and maintain an efficient, co-ordinated and economical distribution system
- To supply electricity on an application of the consumer in accordance with the provisions specified in the Electricity Act 2003
- To provide non-discriminatory open access to the consumers
- To establish a forum for redressal of grievances of the consumers

2.3.2 As per Meghalaya Power Sector Transfer Scheme, MePDCL has been vested with the function of distributing power by the State Government of Meghalaya. Therefore, the Business Scope of the Company falls within the legal framework as specified in the Act and includes:

- To supply electricity on an application of the consumer in accordance with the provisions specified in the Electricity Act 2003
- To develop the required distribution infrastructure within the State of Meghalaya to meet the demand of the consumers
- To Operate the existing distribution infrastructure efficiently & effectively
- Merchant Sale of Power in the event of availability of surplus power after meeting the requirement of own consumers with whom the capacity is contracted presently
- Other associated business like providing Training, Research and Development activities, Technical consultancy services and O&M related services

2.3.3 MePDCL started functioning as an independent commercial entity from 1st April 2013. The bulk power purchased from the MePGCL stations, the Central Generating Sector Stations and short term market is transmitted to MePDCL at various interface

points with MePTCL and the same is then supplied to the more than 3.5 Lacs consumers across the state. The present infrastructure of MePDCL in terms of lines and sub-stations are outlined below:

Table 1: Existing Network Details

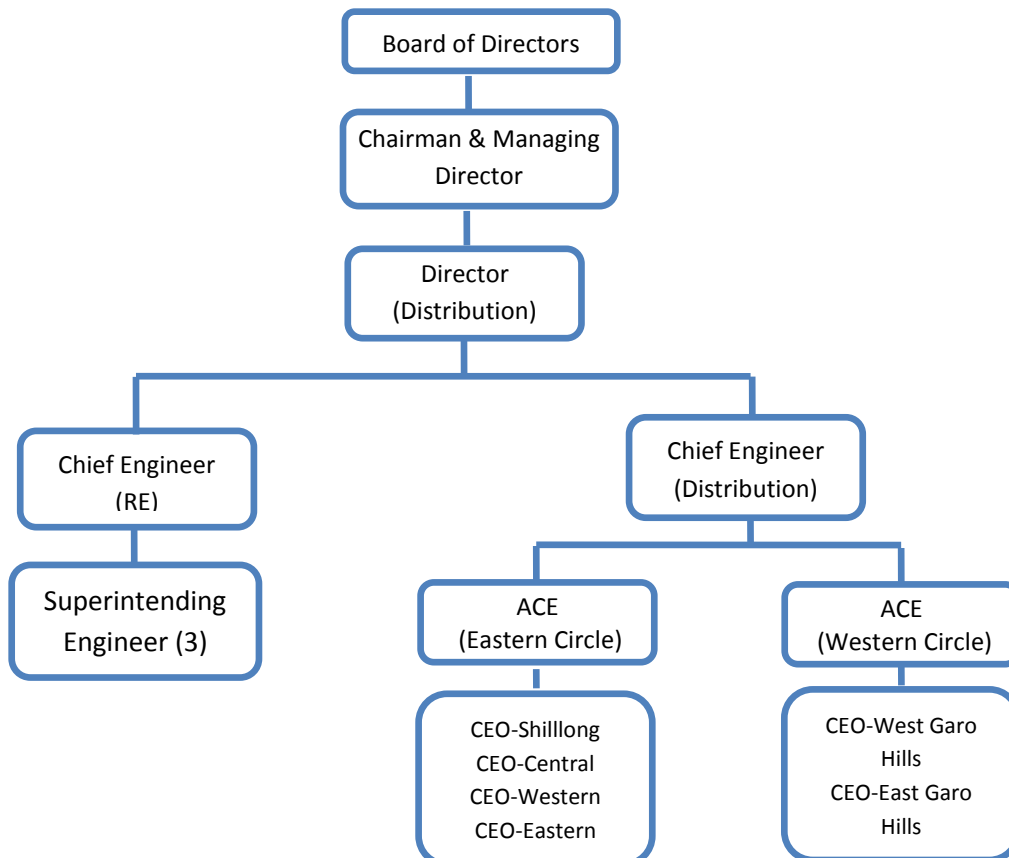
Details	As on 31.03.14
Number of Electrified villages	5300
Number of 33/11KV Sub Stations	116
Capacity of 33/11KV Sub Stations	373 MVA
Length of 33KV Lines	2042 Km
Length of 11KV Lines	11646 Km
Length of LT Lines	16853 Km
Number of Distribution Sub Stations	8241
Capacity of Distribution Sub Stations	574184 KVA

2.4 Human Resource

2.4.1 Organisation Structure

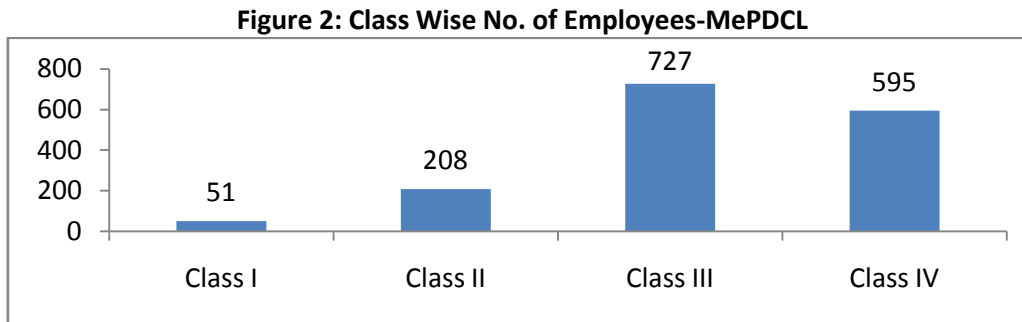
The company is organized into 2 Zonal offices and 6 circles. Each of the circles has separate revenue and operation & maintenance divisions that handle respective tasks. The broad organisation chart is shown below:

Figure 1: Organisation Chart-MePDCL



2.4.2 Existing Human Resource

MePDCL has a ~2700 strong workforce (as of November 2014). MePDCL boasts of a strong technical knowhow in form of experienced engineers and operational staff. The technical prowess of MePDCL has helped in development of in-house expertise in design and construction distribution network. The class wise break up of permanent Employees is shown in the table below:



2.4.3 Capacity Building

2.4.3.1 In order to meet the increasing demand for electricity, there is a requirement for addition of generating capacity, expansion of associated transmission and distribution networks and upgrading of technology. The challenge to provide power to all requires a corresponding increase, not only in the quantity, but also in the quality of human resources. Hence, the purpose of establishing the Human Resources Development Centre (HRDC) is to ensure that skilled manpower in adequate numbers is made available across various activities of MeECL. The HRDC therefore identify the skill gaps, frame occupational standards, facilitate development of practical as well as high quality training contents and ensure adequate availability of faculty for capacity building. Thus training and upgrading the skills of the manpower is the primary objectives of HRDC.

At the national level, a statutory body, namely, the Central Electricity Authority (CEA) was constituted under the Electricity Act to promote measures for advancing the skill of persons engaged in electricity industry. CEA has already setup the standards for mandatory training required for various skill for the generation, transmission, distribution, etc. The CEA has recognized 74 (seventy four) training institutes throughout the country under the Government and Private Sector, for providing such training at various levels.

Basically three types of training infrastructures and facilities are available for personnel in the power industry:

- Training institutes recognized by CEA for imparting statutory induction training: There are 74 (seventy four) training institutes recognized by the CEA through the country. These institutes cater to the training needs of personnel working in thermal power stations, hydro generating stations, transmission and distribution utilities. For example, the National Power Training Institute (NPTI) has established a Centre for Advanced Management & Power Studies (CAMPS) at its Faridabad campus. In addition to a number of short-term courses on Technology-Management interface, NPTI also conducts a two-year full time MBA Program in Power Management. NPTI also conducts professional courses, integrating power-training experience with academics, like PDC & PGDC in Power Plant Engineering and B.E./B.Tech. in Power Engineering etc. The other institution, the Central Board of Irrigation & Power (CBIP) also conducts power industry interfaced placement oriented long term training programmes in generation, transmission and distribution, besides high end short term programmes in advance technologies in all disciplines of power sector.
- Lineman Training Institutes: Most utilities are having at least one lineman-training center. These institutes are set up by the respective organizations for imparting training to their own employees.
- Other training facility include training program with academic institutions outside power sector.

2.4.3.2 Statutory training requirement: The Central Electricity Authority notifies the mandatory training (measures relating to safety and electricity supply) Regulations 2010, specifically the regulations 6 & 7 of the said CEA Regulations 2010. For implementing the above regulations effectively and on rational basis, the CEA has framed guidelines and norms to prescribe the procedure to be followed by CEA/MoP for recognition and grading of the training institutes for power sector in the country. Presently, following types of training are provided to the workforce in power segment for electricity generation, transmission and distribution personnel:

- Operation & Maintenance Training to all existing employees engaged in O&M of generating projects and transmission & distribution system ranging from 4 Weeks to 30 Weeks. This includes the classroom training, Simulator training for Thermal & Hydro and On-Job training.
- Induction level training for new recruits for 1 month (Technical & Non-Technical).

- Refresher/Advanced training of 5 Days in a year to all existing personnel of varying degrees in various specializations in line with National Training Policy for Power Sector.
- Management training of 5 Days in a year to the senior Executives/Managers in India/abroad in line with National Training Policy for Power Sector.
- Distance Learning Certificate Programs on Power Distribution Management for JEs/ AEs.
- Certificate of Competency in Power Distribution (CCPD).
- Training under Distribution Reforms, Upgrades and Management (DRUM). C&D Employees Training (Non-executives in secretarial staff, accounts wing, technical staff in nonexecutives and Class-IV are categorized as C&D employees).
- Franchisee Training.
- Training under R-APDRP etc.
- Linemen training at linemen training centres.

2.4.3.3 Capacity Building in Meghalaya Energy Corporation Limited (MeECL)

Human Resources Development Centre (HRDC), Umiam, MeECL is entrusted with the training for the officers and staffs of the 3 (three) subsidiary corporations of MeECL, namely, Meghalaya Power Generation Corporation Limited (MePGCL), Meghalaya Power Transmission Corporation Limited (MePTCL) and Meghalaya Power Distribution Corporation Limited (MePDCL). Various initiatives taken for capacity building are highlighted as below:

- Capacity building under Accelerated Power Development Reforms Programme (APDRP) - Capacity Building for MePDCL is being funded by the Ministry of Power (MoP) through Central Institute of Rural Electrification (CIRE), Hyderabad, under Accelerated Power Development Reforms Programme (APDRP). Under this scheme, training for Group C&D employees of MePDCL is being taken up by in-house resources persons as well as by outside agencies. This scheme is expected to continue for 3 (three) more years.
- Capacity building under World Bank Project - The World Bank has proposed funding for capacity building for MePTCL and MePDCL for the next three years. Proposal under this scheme is being prepared by the nodal officers of the two corporations, namely, Chief Engineer (Transmission) & Chief Engineer (Distribution).

- Capacity building in various Training Institutes - Officers from the 3 (three) subsidiary corporations are being sent regularly to free training programme organised by various training institutes like National Power Training Institute (NPTI), Indian Institute of Technology (IIT), Roorkee, National Thermal Power Corporation Limited (NTPC) and many more. For such training, the respective corporations bear the expenditure of travelling and boarding only.
- Capacity building through own resources - The capacity building measures mentioned above are required to be supplemented by training programmes specifically required for the 3 (three) corporations. These include training for field engineers in technical areas, management and human relationships, among others. For such training programmes, funding is being allocated in the budget of the respective corporations.

2.4.3.4 Way forward

In accordance with the CEA Guidelines & Apprentices Act as stated above, the HRDC, MeECL has been imparting On-the-job training, Induction training, C&D Trainings, R-APDRP Trainings, trainings on behavioral attitudes, etc as required. The HRDC is striving to develop the entire human resources of MeECL by meeting the growing and evolving demands of the technological advancement. Accordingly, in addition to the existing work, the following tasks are proposed for the next three years.

- Create skill for the current and future requirements, both in terms of numbers as well as types of skills and investigating the underlying reasons for skill gaps.
- Identify changing technologies and collate technology specific skills which may be required in future. Besides technical skills, identification of soft skill requirement in terms of content, the depth of coverage required and practical training requirement etc.
- Build capacity for training delivery - Coordinate with all various agencies in the area of skill development specially need based.

2.5 Demand & Supply Position

2.5.1 Demand Position

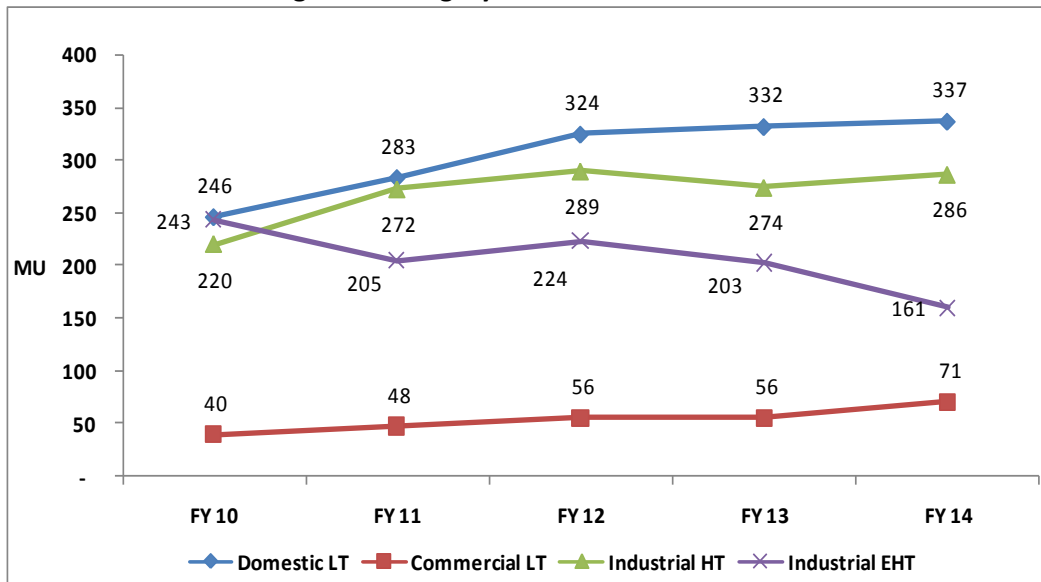
2.5.1.1 The energy requirement in Meghalaya has grown at a CAGR of 5% in the period from FY 2009-10 to FY 2013-14. The table below provides an overview of the demand growth in the state of Meghalaya from FY 2009-10 to FY 2013-14:

Table 2: Demand growth within the state

	State Demand (MU)	YoY Growth
FY 2010	898	-
FY 2011	969	8%
FY 2012	1075	11%
FY 2013	1042	-3%
FY 2014	1052	1%

2.5.1.2 It can be seen from the above table that there have been substantial and unexpected fluctuations in the overall demand of the state. Negative trend has also been observed in FY 2010 and FY 2013. The reason for the fluctuations in demand can be found in detailed analysis of category-wise demand growth for major consumer categories from FY 2010 to FY 2014, as highlighted below:

Figure 3: Category-wise Demand Trend



2.5.1.3 The above graph shows that demand of Industrial EHT consumers has declined substantially from 243 MU in FY 10 to 161 MU in FY 14 with a CAGR of -10%. The Industrial HT demand growth looks stagnated from FY 11 to FY 14. On the other hand, the Domestic LT and Commercial LT demands have grown consistently with a CAGR of 8% and 16% respectively from FY 10 to FY 14. As Industrial HT and EHT consumers contribute to nearly 40% of the consumption in the state, the reduced/

stagnated demand from these consumers has lead to an overall stagnated demand in the state of Meghalaya.

2.5.2 Supply Position

2.5.2.1 The power available to MePDCL has increased substantially due to commissioning of OTPC Pallatana and Myntdu Leshka Hydro Electric Project in recent years. The Power procured in last few years is highlighted in table below:

Table 3: Power Procurement from FY 10 to FY 14 (MU)

Source	FY 10	FY 11	FY 12	FY 13	FY 14
NTPC	139.5	257.2	275.5	289.9	312.6
NEEPCO Hydro	293.1	345.2	332.8	317.4	243.0
NEEPCO Thermal	270.4	279.6	246.7	168.5	19.9
NHPC	45.3	71.8	58.6	10.1	67.4
OTPC	-	-	-	-	66.7
Sub Total	748.2	953.8	913.6	785.9	709.6
MEPGCL	534.9	507.8	518.6	704.7	861.8
Total	1,283.14	1,461.61	1,432.17	1,490.66	1,571.37

2.5.2.2 Though the total power procurement has increased in last few years, the power procured from Central Generating Stations shows a decline as the power was regulated by NEEPCO in FY 2013 and FY 2014. It is also noticeable that in FY 2014, MePDCL has fulfilled 55% of its power requirement from MePGCL stations.

2.5.2.3 The table above also highlights the dependence of MePDCL on Hydro Power. Nearly 70% of power procured by MePDCL was from Hydro stations, which makes the power availability very much dependent on the uncontrollable factors such as rainfall.

2.5.2.4 As the power availability has increased more in last few years than the overall demand of the state, surplus power has been sold outside the state or utilized to return power procured in leaner months through swapping. The details of outside the state sale are given below:

Table 4: Sale outside the state in MU

Particulars	FY 10	FY 11	FY 12	FY 13	FY 14
ASEB	13.16	15.22	19.10	19.08	20.22
UI/ Bilateral	40.65	40.38	37.32	88.24	184.23
Swapping	26.63	80.75	50.35	56.63	125.48

2.6 Energy Sale Projection for the Control Period

2.6.1 The Regulation 81 of the MYT Regulations, 2014, provides the provisions for estimation of Energy Sales. The relevant provisions are mentioned below:

“81 Estimation of Sales

81.1 The accurate projection of category-wise sales is very essential for the assessment of energy input requirement so as to determine the quantum of generation and quantum of energy to be purchased for the correct assessment of revenue requirement for generation and power purchase in the control period.

81.2 The licensee may adopt a suitable methodology like CAGR to arrive at the category wise sales for the current year and estimates for ensuing years based on the past trends.

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2.6.2 Based on the provisions as mentioned above, MePDCL has analyzed the trends of the category-wise consumer data for the past years and estimated the category wise energy sale. MePDCL has done separate estimation for Energy Sale within the state and outside the state.

2.6.3 Category wise Energy Sale

2.6.3.1 For the purpose of assessment of Demand-Supply scenario for the control period i.e. from FY 2015-16 to FY 2017-18, past trend of energy consumption by different categories of consumers has been analyzed.

2.6.3.2 Over the last five (5) years, the overall sale of power by MePDCL (earlier MeECL/MeSEB) to consumers in Meghalaya (including sale to ASEB @33kV) has increased from 912 MU in FY 2010 to 1073 MU in FY 2014 at a CAGR of 4%.

2.6.3.3 In terms of categories, sales to Kutir Jyoti has grown maximum with a CAGR of 41%, sales to Commercial (HT & LT), General Purpose (LT) & Assam has grown at a CAGR of more than 10%. Sales to Industrial (EHT), Agriculture, and Public Lighting and Crematorium categories have declined over the past 5 years. The following table outlines the sales trends in last five (5) years:

Table 5: Category Wise Energy Sale- FY 10 to FY 14(MU)

Category	FY 10	FY 11	FY 12	FY 13	FY 14	CAGR
LT CATEGORY						
Domestic (DLT)	246	283	324	332	337	8%
Commercial (CLT)	40	48	56	56	71	16%
Industrial (ILT)	6	7	7	6	6	1%
Agriculture (AP)	1	0	0	0	0	-29%
Public Lighting (PL)	1	1	1	1	1	-3%
Water Supply (WSLT)	6	7	9	8	8	8%
General Purpose	12	14	15	14	20	14%
Kutir Jyoti	5	7	10	13	19	41%
Crematorium	0	1	0	0	0	-1%
HT & EHT CATEGORY						
Domestic (DHT)	19	19	20	20	22	4%
Water Supply (WS HT)	25	27	29	28	29	4%
Bulk Supply	63	64	70	68	73	4%
Commercial (CHT)	12	16	20	19	19	11%
Industrial (IHT)	220	272	289	274	286	7%
Industrial (IEHT)	243	205	224	203	161	-10%
Assam (33kV)	13	15	19	19	20	11%
Energy Sale	912	984	1,094	1,061	1,073	4%

2.6.4 Energy Sale Projection for the control period

After analysis the past trend the Energy sale for control period is projected as under:

Figure 4: Energy Sale Projection Assumptions and Steps

Step 1: Estimation of Energy Sale for FY 15
<ul style="list-style-type: none"> Energy Sale for FY 15= (Q1-FY 2015 Energy Sale) X (Multiplying Factor) Multiplying Factor is the factor to capture seasonal variation in energy sale. Multiplying Factor= (Total Energy sale for FY 13)/ (Energy sale for 1st quarter of FY 13) <p><i>* FY 13 sales is considered because the load shedding done during FY 13 was insignificant</i></p>
Step 2: Growth rate determination for different categories
<ul style="list-style-type: none"> 5 year CAGR upto FY 15 (estimated sale as per step-1) determined for various categories 10% Growth Rate considered for categories having CAGR more than 10% 0% Growth Rate considered for categories having –ve CAGR For all other categories Growth Rate considered same as 5 year CAGR
Step 3: Within the State Energy Sale Projection for the Control Period
<ul style="list-style-type: none"> FY 16 Sales Projection: (FY 15 Estimated Sale) X (1+Growth rate arrived in step 2) FY 17 Sales Projection: (FY 16 Projected Sales) X (1+Growth rate arrived in step 2) FY 18 Sales Projection: (FY 17 Projected Sales) X (1+Growth rate arrived in step 2)
Step 4: Outside the State Energy Sale Projection for the Control Period
<ul style="list-style-type: none"> Swapping: As per MePDCL's obligation to meet return swap obligation Any Surplus power to be sold at short term market such as Power Exchange, Bilateral etc.

2.6.5 Projected Energy Sale for the Control Period

Based on the above methodology Energy Sale for the Control Period of FY 2015-16 to FY 2017-18 is projected. The same is shown in the table below:

Table 6: Energy Sale Projection

SI No.	Particulars	FY 2014-15 Estimate (MU)	5yr CAGR (%)	Growth rate considered (%)	FY 2015-16 (P) (MU)	FY 2016-17 (P) (MU)	FY 2017-18 (P) (MU)
LT CATEGORY							
1	Domestic (DLT) including MeECL's Employees	356.56	6%	6%	377.79	400.28	424.12
2	Commercial (CLT)	59.21	6%	6%	62.53	66.03	69.73
3	Industrial (ILT)	5.54	-4%	0%	5.54	5.54	5.54
4	Agriculture (AP)	0.11	-26%	0%	0.11	0.11	0.11
5	Public Lighting (PL)	1.46	2%	2%	1.49	1.52	1.56
6	Water Supply (WSLT)	9.95	10%	10%	10.94	12.04	13.24
7	General Purpose	26.44	18%	10%	29.09	32.00	35.20
8	Kutir Jyoti	21.52	34%	10%	23.67	26.04	28.64
9	Crematorium	0.19	-29%	0%	0.19	0.19	0.19
HT CATEGORY							
11	Domestic (DHT)	21.71	4%	4%	22.57	23.46	24.39
12	Water Supply (WS HT)	29.51	2%	2%	30.17	30.84	31.53
13	Bulk Supply	53.63	-4%	0%	53.63	53.63	53.63
14	Commercial (CHT)	17.92	3%	3%	18.53	19.16	19.82
14	Industrial (IHT)	226.46	-5%	0%	226.46	226.46	226.46
EHT CATEGORY							
15	Industrial	149.14	-8%	0%	149.14	149.14	149.14
Others							
16	Assam (33kV)	17.60	4%	4%	18.25	18.93	19.63
17	Short Term Sale	-			390.56	629.29	733.98
18	Swapping	-			80.96		
Total Sale		996.95			1,501.62	1,694.66	1,836.89

2.6.6 Category-wise Number of Consumers and Connected Load

As on 31.03.2014, total number of consumers of MePDCL is 3,50,306. The number of consumers under Domestic category (DLT) constitutes 76 % of the total consumers with 47% of the connected load. Though the number of Industrial consumers (IHT & IEHT) is very low (only 151), these constitute about 25% of the total connected load and 42% of the total sales in FY 14. The number of consumers and connected load is projected based on past trend. The category-wise number of consumers and connected load is as indicated in table below for the control period of FY 2015-16 to FY 2017-18, the same is also attached in Format D1.

Table 7: Category-wise Number of Consumers and Connected Load

SI No.	Particulars	FY 2015-16		FY 2016-17		FY 2017-18	
		No of Consumer	Connected Load (MVA)	No of Consumer	Connected Load (MVA)	No of Consumer	Connected Load (MVA)
	LT CATEGORY						
1	Domestic (DLT)	278,742	379.65	290,906	407.83	303,601	438.10
2	Commercial (CLT)	21,952	70.50	22,071	75.74	22,191	81.37
3	Industrial (ILT)	887	11.86	887	11.86	887	11.86
4	Agriculture (AP)	23	0.28	23	0.28	23	0.28
5	Public Lighting (PL)	40	0.41	40	0.41	40	0.42
6	Water Supply (WSLT)	393	7.12	411	7.45	430	7.81
7	General Purpose	2,132	13.45	2,123	14.02	2,115	14.61
8	Kutir Jyoti	63,609	20.34	69,969	22.38	76,966	24.61
9	Crematorium	1	0.15	1	0.15	1	0.15
	HT CATEGORY						
11	Domestic (DHT)	72	17.99	75	19.60	79	21.36
12	Water Supply (WS HT)	27	8.31	27	8.46	28	8.60
13	Bulk Supply	148	41.33	148	41.33	148	41.33
14	Commercial (CHT)	197	24.93	217	27.43	238	30.17
14	Industrial (IHT)	143	97.71	145	97.71	146	97.71
	EHT CATEGORY						
15	Industrial	8	69.44	8	69.44	8	69.44
	Total	368,374	763	387,052	804	406,900	848

2.7 Energy Availability and Power Procurement Plan

2.7.1 Energy Availability from MePGCL stations-Assumptions

The MePGCL station wise assumptions taken for projecting energy availability for the control period are as follows:

Station	Assumption
Sonapani	PLF of 45% and Auxiliary consumption of 1%
Umiam Stage-I	Average of Actual Generation during the last 5 Financial Years i.e. FY 10 to FY 14
Umiam Stage-II	50% of Generation by Umiam Stage-I
Umiam Stage-III	Based on recent generation trend
Umiam Stage-IV	Average of Actual Generation during the last 5 Financial Years i.e. FY 10 to FY 14
Umtru HEP	1 Unit will remain under shutdown till FY 17. Therefore for FY 16 & FY 17 considered 75% of Average of Actual Generation for the entire station during the last 5 Financial Years i.e. FY 10 to FY 14.
Myntdu Leshka	Considered to generate same as FY 14
New Umtru	Expected COD by the end of FY 16. PLF of 45% and Auxiliary consumption of 1%
Lakroh	Expected COD by the end of FY 16. PLF of 45% and Auxiliary consumption of 1%

2.7.2 Energy Availability from NEEPCO stations-Assumptions

The NEEPCO station wise assumptions taken for projecting energy availability for the control period are as follows:

Station	Assumption
Kopili Stage-I	Average of Actual Generation during the last 4 Financial Years i.e. FY 10 to FY 13
Kopili Stage-II	
Khandong HEP	
RANGANADI HEP	
DOYANG HEP	
AGBPP	Average of PLF achieved during FY 13 & FY 14
AGTPP	Auxiliary consumption of 2.5% as per CERC Tariff Regulations, 2014
AGTPP Combined Cycle	Expected COD by the end of FY 15 PLF of 85% and Auxiliary consumption of 2.5%

2.7.3 Energy Availability from NTPC stations-Assumptions

The NTPC station wise assumptions taken for projecting energy availability for the control period are as follows:

Station	Assumption
Farakka	PLF of 72%* and Auxiliary consumption of 8.5%# Power will be procured only for 6 months in a year
Kahalgaon I	PLF of 71%* and Auxiliary consumption of 8.5%# Power will be procured only for 6 months in a year
Kahalgaon II	PLF of 71%* and Auxiliary consumption of 8.5%# Power will be procured only for 6 months in a year
Talcher	PLF of 82%* and Auxiliary consumption of 10.5%# Power will be procured only for 6 months in a year
Bongaigaon	Average PLF of existing NTPC stations and Auxiliary consumption of 8.5%# COD assumptions: 1 st Unit- May'16, 2 nd Unit-May'17, 3 rd Unit-Oct'17

* As per CEA thermal generation report as on March'14

As per CERC Tariff Regulations, 2014

2.7.4 Energy Availability from NHPC Loktak-Assumptions

The Power Purchase Agreement with NHPC is getting over on 01.04.16. Therefore, the energy availability from NHPC Loktak is considered only for FY 2015-16 and is projected by taking the average energy availability from NHPC Loktak in last 5 years.

2.7.5 Energy Availability from OTPC-Assumptions

As per the OCC meetings of NERPC it is understood that the 2nd unit of OTPC will be commissioned by December'14. Therefore, it is assumed that both the units will be generating power for the control period. However, due to the prevalent gas problem

it is assumed that plant will be able to run on 70% capacity overall. As per the NERPC REA as on October'14, the PLF is assumed to be 73% and as per CERC Tariff Regulations, 2014, the Auxiliary consumption is assumed to be 2.5%.

2.7.6 Energy Availability from Short Term Sources-Assumptions

At present no power is proposed to be procured from short term market. However in case of lean hydro generation if required MePDCL may purchase power from short term market.

2.7.7 Total Energy Availability from various sources

Based on the above assumptions the projected Energy Availability from various sources is shown in the table below and attached as Format D3:

Table 8: Energy Availability from various stations

Company	Power Plant	Capacity	% Share	MW Share	Energy Availability (MU)		
					FY 2015-16	FY 2016-17	FY 2017-18
NTPC	Farakka	1,600	0.53%	8.44	24.36	24.36	24.36
	Kahalgaon I	840	0.53%	4.43	12.61	12.61	12.61
	Kahalgaon II	1,500	1.47%	22.06	62.78	62.78	62.78
	Talcher	1,000	0.53%	5.28	16.96	16.96	16.96
	Bongaigaon	750	7%	54.00	-	86.94	229.22
OTPC	OTPC Pallatana	726.6		79.00	346.68	346.68	346.68
NEEPCO	Kopili Stage-I	200	17.4%	34.79	82.23	82.23	82.23
	Kopili Stage-II	25	13.7%	3.42	8.48	8.48	8.48
	Khandong HEP	50	16.9%	8.45	17.53	17.53	17.53
	Ranganadi HEP	405	11.5%	46.60	131.25	131.25	131.25
	Doyang HEP	75	11.5%	8.59	23.65	23.65	23.65
	AGBPP	291	11.8%	34.38	187.65	187.65	187.65
	AGTPP	84	11.8%	9.92	69.71	69.71	69.71
	Free Power				58.99	58.99	58.99
	AGTPP C-Cycle	51.2	10%	5.00	36.30	36.30	36.30
NHPC	NHPC Loktak	105	12.4%	13.01	50.63	-	-
MePGCL	Sonapani	1.5	100%	1.50	5.85	5.85	5.85
	Lakroh	1.5		1.50	-	5.85	5.85
	Umiyam Stage-I HEP	36.0		36.00	100.46	100.46	100.46
	Umiyam Stage-II HEP	20.0		20.00	50.23	50.23	50.23
	Umiyam Stage-III HEP	60.0		60.00	65.85	65.85	65.85
	Umiyam Stage-IV HEP	60.0		60.00	191.17	191.17	191.17
	Umtru HEP	11.2		11.20	22.89	22.89	30.52
	Myntdu Leshka HEP	126.0		126.00	410.22	410.22	410.22
	New Umtru HEP	40.0		40.00	-	156.10	156.10
Total	8,169		702.58	1,976.47	2,174.75	2,324.65	

2.8 Renewable Purchase Obligation

2.8.1 In accordance with the Meghalaya State Electricity Regulatory Commission (Renewal Energy Purchase Obligation and Compliance) Regulation 2010 as notified on 21st December 2010, MePDCL is obligated to purchase electricity from renewable energy sources. Clause 4 of the said Regulation specifies the quantum of Renewable Purchase Obligation (RPO) by the Licensees, and the same is reproduced below:-

“4. Quantum of Renewable Purchase Obligation (RPO)

(1) Every obligated entity shall purchase electricity (in KWh) from renewable energy sources at a quantum which is not less than the minimum calculated on the basis of percentage of the total consumption of the consumers in an area of the entity.

(2) At the commencement of these regulations the minimum percentage shall be as herein below specified, that is:-

Year	Minimum quantum of purchase (in %) from renewable energy sources			
	Total	Wind	Solar	Other
2010-11	0.50%	0.10%	0.20%	0.20%
2011-12	0.75%	0.15%	0.30%	0.30%
2012-13	1.00%	0.20%	0.40%	0.40%

(3) At the end of 2012-13 The Commission may, by Order passed, refix the percentage for subsequent years:

Provided that if no such Order is passed the percentage specified for 2012-13 shall continue until it is revised.

.....”

2.8.2 It is submitted that Hon'ble commission is yet to determine the RPO for period of FY 2015-16 to FY 2017-18, hence as per Regulation 4(3) of Meghalaya State Electricity Regulatory Commission (Renewal Energy Purchase Obligation and Compliance) Regulation 2010, the RPO % will be same as FY 2012-13.

2.8.3 The detailed calculation of category wise Renewable Purchase Obligation (RPO) (solar, small hydro etc) is shown below:

Table 9: Renewable Purchase Obligation

Year	Energy within area of MePDCL (MU)	Renewable Purchase Obligation (MU)				Purchase from Small Hydro (MU)
		Wind	Solar	Others	Total	
FY 2015-16	1,011.85	2.02	4.05	4.05	10.12	78.97
FY 2016-17	1,046.44	2.09	4.19	4.19	10.46	84.82
FY 2017-18	1,083.29	2.17	4.33	4.33	10.83	92.45

As can be seen from above table for each year of control period MePDCL is procuring small hydro power much more than the required obligation. Therefore, it is proposed that the Hon'ble Commission revise the RPO of MePDCL accordingly.

It is pertinent to submit that MePDCL has also taken steps to procure Solar Power. MePDCL has installed 285 Solar Street lights in Shillong and will be installing 78 more Solar Street lights in Tura. These Solar street lights across the State are expected to consume around 890 MWh of energy in total. Furthermore, MePDCL has also signed Power Purchase Agreement with OTPC for procuring solar power from its Solar Rooftop Photovoltaic Grid Interactive Power plant at Palatana. FY 2016-17 onwards MePDCL is expected to receive 1.58 MUs of Solar power at Rs. 7/unit from this project.

2.9 Loss Trajectory

2.9.1 Distribution Loss Trajectory

It is submitted that the present distribution network is overloaded and has deteriorated overtime, which is the main cause for increase in technical losses. Furthermore, the situation has aggravated after the implementation of RGGVY project. Due to inhospitable terrain and bad roads, many electrified villages do not even have motor-able roads. Therefore, maintenance of power supply and billing/collection of revenue at those remote villages is a daunting task. Keeping the present situation in mind and various measures undertaken to reduce Distribution, it is estimated that the distribution loss during the Control Period will be reduced by 0.5% per year. Projection of distribution losses for the Control Period is shown in following table:

Table 10: Distribution Loss Trajectory

Particular	FY 2015-16	FY 2016-17	FY 2017-18
Distribution Loss (%)	26.41%	25.88%	25.35%

2.9.2 Aggregate Technical & Commercial Loss (AT & C Loss) Trajectory

The AT & C loss is a combination of Technical and Commercial Loss. Over and above the improvement in Distribution loss it is estimated that with various measures such as pre-paid metering, CSC, online bill payment etc. there will be improvement in collection efficiency as well. The AT & C loss trajectory for the control period is shown in the table below:

Table 11: AT & C Loss Trajectory

Particular	FY 2015-16	FY 2016-17	FY 2017-18
Distribution Loss (%)	26.41%	25.88%	25.35%
Collection Efficiency (%)	98.00%	98.20%	98.40%
AT & C Loss-MePDCL (%)	27.88%	27.22%	26.55%
AT & C Loss-Meghalaya (%)	32.35%	31.86%	31.23%

2.9.3 Remedial Measures for improvement in Technical & Commercial Loss

MePDCL has taken various steps for curtailing the technical as well as commercial loss.

- **Energy Audit and assessment of base level loss:**
 - MePDCL is undertaking energy audit in phased manner throughout the state. Such Energy Audit has been conducted for 33/11 KV Keating Road s/s and its outgoing feeders, 132 & 33 KV Substations and their outgoing feeders at Byrnihat area etc.
 - MePDCL is implementing R-APDRP Part-A for 9 project towns. Under this scheme, MePDCL will complete boundary metering, DT metering, Feeder metering and also take up regular energy accounting and audit, which will enable MePDCL to take initiatives for AT&C loss reduction. Commercial run has been completed in Nongpoh, Mairang, Cherra, Jowai, Nongstoin and is being taken up in Shillong in a phased manner. Go Live has been declared for Nongpoh. Commercial run of the remaining towns i.e., Tura, Williamnagar and Resubelpara is scheduled within the next few months subject to availability of MPLS connectivity.
 - Tender Notice for appointing an Independent Agency to carry out Energy Audit in Byrnihat Industrial Area was issued on 24th July 2014. The broad scope of the work can be summarised as follows:
 - i. Survey, mapping and simulation of electrical distribution Network of Byrnihat.
 - ii. Assessment of existing energy metering status for all the EHT and HT consumers in Byrnihat and recommendation for improvement
 - iii. Mapping of all HT, EHT consumers with the Electricity Distribution Network identified as above
 - iv. Segregation of Distribution loss into Technical and Commercial losses. Identify various components/ factors contributing technical losses and Commercial losses
 - v. Carry out monthly consumption analysis, energy audit.

The bid evaluation process is undergoing.

- **Intensification of Vigilance**
 - Vigilance activities in major industrial areas have been constantly taken up. Recently, in addition to the elaborate sealing and other arrangements, MePDCL has introduced additional anti-tampering measures by insulating the looping conductor connected to the metering equipment, using high voltage insulation sleeves, tapes and seals for industrial consumers at Byrnihat.

- **Metering of Consumers:**
 - MePDCL has recently replaced 8,400 single phase defective meters and 11,600 more defective meters will be replaced across the state.

 - 34 HT Industrial Consumers have been covered under Automated Meter Reading (AMR) in Western Circle, Umiam. The performance of these meters is under observation.

 - *Pre-paid metering:* After completion of tendering process in May, 2014, supply order for 4000 Nos Single Phase and 50 Nos Three Phase pre-paid was issued. All the pre-paid meters were received in October 2014. Construction of room at B.C House, Shillong, for vending station was completed on 24th October 2014 and installation & commissioning of vending station is expected to be completed by the first week of December 2014. Installation of pre-paid meters in MeECL quarters and Govt. quarters in Shillong will be started in December 2014.

- **Improvement of collection efficiency:**
 - *Online payment mechanism:* MePDCL has tied up with Bill desk for implementation of online payment mechanism for the 9 project towns under R-APDRP. Out of which for 6 towns online billing has been implemented. MePDCL is also planning to implement online payment mechanism in other project areas based on experience in these towns.

 - *Tie-up with Common Service Centre for collection of revenue:* MePDCL has executed the tripartite agreement with Common Service Centre SPV (CSC-SPV) and Bharatiya Samruddhi Investments and Consulting Services Ltd (BASIX) for the collection of revenue from consumers in rural areas by the Village Level Entrepreneurs (VLE) in these centers. At present, 6 Subdivisions and 8 revenue sections have been covered and 28 VLE's are operational for collection of revenue. It is expected that other Common

Service Centers will start collection subsequently. This initiative has proved to be beneficial for better and faster collection of revenue.

- **Improvement in Network conditions:**
 - *R-APDRP Part-B:* MePDCL has already got the DPRs for R-APDRP Part-B approved by PFC. Under R-APDRP Part-B it is expected that MePDCL will be able to improve and augment the network in the 9 project towns. This will help in reduction of technical losses for these project towns.
 - Other than R-APDRP Part-B, for reduction of technical loss, strengthening and up-gradation of the existing sub-transmission and distribution lines & sub-stations is proposed to be undertaken under different schemes, viz. Special Plan Assistance (SPA), North Eastern Council (NEC), NERPSIP etc.

2.10 Energy Balance

2.10.1 MePDCL submits that it shall procure power from MePGCL, Inter-state Generating Stations located in NER & ER region etc. As per the agreement between MePDCL and Inter-state generators, MePDCL need to bear the losses from the Generators Ex-Bus, hence while calculating the energy available at Transmission periphery from Generating Stations located at NER, only NER POC loss is taken while for Generating Stations located in ER region, ER and NER POC losses are considered. The detailed Energy Balance as shown Table below.

Table 12: Energy Balance

Particular	FY 2015-16	FY 2016-17	FY 2017-18
Power Purchase from NER Source (MU)	1,013.1	1,049.4	1,191.7
North Eastern Region Loss (%)	1.95%	1.95%	1.95%
Net NER Power available at MePTCL Periphery (MU)	993.3	1,029.0	1,168.5
Power Purchase from ER Source (MU)	116.7	116.7	116.7
Eastern Region Loss (%)	1.29%	1.29%	1.29%
Total Applicable loss for ER Sources (%)	3.24%	3.24%	3.24%
Net ER Power available at MePTCL Periphery (MU)	112.94	112.94	112.94
Power Purchase from MePGCL (MU)	846.66	1,008.61	1,016.24
Total Power Available at MePTCL Periphery (MU)	1,952.94	2,150.50	2,297.63
Surplus (MU)	390.56	629.29	733.98
Swapping Obligation (MU)	80.96		
Energy Requirement at MePTCL Periphery (MU)	1,481.42	1,521.21	1,563.65
Transmission Loss (%)	5.51%	5.51%	5.51%
Net Power available @MePDCL periphery	1,399.79	1,437.39	1,477.49
Distribution Loss (%)	26.41%	25.88%	25.35%
Within the state Energy Sale (including ASEB) (MU)	1,030.10	1,065.37	1,102.91
T & D Loss (%)	30.47%	29.97%	29.47%

2.11 Capital Investment Plan

2.11.1 The purpose of the Capital Investment Plan (CIP) is to provide MePDCL with a roadmap for planning and implementation of proposed capital investment for the control period of FY 2015-16 to FY2017-18. The CIP has been prepared keeping in view various long term needs and areas for capital expenditure as highlighted below:

- Strengthening of Aging Network
- Evacuation of Power from upcoming MePTCL Grid Substations
- Supply of Power to new load centres
- Increasing Distribution Network capacity for increased load
- Increased Quality and Reliability of Power
- Appropriate Loading of Distribution Network
- Increased Control and Protection for Grid Stability
- Loss Reduction
- Outage Reduction

CIP prepared by MePDCL includes the projects which were under implementation or commenced/ expected to commence from FY2012-13 to end of first control period i.e. FY 2017-18. As CIP includes schemes envisaged to be implemented in future, several assumptions have been taken to project the various attributes such as scope of work, funding pattern, funding sources, project cost, commencement/ completion dates and construction period etc. The assumptions have been taken considering historical inputs and anticipated project attributes. These attributes are expected to become clearer with preparation of Detailed Project Reports, Approval by concerned authority/ financial institution and commencement of execution. Similarly certain project attributes such as construction period, actual project cost, completion dates etc. for ongoing projects also expected to change in future due to uncontrollable externalities. Therefore the project particulars are expected to change in future and shall be updated during subsequent filings of Mid-Term Review.

2.11.2 To finance the capital expenditure, MePDCL primarily depends on financial assistance provided by Government of Meghalaya and Government of India through various schemes as well as external aided funding by international institutions such as World Bank. The details of Scheme wise funding is attached Format-15.

2.11.3 The Capital Expenditure from FY2012-13 to FY2017-18 is attached as Investment Plan Format and summarized in the table below:

Table 13: Summary of Capital Expenditure

Schemes	Project Cost (Rs. Cr)	Funding Pattern (Rs. Cr)			
		Loan	Grant	Equity	Consumer Contribution
RAPDRP Part-A	33	-	33	-	-
RAPDRP Part-B	160	16	144	-	-
NER Power System Improvement Project	178	9	169	-	-
Ongoing Schemes for Network Strengthening	69	7	-	62	-
Proposed Schemes for Network Strengthening	86	8	-	78	-
Deposit Works	23	-	12	-	11
Power System Development Fund	15	-	15	-	-
Integrated Power Development Scheme	350	35	315	-	-
Deendayal Upadhyaya Gram Jyoti Yojna	400	40	360	-	-
Indo Bangla Border Flood Lighting	99	-	-	-	99
Green City Project (Solar Street Lighting)	25	-	-	25	-
RGVY	458	44	415	-	-
Total	1896	159	1463	165	109

2.11.4 North East Region Power System Improvement Project (NERPSIP)

2.11.4.1 The Government of India (GoI) has formulated a plan for undertaking investments in Transmission & Distribution in North East Region (NER) to facilitate increased availability of power, improvement in service delivery and reduction of system losses. Presently, six NER States (Assam, Manipur, Mizoram, Meghalaya, Tripura and Nagaland) are connected to transmission network at 132 kV and below. The 33 KV network is the backbone of power distribution system in these states. In order to reduce the gap between the requirement and availability of the intra-state transmission and distribution system, it was found necessary to provide 132 kV / 220 kV connectivity to all these NER states for proper voltage management and loss reduction. Similarly, the distribution system which mainly relies on 33 kV network would be strengthened substantially.

2.11.4.2 Implementation of this project will create a reliable state power grid and improve its connectivity to the upcoming load centres, and thus extend the benefits of the grid connected power to all the consumers. The project includes capital investments for strengthening/ augmentation of the intra-state transmission and distribution network as well as capacity building across selected six North East states of Assam, Manipur, Mizoram, Meghalaya, Tripura and Nagaland. The North East Region Power System Improvement Project (NERPSIP) is a comprehensive scheme to be funded by World Bank and Government of India. The scheme comprises of development of Transmission, Sub-Transmission/ Distribution system

upto 33 kV.

2.11.4.3 Within Meghalaya, the objective of scheme is to revitalize the power sector to achieve sustainable development in long term. The NERPSIP is expected to be undertaken through funding in three tranches. The works covered under Tranche I are broadly highlighted in the following table:

Table 14: NERPSIP Asset addition

S. No	Work	Rating	Unit	Capacity Addition
1	New Substations	33/11 kV	MVA	115
2	Augmentation of Substations	33/11 kV	MVA	30
3	Construction of lines	33 kV	CKm	198
4	Reconductoring of lines	33 kV	CKm	65

The addition of new substations and construction of new lines is required for relieving the existing overloaded lines and substations catering to Shillong, areas of Khasi Hills and Garo Hills districts. The added capacity is also required for catering to growing demand throughout the State.

2.11.4.4 Under the Tranche I funding, the proposed project expenditure is almost Rs. 178 Cr, 50% of which is to be funded by Government of India in form of Grant to MePDCL. Balance 50% counterpart funding in form of loan shall be received by Government of India from World Bank. 10% of this World Bank loan shall be passed on to the Government of Meghalaya as Loan which will subsequently be passed on to MePDCL as state government loan. Remaining 90% of World Bank Loan shall be passed on the MePDCL as Grant from Government of India. Therefore, total 95% funds shall be received by MePDCL as Grant and balance 5% as Loan form State Government. The funding pattern for MePDCL is summarised as below:

Table 15: NERPSIP Funding Pattern

	State Govt. Loan	Gol Grant
Funding (%)	5%	95%
Amount (Rs. Crore)	8.91	169.29

2.11.4.5 The project approval has been received from Expenditure Finance Committee (EFC), Cabinet Committee on Economic Affairs (CCEA) and is expected from World Bank. Tranche I funding shall be utilized for first phase of construction which is expected to take 48 months. Construction is expected to begin in FY16 and shall be completed by FY 19.

2.11.5 Power System Development Fund (PSDF)

2.11.5.1 The Government of India has approved a scheme for operationalisation of Power System Development Fund (PSDF) in year 2014. PSDF is a fund constituted under Central Electricity Regulatory Commission (Power System Development Fund) Regulations, 2014 to be utilized for the following purpose:

- Transmission systems of strategic importance based on operational feedback by Load Despatch Centers for relieving congestion in inter-State transmission system (ISTS) and intra-State Transmission Systems which are incidental to the ISTS.
- Installation of shunt capacitors, series compensators and other reactive energy generates for improvement voltage profile in the Grid.
- Installation of special protection schemes, pilot and demonstrative projects, standard protection schemes and for setting right the discrepancies identified in the protection schemes and for setting right the discrepancies identified in the protection audits on regional basis.
- Renovation and Modernization (R&M) of transmission and distribution system for relieving congestion
- Any other scheme/ project in furtherance of the above objectives such as technical studies and capacity building

2.11.5.2 Based on decision taken in the in NERPC forum, a third party audit on protection was carried out in 135 substations and generating stations of NER at 132KV voltage level and above. The teams comprising of members from PGCIL, NEEPCO, NHPC, NERPC and NERLDC was formed. The protection audit of the substations and generating stations in NER was completed in February 2013. The findings of the audit team were discussed in the Commercial Sub-Committee and Protection Sub-Committee meetings of NERPC. Subsequently, the Ministry of Power directed for preparation of the Detail Project Report based on the recommendations of the protection audit team for rectifying the defects. The same was sent to CEA with the request for funding through PSDF or any other sources without any financial burden to the constituents.

2.11.5.3 In order to further its objectives of having enhanced grid stability, MePDCL plans to utilize the funding available through PSDF for implementation of certain schemes. The cost of implementation is estimated to be Rs. 15 Cr which is expected to be made available in form of 100% Grant which shall be released from PSDF. The Detailed Project Reports is under preparation after which approval shall be sought from National Load Despatch Centre (NLDC) and Central Electricity Authority (CEA).

2.11.6 Rajiv Gandhi Grameen Vidyutikaran Yojana

2.11.6.1 The Government of India, Ministry of Power has launched a comprehensive programme by the name Rajiv Gandhi Grameen Vidyutikaran Yojana- Scheme for Rural Electrification Infrastructure and Household Electrification. It aims to electrify all villages and habitations with a population of above 100, provide access to electricity to all rural households and give electricity connection to Below Poverty Line (BPL) family. The Goal of RGGVY scheme is to bridge the urban-Rural gap and provide reliable and quality power supply to rural areas through:

- Rural Electrification Distribution Backbone (REDB) with provision for 33 KV and 11 KV line with 33/11 KV sub stations of adequate capacity in different blocks where these do not exist.
- Creation of Village Electrification Infrastructure (VEI) for electrification of un-electrified villages and habitations and provision of distribution transformers of appropriate capacity and LT lines for electrified villages and habitations.
- Rural Household Electrification of Below Poverty Line (BPL) Households.

2.11.6.2 Currently RGGVY project has been implemented in Jaintia Hills and Ri Bhoi Districts under the 10th Plan Scheme and being implemented in the East Khasi Hills, South Garo, West Garo, East Garo and West Khasi hills districts under the 11th Plan scheme.

2.11.6.3 Under the RGGVY scheme, the Central Government through the nodal agency Rural Electrification Corporation (REC) has provided a Grant of 90% and Loan of 10% for Electrification of Villages. For the Electrification of BPL households, 100% capital subsidy has been provided by REC. The total project cost is therefore being funded with ~9% Loan and ~91% Grant. The estimated cost of project under both 10th and 11th Plan is Rs. 458 Crore.

2.11.6.4 The scope of work and achievement of MePDCL in implementation of RGGVY scheme is highlighted as below:

Table 16: Scope and Achievements-RGGVY

PLAN PERIOD	SCOPE			ACHIEVEMENT			% completion		
	UEV	EV	BPL	UEV	EV	BPL	UEV	EV	BPL
X	133	774	21721	132	680	21149	99%	88%	97%
XI	1028	2465	89013	1020	2427	85396	99%	98%	96%
Total	1161	3239	110734	1152	3107	106545	99%	96%	96%

*UEV: Un-electrified Village, EV: Electrified Village, BPL: Below Poverty Line

2.11.7 Green City Project- Solar Street Lighting

The Green City Project for Shillong & Tura originally envisages replacement of street lights by the Solar LED Street Lighting System in two phases. For the 1st phase 640 locations in Shillong and 160 locations in Tura were identified for replacement of existing street lighting system. The project involves installation of a 56 W Solar (LED based) Street lighting system at a height of 7 meters with a pole spacing of 20 meters to provide an equivalent light intensity as those of HPSV/HPMV 250W Street light. The expected benefit of the project (both phases) shall be saving of approximately 0.45 MU on consumption of power by Street Lights.

2.11.7.1 The total estimate for both the phases the Solar lighting project is Rs. 25 Cr and will be funded by 90% Equity and 10% Loan to be received from State Government. For the first phase of the project, sanctioned expenditure is Rs. 5 Cr.

2.11.7.2 The first phase work for installation of 56 W LED Based Solar Street Lighting Systems of 300 Nos. and 78 Nos at Shillong (East Khasi Hills District) and Tura (West Garo Hills District) was completed at an executed cost of Rs. 5 Cr

2.11.8 Indo Bangladesh Border Flood Lighting

2.11.8.1 The scheme for Indo Bangladesh Border Lighting project has been envisaged by the Government of Meghalaya keeping in view the security requirement for 440 km long border shared between Meghalaya and Bangladesh. The Project is being financed by the Ministry of Home Affairs, Government of India as Deposit Work Scheme.

2.11.8.2 As the project extends across several districts and corresponding divisions of MePDCL, the work has been split among the various divisions for better execution. The RE (Rural Electrification) Construction Division for Shillong, Jowai and Tura will undertake the work for the portion in East/ West Khasi Hills, Jaintia Hills and West/ South Garo Hills respectively. Currently the bid evaluation for turnkey execution of project is in progress.

2.11.8.3 In the first phase of project, the scheme shall be implemented in East & West Khasi Hills. The break-up of works is highlighted as below:

Table 17: Indo Bangla Border Flood Lighting

S No.	District(s)	Estimated Cost (Rs. Cr)
1	Shillong Sector	29.55
2	Tura Sector	22.00
3	Williamnagar Sector	21.92
4	Jowai Sector	22.74
	Total	98.65

2.11.8.4 Currently the Scheme in Shillong, Tura and Williamnagar Sector has been sanctioned and yet to be sanctioned in Jowai Sector. The Selection of supplier is in progress and works are expected to begin shortly. The details of scheme have been provided in Investment Plan Format and Format-15.

2.11.9 Integrated Power Development Scheme (IPDS)

2.11.9.1 Government of India has recently launched Integrated Power Development Scheme (IPDS) for the Urban/Semi-urban areas with the following components:

- Strengthening of Sub-transmission and Distribution network in urban areas.
- Metering of distribution transformers / feeders / consumers in urban areas.
- IT enablement of distribution sector and distribution network strengthening for completion of the targets laid down under RAPDRP for 12th and 13th Plans by carrying forward the approved layout for R-APDRP to IPDS.

2.11.9.2 Meghalaya Power Distribution Corporation Limited expects to take benefit of the IPDS project and commence implementation of projects under the scheme by last quarter of FY 2015-16. The project outlay is expected to be Rs. 350 Crore. Based on the guidelines available it is expected that 90% of the project cost shall be made available by Government of India as Grant. Balance 10% is expected to be State Government Loan. This is a recently announced scheme and the estimates are tentative as of now. The project details shall become clearer after the preparation of DPR and funding approval by concerned agencies.

2.11.10 Deendayal Upadhyaya Gram Jyoti Yojna (DDUGJY)

2.11.10.1 Govt. of India has recently launched Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) for the rural areas with the following components:

- Separation of agriculture and non-agriculture feeders facilitating judicious rostering of supply to agricultural & non- agricultural consumers in the rural areas.
- Strengthening and augmentation of sub-transmission & distribution (ST&D) infrastructure in rural areas, including metering at distribution transformers, feeders and consumers end.
- Rural electrification, for completion of the targets laid down under RGGVY for 12th and 13th Plans by subsuming RGGVY in DDUGJY and carrying forward the approved outlay for RGGVY to DDUGJY.

2.11.10.2 MePDCL expects to take benefit of the ambitious DDUGJY scheme and commence implementation of projects under the scheme by last quarter of FY

2015-16. Meghalaya Power Distribution Corporation Limited expects to start the ambitious DDUGJY project by last quarter of FY 2015-16. The project outlay is expected to be Rs. 400 Crore. Based on the guidelines available it is expected that 90% of the project cost shall be made available by Government of India as Grant. Balance 10% is expected to be State Government Loan. This is a recently announced scheme and the estimates are tentative as of now. The project details shall become clearer after the preparation of DPR and funding approval by concerned agencies.

2.11.11 R-APDRP Part A

2.11.11.1 R-APDRP Part A scheme is being implemented in MePDCL for establishment of baseline data, IT applications for energy accounting/auditing and IT based consumer service centers. The project includes adoption of IT applications for meter reading, billing and collection; energy accounting and auditing, MIS, redressal of consumer grievances; establishment of IT enabled consumer service centers, etc. For special category states including North-East region, the project covers urban areas (towns and cities) with a population of more than 10000. In Meghalaya, 9 (Nine) towns are eligible for the project execution.

2.11.11.2 The procurement and installation of boundary meters, feeder meters and DT meters for the purpose of Ring fencing has been completed. For establishing bandwidth connectivity, the contracts have been awarded to service providers and procurement of hardware is complete. The installation of hardware is in progress. GIS Network survey is completed in nine towns viz. Tura, Nongpoh, Cherra, Mairang, Nongstoin, Shillong, Williamnagar, Jowai and Resubelpara. Consumer survey is in progress in Resubelpara and Tura and completed in Nongpoh, Mairang, Cherra, Jowai, Nongstoin, Shillong and Williamnagar. The respective reports for GIS mapping and Consumer Indexing are also approved for completed towns. Establishment of Central Data Centre at Guwahati, finalization of Centralized MDAS (Meter Data Acquisition System) Architecture and development of IT platform has also been completed. The detailed status of work is given below:

Table 18: Status of RAPDRP Part A

Activity	Progress Status
Installation of DT Meters	Installation of meters is 100% completed.
Ring Fencing	HT/ Feeder metering 100% complete.
Modem Installation	944 modems in 5 towns.
GIS Satellite Imagery	100% complete.

Activity	Progress Status
GIS Consumer Survey	Consumer survey completed in 7 towns, in- progress in 2 towns. Approval given by MePDCL for 3 towns.
GIS Asset Mapping	Survey completed for all towns and approved by MePDCL for 8 towns.
Consumer Care Centre & Infrastructure	Site Survey, Material delivery complete. LAN and hardware installation in 9 towns complete. Customer Care Configuration is complete
Meter Data Acquisition System	Application development in progress. 246 modems installed in 5 towns. Modem installation for remaining towns in progress.
MBC (Meter, Billing & Collection)	CRM & SAP ISU Components ready. Parallel run at Pilot town of Nongpoh is in progress. Data Collection & migration is in progress.
Commercial Run	Commercial run for 6 towns was achieved

2.11.11.3 Implementation of Part A by the utility will result in various benefits to the utility. The utility will be able to acquire the meter data easily and run the processes of billing, collection and energy audit efficiently. The major expected benefits are highlighted as below:

- Timely and accurate collection of Meter data.
- Billing Cycle time reduction.
- Faster and improved Collection.
- Energy Audit for AT&C loss mitigation.
- Reduction of pilferage.
- Availability of data for MIS preparation.
- Increased management control over operations and processes.
- Faster capture and resolution of consumer complaints.
- Better service quality leading to enhanced Consumer satisfaction.

Eventually, the utility shall be benefitted through more accurate calculation of cross subsidies, AT&C loss reduction and asset management.

2.11.11.4 The approved project cost for 9 towns including capital expenditure and 5 years Operational expenditure is 43.85 Crore. Out of the approved project cost is Rs. 43.85 Crore, PFC will provide the grant of Rs. 33.97 Crore and MePDCL shall bear the share of Rs. 9.88 Cr respectively. The break-up of Capital and Operational expenditure share is as follows:

Table 19: Funding pattern R-APDRP

	Capital Expenditure share	Operational Expenses
PFC	Rs. 32.74 Crore	Rs. 1.23 Crore
MePDCL	Nil	Rs. 9.88 Crore
Total	Rs. 32.74 Crore	Rs. 11.11 Crore

PFC is providing 100% funding for Capital Expenditure of Rs. 32.74 Cr and 1st year Facility Management expenses of Rs. 1.23 Crore. MePDCL shall bear the Facility Management expenses of Rs. 9.88 Crore for next four years of operation. The loans shall be converted into grant on establishment of complete system within stipulated time.

2.11.12 RAPDRP Part B

2.11.12.1 Renovation, Modernisation and strengthening of the Distribution network is planned through implementation of R-APDRP Part- B scheme of the Ministry of Power (MoP). Part B implementation is to be carried out in nine towns of Meghalaya which are eligible for funding as per the guidelines of Ministry of Power.

2.11.12.2 The project involves Renovation, modernization and strengthening of 11 kV level Sub-Stations, Transformers/Transformer Centers, Re-Conductoring of lines at 11 kV level and below, Load Bifurcation, Feeder Separation, Load Balancing, HVDS (11 kV), Aerial Bunched Conductoring in dense areas, replacement of electromagnetic energy meters with tamper proof electronic meters, installation of capacitor banks and mobile service centers, etc.

2.11.12.3 Implementation of R-APDRP Part B scheme offers several benefits viz, setting up of baseline data, reduction of Technical losses, accurate and reliable energy audit, improvement and reliability and quality of power supply etc. Most of all, the scheme is expected to bring about reduction in T&D losses as well as improvement in services to the consumers. The reduction in AT&C losses shall be translated into more availability of energy for sale, improving the cash flows of the utility.

2.11.12.4 The average AT&C losses for FY 2013 were over 32% in the 9 towns where scheme is being implemented, and are expected to be brought down to 13% in next five years. This scheme will benefit over 30% consumers in the state of Meghalaya and will help decrease the total loss levels of the utility.

2.11.12.5 After preparation of the Detailed Project Report, the total project expenditure is estimated to be Rs. 159.73 Crore, phased in the following manner:

Table 20: Funding under R-APDRP-B

Sl. No	Town	Project Expenditure (Rs. Cr)
1	Shillong	72.80
2	Nongpoh	2.49
3	Jowai	13.40
4	Cherra	4.97
5	Nongstoin	6.86
6	Mairang	6.83
7	Tura	28.95
8	Williamnagar	11.23
9	Resubelpara	12.20
	Total	159.73

2.11.12.6 As Meghalaya falls in the special category states of North-East region, Government of India shall provide a grant of up to 90% for implementation of this scheme, given that requisite targets for loss reduction are met in the stipulated time. Therefore, Rs. 143.76 Crores out of the estimated expenditure shall be funded by the Government of India and remaining Rs. 15.97 Crore shall be borne by the MePDCL.

2.11.13 Shifting of utilities for widening of national Highways under NHAI

2.11.13.1 Under the Special Accelerated Road Development Project (SARDP) Scheme in 2010, Government of India through the Ministry of Road and Surface Transport has sanctioned proposal for shifting of utilities and widening of national Highways.

2.11.13.2 For the implementation of the above, the NHAI through the PWD, Govt of Meghalaya have requested the MePDCL to shift the existing utilities viz HT & LT lines, DT Substations etc to a more convenient alignment to facilitate the work for excavation and widening of the aforesaid National Highways. The NHAI will pay to the MePDCL the cost of the estimates for the works for shifting of the utilities of MePDCL. The funding falls under the category of deposit work. The details and progress of work are listed in the table below:

Sl. No.	Works	Status of Progress
1	Shifting of utilities along NH-40 from Jorabat to Lad Umroi	95 % completed
2	Shifting of utilities along the Umsning By Pass	Completed
3	Shifting of utilities along the Shillong By-Pass Lad Umroi to Lum dienngan	Completed
4	Shifting of Utilities along NH-44E and Nongstoin -Tura State Road: from Rangshken to Swangre	80% Completed Some part of the alignment are yet to be ascertained
5	Shifting of utilities along NH-44: from Sadew to Traw	It will be taken up after receiving the payment
6	Shifting of Utilities along Nongstoin -Tura State Road: from Swangre to Rongakgre	Initial work started on 2012 but currently on hold
7	Shifting of utilities along NH-44: from Jawai to Ratacherra	Estimating under process
8	Shifting of utilities at Lad Umroi for the proposed Fly -Over	Shifting of BSI substation has been completed. Shifting of Over Headlines is in progress
9	Shifting of Utilities from Ranikor (Lad Borsora) to Nonghyllam due to Road widening by MPWD	Revised estimation in progress
10	Shifting of Utilities from Ranikor (Khadphra) to Nonghyllam and Nongjri village for widening of road	Revised estimation in progress
11	Shifting of Utilities for welding of Nongstoin - Domiasiat Road	Revised estimation in progress
12	For Ranikor -Nonghyllam- Maheshkhola- Baghmara Road	Revised estimation in progress

2.11.14 Deposit Works

2.11.14.1 The work for deposit works consists of providing power supply for new applicants under Domestic Low Tension (DLT), Commercial Low Tension (CLT), general purpose, Industrial purpose etc. which is a priority for MePDCL. The methodology for providing service connection for new premises is that, the applicant must submit the relevant documents viz test report, Land documents, NOC from the competent authority along with the application.

2.11.14.2 Depending on the load of the premises as substantiated by the test report submitted by the applicant, estimates for providing the service connection like the metering system to be installed, the load security etc. are prepared and forwarded to the applicant for payment. The head of accounts, wherein the party is to make payment for providing power supply to the premises is booked under Deposit Works.

2.11.15 Other Schemes for Network Strengthening

2.11.15.1 The existing lines and sub stations are very old and with the increasing demand, these old infrastructures have become overloaded and redundant. The switchgear and protection equipment's installed in the sub stations are also old and obsolete and due to non-availability of spares, most often these equipment's malfunction and breakdown which often leads to unwarranted interruptions of power supply.

2.11.15.2 In such a situation and in order to achieve the twin objective of providing quality power supply to the consumers and to maintain the loss levels within the prescribed limits, it is very much necessary to upgrade the existing infrastructure like the Sub stations viz: through renovation and modernization to replace the obsolete equipments, installation of protective switchgears with remote control through Control and relay panels installed in the Control Room where no protection and control room exists, capacity addition/augmentation of sub stations, installation of metering equipments to enable accurate loss studies.

2.11.15.3 The main objectives of the schemes are listed below:

- Reduction of power interruptions and minimize outages.
- Maintaining proper voltages.
- To meet future load demand and prevent transformer failure.
- Reduction of AT&C losses.
- Better customer service and rapport

2.11.15.4 It is anticipated that with the commissioning of the above projects, desired improvement in quality, quantity and reliability of power supply will be achieved as well as the desired reduction in Technical and Commercial losses and the subsequent reduction in investments towards power purchase.

2.11.15.5 The works are being executed / proposed to be executed by the respective field divisions and the operation & maintenance of the lines and Substation will be carried out by the concerned Sub-Division under the MePDCL. Funding details is shown in the table below. Other details of projects such as completion periods, scope of works etc. are provided in the Investment Plan Format and Format-15

Scheme	Project Outlay	Funding (Rs. Cr)		
		Equity	Loan	Grant
Other Schemes for Network Strengthening	155.74	140.17	15.58	-

ANNUAL REVENUE REQUIREMENT

FY 2015-16 TO FY 2017-18

3 ARR for the 1st Control Period of FY 2015-16 to FY 2017-18

3.1 Approach

3.1.1 In accordance with the provisions of the MYT Regulations, 2014, MePDCL hereby submits ARR for FY 2015-16, FY 2016-17 and FY 2017-18 based on restructured segregated provisional financials of FY 2012-13 and transfer scheme.

3.2 Segregation of Annual Accounts

3.2.1 Pursuant to Meghalaya Power Sector Reforms Transfer Scheme 2012, the Assets and Liabilities including rights, obligations and contingencies is transferred to and vested in MePDCL from MeECL on and from 1.4.2012.

3.2.2 The provisional segregated annual accounts post restructuring and unbundling for FY 2012-13 are being audited. The accounts for the holding company and its subsidiaries have been segregated by appropriating the Assets, Properties, Liabilities, Expenditures, and Obligations etc. as attributable to the respective companies. The Assets and liabilities of individual functions i.e. Generation, Transmission and Distribution were maintained by erstwhile MeSEB and later MeECL, and appropriation of common items to respective companies is being done by taking relevant basis/ methodology.

3.2.3 Annual Expenditure of MePDCL

The Regulation 77 of the MYT Regulations, 2014, provides the cost components of MePDCL. The relevant regulation is reproduced below for ready reference:

“77 Aggregate revenue requirement for each financial year of the control period

77.1 The total annual expenses and return on equity on distribution license on each financial year of the control period shall be worked out on the basis of expenses and return on equity allow in terms of these regulations.

77.2 The retail supply tariff of a distribution licensee for each financial year of the control period shall provide a recover ARR of a distribution licensee of the control period as reduced by the amount of non tariff income, income from wheeling in respect of open access customers, income from other business and receive on account of cross subsidy surcharge and additional surcharge for the relevant financial year as approved by the Commission and subsidy from the State Government if any and shall comprise of the following:

- *Cost of power purchase*
- *Transmission charges*
- *System operation charges*
- *Interest on loan*
- *Depreciation as may be allowed*
- *O & M expenses*
- *Interest on working capital*
- *Bad and doubtful debt*
- *Return on equity as may be allowed*
- *Income Tax*

77.3 *Net revenue requirement from sale of electricity shall be aggregate revenue requirement as above minus:*

- *Non tariff income*
- *Income from wheeling charges*
- *Income from open access customers*
- *Income from other business*
- *Income from cross subsidy surcharge from open access customers*
- *Income from additional surcharge on charges of wheeling from open access customer*
- *Any other revenue or subsidy or grant from the State Government other than subsidy under section 65 of the Act.”*

3.3 Power Purchase Cost Projection

3.3.1 The Regulation 85 of the MYT Regulations, 2014, provides provisions for Power Purchase Cost, the relevant clauses are mentioned below:

“85 Power Purchase Cost

85.1 The Licensee shall procure power from approved sources. Additional energy required after taking into account the availability of energy from such approved sources, shall be reasonably estimated well in advance and procurement arrangements made for such long and medium term purchases, by following standard contractual procedures. All such purchases shall only be made with the prior approval of the Commission.

85.2 For purchase of electricity from sources outside the state, the transmission loss level agreed to in the Power Purchase Agreement (PPA) or worked out from energy accounts of RLDC ./ SLDC shall be taken into account for purchase of power from such sources.

85.3 *The cost of power purchased from the central generating companies shall be worked out based on the tariff determination by the Central Electricity Regulatory Commission (CERC).*

85.4 *Where power is purchased by the licensee from State - owned existing generating stations, the cost of power purchase shall be worked out based on the price determined by the State Commission and in case of power purchased from Renewable energy sources the quantum and the cost shall be as per the policy approved by the State Commission / Central Commission depending upon their jurisdiction.*

85.5 *The cost of power purchase from IPPs shall be considered based on existing Power Purchase Agreement if any, till the agreement period is over.*

85.6 *In case of short-term power purchase necessitated based on unprecedented development, the licensee may resort to short term procurement.”*

3.3.2 Projection of Power Purchase Cost- MePGCL Stations

3.3.2.1 Projection of cost for existing stations

The cost of procurement of power from MePGCL is projected considering nominal yearly increase of 5% on the approved cost of FY 2014-15. However it is submitted that the cost of power procurement from MePGCL will be same as approved AFC of MePGCL for the control period of FY 2015-16 to FY 2017-18.

3.3.2.2 Projection of cost for the upcoming stations

Among the upcoming stations for Lakroh HEP provisional tariff was approved by the Hon'ble Commission vide order dated 30.03.13. MePDCL has considered the provisional tariff to be applicable till approval of final tariff by the Hon'ble Commission. For New Umtru HEP, MePDCL has projected the cost based on the information on tariff received from project officials.

3.3.3 Projection of Power Purchase Cost- NEEPCO Stations

3.3.3.1 Projection of cost for the existing stations

The cost of procurement of power from existing stations of NEEPCO is projected based on available information of expected AFC. For the thermal stations of NEEPCO i.e. AGBPP and AGTPP the energy charge is considered based available information of expected energy charge.

3.3.3.2 Projection of cost for the upcoming stations

For the upcoming AGTPP Combined Cycle of NEEPCO the cost is projected based on the information received from NEEPCO.

3.3.4 Projection of Power Purchase Cost- NTPC Stations

3.3.4.1 Projection of cost for the existing stations

The fixed cost of procurement of power from existing stations of NTPC is projected based on the information of expected AFC as provided in the MYT petitions filed by NTPC before CERC. The energy charge rate (ECR) is projected by taking a yearly increase of 5% over the recent energy charge rate.

3.3.4.2 Projection of cost for the upcoming stations

For the upcoming Bongaigaon Thermal Power station of NTPC the fixed cost is projected by taking the maximum of projected fixed cost (per MW) of existing stations of NTPC. The energy charge is projected by taking the average of yearly projected energy charge of existing station.

3.3.5 Projection of Power Purchase Cost- NHPC Stations

The Power Purchase Cost of NHPC Loktak station is projected based on the information of expected AFC as provided in the MYT petition filed by NHPC before CERC.

3.3.6 Projection of Power Purchase Cost- OTPC Stations

For the OTPC Palatana station at present power is being received only from 1 unit of the plant. Based on the present market information from FY 2015-16 onwards it is expected that MePDCL will be receiving power from 2 units of OTPC. However, OTPC is yet to file the final MYT and Tariff petition before CERC. Therefore, the fixed cost of OTPC station (2units) is expected to be twice the present fixed cost of OTPC station (1unit). Further from FY 2015-16 onwards the fixed cost is estimated to increase by 5%. The energy charge rate of OTPC station is projected by taking a yearly increase of 5% over the existing energy charge rate.

3.3.7 Projected Power Purchase Cost for the Control Period

Based on the above assumptions the projected year wise power purchase cost for the Control Period of FY 2015-16 to FY 2017-18 is shown in the tables below and attached as Format D4:

Table 21: Power Purchase Cost- FY 2015-16

Company	Station	Energy (MU)	Energy Charge Rate (Rs./Unit)	Variable Cost (Rs. Cr)	Fixed Cost (Rs. Cr)	Total Cost (Rs. Cr)
NTPC	Farakka	24.36	2.95	7.20	2.57	9.77
	Kahalgaon I	12.61	2.89	3.65	1.53	5.17
	Kahalgaon II	62.78	2.73	17.13	8.94	26.08
	Talcher	16.96	1.53	2.60	1.61	4.21
	Bongaigaon	86.94	-	-	-	-
OTPC	OTPC Pallatana	346.68	1.23	42.59	76.00	118.59
NEEPCO	Kopili Stage-I	82.23	0.51	4.18	9.14	13.32
	Kopili Stage-II	8.48	0.93	0.79	0.95	1.74
	Khandong HEP	17.53	0.74	1.30	3.04	4.34
	Ranganadi HEP	131.25	0.97	12.71	14.66	27.37
	Doyang HEP	23.65	2.50	5.91	5.67	11.58
	AGBPP	187.65	2.53	47.47	37.62	85.09
	AGTPP	69.71	2.52	17.54	10.28	27.82
	Free Power	58.99	-	-	-	-
	AGTPP C-Cycle	36.30	2.12	7.70	13.47	21.17
NHPC	NHPC Loktak	50.63	1.72	8.71	8.37	17.08
MePGCL	Sonapani	5.85	0.71	0.42	0.39	0.81
	Lakroh	-	-	-	-	-
	Umiam Stage-I HEP	100.46	0.61	6.12	6.98	13.10
	Umiam Stage-II HEP	50.23	0.86	4.32	3.89	8.21
	Umiam Stage-III HEP	65.85	0.85	5.60	11.64	17.24
	Umiam Stage-IV HEP	191.17	0.57	10.84	11.64	22.48
	Umtru HEP	22.89	0.57	1.30	2.17	3.47
	Myntdu Leshka HEP	410.22	1.49	60.95	71.16	132.11
	New Umtru HEP	-	-	-	-	-
Total		2,063.42		269.03	301.74	570.77

Table 22: Power Purchase Cost- FY 2016-17

Company	Station	Energy (MU)	Energy Charge Rate (Rs./Unit)	Variable Cost (Rs. Cr)	Fixed Cost (Rs. Cr)	Total Cost (Rs. Cr)
NTPC	Farakka	24.36	3.10	7.56	2.74	10.29
	Kahalgaon I	12.61	3.04	3.83	1.59	5.42
	Kahalgaon II	62.78	2.87	17.99	9.02	27.01
	Talcher	16.96	1.61	2.73	1.71	4.44
	Bongaigaon	229.22	2.65	23.06	12.50	35.56
OTPC	OTPC Pallatana	346.68	1.29	44.72	79.80	124.52
NEEPCO	Kopili Stage-I	82.23	0.53	4.36	9.54	13.90
	Kopili Stage-II	8.48	0.91	0.77	0.95	1.72
	Khandong HEP	17.53	0.76	1.33	3.12	4.45
	Ranganadi HEP	131.25	0.99	12.97	14.96	27.93
	Doyang HEP	23.65	2.56	6.05	5.83	11.89
	AGBPP	187.65	2.53	47.47	40.44	87.91
	AGTPP	69.71	2.52	17.54	11.26	28.80
	Free Power	58.99	-	-	-	-
	AGTPP C-Cycle	36.30	2.12	7.70	14.75	22.45
NHPC	NHPC Loktak	-	-	-	-	-
MePGCL	Sonapani	5.85	0.75	0.44	0.41	0.85
	Lakroh	5.85	0.39	0.23	0.40	0.63
	Umiam Stage-I HEP	100.46	0.64	6.42	7.33	13.76
	Umiam Stage-II HEP	50.23	0.90	4.54	4.08	8.62
	Umiam Stage-III HEP	65.85	0.89	5.88	12.23	18.11
	Umiam Stage-IV HEP	191.17	0.60	11.38	12.23	23.61
	Umtru HEP	22.89	0.60	1.36	2.28	3.64
	Myntdu Leshka HEP	410.22	1.56	64.00	74.72	138.71
	New Umtru HEP	156.10	2.00	31.22	31.22	62.44
	Total	2,317.02		323.55	353.10	676.65

Table 23: Power Purchase Cost- FY 2017-18

Company	Station	Energy (MU)	Energy Charge Rate (Rs./Unit)	Variable Cost (Rs. Cr)	Fixed Cost (Rs. Cr)	Total Cost (Rs. Cr)
NTPC	Farakka	24.36	3.26	7.93	3.00	10.93
	Kahalgaon I	12.61	3.19	4.02	1.66	5.68
	Kahalgaon II	62.78	3.01	18.89	9.11	28.00
	Talcher	16.96	1.69	2.87	1.89	4.75
	Bongaigaon	229.22	2.79	63.85	30.68	94.53
OTPC	OTPC Pallatana	346.68	1.35	46.96	83.79	130.75
NEEPCO	Kopili Stage-I	82.23	0.55	4.55	9.97	14.52
	Kopili Stage-II	8.48	0.69	0.59	0.73	1.31
	Khandong HEP	17.53	0.78	1.36	3.20	4.56
	RANGANADI HEP	131.25	1.01	13.24	15.28	28.52
	DOYANG HEP	23.65	2.62	6.21	6.01	12.22
	AGBPP	187.65	2.53	47.47	42.27	89.75
	AGTPP	69.71	2.52	17.54	11.94	29.48
	Free Power	58.99	-	-	-	-
	AGTPP C-Cycle	36.30	2.12	7.70	15.64	23.34
NHPC	NHPC Loktak	-	-	-	-	-
MePGCL	Sonapani	5.85	0.79	0.46	0.43	0.89
	Lakroh	5.85	0.39	0.23	0.40	0.63
	Uyam Stage-I HEP	100.46	0.67	6.74	7.70	14.44
	Uyam Stage-II HEP	50.23	0.95	4.77	4.28	9.05
	Uyam Stage-III HEP	65.85	0.94	6.17	12.84	19.01
	Uyam Stage-IV HEP	191.17	0.63	11.95	12.84	24.79
	Umtru HEP	30.52	0.63	1.91	2.40	4.30
	Myntdu-Leishka HEP	410.22	1.64	67.19	78.45	145.65
	New Umtru HEP	156.10	2.10	32.78	32.78	65.56
Total		2,324.65	36.82	375.37	387.28	762.65

3.3.8 The company wise summarized power purchase cost is shown in the table below:

Table 24: Summary- Power Purchase Cost (Rs. Cr)

Company	FY 2015-16	FY 2016-17	FY 2017-18
NTPC	45.23	82.72	143.89
OTPC	118.59	124.52	130.75
NEEPCO	192.44	199.04	203.69
NHPC	17.08	-	-
MePGCL	197.42	270.36	284.33
Total	570.77	676.65	762.65

It is submitted before the Hon'ble Commission to kindly approve the power purchase cost as submitted above.

3.3.9 It is pertinent to submit here that as submitted above, the power purchase cost for

the existing and upcoming stations of NEEPCO, NTPC, NHPC, OTPC etc. has been projected based on certain assumptions. As some of these Generating companies are yet to file petition for approval of Annual Fixed Cost (AFC) for the control period, there is possibility of deviation in power purchase cost as compared to proposed power purchase cost. Moreover for the Central Generating Companies such as NEEPCO, NTPC, NHPC, OTPC etc there is a possibility of pay revision. Therefore, the Hon'ble Commission is requested to kindly approve the Fuel and Power Purchase Price Adjustment Formula (FPPPA) as proposed by MePDCL and allow MePDCL to pass through the deviation in power purchase cost through FPPPA mechanism.

3.4 Transmission Cost Projection

3.4.1 Inter-State Transmission Cost

MePDCL submits that it needs to pay Inter-State Transmission charge for the power procured from outside the state. The Inter-State Transmission Charge includes Powergrid charge, Scheduling and Operating charge of RLDC and other Open Access charges. The inter-state transmission charge is projected considering increase in share, addition of new inter-state transmission line etc. Further a yearly increase of 5% is considered for per MW/month rate of PGCIL & POSOCO.

3.4.2 MePTCL Transmission Cost

It is submitted that from FY 2013-14 onwards all the 3 corporations i.e. MePGCL, MePTCL and MePDCL has started separate functioning. The Hon'ble Commission had determined separate ARR and tariff for MePTCL for the FY 2014-15. MePDCL being the only Distribution Licensee within the state of Meghalaya is the sole long term beneficiary of MePTCL. For projection of transmission cost pertaining to MePTCL, a nominal yearly increase of 5.72% is considered. However it is submitted that the MePTCL transmission cost will be same as approved AFC of MePTCL for the control period of FY 2015-16 to FY 2017-18.

3.4.3 A summary of projected Transmission cost pertaining to Inter-State and MePTCL is mentioned in the table below.

Table 25: Transmission Cost (Rs. Cr)

Particular	FY 2014-15 (Approved)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
Inter-State Transmission Cost	61.82	72.41	78.98	90.26
MePTCL Transmission Cost	72.79	76.95	81.36	86.01
Total	134.61	149.37	160.33	176.27

MePDCL submits before the Hon'ble Commission to kindly approve the Inter-State Transmission Cost and MePTCL Transmission Cost as submitted in the above table.

3.5 Gross Fixed Asset

The opening balance of GFA of MePDCL as on 1.4.2012 is Rs. **229.61** Cr. The closing GFA for each year of the control period is worked out considering actual capitalization during FY 2013-14, estimated capitalization during FY 2014-15 and projected capitalization during control period.

Table 26: Gross Fixed Asset Details (Rs. Cr)

Particulars	FY 2012-13 (Provisional)	FY 2013-14 (Provisional)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
Opening Gross Fixed Asset (GFA)	229.61	321.84	350.47	430.73	706.43	933.70
Add: Additions to GFA during the FY	92.23	28.63	80.26	275.69	227.27	233.03
Less: Withdrawn during the year	-	-	-	-	-	-
Closing GFA	321.84	350.47	430.73	706.43	933.70	1,166.72

MePDCL submits before the Hon'ble Commission to kindly approve the GFA as submitted in the table above.

3.6 Computation of Return on Equity

3.6.1 The relevant regulations for determination of debt-equity ratio are extracted for reference as below:

"27 Debt-Equity Ratio

27.1 For a project declared under commercial operation on or after 1.4.2015, if the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as normative loan; Provided that where equity actually deployed is less than 30% of the capital cost, the actual equity shall be considered for determination of tariff.

Provided further that equity invested in foreign currency shall be designated in Indian rupees on the date of each investment.

Provided any grant obtained for execution of the project shall not be considered as a part of capital structure for the purpose of debt-equity ratio.

Explanation:- The premium, if any, raised by the generating company or the transmission licensee or the distribution licensee, as the case may be, while issuing share capital and investment of internal resources created out of its free reserve, for the funding of the project, shall be reckoned as paid up capital for the purpose of computing return on equity, provided such premium amount and internal resources are actually utilized for meeting the capital expenditure.

27.2 In case of the generating station and the transmission system declared under commercial operation prior to 1.4.2015, debt-equity ratio allowed by the Commission for determination of tariff for the period ending 31.3.2015 shall be considered.

27.3 Any expenditure incurred or projected to be incurred on or after 1.4.2015 as may be admitted by the Commission as additional capital expenditure for determination of tariff, and renovation and modernization expenditure for life extension shall be serviced in the manner specified in this regulations.”

3.6.2 The Regulation 31 & 92 of the MYT Regulations, 2014, provides for computation of Return on Equity (RoE). The extract is reproduced below:

“31 Return on Equity

31.1 Return on equity shall be computed on the equity base determined in accordance with regulation 27 and shall not exceed 14%.

Provided that in case of generation & transmission projects commissioned after notification of these regulations, an additional return of 0.5 % shall be allowed if such projects are completed within the time line as specified in CERC Tariff Regulations.

Provided that in case of generation & transmission projects commissioned after the notification of these regulations an additional return of 1.5 % shall be allowed if such projects are completed within the original sanctioned project cost without any time and cost overrun whatsoever.

Provided that equity invested in a foreign currency may be allowed a return up to the prescribed limit in the same currency and the payment

on this account shall be made in Indian Rupees based on the exchange rate prevailing on the due date of billing.

- The premium received while issuing share capital shall be treated as a part of equity provided the same is utilized for meeting capital expenditure.*
- Internal resources created out of free reserves and utilized for meeting capital expenditure shall also be treated as a part of equity.*

....

92 Return on Equity

92.1 The Distribution Licensee shall be allowed a return on equity for Distribution Business, as specified in these Regulations.”

- 3.6.3** For computation of RoE till 1st April, 2015, the Meghalaya State Electricity Regulatory Commission (Terms and Conditions for determination of Tariff) Regulations, 2011 (hereinafter referred as Tariff Regulations, 2011) have been followed. The relevant provision of Tariff Regulations, 2011 is reproduced below:

“101. Return on Equity

(1) Return on equity shall be computed on the equity base determined in accordance with Regulation 100, at a fixed rate of 14 percent, per annum.

Provided that equity invested in a foreign currency may be allowed a return up to the prescribed limit in the same currency and the payment on this account shall be made in Indian Rupees based on the exchange rate prevailing on the due date of billing. The difference in actual exchange rate and the provisional exchange rate considered while determining the ARR shall be taken into consideration at the time of ‘Truing up’.

(2) The equity amount appearing in the audited Balance Sheet or as per Transfer Scheme Notification will be taken into account for the purpose of calculating the return on equity for the first year of operation, subject to such modifications as may be found necessary upon audit of the accounts if such a Balance Sheet was not audited.

.....
....”

- 3.6.4** Based on the above submissions the Return on Equity computation is shown in the

table below:

Table 27: Return on Equity Computation

Particulars	FY 2012-13 (Provisional)	FY 2013-14 (Provisional)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
Opening Equity (Rs. Cr)	194.54	228.57	234.88	266.53	285.63	301.65
Additions during the year (Rs. Cr)	34.03	6.31	31.64	19.11	16.01	-
Closing Equity (Rs. Cr)	228.57	234.88	266.53	285.63	301.65	301.65
Equity Considered for RoE (Rs. Cr)	222.21	228.52	252.60	271.71	287.72	287.72
RoE %	14%	14%	14%	14%	14%	14%
Return on Equity (Rs. Cr)	31.11	31.99	35.36	38.04	40.28	40.28

MePDCL submits before the Hon'ble Commission to kindly approve RoE of Rs. **38.04** Cr, Rs. **40.28** Cr & Rs. **40.28** Cr for FY 2015-16, FY 2016-17 and FY 2017-18 respectively.

3.7 Interest and Finance Charges on Loan Capital

3.7.1 As per the Regulation 32 of the MYT Regulations, 2014, Interest and 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 prevailing lending rate of bank and financial institution. It is submitted that the Interest on Loan for the control period has been computed by considering Interest obligation for existing loans and Interest obligation for upcoming loans. The detailed statement of Interest and Finance charge is enclosed as Format-7. The summarized statement of Interest and Finance charge for the Control Period is shown below:

Table 28: Computation of Interest on Loan (Rs. Cr)

Particulars	FY2015-16	FY2016-17	FY2017-18
Opening Balance	404.02	419.27	399.33
Addition during the year	20.13	50.92	64.33
Repayment during the year	4.88	70.86	71.95
Closing Balance	419.27	399.33	391.71
Average Interest Rate	12%	11%	11%
Interest Payable	50.79	46.09	41.86
Add Finance Charges	-	-	-
Total Interest and Finance Charges	50.79	46.09	41.86

MePDCL submits before the Hon'ble Commission to kindly approve Rs. **50.79** Cr, Rs. **46.09** Cr and Rs. **41.86** Cr as Interest and Finance Charges for FY 2015-16, FY 2016-17 and FY 2017-18 respectively.

3.7.2 It is further submitted that as per Regulation 27.1 of the MYT Regulations, 2014, on equity over and above 30% of GFA should be treated as normative loan. The

Normative Loan has been computed as closing balance of Equity less Equity considered for RoE for every year. The Interest on Normative loan is calculated by considering the interest rate same as average interest for the respective year. The calculation of normative loan is shown in the table below:

Table 29: Interest on Normative Loan

Particulars	FY2015-16	FY2016-17	FY2017-18
Normative Loan	13.93	13.93	13.93
Interest rate (%)	12%	11%	11%
Interest on Normative Loan	1.72	1.57	1.47

MePDCL submits before the Hon'ble Commission to kindly approve Interest on Normative loan as submitted in the above table

- 3.7.3** MePDCL submits before the Hon'ble Commission to kindly approve the total interest after including interest on Normative Loan as submitted in the table below:

Table 30: Total Interest on Loan

Particulars	FY2015-16	FY2016-17	FY2017-18
Interest on Loan including Interest on Normative loan	52.50	47.66	43.33

3.8 Operation and Maintenance Expenses

- 3.8.1** As per Regulation 94 of the MYT Regulations, 2014, the Operation and Maintenance Expenses is a sum of Employee Cost, Repairs and Maintenance (R & M) Expense and Administrative and General (A & G) Expenses. The extract of the regulations is reproduced:

“94 Operation and Maintenance Expenses

94.1 Operation and Maintenance Expenses or O&M Expenses shall mean the total of all expenditure under the following heads:-

- *Employee Cost*
- *Repairs and Maintenance*
- *Administration and General Expenses.*

94.2 The distribution Licensee shall submit to the Commission a statement for O&M expenses indicating under each head of account the actuals of last year, estimates for the current year and projections for the ensuing years. The O & M expenses for the first year of the control period shall be

approved by the Commission taking into account the actual expenses for the past and norms/prudence check.

....
.....”

3.8.2 Employee Cost

3.8.2.1 It is submitted that before corporatization Meghalaya State Electricity Board (MeSEB) used to revise pay scale of employees every 5 years. Further at the time corporatization in the year 2010 the Management and Employees Association have mutually decided that the earlier trend of revision of pay will continue in future i.e. Management will revise pay scale of all the employees every 5 years. The last pay revision was made effective in the year 2010.

Therefore, from January 2015 onwards Revision of Pay will be made effective. The employee cost for the FY 2015-16 is projected by considering the revised pay of Employees. The following assumptions were taken to arrive at the revised pay of Employees:

- **Basic Pay:** As per the pay revision procedure, at the time of revision of pay, the new Basic Pay is arrived by adding the existing Dearness Allowance (DA) to existing Basic Pay and then adding the percentage increase in pay scale. In the last pay revisions there was a 12% increase. As the revised pay structure is yet to be finalized, based on historical trend it is estimated that the increase will be in the range of 12%.

Moreover, on a yearly basis the permanent employees of MePDCL are given a nominal increment. Therefore, for FY 2015-16 the new Basic Pay is arrived by the following methodology:

New Basic Pay= (Existing Basic Pay) X (1+ DA rate + 12%) + Yearly Increment
--

- **Dearness Allowance (DA):** The DA as a percentage of Basic Pay for the control period is shown in **Table 31** below.
- **Housing Rent Allowance (HRA):** The HRA is paid as a percentage rate of Basic Pay and the percentage HRA remains same throughout the effective period of revision of pay. At present HRA is as follows:
 - 15% of Basic for Shillong area
 - 12.5% of Basic for District Head Quarters
 - 10% of Basic for other areas

The above rates are further capped at a fixed amount

It is assumed that for that HRA will be 12% of Basic after pay revision.

- **Other Allowance:** The other allowance includes Medical Allowance, Hill Allowance, Electricity Allowance, Winter Allowance etc. It is assumed that the other allowance will increase by 22% over the existing level.
- **Pension Payments:** With every pay revision the pension benefits are also increased in the same way as regular payments, i.e. The Basic Pension will be increased by taking the similar assumption as taken for Basic Pay.

3.8.2.2 Further, from FY 2016-17 onwards the employee cost is projected by the following assumptions:

- Basic Pay is expected to grow at a nominal rate of 3% every year.
- Dearness Allowance is projected by taking the following assumptions:

Table 31: DA rates for the Control Period

Financial Year	Period	DA as % of Basic	
FY 2015-16	1 st Half of FY 16	0%	2% for FY 16
	2 nd Half of FY 16	4%	
FY 2016-17	1 st Half of FY 17	8%	10% for FY 17
	2 nd Half of FY 17	12%	
FY 2017-18	1 st Half of FY 18	16%	18% for FY 18
	2 nd Half of FY 18	20%	

- The other allowance is estimated to remain at the same level as FY 2015-16
- Terminal benefit provision for future years is not considered at present. The same will be claimed at the time of true-up as per the actual provisioning.
- The yearly recruitment of technical and non-technical staff is also considered for projection of cost. The yearly increase in number of Employees is shown in Format-2.

3.8.2.3 Based on above assumptions, Estimated Employee cost for FY 2014-15 and projected Employee Cost for Control period of FY 2015-16 to FY 2017-18 is shown in the table below:

Table 32: Employee Cost (Rs. Cr)

Sl. No.	Particulars	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
	SALARIES & ALLOWANCES				
1	Basic Pay	41.54	72.26	75.39	78.63
2	Lumpsum/Arrear	0.17	-	-	-
3	Dearness Allowance	21.46	1.45	7.54	14.15
4	House rent Allowance	4.79	8.67	9.05	9.44
5	Other Allowance	3.92	4.84	4.90	4.97
6	Medical re-imburement	0.86	0.86	0.86	0.86
7	Over time payment	1.78	1.78	1.78	1.78
8	Generation incentive	0.14	0.14	0.14	0.14
9	Salaries-Casual	6.80	6.80	6.80	6.80
10	Sub-Total	81.44	96.80	106.45	116.77
	Terminal Benefits				
11	Leave encashment	1.50	1.50	1.50	1.50
12	Staff welfare	0.06	0.06	0.06	0.06
13	CPS	-	-	-	-
14	Workman compensation	-	-	-	-
15	Ex-gratia	0.02	0.02	0.02	0.02
16	Sub-Total	1.58	1.58	1.58	1.58
	Pension Payment				
17	Basic Pension	0.20	0.34	0.34	0.34
18	Dearness Allowance	-	0.01	0.03	0.06
19	Any other expenses	-	-	-	-
20	Sub-Total	0.20	0.35	0.38	0.41
21	Total (10+16+20)	83.22	98.73	108.41	118.75
	<i>Less: Amount capitalized</i>	-	-	-	-
	Net Amount	83.22	98.73	108.41	118.75
	<i>Add: Prior Period expenses</i>	0.06	-	-	-
	Grand Total:	83.28	98.73	108.41	118.75

MePDCL submits before the Hon'ble Commission to kindly approve Employee Cost of Rs. **98.73** Cr, Rs. **108.41** Cr and Rs. **118.75** Cr respectively for FY 2015-16, FY 2016-17 and FY 2017-18 respectively.

3.8.3 Repairs and Maintenance (R & M) Expenses

Meghalaya being a hilly terrain and due to recent expansion in rural areas under RGGVY scheme, state demands comparatively more expenditure for maintaining the distribution network. Under these circumstances there is a genuine need for incurring repair & maintenance expenses to keep the current assets under satisfactory running condition. Further with new addition of assets, there is increased requirement of repair and maintenance expense. However, due to

ongoing restructuring activities and revenue deficit faced by MeECL & its subsidiaries, MePDCL has not been able to take up R&M works in extremely planned manner. Therefore, the R & M Expense for the control period has been projected by considering inflation rate of 9% over the last 3 years (November 2011 to October 2014). The estimated R & M Expense for FY 2014-15 and the projected R & M Expense for the control period of FY 2015-16 to FY 2017-18 is shown in the table below and attached as Format 4.

Table 33: R & M Expenses (Rs. Cr)

Sl. No.	Particulars	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
1	Plant & Machinery	1.35	1.47	1.60	1.75
2	Building	0.44	0.48	0.52	0.57
3	Hydraulic works	-	-	-	-
4	Lines & Cables	4.95	5.40	5.88	6.42
5	Vehicles	0.16	0.17	0.19	0.21
6	Furnitures & Fixtures	0.06	0.07	0.07	0.08
7	Office Equipments	0.12	0.13	0.14	0.16
8	Civil Works	0.16	0.17	0.19	0.21
	Total	7.24	7.89	8.61	9.38
	<i>Add/deduct share of other</i>	-	-	-	-
	Total expenses	7.24	7.89	8.61	9.38
	<i>Less capitalized</i>	-	-	-	-
	Net expenses	7.24	7.89	8.61	9.38
	<i>Add prior period</i>	-	-	-	-
	Total R&M expenses	7.24	7.89	8.61	9.38

MePDCL submits before the Hon'ble Commission to kindly approve R & M Expense of Rs. **7.89** Cr, Rs. **8.61** Cr and Rs. **9.38** Cr respectively for FY 2015-16, FY 2016-17 and FY 2017-18 respectively.

3.8.4 Administration and General (A & G) Expenses

The increase in A & G Expenses mainly depends upon the market inflation. As the A & G Expense is being projected for the control period as a whole, therefore A & G expense for the control period is projected by considering the average inflation rate of 9% over the last 3 year period (November 2011 to October 2014).

Furthermore, at the time of unbundling, MeECL and its subsidiaries i.e. MePGCL, MePTCL & MePDCL have mutually agreed to reimburse the expense of MeECL on the ratio of cost of respective corporations. The apportionment of MeECL expense has been added as part of A & G expense of MePDCL.

The summarized A & G expense for FY 2014-15 and the control period is shown in the table below and details from FY 2012-13 onwards is attached as Format-5

Table 34: A & G Expenses (Rs. Cr)

Sl. No.	Particulars	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
1	Rent, Rates & Taxes	0.04	0.04	0.05	0.05
2	Insurance	0.02	0.02	0.02	0.03
3	Telephone, Postage & Telegrams	0.10	0.11	0.12	0.13
4	Consultancy fees	0.10	0.11	0.12	0.13
5	Technical fees	-	-	-	-
6	Other professional charges	-	-	-	-
7	Conveyance & travel expenses	5.08	5.54	6.04	6.58
8	Electricity & water charges	-	-	-	-
9	Others	0.56	0.61	0.67	0.73
10	Freight	-	-	-	-
11	Other material related expenses	0.20	0.22	0.24	0.26
	Total Expenses	6.10	6.65	7.25	7.91
	<i>Less Capitalized</i>	-	-	-	-
	Net Expenses	6.10	6.65	7.25	7.91
	<i>Add prior period</i>	-	-	-	-
	<i>Apportion of MeECL Expenses</i>	56.21	64.69	72.33	73.87
	Total-MePDCL	62.31	71.34	79.58	81.78

MePDCL submits before the Hon'ble Commission to kindly approve A & G Expense of Rs. **71.34** Cr, Rs. **79.58** Cr and Rs. **81.78** Cr respectively for FY 2015-16, FY 2016-17 and FY 2017-18 respectively including apportionment of MeECL Expense.

3.8.5 Summary of Operation and Maintenance (O & M) Expenses

The summarized Operation and Maintenance Expense is shown in the table below.

Table 35: Operation and Maintenance Expense (Rs Cr)

Particulars	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
Employee Cost	83.28	98.73	108.41	118.75
R & M Cost	7.24	7.89	8.61	9.38
A & G Cost	62.31	71.34	79.58	81.78
Total	152.83	177.96	196.60	209.91

MePDCL submits before the Hon'ble Commission to kindly approve the total O & M Expenses of Rs. **177.96** Cr, Rs. **196.60** Cr, Rs. **209.91** Cr for FY 2015-16, FY 2016-17 and FY 2017-18 respectively.

3.9 Interest on Working Capital

3.9.1 As per Regulation 34.3 (i) of the MYT Regulations, 2014, the components of working capital will be:

“34.3 Distribution Business

(i) The Distribution Licensee shall be allowed interest on the estimated level of working capital for the Distribution Business for the financial year, computed as follows:

- *Operation and maintenance expenses for one month; plus*
- *Maintenance spares at one (1) per cent of the historical cost escalated at 6% from the date of commercial operation; plus*
- *Receivables equivalent to two (2) months of the expected revenue from charges for use of Distribution at the prevailing tariffs; minus*

Interest shall be allowed at a rate equal to the State Bank Advance Rate (SBAR) as on 1st April of the financial year in which the Petition is filed.”

Furthermore, as per Format 11 of the MYT Regulations, 2014, the components of working capital are:

- *One month Fuel Cost*
- *One month Power Purchase Cost*
- *One month O & M Expenses*
- *Two months receivables*

3.9.2 The Working Capital is calculated as shown in the table below:

Table 36: Working Capital Computation (Rs. Cr)

Sl. No.	Particulars	FY 2015-16	FY 2016-17	FY 2017-18
1	Power Purchase cost for 1 month *	47.56	56.39	63.55
2	One month O & M Expense	14.83	16.38	17.49
3	Two months Receivables	167.66	192.93	214.18
	TOTAL	230.05	265.70	295.22

** Includes Transmission Cost*

3.9.3 As per Regulation 34.3 (i) of the MYT Regulations, 2014, the State Bank Advance Rate (SBAR) as on 1st April of the financial year in which the Petition is filed need to be considered as interest rate for computation of Interest on Working Capital. The Interest on Working Capital is computed as shown in the table below:

Table 37: Interest on Working Capital

Sl. No.	Particulars	FY 2015-16	FY 2016-17	FY 2017-18
1	Working Capital (Rs. Cr)	230.05	265.70	295.22
2	Bank Advance Rate (SBAR) as on 1.4.14	14.75%	14.75%	14.75%
	Interest on Working Capital (Rs. Cr)	33.93	39.19	43.55

** SBI Advance Bank rate (earlier SBI PLR) has not been revised since Nov'13.*

Therefore the SBI PLR as on 1.11.13 considered for Interest on Working Capital

MePDCL submits before the Hon'ble Commission to kindly approve Rs. **33.93** Cr, Rs. **39.19** Cr and Rs. **43.55** Cr respectively for FY 2015-16, FY 2016-17 and FY 2017-18.

3.10 Income Tax

As per Regulation 35 of the MYT Regulations, 2014, Income Tax on the licensed business of the Distribution Licensee shall be treated as expense and shall be recoverable from consumers through tariff. However, MePDCL submits that income tax shall be claimed in subsequent filings in mid-term review/ true-up.

3.11 Depreciation for the Control Period

Depreciation is computed as per Regulation 33 of the MYT Regulations, 2014. The depreciation is projected based on the estimated completion of ongoing and upcoming projects during the control period. The computation of depreciation is shown in the table below and attached as Format-6.

Table 38: Depreciation (Rs. Cr)

Sl. No.	Particulars	FY 2015-16	FY 2016-17	FY 2017-18
1	Land	-	-	-
2	Buildings	0.62	0.80	0.91
3	Hydraulic works	0.00	0.00	0.00
4	Other Civil works	1.21	1.84	2.48
5	Plant & Machinery	8.59	16.57	24.31
6	Lines & Cables	15.75	18.81	21.23
7	Vehicles	0.03	0.03	0.03
8	Furniture	0.05	0.05	0.05
9	IT Equipment	1.06	1.17	1.17
10	Office equipment	0.13	0.18	0.18
	TOTAL:	27.44	39.44	50.35

MePDCL submits before the Hon'ble Commission to kindly approve Depreciation of Rs. **27.44** Cr, Rs. **39.44** Cr and Rs. **50.35** Cr for FY 2015-16, FY 2016-17 and FY 2017-18 respectively.

3.12 Bad and Doubtful Debts

The entire sale of MePDCL is on credit basis. Energy Sales of MePDCL are mostly in semi urban and rural areas in a wide geographical spread and there may be occurrences of bad debts. As per Regulation 95 of MYT Regulations, 2014 a provision of Bad and Doubtful equal to 1 percent of receivables in the revenue requirement of the licensee may be kept. Accordingly provisions of Rs. **10.06** Cr, Rs. **11.58** Cr and Rs. **12.85** Cr is kept for FY 2015-16, FY 2016-17 and FY 2017-18 respectively. MePDCL submits before the Hon'ble Commission to kindly allow the same.

Table 39: Bad and Doubtful Debt

Particular	FY2015-16	FY2016-17	FY2017-18
Net Annual Revenue Requirement	1,005.93	1,157.58	1,285.05
Provision of Bad and Doubtful Debt	1%	1%	1%
Bad and Doubtful Debt	10.06	11.58	12.85

3.13 Other Income

3.13.1 As per Regulation 96.2 of the MYT Regulations, 2014 the other Income of a Distribution Licensee is to be deducted from the total expenses to arrive at the net ARR. The components of the other income (Non Tariff Income) as per Regulation 96.2 are:

- *Income from delayed payment surcharge*
- *Income from meter rent*
- *Income from various customer charges*
- *Income from investments*
- *Miscellaneous receipts from consumers*
- *Trading income*
- *Prior period income*
- *Interest on staff loans and advances*
- *Recovery of theft and pilferage of energy*
- *Any other income*

3.13.2 It is assumed that the Non Tariff Income will remain at the same level as FY 2014-15. The details of Non Tariff Income are mentioned in table below and attached as Format-D5.

MePDCL submits before the Hon'ble Commission to kindly approve Non Tariff Income of Rs. 26.78 Cr for each year of the Control Period of FY 2015-16 to FY 2017-18.

3.14 Cross Subsidy Surcharge

It is submitted that after introduction of Open Access within the State, MePDCL earns Cross-Subsidy surcharge from the Open Access Consumers of the state. It is assumed that during the control period of FY 2015-16 to FY 2017-18, MePDCL will be receiving Cross-Subsidy surcharge at the same level as received for FY 2014-15.

MePDCL submits before the Hon'ble to kindly approve Rs. 9.86 Cr as cross-subsidy surcharge for each year of the control period.

3.15 RE Subsidy

The State Government has provided RE Subsidy of Rs. 14.57 Cr in FY 2013-14 and MePDCL has kept a provision of Rs. 17.50 Cr in FY 2014-15. It is estimated that during the control period of FY 2015-16 to FY 2017-18, MePDCL will receive RE subsidy from State Government same as FY 2014-15 i.e. Rs. 17.50 Cr.

MePDCL submits before the Hon'ble to kindly approve the same to be deducted from the ARR to arrive at Net ARR.

3.16 Annual Revenue Requirement for the Control Period

Based on the detailed computation of ARR components, the abstract of ARR is shown in the table below and attached as Format D7.

Table 40: Annual Revenue Requirement (Rs. Cr)

Sl. No	Item of expenditure	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
1	Cost of Power Purchase	621.54	570.77	676.65	762.65
2	Inter-State Transmission Charge	57.45	72.41	78.98	90.26
3	MePTCL Transmission Charge	72.72	76.95	81.36	86.01
4	Employee costs	83.28	98.73	108.41	118.75
5	R&M expenses	7.24	7.89	8.61	9.38
6	A & G Expenses	62.31	71.34	79.58	81.78
7	Depreciation	18.73	27.44	39.44	50.35
8	Interest on Loan Capital	15.69	52.50	47.66	43.33
9	Interest on Working Capital	9.43	33.93	39.19	43.55
10	Return on equity	35.36	38.04	40.28	40.28
11	Income Tax	-	-	-	-
12	Provision for bad and doubtful debt	9.39	10.06	11.58	12.85
	Total revenue requirement	993.14	1,060.08	1,211.73	1,339.19
	<i>Less: Non tariff income</i>	26.78	26.78	26.78	26.78
	Less: Cross Subsidy Surcharge	9.86	9.86	9.86	9.86
	Less: RE Subsidy	17.50	17.50	17.50	17.50
	Net revenue requirement	939.00	1,005.93	1,157.58	1,285.05

MePDCL submits before the Hon'ble Commission to kindly approve Net ARR of Rs. **1,005.93 Cr**, Rs. **1,157.58 Cr** and Rs. **1,285.05 Cr** for FY 2015-16, FY 2016-17 and FY 2017-18 respectively.

4 Revenue Gap for the 1st Year of Control Period

4.1 Revenue at Current Tariff

The Revenue at Current Tariff is calculated based on the current tariff and projected sales of energy category wise for the 1st year of Control Period i.e. FY 2015-16. The detailed calculation of revenue at current tariff is shown in Format 14 A, B, C, and D. The total revenue at current tariff works out to be Rs. **564.12 Cr** for FY 2015-16.

4.2 Revenue from Sale of Surplus Power

It is submitted that as per the Energy Balance as submitted in **Table 12**, in the FY 2015-16 MePDCL is expected to be having 391 MUs of surplus power after meeting the within the State Demand of Energy and Return Swap Obligation. As this surplus power is expected to be available only during the rainy season, MePDCL has to depend upon the Short Term market for sale of this surplus power. Over last 3-5 years, it is observed that there are huge fluctuations in the short term market rate especially during the rainy season. Therefore, it is extremely difficult to project a realistic per unit rate of power.

However, after analyzing the past trend and current market trend it is assumed that MePDCL will be receiving a per unit revenue of Rs. 3.00. The calculation of Revenue from sale of Surplus Power is shown in the table below:

Table 41: Revenue from Sale of Surplus Power

Particulars	FY 2015-16
Surplus Power (MU)	390.56
Per Unit Revenue (Rs./Unit)	3.00
Revenue from Surplus Power (Rs. Cr)	117.17

MePDCL submits before the Hon'ble Commission to kindly approve Rs. 117.17 Cr as revenue from sale of surplus power.

4.3 Revenue Gap/Deficit at Current Tariff

The projected Net ARR in clause **3.16**, Revenue at current tariff in clause **4.1** and Revenue from Sale of Surplus power in clause **4.2** is compared and a Revenue

Gap/Deficit of Rs. **324.52** Cr is arrived for FY 2015-16. The detail is shown in the table below:

Table 42: Revenue Gap for FY 2015-16

Particulars	Rs. Cr
Net ARR of FY 2015-16	1,005.93
Revenue from Surplus Power	117.17
Revenue at Existing Tariff	564.12
Revenue Gap	324.65

MePDCL submits before the Hon'ble Commission to kindly approve Rs. **324.65** Cr as Revenue Gap for the FY 2015-16.

5 Tariff Proposal

The tariff proposal for different categories is mentioned in detail below:

5.1 Tariff Proposal for Low Tension (LT) Supply:

Classification of supply at Low Tension shall be as per the Meghalaya Electricity Supply Code, 2012 at clause 2.1 (1) (a).

5.1.1 CATEGORY I: DOMESTIC LOW TENSION (DLT)

This category shall be applicable to domestic consumption, which includes consumption-

- (a) for lighting, heating, cooling, fans and other household appliances in a private dwelling house;
- (b) in temples, churches, mosques, gurudwaras and other places of religious worship;
- (c) in hospitals, dispensaries, health centres run by Government or by charitable, religious or social organisations on a no-profit or non-commercial basis;
- (d) in schools, colleges, hostels boarding houses for students run by Government or by charitable, religious or social organisations on a no-profit or non commercial basis; and
- (e) in ashrams, dharamsalas, community halls and institutions run by recognised welfare organisations .

5.1.2 KUTIR JYOTI / BPL

Kutir Jyoti Connections have been grouped under domestic category with two sub-categories of Un-metered Kutir Jyoti Connections and Metered Kutir Jyoti Connections (including BPL).

A. Unmetered Kutir Jyoti

The tariff for this category of consumers is Rs. 80 per connection per month. MePDCL proposes to increase the tariff to Rs **200** per connection per month.

Category	Existing Rate (Rs)	Proposed Rate (Rs)
Kutir Jyoti (KJ-U)	90	180

As no more connections shall be given without meter, hence this tariff is only applicable for the existing un-metered Kutir Jyoti connections until they are metered.

B. Metered Kutir Jyoti (Including BPL)

MePDCL propose that the tariff shall be as per consumption at the rate of Rs. 3.00 per unit for monthly consumption within 0-30 units. If it is found that their monthly consumption in any month exceeds the limit of 0-30 units, then the

billing of excess units shall be done based on the tariff prescribed for normal domestic consumers.

Category	Current Tariff	Proposed Tariff
Kutir Jyoti (KJ-M) including BPL	Rs. 2.25 per unit for monthly consumption within 30 units In case consumption in any month exceeds 30 units, then the billing of excess units shall be on the tariff prescribed for appropriate slab for normal domestic consumers.	Rs. 3.60 per unit for monthly consumption within 30 units In case consumption in any month exceeds 30 units, then the billing of excess units shall be on the tariff prescribed for appropriate slab for normal domestic consumers.

5.1.3 DOMESTIC (DLT)

A. Fixed Charge: The MePDCL proposes to levy fixed charge per KW per month as below.

Category	Existing Fixed Charge (Rs/kW/month)	Proposed Fixed Charge (Rs/kW/month)
Domestic(DLT)	40	80

B. Energy Charge: The proposed energy charge for unit consumption of electricity in the various slabs is given below.

Category	Slabs of Units	Existing Energy Charge (Paise/Unit)	Proposed Energy Charge (Paise/Unit)
Domestic (DLT)	First 100 Units	290	493
	Next 100 Units	340	595
	Above 200 Units	440	744

5.1.4 COMMERCIAL LOW TENSION (CLT)

This category shall be applicable to commercial consumption, which includes consumption-

- in shops, banks, hotels, restaurants, cinema halls, petrol pumps, garages and other commercial and business establishments;
- in nursing homes, dispensaries, pathological laboratories, x-ray clinics and other such commercial establishments;
- in fairs and exhibitions and for signboards and hoardings; and
- other consumption not falling under any other category under the clause.

Note - Where a connection serves both domestic and commercial purposes, the consumption shall be classified as commercial.

- A. Fixed Charges: The MePDCL proposes to levy fixed charge per KW per month as below.

Category	Existing Fixed Charge (Rs/kW/month)	Proposed Fixed Charge (Rs/kW/month)
Commercial (CLT)	80	160

- B. Energy Charges: The proposed energy charge for unit consumption of electricity is given below.

Category	Slabs of Units	Existing Energy Charge (Paise/Unit)	Proposed Energy Charge (Paise/Unit)
Commercial (CLT)	First 100 Units	500	690
	Above 100 Units	580	

5.1.5 INDUSTRIAL LOW TENSION (ILT)

This category shall be applicable to industrial consumption, which includes consumption in factories and other industrial or manufacturing establishments.

- A. Fixed Charges: The MePDCL proposes to levy fixed charge per KW per month as below.

Category	Existing Fixed Charge (Rs/kW/month)	Proposed Fixed Charge (Rs/kW/month)
Industrial (ILT)	80	160

- B. Energy Charges: MePDCL proposed to continue the single slabs for the energy charges. The proposed energy charge for unit consumption of electricity is given below.

Category	Slabs of Units	Existing Energy Charge (Paise/Unit)	Proposed Energy Charge (Paise/Unit)
Industrial (ILT)	All units	475	618

5.1.6 PUBLIC SERVICE LOW TENSION (PSLT)

This category shall be applicable to public service consumption, which includes consumption -

- in government and district council offices, municipal boards municipal corporations and other local bodies;
- for street lighting, park lighting and traffic signal systems.

5.1.6.1 PUBLIC LIGHTING (PL)

- A. Fixed Charges: The MePDCL proposes to levy fixed charge per KW per month as below.

Category	Existing Fixed Charge (Rs/kW/month)	Proposed Fixed Charge (Rs/kW/month)
Public Lighting (PL)	80	160

- B. Energy Charges: MePDCL proposed to continue the single slabs for the energy charges. The proposed energy charge for unit consumption of electricity is given below.

Category	Slabs of Units	Existing Energy Charge (Paise/Unit)	Proposed Energy Charge (Paise/Unit)
Public Lighting (PL)	All units	540	864

- C. The billing of existing un-metered connections (until they are metered) shall be done as below.

The tariff includes repairs, attendance and renewal of lamps subject to a maximum of 4 (four) renewals per point per lamp per annum, but with initial fitting at the cost of the customer. The rates given below are in addition to the fixed charge as applicable to metered supply.

Particulars	Existing Rate (Rs per Lamp per point per month)	Proposed Rate (Rs per Lamp per point per month)
For Fluorescent Lamp		
Up to 40 Watts	155	264
For Mercury Vapour Lamp		
80 Watts	213	362
125 Watts	322	547
250 Watts	673	1144
500 Watts	1254	2132
For Sodium Vapour Lamp		
Up to 150 Watts	489	831
250 Watts	759	1290
400 Watts	1265	2151
CFL Fittings		
Up to 45 Watts	155	264
Above 45 Watts and up to 85 Watts	247	420
LED Fittings (120 Watts)	477	811
Metal Halide (150 Watts)	575	978

5.1.6.2 PUBLIC WATER SUPPLY/SEWAGE TREATMENT PLANTS (WSLT)

- A. Fixed Charges: The MePDCL proposes to levy fixed charge per KW per month as below:

Category	Existing Fixed Charge (Rs/kW/month)	Proposed Fixed Charge (Rs/kW/month)
Public Water Supply (WSLT)/ Sewage Treatment Plants	80	160

- B. Energy Charges: MePDCL proposes to continue the single slab for the energy charges. The proposed energy charge for unit consumption of electricity is given below.

Category	Slabs of Units	Existing Energy Charge (Paise/Unit)	Proposed Energy Charge (Paise/Unit)
Public Water Supply (WSLT)/ Sewage Treatment Plants	All units	540	880

5.1.7 GENERAL PURPOSE (GP)

- A. Fixed Charges: The MePDCL proposes to levy fixed charge per KW per month as below.

Category	Existing Fixed Charge (Rs/kW/month)	Proposed Fixed Charge (Rs/kW/month)
General Purpose (GP)	80	160

- B. Energy Charges: MePDCL proposes to continue the same slabs for the energy charges. The proposed energy charge for unit consumption of electricity is given below.

Category	Slabs of Units	Existing Energy Charge (Paise/Unit)	Proposed Energy Charge (Paise/Unit)
General Purpose (GP)	All units	540	875

5.1.8 AGRICULTURE (AP)

This category shall be applicable to agricultural consumption for pumping water for irrigating cultivable lands.

- A. Fixed Charges: The MePDCL proposes to levy fixed charge per KW per month as below.

Category	Existing Fixed Charge (Rs/kW/month)	Proposed Fixed Charge (Rs/kW/month)
Agriculture Purpose (AP)	45	90

- B. Energy Charges: MePDCL proposes to continue the single slab for the energy charges. The proposed energy charge for unit consumption of electricity is given below.

Category	Slabs of Units	Existing Energy Charge (Paise/Unit)	Proposed Energy Charge (Paise/Unit)
Agriculture Purpose (AP)	All units	200	280

5.1.9 CREMATORIUM

- A. Fixed Charges: The MePDCL proposes to levy fixed charge per month as below.

Category	Existing Fixed Charge (Rs/Connection/month)	Proposed Fixed Charge (Rs/Connection/month)
Crematorium (CRM)	5800	11600

- B. Energy Charges: MePDCL proposes to levy energy charge for unit consumption of electricity as given below.

Category	Slabs of Units	Existing Energy Charge (Paise/Unit)	Proposed Energy Charge (Paise/Unit)
Crematorium (CRM)	All units	335	586

5.2 Tariff Proposal for High Tension (HT) Supply:

Classification of supply at High Tension shall be as per the Meghalaya Electricity Supply Code, 2012 at clause 2.1 (1) (b).

5.2.1 DOMESTIC HIGH TENSION (DHT)

This category shall be applicable to domestic consumption, which includes consumption-

- (a) for lighting, heating, cooling, fans and other household appliances in a private dwelling house;
- (b) in temples, churches, mosques, gurudwaras and other places of religious worship;
- (c) in hospitals, dispensaries, health centres run by Government or by charitable, religious or social organisations on a no-profit or non-commercial basis:

(d) in schools, colleges, hostels boarding houses for students run by Government or by charitable, religious or social organisations on a no-profit or non commercial basis; and

(e) in ashrams, dharamsalas, community halls and institutions run by recognised welfare organisations .

A. Fixed Charge: MePDCL proposes to levy fixed charge per KVA per month as below.

Category	Existing Fixed Charge (Rs/kVA/month)	Proposed Fixed Charge (Rs/kVA/month)
Domestic (DHT)	150	300

B. Energy Charges: MePDCL propose to levy energy charge as shown below:

Category	Slabs of Units	Existing Energy Charge (Paise/kWh)	Proposed Energy Charge (Paise/kWh)
Domestic (DHT)	All units	510	740

5.2.2 COMMERCIAL HIGH TENSION (CHT)

This category shall be applicable to commercial consumption, which includes consumption-

(a) in shops, banks, hotels, restaurants, cinema halls, petrol pumps, garages and other commercial and business establishments;

(b) in nursing homes, dispensaries, pathological laboratories, x-ray clinics and other such commercial establishments;

(c) in fairs and exhibitions and for signboards and hoardings; and

(d) other consumption not falling under any other category under the clause.

Note - Where a connection serves both domestic and commercial purposes, the consumption shall be classified as commercial.

A. Fixed Charge: The MePDCL proposes to levy fixed charge per KVA per month as below.

Category	Existing Fixed Charge (Rs/kVA/month)	Proposed Fixed Charge (Rs/kVA/month)
Commercial (CHT)	150	300

B. Energy Charges: MePDCL propose to levy energy charge as shown below:

Category	Slabs of Units	Existing Energy Charge (Paise/kVAh)	Proposed Energy Charge (Paise/kVAh)
Commercial (CHT)	All units	525	606

5.2.3 INDUSTRIAL HIGH TENSION (IHT)

This category shall be applicable to industrial consumption, which includes consumption in factories and other industrial or manufacturing establishments.

- A. Fixed Charge: The MePDCL proposes to levy fixed charge per KVA per month as below.

Category	Existing Fixed Charge (Rs/kVA/month)	Proposed Fixed Charge (Rs/kVA/month)
Industrial (IHT)	150	300

- B. Energy Charges: The proposed energy charge for unit consumption of electricity is given below.

Category	Slabs of Units	Existing Energy Charge (Paise/kVAh)	Proposed Energy Charge (Paise/kVAh)
Industrial (IHT)	All units	524	760

5.2.4 PUBLIC SERVICE HIGH TENSION (PSHT)

This category shall be applicable to public service consumption, which includes consumption -

- (a) in government and district council offices, municipal boards municipal corporations and other local bodies;
- (b) for street lighting, park lighting and traffic signal systems.

5.2.4.1 PUBLIC WATER SUPPLY/SEWAGE TREATMENT PLANTS (WSHT)

- A. Fixed Charge: The MePDCL proposes to levy fixed charge per KVA per month as below.

Category	Existing Fixed Charge (Rs/kVA/month)	Proposed Fixed Charge (Rs/kVA/month)
Public Water Works (WSHT)	150	300

- B. Energy Charges: The proposed energy charge for unit consumption of electricity is given below.

Category	Slabs of Units	Existing Energy Charge (Paise/kVAh)	Proposed Energy Charge (Paise/kVAh)
Public Water Works (WSHT)	All units	510	842

5.2.4.2 GENERAL PURPOSE / BULK SUPPLY (BS)

A. Fixed Charge: The MePDCL proposes to levy fixed charge as below.

Category	Existing Fixed Charge (Rs/kVA/month)	Proposed Fixed Charge (Rs/kVA/month)
General Purpose/ Bulk Supply (BS)	150	300

B. Energy Charges: MePDCL propose to levy energy charge as shown below:

Category	Slabs of Units	Existing Energy Charge (Paise/kWh)	Proposed Energy Charge (Paise/kWh)
General Purpose/Bulk Supply (BS)	All units	510	842

5.3 Tariff Proposal for Extra High Tension (EHT) Supply:

Classification of supply at Extra High Tension shall be as per the Meghalaya Electricity Supply Code, 2012 at clause 2.1 (1) (c).

In the Tariff Order dated 20th January, 2012 the Hon'ble Commission had approved implementation of kVAh billing for Industrial (EHT). In this petition it is proposed to continue with the kVAh billing for all EHT consumers.

5.3.1 INDUSTRIAL EXTRA HIGH TENSION (IEHT)

This category shall be applicable to industrial consumption, as per the Meghalaya Electricity Supply Code, 2012 at para 3.6 (I)

A. Fixed Charge: MePDCL proposes to levy fixed charge per KVA per month as below.

Category	Existing Fixed Charge (Rs/kVA/month)	Proposed Fixed Charge (Rs/kVA/month)
Industrial (IEHT)	150	300

B. Energy Charges: The proposed energy charge for unit consumption of electricity is given below.

Category	Slabs of Units	Existing Energy Charge (Paise/kVAh)	Proposed Energy Charge (Paise/kVAh)
Industrial (IEHT)	All units	510	734

5.4 Tariff Proposal for Temporary Supply (LT & HT)

This category shall be applicable to temporary consumption, as per the Meghalaya Electricity Supply Code, 2012 at clause 3.6 (F).

MePDCL proposes to continue with the existing arrangement where the fixed and energy charges shall continue to be double the standard applicable rate for all categories.

5.5 Billing for Excess Demand

5.5.1 HT & EHT Consumers

Billing in case of excess demand recorded shall be as per clause 10.1 (16) (1) of Meghalaya Electricity Supply Code, 2012.

5.5.2 LT Consumers

Billing in case of enhanced connected load shall be as per clause 10.1 (16) (2) of Meghalaya Electricity Supply Code, 2012.

5.6 Billing in case of Stopped/Defective Meters:

5.6.1 Assessment where average can be computed

Assessment of energy where meter is defective or stopped and where average consumption can be computed, the bill shall be prepared based on the average consumption of the preceding six months.

5.6.2 Assessment where average cannot be computed

Assessment of energy where meter is defective or stopped and where average consumption cannot be computed shall be calculated as per clause 7.5 (3) of Meghalaya Electricity Supply Code, 2012.

5.7 Compensation charge for Low Power Factor:

MePDCL proposes to have the existing compensation charge for low power factor to continue for FY 2014-15.

5.8 Rebate for Pre-Paid metering

It is submitted that MePDCL has recently procured 4000 pre-paid meters and the same will be installed from December 2014 onwards. MePDCL has filed a petition before the Hon'ble Commission for approval of providing 2% Rebate to consumers having Pre-Paid meters.

MePDCL submits before the Hon'ble Commission to kindly dispose of the petition and approve MePDCL for providing 2% Rebate to consumers having Pre-Paid meters.

5.9 Pro-rata Billing

It is submitted that at present due to various billing cycle, the new tariff for a Financial Year do not become effective exactly from the date approved in the Tariff Order issued by the Hon'ble Commission. For example for the FY 2014-15, the approved tariff was applicable from 1st April, 2014. However, due to billing cycle for some consumers the new tariff was implemented from 1st April, for some consumers from 10th April, for some consumers from 24th April etc. This way the new tariff is not being implemented on a uniform way for all the consumers. Moreover due to delayed implementation of new tariff, there is loss of revenue to MePDCL as well. The only way to solve this issue is to raise energy bill on pro-rata basis from the effective date of tariff order.

Therefore, MePDCL submits before the Hon'ble Commission to kindly allow for raise of bill from the effective date of order for all consumers on pro-rata basis.

6 Compliance to Directive of MSERC vide Tariff Order dated 12.04.14

i. Status of replacement of electro mechanical meters:

It is submitted that the electro mechanical meters replaced as on September 2014 was 8455 nos.

ii. Monthly report on performance of all six circles etc:

It is submitted that the monthly reports on performance of all six circles (AT&C Loss) for the period from April 2013 to March 2014 and from April 2014 to June 2014 is submitted to the Hon'ble Commission vide Letter No. MePDCL/DD/T-440/Pt-II/2014-15/55 dated 15th December 2014.

Further, the category-wise sale of energy, demand and collection reports for the period from April 2013 to March 2014 and from April 2014 to June 2014 is submitted to the Hon'ble Commission vide Letter No. MePDCL/DD/T-440/Pt-II/2014-15/55 dated 15th December 2014.

iii. Energy Audit of Industries:

It is submitted that an energy audit at Byrnihat Industrial Area has been done for those 33 KV consumers having the injection meter at injection point and billed at consumers' end of the common feeder, for the period from March 2014 to September 2014. The report is submitted to the Hon'ble Commission vide Letter No. MePDCL/DD/T-440/Pt-II/2014-15/55 dated 15th December 2014.

The monthly energy audit reports of 11 KV feeders emanating from 33/11 KV Keatinge Road Substation are being submitted regularly every month till October 2014. Similarly, the commercial loss report of commercial complexes, namely the Hotel Monsoon, M.D. Geonka, Mirullah and Ajmera Marble Buildings at Police Bazar, Shillong are being submitted regularly every month.

Tender Notice for appointing an Independent Agency to carry out Energy Audit in Byrnihat Industrial Area was issued on 24th July 2014. The broad scope of the work can be summarised as follows:

- Survey, mapping and simulation of electrical distribution Network of Byrnihat.
- Assessment of existing energy metering status for all the EHT and HT consumers in Byrnihat and recommendation for improvement
- Mapping of all HT, EHT consumers with the Electricity Distribution Network identified as above
- Segregation of Distribution loss into Technical and Commercial losses. Identify various components/ factors contributing technical losses and Commercial losses

- Carry out monthly consumption analysis, energy audit.

The bid evaluation process is undergoing.

iv. Status of billing software for TOD billing:

It is submitted that the program for TOD (Time of Day) billing for HT and EHT consumers is being developed and it is scheduled to be completed by March 2015.

However, study is being made regarding the feasibility of implementation of the TOD billing and the same shall be submitted before the Hon'ble Commission accordingly.

v. Revenue audit report:

It is submitted that the revenue audit is being done internally by the Accounts Wing of MeECL. The scope of work and the status of auditing is submitted to the Hon'ble Commission vide Letter No. MePDCL/DD/T-440/Pt-II/2014-15/55 dated 15th December 2014.

vi. Submission of Audited Accounts:

It is submitted that the FY 2010-11 and FY 2011-12 Statement of Accounts have been audited.

vii. Status of the Demand Side Management Initiatives:

It is submitted that the status of Demand Side Management initiatives has been submitted to the Hon'ble Commission vide Letter No. MePDCL/DD/T-440/Pt-II/2014-15/55 dated 15th December 2014.

viii. Action plan for reducing AT&C loss:

In the Business Plan section of the present petition the various steps taken for reduction of AT & C loss has been included.

The various steps taken for reduction of AT & C loss is also submitted to the Hon'ble Commission vide Letter No. MePDCL/DD/T-440/Pt-II/2014-15/55 dated 15th December 2014.



मेघालया MEGHALAYA

BEFORE THE HON'BLE MEGHALAYA STATE ELECTRICITY REGULATORY
COMMISSION

01AA 894810

FILE/PETITION NO.

IN THE MATTER OF:

APPROVAL OF ANNUAL REVENUE REQUIREMENT AND TARIFF OF THE
MEGHALAYA POWER DISTRIBUTION CORPORATION LIMITED (MePDCL)
WITHIN THE STATE OF MEGHALAYA FOR THE FINANCIAL YEAR 2014-15
UNDER MEGHALAYA STATE ELECTRICITY REGULATORY COMMISSION
(DETERMINATION OF TARIFF) REGULATION 2011 AND UNDER SECTION-62
READ WITH SECTION 86 OF THE ELECTRICITY ACT 2003

AND IN THE MATTER OF

MEGHALAYA POWER DISTRIBUTION CORPORATION LIMITED; LUMJINGSHAI,
SHILLONG - 793001, MEGHALAYA

PETITIONER

Affidavit verifying the Petition

I Shri Rinohmo Sungoh, aged 51 years, son of (L) A. Chullet, residing at Pohkseh, PO
Rynjah, Shillong - 793006, do solemnly affirm and say as follows:-

I am working as Superintending Engineer, Re-organization, office of the Director (Distribution), at Meghalaya Power Distribution Corporation Limited (MePDCL), 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.



[Signature]
(Ms. S. Lyngdoh)
Identified by:

[Signature] 22/12/14
(Rinohmo Sungoh)
Petitioner

[Signature]
Magistrate First Class,
Subordinate District Council Court,
Khasi Hills, Shillong.

Company Name: MePDCL																		
MePDCL Investment Plan																		
Sr. No	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	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							
1	RAPDRP Part-A	2011-12	C	NA	Oct'10	Jun'15	32.74	N/A	N/A	N/A		32.74	N/A					
2	RAPDRP Part-B	2013-14	B (iii)	NA	Mar'15	Mar'17	159.73	N/A	N/A	15.973	State Govt.	143.757	N/A					
North East Region Power System Improvement Project																		
3	Construction of New 33/11 KV 2 x 10 MVA s/s at Mawpat with two nos. 33kV line bay	2015-16	B (ii)	NA	Mar'15	Mar'19	51.64	N/A	N/A	2.58	State Govt.	49.06	N/A					
4	Construction of New 33/11 KV 2 x 10 MVA s/s at New Shillong with one no. 33kV line bay	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A					
5	Construction of New 33/11 KV 2 x 7.5 MVA s/s at Mawryngkneng with three nos. 33kV line bay	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A					
6	Construction of New 33/11 KV 2 x 5 MVA s/s at Mawkynrew with one no. 33kV line bay	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A					
7	Replacement of existing SE Falls 2 x 5 MVA SubStation by 2 x 10 MVA	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A					
8	New line from New Shillong 220/132/33 kV SS to Mawpat 33/11 kV New SS, 25 ckm Wolf	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A					
9	New line from New Shillong 220/132/33 kV SS to New Shillong 33/11 kV SS, 6 ckm Wolf	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A					
10	New line from Mawpat 33/11 kV New SS to Existing SE Falls SS, 10 ckm Wolf	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A					
11	New line from Mawryngkneng 33/11 kV SS to New Shillong 220/132/33 kV SS, 26 ckm Wolf	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A					
12	New line from Mawkynrew 33/11 kV SS to Existing Jongksha SS, 8 ckm Wolf	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A					
13	LIFO of Existing Jowai-Landnongkrem Line at New Mawryngkneng, 4 ckm Wolf	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A					
14	Reconductoring of 33kV existing Jowai-Landnongkrem-Jongksha Line, 35 Km Racocon to Wolf.	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A					
15	Addition of 33kV line bay in Existing 33/11kV SE Falls SS	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A					
16	Addition of 33kV line bay in Existing 33/11kV Jongksha SS	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A					
17	Fibre Optic Cable installation on above line 45KM OPGW & 69 KM Aerial FO Cable	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A					
18	Telecom Equipment under DMS package	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A					
	* Investment Plan includes some schemes which are yet to be approved																	

Company Name: MePDCL													
MePDCL Investment Plan													
Sr. No	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		
19	Construction of new 33/11 KV 2 x 5 MVA SS at Mynkre with one 33kV line bay	2015-16	B (ii)	NA	Mar'15	Mar'19	50.37	N/A	N/A	2.52	State Govt.	47.85	N/A
20	Construction of new 33/11 KV 1 x 5 MVA SS at Rymbai with one 33kV line bay	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
21	Construction of new 33/11 KV 1 x 5 MVA SS at Lumshnong with One 33kV line bay	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
22	Construction of new 33/11 KV 2 x 10 MVA SS at Latyrke with One 33kV line bay	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
23	Construction of new line from New Mynkre 132/33 kV SS to New Mynkre 33/11 kV, 6 ckm Wolf	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
24	Construction of new line from Mynkre 132/33 kV SS to New Rymbai 33/11 kV SS, 15 ckm Wolf	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
25	Construction of new line from Mynkre 132/33 kV SS to Lumshnong 33/11 kV SS, 10 ckm Wolf	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
26	Construction of new line from Mynkre 132/33 kV SS to New Latyrke 33/11 kV SS, 25 ckm Wolf	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
* Investment Plan includes some schemes which are yet to be approved													

MePDCL Investment Plan													
Sr. No	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		
27	Construction of New 33/11 KV 1 x 5 MVA SS at Rajballa Bhaitbari with one 33 kV Line Bay	2015-16	B (ii)	NA	Mar'15	Mar'19	76.19	N/A	N/A	3.81	State Govt.	72.38	N/A
28	Construction of New 33/11 KV 1 x 5 MVA SS at Chibinang with One 33kV line bay	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
29	Construction of New 33/11 KV 1 x 5 MVA SS at Raksamgre with One 33kV line bay	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
30	Construction of New line from Phulbari 132/33 SS to New Rajballa Bhaitbari SS, 10 ckm Wolf	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
31	New Phulbari 132/33 SS to New Chibinang SS, 6 ckm Wolf	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
32	Construction of New line from Phulbari 132/33 SS to Existing 33/11 kV Phulbari SS, 6 ckm Wolf	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
33	New Phulbari 132/33 SS to Existing 33 kV Tikrila-Existing Phulbari Line (Patch Line), 6 ckm Wolf	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
34	Construction of New line from Raksamgre 33/11 kV SS to Existing Tikrila 33/11 kV SS, 35 ckm Wolf	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
35	Augmentation of Existing Phulbari 33/11 kV SS. Replacement of 2 x 2.5 MVA with 2 X 5 MVA capacity.	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
36	Reconductoring part of existing 33 kV Tikrila-Existing Phulbari Line (Only Conductor and H/W), 30 ckm Racoon to Wolf.	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
37	Addition of 33kV line bay in Existing 33/11kV Tikrikilla	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
38	Addition of 33kV line bay in Existing 33/11kV Phulbari	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
39	Fibre Optic Cable installation on above line 58KM OPGW & 85 KM Aerial FO Cable	2015-16	B (ii)	NA	Mar'15	Mar'19					State Govt.		N/A
* Investment Plan includes some schemes which are yet to be approved													

Company Name: MePDCL													
MePDCL Investment Plan													
Sr. No	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*	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		
Ongoing Schemes for Network Strengthening													
40	Pre-Paid Metering	2012-13	C	NA	Jan'15	Dec'15	6.88	N/A	6.192	0.688	State Govt.	N/A	N/A
41	Construction of new 33KV D/C line on Wolf Conductor from 132/33KV Mawphlang S/s to 33/11KV Air Force Sub-station via 33/11 KV PHE, GSWS S/s Mawphlang with terminal equipments at PHE Mawphlang and Air Force Sub-station (Phase-I)	2012-13	B (ii)	NA	Jul'13	Jun'15	3	N/A	2.88	0.32	State Govt.	N/A	N/A
42	Construction of new D/C line on Wolf Conductor from Dakopgre to Praharnagar and construction of 33/11 KV, 2.5 MVA S/s at Praharnagar with Control Room	2012-13	B (i)	NA	Jul'13	Jun'15	1.20	N/A	1.08	0.12	State Govt.	N/A	N/A
43	Construction of new D/C line on Wolf Conductor from Dakopgre to Praharnagar and construction of 33/11 KV, 2.5 MVA S/s at Praharnagar with Control Room (Phase-II)	2014-15	B (i)	NA	Mar'15	Mar'17	1.70	N/A	1.53	0.17	State Govt.	N/A	N/A
44	Construction of new 33KV line alongwith 33/11 KV, 2.5 MVA S/s at Bajengdoba No.2	2012-13	B (i)	NA	Apr'13	Mar'15	2.20	N/A	1.98	0.22	State Govt.	N/A	N/A
45	Construction of new 33/11 KV, 2.5 MVA S/s at Bajengdoba No.2 to include installation of 2nd 2.5 MVA Transformer, extension of 2 outgoing feeders and extension of control room (Phase-II)	2014-15	B (i)	NA	Mar'15	Mar'17	1.00	N/A	0.90	0.10	State Govt.	N/A	N/A
46	Renovation, re-engineering and reconductoring of the 33KV Nangalbibra – Baghmara line	2012-13	B (ii)	NA	Apr'13	Mar'15	0.45	N/A	0.41	0.05	State Govt.	N/A	N/A
47	Shifting of 33KV line from Lailad to Nongladew	2012-13	B (ii)	NA	Apr'13	Nov'14	0.63	N/A	0.57	0.06	State Govt.	N/A	N/A
48	Re-engineering and reconductoring of 33KV Happy Valley line from ACSR Raccoon to Wolf Conductor from 4(four) pole structure Belfonte upto 3(three) pole structure at Lapalang	2012-13	B (ii)	NA	Aug'13	Mar'15	0.45	N/A	0.41	0.05	State Govt.	N/A	N/A
49	Construction of 33KV line to evacuate power from 132/33 KV Ampati Substation to different locations	2012-13	B (ii)	NA	Jul'13	Mar'15	1.47	N/A	1.32	0.15	State Govt.	N/A	N/A
	* Investment Plan includes some schemes which are yet to be approved												

Company Name: MePDCL													
MePDCL Investment Plan													
Sr. No	Project Details						Total capital expenditure approved by MSERC/Govt/ FI (Rs. Crs.)	SOURCE OF FINANCING FOR SCHEME					
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								Internal Accrual (from free reserves and surplus)	Additional equity infused	Loan amount (Rs. Crs.)	Loan source		
Ongoing Schemes for Network Strengthening													
50	Procurement of Insulated Rubber matting for substation	2012-13	F	NA	Apr'13	Mar'15	1.32	N/A	1.19	0.13	State Govt.	N/A	N/A
51	Construction of new 33KV D/C line on Wolf Conductor from 132/33KV Mawphlang S/s to 33/11KV Air Force Sub-station via 33/11KV Air Force via 33/11 KV PHE, GSWS S/s Mawphlang with terminal equipments at PHE Mawphlang and Air Force Sub-station (Phase-II)	2014-15	B (ii)	NA	Jul'14	Jun'16	3.80	N/A	3.42	0.38	State Govt.	N/A	N/A
52	Construction of 33/11 KV, 2x5 MVA S/s with Control Room at Nangalbibra including re-alignment of the existing 11KV feeder to shift them to new substation	2013-14	B (ii)	NA	Jul'14	Jun'16	3.21	N/A	2.89	0.32	State Govt.	N/A	N/A
53	Construction of new 33KV line from Killing to Khanapara and installation of 33/11KV, 5MVA substation at Khanapara.	2013-14	B (i)	NA	Jul'14	Jun'16	2.84	N/A	2.56	0.28	State Govt.	N/A	N/A
54	Installation and Replacement of Meters	2011-12	C	NA	Apr'14	Mar'15	3.34	N/A	3.01	0.33	State Govt.	N/A	N/A
55	Construction of the 33 KV line from Khliehtyrshi to Wahiajer alongwith 1x5 MVA substation at Wahiajer with Control Room (Jaintia Hills)	2012-13	B (i)	NA	Feb'13	Jan'15	3.40	N/A	3.06	0.34	State Govt.	N/A	N/A
56	Construction of the 33 KV line from Byrnihat to Nongpoh with provision for double circuit line	2013-14	B (ii)	NA	May'15	Apr'17	4.45	N/A	4.00	0.44	State Govt.	N/A	N/A
57	Construction of the 33/11 KV, 10MVA unmanned substation at Lapalang (Shillong)	2010-11	B (i)	NA	Dec'10	Dec'14	2.75	N/A	2.48	0.28	State Govt.	N/A	N/A
58	Construction of a manned 33/11 kV, 2* 10 MVA Substation at Khliehriat(Moowakhu)	2013-14	B (i)	NA	Mar'15	Feb'17	4.27	N/A	3.84	0.43	State Govt.	N/A	N/A
59	Augmentation/Installation of additional Transformer of a Manned 33/11 KV s/s 1X5 Substation at Nongpoh	2013-14	B (i)	NA	Mar'15	Feb'17	2.15	N/A	1.94	0.22	State Govt.	N/A	N/A
60	Construction of the 33/11 KV, 1X2.5 MVA Mawmihthied substation along with construction of 33KV at Mawmihthied	2013-14	B (ii)	NA	Mar'15	Feb'17	3.61	N/A	3.25	0.36	State Govt.	N/A	N/A
61	Augmentation of 33/11 kV SS 1 x 1.6 MVA with 2 X 2.5 MVA Substation at Mawkyrwat	2013-14	B (i)	NA	Mar'15	Feb'17	0.53	N/A	0.47	0.05	State Govt.	N/A	N/A
62	Construction of 11KV outgoing feeders at 33/11 KV Gonglanggre Substation in Garobadha	2013-14	B (i)	NA	Mar'15	Feb'17	1.86	N/A	1.67	0.19	State Govt.	N/A	N/A
63	Renovation and Modernisation of 33/11 KV, 2X2.5 MVA Baghmara Substation	2013-14	B (ii)	NA	Mar'15	Feb'17	2.58	N/A	2.32	0.26	State Govt.	N/A	N/A
	* Investment Plan includes some schemes which are yet to be approved												

Company Name: MePDCL													
MePDCL Investment Plan													
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								Internal Accrual (from free reserves and surplus)	Additional equity infused	Loan amount (Rs. Crs.)	Loan source		
Proposed Schemes for Network Strengthening													
64	Renovation and Modernisation of 33/11 KV Substations within Greater Shillong including AMC of associated equipments	2015-16	B (ii)	NA	Sep'15	Mar'18	10.00	N/A	9.00	1.00	State Govt.	N/A	N/A
65	Construction of 33KV line from Mawmaram to Mawmih alongwith 33/11KV, 2.5MVA substation at Mawmih.	2015-16	B (i)	NA	Sep'15	Mar'18	1.20	N/A	1.08	0.12	State Govt.	N/A	N/A
66	Construction of 33/11KV, 1X2.5MVA substation at Rapleng including control and Switchgear	2015-16	B (i)	NA	Sep'15	Mar'18	3.59	N/A	3.23	0.36	State Govt.	N/A	N/A
67	Shifting of 33KV Single Circuit Line from Umsohma to New Tasku (Phase-II)	2015-16	B (ii)	NA	Sep'15	Mar'18	0.20	N/A	0.18	0.02	State Govt.	N/A	N/A
68	Construction of 33KV line from 132/33KV Mustem Substation for evacuation of power	2015-16	B (ii)	NA	Sep'15	Mar'18	2.45	N/A	2.21	0.25	State Govt.	N/A	N/A
69	Improvement of power supply in Dadenggre Area by construction of new 33KV Single Circuit Line from Rongkhon to Dadenggre and Strengthening of the 11KV and LT Network	2015-16	B (ii)	NA	Sep'15	Mar'18	4.95	N/A	4.46	0.50	State Govt.	N/A	N/A
70	Augmentation/Reengineering of 33/11 KV 1X2.5 MVA DO controlled Substation to 2 X 2.5 MVA substation with control Room at Pynursla	2015-16	B (i)	NA	Sep'15	Mar'18	3.85	N/A	3.47	0.39	State Govt.	N/A	N/A
71	Construction of New 33/11 KV 2 x 2.5MVA s/s with Control Room at Mawiong with strengthening re- commissioning of 33KV LILO of Umiam NEHU Mawlai Line	2015-16	B (i)	NA	Sep'15	Mar'18	5.00	N/A	4.50	0.50	State Govt.	N/A	N/A
Deposit Works													
72	Deposit Work-FY 15	2014-15	F	NA	Apr'14	Mar'15	7.57	N/A	N/A	N/A	N/A	N/A	7.5652
73	Deposit Work-FY 16	2015-16	F	NA	Apr'15	Mar'16	3.07	N/A	N/A	N/A	N/A	N/A	3.0701
74	Deposit Work NHA1	2013-14	F	NA	Apr'13	Apr'17	12.36	N/A	N/A	N/A	N/A	12.3564	N/A
* Investment Plan includes some schemes which are yet to be approved													

Company Name: MePDCL													
MePDCL Investment Plan													
Sr. No	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*	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		
75	To be Proposed Schemes for Network Strengthening												
	The purpose of the schemes are: • Reduction of power interruptions and minimize outages. • Maintaining proper voltages. • To meet future load demand and prevent transformer failure. • Reduce AT&C losses. • Better customer service and rapport	2016-17	B (i) & (ii)	NA	Jul'17	Mar'19	65.21	N/A	58.69	6.52	State Govt.	N/A	N/A
76	Power System Development Fund	2015-16	B	NA	Jan'16	Aug'18	15.00	N/A	N/A	N/A	N/A	15.00	N/A
77	Integrated Power Development Scheme	2015-16	B	NA	Jan'16	Aug'18	350.00	N/A	N/A	35.00	State Govt.	315.00	N/A
78	Deendayal Upadhaya Gram Jyoti Yojna	2015-16	B	NA	Jan'16	Aug'18	400.00	N/A	N/A	40.00	State Govt.	360.00	N/A
	<i>* Investment Plan includes some schemes which are yet to be approved</i>												

Company Name: MePDCL													
MePDCL Investment Plan													
Sr. No	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		
RGVY													
79	Jaintia Hills	2006-07	F	NA	Nov'06	Mar'14	28.31	N/A	N/A	2.65	REC	25.65	N/A
80	Ri-Bhoi	2006-07	F	NA	Sep'06	Mar'14	19	N/A	N/A	1.81	REC	17.67	N/A
81	East Khasi Hills	2006-07	F	NA	Nov'06	Oct'14	19.37	N/A	N/A	1.62	REC	17.75	N/A
82	South Garo Hills	2008-09	F	NA	Mar'08	Mar'15	92.30	N/A	N/A	9.09	REC	83.21	N/A
83	West Garo Hills	2008-09	F	NA	Mar'08	Mar'15	138.73	N/A	N/A	13.05	REC	125.69	N/A
84	East Garo Hills	2008-09	F	NA	Mar'08	Mar'15	101.92	N/A	N/A	9.86	REC	92.06	N/A
85	West Khasi Hills	2008-09	F	NA	Mar'08	Dec'14	57.95	N/A	N/A	5.47	REC	52.48	N/A
Indo Bangla Border Lighting													
86	Shillong sector	2014-15	F	NA	Aug'14	Feb'16	31.07	N/A	N/A	N/A	N/A	N/A	31.07
87	Tura sector	2015-16	F	NA	Mar'15	Sep'16	23.29	N/A	N/A	N/A	N/A	N/A	23.29
88	Williamnagar sector	2015-16	F	NA	Mar'15	Sep'16	21.55	N/A	N/A	N/A	N/A	N/A	21.55
89	Jowai Sector	2016-17	F	NA	Mar'16	Sep'17	22.74	N/A	N/A	N/A	N/A	N/A	22.74
Green City Project													
90	Solar Street Lighting Phase I	2013-14	F	NA	Feb'14	Dec'14	5.00	N/A	5	N/A	N/A	N/A	N/A
91	Solar Street Lighting Phase II	2013-14	F	NA	Mar'15	Mar'17	20.00	N/A	20	N/A	N/A	N/A	N/A
* Investment Plan includes some schemes which are yet to be approved													

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Name of the Licensee: MePDCL

EMPLOYEE COST

Rs. Cr

S.N	Particulars	FY 2012-13 (Provisional)	FY 2013-14 (Provisional)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
	SALARIES & ALLOWANCES						
1	Basic Pay	38.47	35.97	41.54	72.26	75.39	78.63
2	Lumpsum/Arrear	6.56	1.70	0.17	-	-	-
3	Dearness Allowance	10.51	12.84	21.46	1.45	7.54	14.15
4	House Rent Allowance	8.58	8.12	4.79	8.67	9.05	9.44
5	Other allowance	-	-	3.92	4.84	4.90	4.97
6	Medical Reimbursement charges	0.83	0.66	0.86	0.86	0.86	0.86
7	Overtime Payment	0.77	0.95	1.78	1.78	1.78	1.78
8	Generation incentives	0.07	0.09	0.14	0.14	0.14	0.14
9	Salaries-Casual	5.16	5.58	6.80	6.80	6.80	6.80
10	Sub Total	70.95	65.92	81.44	96.80	106.45	116.77
	Terminal Benefits						
12	Leave encashment Benefits	1.47	1.15	1.50	1.50	1.50	1.50
13	Staff welfare expenses	0.03	0.07	0.06	0.06	0.06	0.06
14	CPS	-	-	-	-	-	-
15	Workman compensation	-	-	-	-	-	-
16	Exgratia	0.02	0.03	0.02	0.02	0.02	0.02
17	Sub Total	1.52	1.25	1.58	1.58	1.58	1.58
	Pension Payment						
18	Basic Pension	-	-	-	-	-	-
19	Dearness Pension	0.12	0.18	0.20	0.34	0.34	0.34
20	Dearness Allowance	-	-	-	0.01	0.03	0.06
21	Any Other Allowances	-	-	-	-	-	-
22	Sub Total	0.12	0.18	0.20	0.35	0.38	0.41
	Total (10+17+22)	72.59	67.35	83.22	98.73	108.41	118.75
	<i>Amount Capitilised</i>	<i>11.11</i>	-	-	-	-	-
	Net Amount	61.48	67.35	83.22	98.73	108.41	118.75
	<i>Add Prior Period Expences</i>	<i>0.89</i>	<i>0.25</i>	<i>0.06</i>	-	-	-
	Grand Total	62.37	67.60	83.28	98.73	108.41	118.75

Format-2

Name of the Licensee: MePDCL

TOTAL NUMBER OF EMPLOYEES*

S.N	Particulars	FY 2012-13 (Provisional)	FY 2013-14 (Provisional)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
1	Number of employees as on 1st April	1719	1677	1626	1560	1514	1465
2	Number of employees on deputation / foreign service as on 1st April	2	2	2	2	2	2
3	New Recruitment	21	4		16	24	24
4	Total Number of employees (1+2+3)	1742	1683	1628	1578	1540	1491
5	Number of employees retired / retiring during the year	65	57	68	64	75	80
6	Number of employees at the end of the year (4-5)	1677	1626	1560	1514	1465	1411

Format-2

Name of the Generating Company: MeECL

TOTAL NUMBER OF EMPLOYEES*

S.N	Particulars	FY 2012-13 (Provisional)	FY 2013-14 (Provisional)	FY 2014-15 (Estimated)	FY 2015-16 (Estimated)	FY 2016-17 (Estimated)	FY 2017-18 (Estimated)
1	Number of employees as on 1st April	410	408	400	373	366	352
2	Number of employees on deputation / foreign service as on 1st April	-	-	-	-	-	-
3	New Recruitment	24	8		8	2	2
4	Total Number of employees (1+2+3)	434	416	400	381	368	354
5	Number of employees retired / retiring during the year	26	16	27	15	16	19
6	Number of employees at the end of the year (4-5)	408	400	373	366	352	335

* Does not include number of casual Employees

Name of the Licensee: MePDCL

EMPLOYEES PRODUCTIVE PARAMETERS

S.N	Particulars	FY 2012-13 (Provisional)	FY 2013-14 (Provisional)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
1	Number of consumers in million	0.31	0.35	0.35	0.37	0.39	0.41
2	Connected load in kW	742,920	741,210	728,252	763,463	804,084	847,827
3	Line circuit in KM (LT+HT)						
4	Within the State Energy sold in MU	1,061	1,073	997	1,030	1,065	1,103
5	Employees per MU of energy sold	1.58	1.52	1.56	1.47	1.38	1.28
6	Employees per 1000 consumers	5.38	4.64	4.45	4.11	3.79	3.47
7	Share of employees cost in total expenses	NA	0.09	0.09	0.10	0.09	0.09
8	Employees cost in paise / kWh of energy sold	1.58	1.52	1.56	1.47	1.35	1.26
9	Line circuit KM (EHT Lines)	NA					
10	Employees per KM of EHT line (Transmission related)						
11	Power station installed capacity own generation (MW)						
12	Employees per MW of capacity For generating company						

Name of the Licensee: MePDCL

REPAIRS AND MAINTENANCE EXPENSES

Rs. Cr

S.No	Particulars	FY 2012-13 (Provisional)	FY 2013-14 (Provisional)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
1	Plant & Machinery	1.29	0.41	1.35	1.47	1.60	1.75
2	Building	0.75	0.35	0.44	0.48	0.52	0.57
3	Hydraulic works	-	-	-	-	-	-
4	Lines & Cables	3.55	3.17	4.95	5.40	5.88	6.42
5	Vehicles	0.23	0.14	0.16	0.17	0.19	0.21
6	Furnitures & Fixtures	0.06	0.03	0.06	0.07	0.07	0.08
7	Office Equipments	0.11	0.22	0.12	0.13	0.14	0.16
8	Civil Works	0.25	0.31	0.16	0.17	0.19	0.21
	Total	6.24	4.63	7.24	7.89	8.61	9.38
	<i>Add/deduct share of other</i>	-	-	-	-	-	-
	Total expenses	6.24	4.63	7.24	7.89	8.61	9.38
	<i>Less capitalized</i>	-	-	-	-	-	-
	Net expenses	6.24	4.63	7.24	7.89	8.61	9.38
	<i>Add prior period</i>	-	-	-	-	-	-
	Total R&M expenses	6.24	4.63	7.24	7.89	8.61	9.38

Name of the Licensee: MePDCL

ADMINISTRATION AND GENERAL EXPENSES

Rs. Cr

S.N	Particulars	FY 2012-13 (Provisional)	FY 2013-14 (Provisional)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
1	Rent, Rates & Taxes	0.03	0.03	0.04	0.04	0.05	0.05
2	Insurance	0.03	0.03	0.02	0.02	0.02	0.03
3	Telephone, Postage & Telegrams	0.09	0.10	0.10	0.11	0.12	0.13
4	Consultancy fees	0.02	-	0.10	0.11	0.12	0.13
5	Technical fees	-	-	-	-	-	-
6	Other professional charges	0.44	0.01	-	-	-	-
7	Conveyance & travel expenses	3.60	4.51	5.08	5.54	6.04	6.58
8	Electricity & water charges	-	-	-	-	-	-
9	Others	0.47	0.37	0.56	0.61	0.67	0.73
10	Freight	-	-	-	-	-	-
11	Other material related expenses	0.35	0.44	0.20	0.22	0.24	0.26
	Total Expenses	5.03	5.49	6.10	6.65	7.25	7.91
	<i>Less Capitalized</i>	-	-	-	-	-	-
	Net Expenses	5.03	5.49	6.10	6.65	7.25	7.91
	<i>Add prior period</i>	<i>0.28</i>	-	-	-	-	-
	<i>Add Apportionment of MeECL Expense</i>	<i>61.78</i>	<i>58.49</i>	<i>56.21</i>	<i>64.69</i>	<i>72.33</i>	<i>73.87</i>
	Total expenses	67.09	63.98	62.31	71.34	79.58	81.78

Name of the Licensee: MePDCL

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VALUE ASSETS AND DEPRECIATION: 2012-13

Rs. Cr

	Particulars	Opening GFA	Addition	Withdrawn	Closing GFA	Rate of Depreciation	Depreciation
1	Land	0.22	-	-	0.22	0.00%	-
2	Buildings	4.06	0.32	-	4.38	3.34%	0.32
3	Hydraulic works	0.01	-	-	0.01	5.28%	-
4	Other Civil works	1.41	0.93	-	2.34	3.34%	0.19
5	Plant & Machinery	18.54	17.60	-	36.14	5.81%	2.38
6	Lines & Cables	202.75	73.30	-	276.05	5.28%	17.00
7	Vehicles	0.34	-	-	0.34	9.50%	-
8	Furniture	0.84	0.04	-	0.88	6.33%	0.05
9	Office equipment	1.44	0.04	-	1.48	6.33%	0.09
	TOTAL:	229.61	92.23	-	321.84		20.03

VALUE ASSETS AND DEPRECIATION: 2013-14

Rs. Cr

	Particulars	Opening GFA	Addition	Withdrawn	Closing GFA	Rate of Depreciation	Depreciation
1	Land	0.22	0.17	-	0.39	0.00%	-
2	Buildings	4.38	-	-	4.38	3.34%	0.14
3	Hydraulic works	0.01	-	-	0.01	5.28%	-
4	Other Civil works	2.34	-	-	2.34	3.34%	0.08
5	Plant & Machinery	36.14	8.05	-	44.19	5.81%	2.09
6	Lines & Cables	276.05	20.34	-	296.39	5.28%	13.92
7	Vehicles	0.34	-	-	0.34	9.50%	-
8	Furniture	0.88	0.01	-	0.89	6.33%	0.04
9	Office equipment	1.48	0.06	-	1.54	6.33%	0.09
	TOTAL:	321.84	28.63	-	350.47		16.36

VALUE ASSETS AND DEPRECIATION: 2014-15

Rs. Cr

	Particulars	Opening GFA	Addition	Withdrawn	Closing GFA	Rate of Depreciation	Depreciation
1	Land	0.39	-	-	0.39	0.00%	-
2	Buildings	4.38	14.19	-	18.57	3.34%	0.34
3	Hydraulic works	0.01	-	-	0.01	5.28%	0.00
4	Other Civil works	2.34	21.48	-	23.82	3.34%	0.39
5	Plant & Machinery	44.19	24.58	-	68.77	5.81%	2.95
6	Lines & Cables	296.39	12.91	-	309.30	5.28%	14.39
7	Vehicles	0.34	-	-	0.34	9.50%	0.03
8	Furniture	0.89	-	-	0.89	6.33%	0.05
9	IT Equipment	-	7.10	-	7.10	15.00%	0.48
10	Office equipment	1.54	-	-	1.54	6.33%	0.09
	TOTAL:	350.47	80.26	-	430.73		18.73

Name of the Licensee: MePDCL

Format-6

VALUE ASSETS AND DEPRECIATION: 2015-16

Rs. Cr

	Particulars	Opening GFA	Addition	Withdrawn	Closing GFA	Rate of Depreciation	Depreciation
1	Land	0.39	-	-	0.39	0.00%	-
2	Buildings	18.57	4.31	-	22.88	3.34%	0.62
3	Hydraulic works	0.01	-	-	0.01	5.28%	0.00
4	Other Civil works	23.82	32.81	-	56.63	3.34%	1.21
5	Plant & Machinery	68.77	191.14	-	259.91	5.81%	8.59
6	Lines & Cables	309.30	44.34	-	353.64	5.28%	15.75
7	Vehicles	0.34	-	-	0.34	9.50%	0.03
8	Furniture	0.89	-	-	0.89	6.33%	0.05
9	IT Equipment	7.10	1.55	-	8.64	15.00%	1.06
10	Office equipment	1.54	1.55	-	3.09	6.33%	0.13
	TOTAL:	430.73	275.69	-	706.43		27.44

VALUE ASSETS AND DEPRECIATION: 2016-17

Rs. Cr

	Particulars	Opening GFA	Addition	Withdrawn	Closing GFA	Rate of Depreciation	Depreciation
1	Land	0.39	12.00	-	12.39	0.00%	-
2	Buildings	22.88	7.47	-	30.35	3.34%	0.80
3	Hydraulic works	0.01	-	-	0.01	5.28%	0.00
4	Other Civil works	56.63	8.84	-	65.47	3.34%	1.84
5	Plant & Machinery	259.91	114.40	-	374.31	5.81%	16.57
6	Lines & Cables	353.64	84.57	-	438.21	5.28%	18.81
7	Vehicles	0.34	-	-	0.34	9.50%	0.03
8	Furniture	0.89	-	-	0.89	6.33%	0.05
9	IT Equipment	8.64	-	-	8.64	15.00%	1.17
10	Office equipment	3.09	-	-	3.09	6.33%	0.18
	TOTAL:	706.43	227.27	-	933.70		39.44

VALUE ASSETS AND DEPRECIATION: 2017-18

Rs. Cr

	Particulars	Opening GFA	Addition	Withdrawn	Closing GFA	Rate of Depreciation	Depreciation
1	Land	12.39	-	-	12.39	0.00%	-
2	Buildings	30.35	-	-	30.35	3.34%	0.91
3	Hydraulic works	0.01	-	-	0.01	5.28%	0.00
4	Other Civil works	65.47	33.92	-	99.39	3.34%	2.48
5	Plant & Machinery	374.31	181.88	-	556.19	5.81%	24.31
6	Lines & Cables	438.21	17.23	-	455.45	5.28%	21.23
7	Vehicles	0.34	-	-	0.34	9.50%	0.03
8	Furniture	0.89	-	-	0.89	6.33%	0.05
9	IT Equipment	8.64	-	-	8.64	15.00%	1.17
10	Office equipment	3.09	-	-	3.09	6.33%	0.18
	TOTAL:	933.70	233.03	-	1,166.72		50.35

Format-7

Name of the Licensee: MePDCL

Interest on Loan

FY 2012-13							Rs. Lac
Sl. No.	Particulars	Opening Balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	REC (RGGVY)	3,583.00	-	279.24	-	3,862.24	441.40
2	REC (Reschld)	4,521.40	-	51.53	74.21	4,498.72	580.61
3	PFC (R-APDRP)	1,019.40	-	-	-	1,019.40	91.74
4	PFC (R-APDRP) Part II						
5	PFC						
6	State Govt. Loan	-	-	-	-	-	-
7							
	Total	9,123.80	-	330.77	74.21	9,380.36	1,113.75
	Finance Charge						40.43
	Total						1,154.18

FY 2013-14							Rs. Lac
Sl. No.	Particulars	Opening Balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	REC (RGGVY)	3,862.24	-	201.67	50.73	4,013.18	501.85
2	REC (Reschld)	4,498.72	-	-	73.12	4,425.60	651.38
3	PFC (R-APDRP)	1,019.40	-	-	-	1,019.40	91.74
4	PFC (R-APDRP) Part II						
5	PFC						
6	State Govt. Loan	-	-	262.59	-	262.59	11.43
7							
	Total	9,380.36	-	464.26	123.85	9,720.77	1,256.40
	Finance Charge						14.18
	Total						1,270.58

Format-7

Name of the Licensee: MePDCL

Interest on Loan

FY 2014-15							Rs. Lac
Sl. No.	Particulars	Opening Balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	REC (RGGVY)	4,013.18	12.7%	295.00	68.07	4,240.11	525.93
2	REC (Reschld)	4,425.60	0.0%	-	69.88	4,355.72	678.11
3	PFC (R-APDRP)	1,019.40	9.0%	453.00	-	1,472.40	112.12
4	PFC (R-APDRP) Part II	-	9.0%	4,792.00	-	4,792.00	215.64
5	PFC						
6	State Govt. Loan	262.59	9.3%	279.34	-	541.93	37.45
7							
	Total	9,720.77		5,819.34	137.95	15,402.16	1,569.25
	Finance Charge						
	Total						1,569.25

FY 2015-16							Rs. Lac
Sl. No.	Particulars	Opening Balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	REC (RGGVY)	4,240.11	12.7%	-	406.39	3,833.72	514.49
2	REC (Reschld)	4,355.72	0.0%	-	82.07	4,273.65	733.92
3	PFC (R-APDRP)	1,472.40	9.0%	1,802.00	-	3,274.40	213.59
4	PFC (R-APDRP) Part II	4,792.00	9.0%	-	-	4,792.00	431.28
5	PFC	25,000.00	12.5%	-	-	25,000.00	3,125.00
6	State Govt. Loan	541.93	9.3%	211.30	-	753.23	60.29
7							
	Total	40,402.16		2,013.30	488.46	41,927.00	5,078.58
	Finance Charge						
	Total						5,078.58

Note:

Interest on PFC loan taken based on information received from PFC

Interest on State Govt Loan is taken as per present interest rate

Format-7

Name of the Licensee: MePDCL

Interest on Loan

FY 2016-17							Rs. Lac
Sl. No.	Particulars	Opening Balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	REC (RGGVY)	3,833.72	12.7%	-	406.39	3,427.33	462.70
2	REC (Reschld)	4,273.65	0.0%	-	429.50	3,844.15	386.50
3	PFC (R-APDRP)	3,274.40	9.0%	123.00	-	3,397.40	300.21
4	PFC (R-APDRP) Part II	4,792.00	9.0%	4,792.00	-	9,584.00	646.92
5	PFC	25,000.00	12.5%	-	6,250.00	18,750.00	2,734.38
6	State Govt. Loan	753.23	9.3%	176.93	-	930.16	78.36
7							
	Total	41,927.00		5,091.93	7,085.89	39,933.04	4,609.07
	Finance Charge						
	Total						4,609.07

FY 2017-18							Rs. Lac
Sl. No.	Particulars	Opening Balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	REC (RGGVY)	3,427.33	0.13	-	406.39	3,020.94	410.91
2	REC (Reschld)	3,844.15	-	-	538.78	3,305.37	277.22
3	PFC (R-APDRP)	3,397.40	0.09	-	-	3,397.40	305.75
4	PFC (R-APDRP) Part II	9,584.00	0.09	6,389.00	-	15,973.00	1,150.07
5	PFC	18,750.00	0.13	-	6,250.00	12,500.00	1,953.13
6	State Govt. Loan	930.16	0.09	44.46	-	974.61	88.67
7							
	Total	39,933.04		6,433.46	7,195.17	39,171.32	4,185.73
	Finance Charge						
	Total						4,185.73

Note:

*Interest on PFC loan taken based on information received from PFC
Interest on State Govt Loan is taken as per present interest rate*

Format- 8

Name of the Licensee: MePDCL

INTEREST CAPITALISED

Rs. Lacs

S.N.	Interest capitalized	FY 2012-13 (Provisional)	FY 2013-14 (Provisional)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
1	WIP	42,811.75	47,749.00	60,003.71	65,181.23	90,802.16	104,929.12
2	GFA at the end of the year	32,184.00	35,047.00	43,073.25	70,642.63	93,369.82	116,672.47
3	WIP+GFA at the end of the year	74,995.75	82,796.00	103,076.96	135,823.86	184,171.98	221,601.59
4	Interest (Excluding interest on WCL)	-	-	-	-	-	-
5	Interest Capitalised	-	-	-	-	-	-

WIP=Work -in - Progress
GFA=Gross Fixed Assets
WCL=Working Capital Loan

Format- 9

Name of the Licensee: MePDCL

INFORMATION REGARDING RESTRUCTURING OF OUTSTANDING LOANS DURING THE YEAR

(Rs. in lakhs)

S.N	Source of loan	Amount of original loan	Old rate of interest (%)	Amount already restructured	Revised rate of interest (%)	Amount now being restructured	New rate of interest (%)
1	2	3	4	5	6	7	8
NA							

Format- 10

Name of the Licensee: MePDCL

INFORMATION REGARDING REVENUE FROM OTHER BUSINESS

S.N	Particulars	Rs. Lacs	
		FY 2015-16 to FY 2017-18	
1	Total Revenue from other business	2,678.00	
2	Income from other business to be considered for licenses business as per regulations	2,678.00	

Format- 11

Name of the Licensee: MePDCL

INFORMATION REGARDING WORKING CAPITAL-MePGCL Old Stations

S.N	Particulars	Rs. Lacs	
		FY 2014-15 (Estimated)	FY 2015-16 (Estimated)
1	Power Purchase Cost for One Month*	6264.25	4,756.39
2	One month O & M Cost	1,273.58	1,483.03
3	Two Months Receivables	15,649.97	16,765.55
4	Total	16,923.55	18,248.58

* Includes Transmission Cost

Format- 12

Name of the Licensee: MePDCL

INFORMATION REGARDING FOREIGN EXCHANGE RATE VARIATION (FERV)

(Rs. in lakhs)

S.N	Particulars	Amount
1	2	3
1	Amount of liability provided	NA
2	Amount recovered	
3	Amount adjusted	

Format- 13

Name of the Licensee: MePDCL

**INFORMATION REGARDING WHOLESALE PRICE INDEX (ALL COMMODITIES)
(to be supplied with documentary evidence)**

(Rs. in lakhs)

S.N	Period	WPI	Increase over
1	2	3	4
1	As on April 1 of previous years N-1, N-2	NA	NA
2	As on April 1 of current year N		
3	As on April 1 of ensuing years N+1, N+2, N+3		

Format- 14 (A)

Name of the Licensee: MePDCL

A. ESTIMATED REVENUE AT EXISTING TARIFF (LT)

S. No	Category	Connected Load (KW)	Fixed Charges per KW (Rs.)	Total Fixed Charges (Rs. Lacs)	Slab in the Category	Sale in each Slab (MU)	Existing Tariff Rate (Paise/Kwh)	Amount (in Lac)	Total Amount (in Lac)	Average tariff for the year (Paise/kWahr)
1	Domestic (DLT)	322,704.45	40							
	<i>First 100 Units</i>			705.67		172.11	290	4,991.13	5,696.80	3.31
	<i>Next 100 Units</i>			389.02		94.88	340	3,225.95	3,614.97	3.81
	<i>Above 200 Units</i>			454.29		110.80	440	4,875.15	5,329.44	4.81
2	Commercial (CLT)	59,922.74	80							
	<i>First 100 Units</i>			173.74		18.88	500	944.25	1,117.99	5.92
	<i>Above 100 Units</i>			401.52		43.64	580	2,531.30	2,932.81	6.72
3	Industrial (ILT)	10,082.87	80	96.80		5.54	475	263.06	359.85	6.50
4	Agriculture (AP)	233.77	45	1.26		0.11	200	2.19	3.45	3.16
5	Public Lighting (PL)	347.62	80	3.34		1.49	540	80.50	83.84	5.62
6	Water Supply (WSLT)	6,048.92	80	58.07		10.94	540	590.83	648.90	5.93
7	General Purpose	11,432.86	80	109.76		29.09	540	1,570.81	1,680.57	5.78
8	Kutir Jyoti	17,289.96	90	82.49		23.67	225	468.64	551.14	2.33
9	Crematorium	127.50	5800	0.70		0.19	335	6.43	7.13	3.71
	Total (LT)	428,190.69		2,476.65		511.35		19,550.24	22,026.88	

Format- 14 (B)

Name of the Licensee: MePDCL

B. ESTIMATED REVENUE AT EXISTING TARIFF (HT)

S. No	Category	Contract Demand (kVA)	Billing Demand (KVA)	Sale of Energy (MU)	Fixed Charge (Rs / kVA)	Energy Charges (Ps / kWH)	Total Fixed Charges (Rs. Lacs)	Total Energy Charges	Grand Total amount for the category	Average tariff for the year (Paise/kWhr)
1	Domestic (HT)	17,986.40	13,489.80	22.57	150	510	242.82	1,150.87	1,393.68	6.18
2	Water Supply (WS HT)	8,310.14	6,232.60	30.17	150	510	112.19	1,810.13	1,922.32	6.37
3	Bulk Supply	41,332.30	30,999.23	53.63	150	510	557.99	2,734.88	3,292.87	6.14
4	Commercial (CHT)	24,934.29	18,700.72	18.53	150	525	336.61	1,144.72	1,481.33	7.99
5	Industrial (IHT)	97,705.77	73,279.33	226.46	150	524	1,319.03	13,960.86	15,279.89	6.75
	Total (HT)	190,268.91	142,701.68	351.36		2579.00	2,568.63	20,801.46	23,370.09	
	Total (LT+HT)	618,459.60	142,701.68	862.71			2,568.63	40,351.70	45,396.98	

Format- 14 (C)

Name of the Licensee: MePDCL

B. ESTIMATED REVENUE AT EXISTING TARIFF (EHT)

S. No	Category	Contract Demand (kVA)	Billing Demand (KVA)	Sale of Energy (MU)	Fixed Charge (Rs / kVA)	Energy Charges (Ps / kWh)	Total Fixed Charges (Rs. Lacs)	Total Energy Charges	Grand Total amount for the category	Average tariff for the year (Paise/kWhr)
1	Industrial (IEHT)	69,440.00	52,080.00	149.14	150	510	937.44	8,948.56	9,886.00	6.63
	Total (EHT)	69,440.00	52,080.00	149.14			937.44	8,948.56	9,886.00	
	Total (LT+HT+EHT)	687,899.60	194,781.68	1,011.85			3,506.07	49,300.25	55,282.97	

Format- 14 (D)

Name of the Licensee: MePDCL

B. ESTIMATED REVENUE AT EXISTING TARIFF (Other)

S. No	Category	Contract Demand (kVA)	Billing Demand (KVA)	Sale of Energy (MU)	Fixed Charge (Rs / kVA)	Energy Charges (Ps / kWh)	Total Fixed Charges (Rs. Lacs)	Total Energy Charges	Grand Total amount for the category	Average tariff for the year (Paise/kWhr)
1	Assam (GP)	2,514.71	1,886.03	18.25	150	510	33.95	1,095.05	1,129.00	6.19
	Total (Others)	2,514.71	1,886.03	18.25			33.95	1,095.05	1,129.00	
	Total	690,414.31	196,667.71	1,030.10			3,540.02	50,395.30	56,411.97	

Name of the Licensee: MePDCL

Form-15

Investment Plan (Ongoing/New Projects)

(Rs. in lakhs)

S.N	Name of Scheme/ Project	Approved Outlay	FY 2012-13 (Actual)	FY 2013-14 (Actual)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)	Progressive Expenditure upto FY 2017-18
1	2	3	4	5	6	7	8	9	10
1	RAPDRP Part-A	3274	500.00	71.00	772.00	1,802.00			3,274.00
2	RAPDRP Part-B	15973			4,792.00	6,708.60	4,472.40		15,973.00
	North East Region Power System Improvement Project								
3	Construction of New 33/11 KV 2 x 10 MVA s/s at Mawpat with two nos. 33kV line bay								
4	Construction of New 33/11 KV 2 x 10 MVA s/s at New Shillong with one no. 33kV line bay								
5	Construction of New 33/11 KV 2 x 7.5 MVA s/s at Mawryngkneng with three nos. 33kV line bay								
6	Construction of New 33/11 KV 2 x 5 MVA s/s at Mawkynrew with one no. 33kV line bay								
7	Replacement of existing SE Falls 2 x 5 MVA SubStation by 2 x 10 MVA								
8	New line from New Shillong 220/132/33 kV SS to Mawpat 33/11 kV New SS, 25 ckm Wolf								
9	New line from New Shillong 220/132/33 kV SS to New Shillong 33/11 kV SS, 6 ckm Wolf								
10	New line from Mawpat 33/11 kV New SS to Existing SE Falls SS, 10 ckm Wolf	5,164.00				2065.60	1549.20	1032.80	4,647.60
11	New line from Mawryngkneng 33/11 kV SS to New Shillong 220/132/33 kV SS, 26 ckm Wolf								
12	New line from Mawkynrew 33/11 kV SS to Existing Jongksha SS, 8 ckm Wolf								
13	LULO of Existing Jowai-Landnongkrem Line at New Mawryngkneng, 4 ckm Wolf								
14	Reconductoring of 33kV existing Jowai-Landnongkrem-Jongksha Line, 35 Km Racocon to Wolf.								
15	Addition of 33kV line bay in Existing 33/11kV SE Falls SS								
16	Addition of 33kV line bay in Existing 33/11kV Jongksha SS								
17	Fibre Optic Cable installation on above line 45KM OPGW & 69 KM Aerial FO Cable								
18	Telecom Equipment under DMS package								

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

Name of the licensee: MeDCL

Investment Plan (Ongoing/New Projects)

(Rs. in lakhs)

S.N	Name of Scheme/ Project	Approved Outlay	FY 2012-13 (Actual)	FY 2013-14 (Actual)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)	Progressive Expenditure upto FY 2017-18
19	Construction of new 33/11 KV 2 x 5 MVA SS at Mynkre with one 33kV line bay	5037							
20	Construction of new 33/11 KV 1 x 5 MVA SS at Rymbai with one 33kV line bay								
21	Construction of new 33/11 KV 1 x 5 MVA SS at Lumshnong with One 33kV line bay								
22	Construction of new 33/11 KV 2 x 10 MVA SS at Latyrke with One 33kV line bay								
23	Construction of new line from New Mynkre 132/33 kV SS to New Mynkre 33/11 kV, 6 ckm Wolf					2014.8	1511.1	1007.4	4533.3
24	Construction of new line from Mynkre 132/33 kV SS to New Rymbai 33/11 kV SS, 15 ckm Wolf								
25	Construction of new line from Mynkre 132/33 kV SS to Lumshnong 33/11 kV SS, 10 ckm Wolf								
26	Construction of new line from Mynkre 132/33 kV SS to New Latyrke 33/11 kV SS, 25 ckm Wolf								

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

Name of the Licensee: MePDCL

Investment Plan (Ongoing/New Projects)

(Rs. in lakhs)

S.N	Name of Scheme/ Project	Approved Outlay	FY 2012-13 (Actual)	FY 2013-14 (Actual)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)	Progressive Expenditure upto FY 2017-18
27	Construction of New 33/11 KV 1 x 5 MVA SS at Rajballa Bhaitbari with one 33 kV Line Bay								
28	Construction of New 33/11 KV 1 x 5 MVA SS at Chibinang with One 33kV line bay								
29	Construction of New 33/11 KV 1 x 5 MVA SS at Raksamgre with One 33kV line bay								
30	Construction of New line from Phulbari 132/33 SS to New Rajballa Bhaitbari SS, 10 ckm Wolf								
31	New Phulbari 132/33 SS to New Chibinang SS, 6 ckm Wolf								
32	Construction of New line from Phulbari 132/33 SS to Existing 33/11 kV Phulbari SS , 6 ckm Wolf								
33	New Phulbari 132/33 SS to Existing 33 kV Tikrila-Existing Phulbari Line (Patch Line), 6 ckm Wolf	7619				3047.6	2285.7	1523.8	6857.1
34	Construction of New line from Raksamgre 33/11 kV SS to Existing Tikrila 33/11 kV SS , 35 ckm Wolf								
35	Augmentation of Existing Phulbari 33/11 kV SS. Replacement of 2 x 2.5 MVA with 2 X 5 MVA capacity.								
36	Reconductoring part of existing 33 kV Tikrila-Existing Phulbari Line (Only Conductor and H/W), 30 ckm Racocon to Wolf.								
37	Addition of 33kV line bay in Existing 33/11kV Tikrikilla								
38	Addition of 33kV line bay in Existing 33/11kV Phulbari								
39	Fibre Optic Cable installation on above line 58KM OPGW & 85 KM Aerial FO Cable								

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

Form-15

Name of the Licensee: MeDCL

Investment Plan (Ongoing/New Projects)

(Rs. in lakhs)

S.N	Name of Scheme/ Project	Approved Outlay	FY 2012-13 (Actual)	FY 2013-14 (Actual)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)	Progressive Expenditure upto FY 2017-18
40	Pre-Paid Metering	688		0	293	197.5	197.5	0	688
41	Construction of new 33KV D/C line on Wolf Conductor from 132/33KV Mawphlang S/s to 33/11KV Air Force Sub-station via 33/11 KV PHE, GSWS S/s Mawphlang with terminal equipments at PHE Mawphlang and Air Force Sub-station (Phase-I)	320			192	128			320
42	Construction of new D/C line on Wolf Conductor from Dakopgre to Praharinagar and construction of 33/11 KV, 2.5 MVA S/s at Praharinagar with Control Room	120			72	48			120
43	Construction of new D/C line on Wolf Conductor from Dakopgre to Praharinagar and construction of 33/11 KV, 2.5 MVA S/s at Praharinagar with Control Room (Phase -II)	170				119	51		170
44	Construction of new 33KV line alongwith 33/11 KV, 2.5 MVA S/s at Bajengdoba No.2	220			110	66	44		220
45	Construction of new 33/11 KV, 2.5 MVA S/s at Bajengdoba No.2 to include installation of 2nd 2.5 MVA Transformer, extension of 2 outgoing feeders and extension of control room (Phase-II)	100					70	30	100
46	Renovation, re-engineering and reconductoring of the 33KV Nangalbibra – Baghmara line	45			31.5	13.5			45
47	Shifting of 33KV line from Lailad to Nongladew	63		40	23				63
48	Re-engineering and reconductoring of 33KV Happy Valley line from ACSR Raccoon to Wolf Conductor from 4(four) pole structure Belfonte upto 3(three) pole structure at Lapalang	45			31.5	13.5			45
49	Construction of 33KV line to evacuate power from 132/33 KV Ampati Substation to different locations	147		117.6	29.4				147

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

Name of the Licensee: MePDCL

Investment Plan (Ongoing/New Projects)

(Rs. in lakhs)

S.N	Name of Scheme/ Project	Approved Outlay	FY 2012-13 (Actual)	FY 2013-14 (Actual)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)	Progressive Expenditure upto FY 2017-18
50	Procurement of Insulated Rubber matting for substation	132			11	121			132
51	Construction of new 33KV D/C line on Wolf Conductor from 132/33KV Mawphlang S/s to 33/11KV Air Force Sub-station via 33/11KV Air Force via 33/11 KV PHE, GSWS S/s Mawphlang with terminal equipments at PHE Mawphlang and Air Force Sub-station (Phase-II)	380				266	114		380
52	Construction of 33/11 KV, 2x5 MVA S/s with Control Room at Nangalbibra including re-alignment of the existing 11KV feeder to shift them to new substation	321				224.7	96.3		321
53	Construction of new 33KV line from Killing to Khanapara and installation of 33/11KV, 5MVA substation at Khanapara.	284				198.8	85.2		284
54	Installation and Replacement of Meters	334		262	72				334
55	Construction of the 33 KV line from Khliehtyrshi to Wahiajer alongwith 1x5 MVA substation at Wahiajer with Control Room (Jaintia Hills)	340			160	120	60.37		340.37
56	Construction of the 33 KV line from Byrnihat to Nongpoh with provision for double circuit line	445			160	284.55			444.55
57	Construction of the 33/11 KV, 10MVA unmanned substation at Lapalang (Shillong)	275		50	100	125			275
58	Construction of a manned 33/11 kV, 2* 10 MVA Substation at Khliehriat(Moowakhu)	427				298.9	128.1		427
59	Augmentation/Installation of additional Transformer of a Manned 33/11 KV s/s 1X5 Substation at Nongpoh	215				150.5	64.5		215

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

Name of the Licensee: MeDCL

Form-15

Investment Plan (Ongoing/New Projects)

S.N	Name of Scheme/ Project	Approved Outlay	FY 2012-13 (Actual)	FY 2013-14 (Actual)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)	(Rs. in lakhs)
									Progressive Expenditure upto FY 2017-18
60	Construction of the 33/11 KV, 1X2.5 MVA Mawmihthied substation along with construction of 33KV at Mawmihthied	361				252.7	108.3		361
61	Augmentation of 33/11 kV SS 1 x 1.6 MVA with 2 X 2.5 MVA Substation at Mawkyrwat	53				36.75	15.75		52.5
62	Construction of 11KV outgoing feeders at 33/11 KV Gonglanggre Substation in Garobadha	186				130.053	55.737		185.79
63	Renovation and Modernisation of 33/11 KV, 2X2.5 MVA Baghmara Substation	258				180.6	77.4		258
64	Renovation and Modernisation of 33/11 KV Substations within Greater Shillong including AMC of associated equipments	1000					500	500	1000
65	Construction of 33KV line from Mawmaram to Mawmih alongwith 33/11KV, 2.5MVA substation at Mawmih.	120					80	40	120
66	Construction of 33/11KV, 1X2.5MVA substation at Rapleng including control and Switchgear	359					251.3	107.7	359
67	Shifting of 33KV Single Circuit Line from Umsohma to New Tasku (Phase-II)	20					14	6	20
68	Construction of 33KV line from 132/33KV Mustem Substation for evacuation of power	245					171.5	73.5	245
69	Improvement of power supply in Dadenggre Area by construction of new 33KV Single Circuit Line from Rongkhon to Dadenggre and Strengthening of the 11KV and LT Network	495					297	198	495
70	Augmentation/Reengineering of 33/11 KV 1X2.5 MVA DO controlled Substation to 2 X 2.5 MVA substation with control Room at Pynursla	385					231.162	154.108	385.27
71	Construction of New 33/11 KV 2 x 2.5MVA s/s with Control Room at Mawiong with strengthening re- commissioning of 33KV LILO of Umiam NEHU Mawlai Line	500					300	200	500
72	Deposit Work-FY 15	756.52			756.52				
73	Deposit Work-FY 16	307.01				307.01			307.01
74	Deposit Work NHA1	1235.64		494.256	247.128	247.128	247.128		1235.64

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

Name of the Licensee: MeDCL

Form-15

Investment Plan (Ongoing/New Projects)

(Rs. in lakhs)

S.N	Name of Scheme/ Project	Approved Outlay	FY 2012-13 (Actual)	FY 2013-14 (Actual)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)	Progressive Expenditure upto FY 2017-18
75	SPA/ ASPA/ NEC schemes	6521					1,956.30	1,956.30	3912.6
76	Power System Development Fund	1500				150	600	600	1350
77	Integrated Power Development Scheme	35000				3500	14000	14000	31500
78	Deendayal Upadhyaya Gram Jyoti Yojna	40000				4000	16000	16000	36000
	RGVY								
79	RGVY - Jaintia Hills	2830.62	12.86	87.15	174.76				2830.62
80	RGVY - Ri-Bhoi	1948.09	3.00	0.64	122.70				1948.09
81	RGVY - East Khasi Hills	1936.88	82.13	1.53	139.99				1936.88
82	RGVY- South Garo Hills	9230.34	1,197.39	851.48	2,872.96				9230.34
83	RGVY- West Garo Hills	13873.23	3,101.53	1,347.31	2,763.80				13873.23
84	RGVY - East Garo Hills	10191.80	2,275.10	689.17	3,744.00				10191.80
85	RGVY - West Khasi Hills	5795.27	1,227.78	527.77	1,361.80				5795.27
	Indo Bangla Border Flood Lighting								
86	IBBFL - Shillong sector	3107			1,242.90	1,864.34			3107.24
87	IBBFL -Tura sector	2329				1,397.21	931.48		2328.69
88	IBBFL -Williamnagar sector	2155				1,293.15	862.10		2155.25
89	IBBFL- Jowai Sector	2274				1364.4	909.6		2274
	Green City Project								
90	Green City- Solar Street Lighting Phase I	500			5				5
91	Green City- Solar Street Lighting Phase II	2000				10	10		20

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

Format- 16

Name of the Licensee: MePDCL

Investment Plan (Year - wise) for 2014-15, 2015-16, 2016-17, 2017-18

(Rs. in lakhs)

S.N	Year	Originally proposed by the Utility	Approved by the Commission	Revised by the Utility	Revised approval by the Commission in review	Actual expenditure
1	2	3	4	5	6	7
This is the 1st Control Period therefore this Format is not applicable						

Name of the Generating Company: MePGCL

WORKS-IN-PROGRESS

(Rs. in lakhs)

S.N	Particulars	FY 2012-13 (Provisional)	FY 2013-14 (Provisional)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
1	2	3	4	5	6	7	8
1	Opening balance	42,860.28	42,811.75	47,749.00	60,003.71	65,181.23	90,802.16
2	Add: New investments	8,847.90	7,630.29	20,280.96	32,746.90	48,348.12	37,429.61
3	Total	51,708.18	50,442.04	68,029.96	92,750.61	113,529.35	128,231.77
4	Less investment capitalised	8,896.43	2,693.04	8,026.25	27,569.38	22,727.19	23,302.65
5	Closing balance	42,811.75	47,749.00	60,003.71	65,181.23	90,802.16	104,929.12

Name of the Distribution Licensee: MePDCL

Format- D1

CONSUMER CATEGORY-WISE ENERGY SALES

S.N	Category of Consumers	FY 2012-13		FY 2013-14		FY 2014-15		FY 2015-16		FY 2016-17		FY 2017-18	
		No. of Consumers at the end of the year	Energy Sale (MU)	No. of Consumers at the end of the year	Energy Sale (MU)	No. of Consumers at the end of the year	Energy Sale (MU)	No. of Consumers at the end of the year	Energy Sale (MU)	No. of Consumers at the end of the year	Energy Sale (MU)	No. of Consumers at the end of the year	Energy Sale (MU)
1	2	3	4	5	6	7	8	7	8	7	8	7	8
	LT CATEGORY												
1	Domestic (DLT)	242241	331.75	265157	336.85	267086	356.56	278,742	377.79	290,906	400.28	303,601	424.12
2	Commercial (CLT)	18534	55.98	21579	70.98	21833	59.21	21,952	62.53	22,071	66.03	22,191	69.73
3	Industrial (ILT)	824	5.97	799	5.75	887	5.54	887	5.54	887	5.54	887	5.54
4	Agriculture (AP)	30	0.33	23	0.16	23	0.11	23	0.11	23	0.11	23	0.11
5	Public Lighting (PL)	60	1.32	64	1.31	40	1.46	40	1.49	40	1.52	40	1.56
6	Water Supply (WSLT)	346	7.97	371	8.47	376	9.95	393	10.94	411	12.04	430	13.24
7	General Purpose	2005	13.87	2154	19.69	2141	26.44	2,132	29.09	2,123	32.00	2,115	35.20
8	Kutir Jyoti	47135	13.44	59578	19.31	57826	21.52	63,609	23.67	69,969	26.04	76,966	28.64
	Crematorium	1	0.20	1	0.21	1	0.19	1	0.19	1	0.19	1	0.19
	HT CATEGORY												
9	Domestic (DHT)	66	20.36	73	21.97	69	21.71	72	22.57	75	23.46	79	24.39
10	Water Supply (WS HT)	27	27.70	28	29.03	27	29.51	27	30.17	27	30.84	28	31.53
11	Bulk Supply	153	67.56	159	72.92	148	53.63	148	53.63	148	53.63	148	53.63
12	Commercial (CHT)	122	18.81	166	18.67	179	17.92	197	18.53	217	19.16	238	19.82
13	Industrial (IHT)	145	273.71	143	286.29	142	226.46	143	226.46	145	226.46	146	226.46
	EHT CATEGORY												
	Industrial	10	203.03	8	160.70	8	149.14	8	149.14	8	149.14	8	149.14

Format- D2

Name of the Distribution Licensee: MePDCL

ENERGY BALANCE

(MU)

S. N.	Item	FY 2012-13 (Provisional)	FY 2013-14 (Provisional)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
A	ENERGY REQUIREMENT						
1	Energy sales within the State	1,041.99	1,052.31	979.35	1,011.85	1,065.37	1,102.91
2	Sales to common pool consumers						
3	Energy Sale to ASEB (33kV)	19.08	20.22	17.60	18.25	18.93	19.63
4	Short Term Sale+Swapping	144.87	309.71	535.00	471.52	629.29	733.98
5	Sales to other distribution licensees						
6	Total Sale within the state	1,061.09	1,072.53	996.95	1,030.10	1,084.30	1,122.54
7	Distribution Losses						
(i)	MU	427.17	398.18	379.92	369.70	372.02	374.58
(ii)	%	28.70%	27.07%	27.59%	26.41%	25.88%	25.35%
8	Total energy requirement (6+7(ii))	1,488.27	1,470.71	1,376.87	1,399.79	1,437.39	1,477.49
B	ENERGY AVAILABILITY						
1	Net thermal generation (own)	-					
2	Net Power Purchase from MePGCL	668.43	805.12	815.35	800.01	953.04	960.25
3	Net Power Purchase from a) Outside State	819.84	665.59	561.51	599.79	484.35	517.24
4	Net Power Purchase (1+2+3)	1,488.27	1,470.71	1,376.87	1,399.79	1,437.39	1,477.49

Name of the Licensee: MePDCL

Information regarding Distribution Loss and AT & C Loss of Licensee

S. No	Particulars	Calculation	Unit	FY 2012-13 (Provisional)	FY 2013-14 (Provisional)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
1	Generation (own as well as any other connected generation net after deducting auxiliary consumption) within area of supply of DISCOM	A	MU	668.43	805.12	815.35	800.01	953.04	960.25
2	Input energy (metered Import) received at interface points of DISCOM network	B	MU	819.84	665.59	561.51	599.79	484.35	517.24
3	Input energy (metered Export) by the DISCOM at interface point of DISCOM network	C	MU						
4	Total energy available for sale within the licensed area to the consumers of the DISCOM	D=A+B-C	MU	1,488.27	1,470.71	1,376.87	1,399.79	1,437.39	1,477.49
5	Energy billed to metered consumers within the licensed area of the DISCOM	E	MU	1,041.47	1,052.31	979.35	1,011.85	1,065.37	1,102.91
6	Energy billed to unmetered consumers within the licensed area of the DISCOM	F	MU						
7	Energy Sale to ASEB (33kV)			19.08	20.22	17.60	18.25	18.93	19.63
8	Total energy billed	G=E+F+ ASEB Sale	MU	1,060.55	1,072.53	996.95	1,030.10	1,084.30	1,122.54
9	Amount billed to consumer within the licensed area of DISCOM	H	Rs. Cr	434.93	459.99	495.00	888.86	<i>Tariff Not proposed hence no estimated Revenue Billed/ Collected Number</i>	
10	Amount realized by the DISCOM out of the amount Billed at H	I	Rs.Cr	453.61	443.11	485.10	871.08		
11	Collection efficiency (%) (=Revenue realized / Amount billed)	J=(I/H)X100	%	104.3%	96.3%	98.0%	98%	98.20%	98.40%
12	Energy realised by the DISCOM	K=JXG	MU	1106.09	1,033.19	977.01	1,009.50	NA	
13	Distribution Loss of MePDCL (%)	L=((D-G)/D)x100	%	28.74%	27.07%	27.59%	26.41%	25.88%	25.35%
14	AT&C Loss within MePDCL area (%)	M=((D-K)/D)x100	%	25.7%	29.75%	29.04%	27.88%	27.22%	26.55%
15	T & D Loss for the whole state (%)		%	31.59%	30.97%	30.97%	30.47%	29.97%	29.47%
16	AT & C Loss for the whole state (%)		%	28.65%	33.50%	32.35%	32.35%	31.86%	31.23%

Name of the Distribution Licensee: MePDCL

ENTITLEMENT FROM CENTRAL GENERATING STATIONS AND ENERGY PURCHASED FOR FY 2012-13

(MU)

S.N.	Station	Capacity (MW)	Firm allocation		Gen. (MU)	PLF %	Aux. Cons.	Energy sent out	Firm Energy entitlement	Actual Utilised
			%	MW						
1	2	3	4.00	5	6	7	8	10	11.00	12.00
1	NTPC									
	a) Faraka STPS	1,600	0.60	9.54					62.62	62.62
	b) Kahalgaon STPS - I	840	0.59	4.97					36.81	36.81
	c) Kahalgaon STPS -II	1,500	1.27	19.09					147.22	147.22
	d) Talcher STPS - I	1,000	0.60	5.96					43.29	43.29
2	NHPC									
	a) Loktak HEP	105	12.39	13.01					69.41	10.09
3	NEPCO									
	a) Kopili HEP	200	17.40	34.79					113.14	113.14
	b) Kopili - II HEP	25	13.68	3.42					12.60	12.60
	c) Khandong HEP	50	16.91	8.45					27.80	27.80
	d) Ranganadi HEP	405	11.51	46.6					141.16	141.16
	e) Doyang HEP	75	11.46	8.59					22.67	22.67
	f) AGBPP	291	11.82	34.38					192.24	130.39
	g) AGTPP	84	11.81	9.92					72.71	38.13
4	Other sources									
	a) GEPL								75.00	75.00
	b) NVVN (Swapping)								115.11	115.11
	c) PTCIL (Exchange)								6.19	6.19
	d) UI								74.55	74.55
	Total								1,212.52	1,056.77

Name of the Distribution Licensee: MePDCL

ENTITLEMENT FROM CENTRAL GENERATING STATIONS AND ENERGY PURCHASED FOR 2013-14

(MU)

S.N.	Station	Capacity (MW)	Firm allocation		Gen. (MU)	PLF %	Aux. Cons.	Energy sent out	Firm Energy entitlement	Actual Utilised
			%	MW						
1	2	3	4.00	5	6	7	8	10	11.00	12.00
1	MePGCL									
	a) Umiam Stage-I HEP	36	100.00	36.00					74.32	74.32
	b) Umiam Stage-II HEP	20	100.00	20.00					39.02	39.02
	c) Umiam Stage-III HEP	60	100.00	60.00					127.52	127.52
	d) Umiam Stage-IV HEP	60	100.00	60.00					168.00	168.00
	e) Sonapani	2	100.00	1.50					5.10	5.10
	f) Umtru HEP	11	100.00	11.20					18.73	18.73
	g) Myntdu-Leishka HEP	126	100.00	126.00					405.98	405.98
2	NTPC									
	a) Faraka STPS	1,600	0.60	9.54					73.92	73.92
	b) Kahalgaon STPS - I	840	0.59	4.97					38.52	38.52
	c) Kahalgaon STPS -II	1,500	1.27	19.09					157.25	157.25
	d) Talcher STPS - I	1,000	0.60	5.96					42.90	42.90
3	NHPC									
	a) Loktak HEP	105	12.39	13.01					76.13	67.40
4	NEPCO									
	a) Kopili HEP	200	17.40	34.79					122.74	122.74
	b) Kopili - II HEP	25	13.68	3.42					10.58	10.58
	c) Khandong HEP	50	16.91	8.45					30.09	30.09
	d) Ranganadi HEP	405	11.51	46.6					112.53	55.75
	e) Doyang HEP	75	11.46	8.59					26.75	23.88
	f) AGBPP	291	11.82	34.38					200.13	13.62
	g) AGTPP	84	11.81	9.92					74.37	6.26
5	OTPC									
	a) Pallatana	363	10.88	39.53					66.71	66.71
6	Other sources									
	a) MPPL (Swapping)								187.92	187.92
	b) NVVN (Swapping)								15.93	15.93
	c) PTCIL (Exchange)								12.64	12.64
	d) MPL (Swapping)								11.32	11.32
	e) UI								91.33	91.33
	Total								2,190.43	1,867.43

Name of the Distribution Licensee: MePDCL

ENTITLEMENT FROM CENTRAL GENERATING STATIONS AND ENERGY PURCHASED FOR FY 2014-15

(MU)

S.N.	Station	Capacity (MW)	Firm allocation		Gen. (MU)	PLF %	Aux. Cons.	Energy sent out	Firm Energy entitlement	Actual Utilised
			%	MW						
1	2	3	4.00	5	6	7	8	10	11.00	12.00
1	MePGCL									
	a) Umiam Stage-I HEP	36	100.00	36.00					94.25	94.25
	b) Umiam Stage-II HEP	20	100.00	20.00					50.13	50.13
	c) Umiam Stage-III HEP	60	100.00	60.00					115.22	115.22
	d) Umiam Stage-IV HEP	60	100.00	60.00					162.37	162.37
	e) Sonapani	2	100.00	1.50					5.45	5.45
	f) Umtru HEP	11	100.00	11.20					10.78	10.78
	g) Myntdu-Leishka HEP	126	100.00	126.00					424.70	424.70
2	NTPC									
	a) Faraka STPS	1,600	0.60	9.54					73.11	40.11
	b) Kahalgaon STPS - I	840	0.59	4.97					33.48	18.48
	c) Kahalgaon STPS -II	1,500	1.27	19.09					154.78	82.78
	d) Talcher STPS - I	1,000	0.60	5.96					44.99	21.99
3	NHPC									
	a) Loktak HEP	105	12.39	13.01					62.00	
4	NEPCO									
	a) Kopili HEP	200	17.40	34.79					105.08	105.08
	b) Kopili - II HEP	25	13.68	3.42					9.90	9.90
	c) Khandong HEP	50	16.91	8.45					19.54	19.54
	d) Ranganadi HEP	405	11.51	46.6					130.74	122.06
	e) Doyang HEP	75	11.46	8.59					20.58	20.17
	f) AGBPP	291	11.82	34.38					198.87	177.17
	g) AGTPP	84	11.81	9.92					71.70	65.47
5	OTPC									
	a) Pallatana	363	10.88	39.53					251.26	251.26
6	Other sources									
	a) Swapping								202.72	202.72
	b) UI+Bilateral+Exchange								33.49	33.49
	Total								2,275.14	2,033.12

Name of the Distribution Licensee: MePDCL

ENTITLEMENT FROM CENTRAL GENERATING STATIONS AND ENERGY PURCHASED FOR FY 2015-16

(MU)

S.N.	Station	Capacity (MW)	Firm allocation		Gen. (MU)	PLF %	Aux. Cons. %	Energy sent out	Firm Energy entitlement	Actual Utilised
			%	MW						
	NTPC									
1	Farakka	1,600	1%	8.443		72.0%	8.5%		24.36	24.36
2	Kahalgaon I	840	1%	4.4326		71.0%	8.5%		12.61	12.61
3	Kahalgaon II	1,500	1%	22.063		71.0%	8.5%		62.78	62.78
4	Talcher	1,000	1%	5.2769		82.0%	10.5%		16.96	16.96
5	Bongaigaon	750	7%	54		71.0%	8.5%		-	-
	OTPC Pallatana	727		79		73.4%	2.5%		346.68	346.68
	NEEPCO									
1	Kopili Stage-I	200	17%	34.79					82.23	82.23
2	Kopili Stage-II	25	14%	3.4188					8.48	8.48
3	Khandong HEP	50	17%	8.4525					17.53	17.53
4	Ranganadi HEP	405	12%	46.595					131.25	131.25
5	Doyang HEP	75	11%	8.5913					23.65	23.65
6	AGBPP	291	12%	34.376		63.9%	2.5%		187.65	187.65
7	AGTTP	84	12%	9.9246		82.2%	2.5%		69.71	69.71
8	Free Power								58.99	58.99
9	AGTTP C-Cycle	51	10%	5		85%	2.5%		36.30	36.30
	NHPC Loktak	105	12%	13.013					50.63	50.63
	MePGCL									
1	Sonapani	2	100%	1.5		45%	1%		5.85	5.85
2	Lakroh	2		1.5		45%	1%		-	-
3	Umiam Stage-I HEP	36		36					100.46	100.46
4	Umiam Stage-II HEP	20		20					50.23	50.23
5	Umiam Stage-III HEP	60		60					65.85	65.85
6	Umiam Stage-IV HEP	60		60					191.17	191.17
7	Umtru HEP	11		11.2					22.89	22.89
8	Myntdu Leshka HEP	126		126					410.22	410.22
9	New Umtru HEP	40		40		44%	1%		-	-
	Total	8,059		693.58					1,976.47	1,976.47

Name of the Distribution Licensee: MePDCL

ENTITLEMENT FROM CENTRAL GENERATING STATIONS AND ENERGY PURCHASED FOR FY 2016-17

(MU)

S.N.	Station	Capacity (MW)	Firm allocation		Gen. (MU)	PLF %	Aux. Cons.	Energy sent out	Firm Energy entitlement	Actual Utilised
			%	MW						
	NTPC									
1	Farakka	1,600	1%	8.443		72.0%	8.5%		24.36	24.36
2	Kahalgaon I	840	1%	4.4326		71.0%	8.5%		12.61	12.61
3	Kahalgaon II	1,500	1%	22.063		71.0%	8.5%		62.78	62.78
4	Talcher	1,000	1%	5.2769		82.0%	10.5%		16.96	16.96
5	Bongaigaon	750	7%	54		71.0%	8.5%		86.94	86.94
	OTPC Pallatana	727		79		73.4%	2.5%		346.68	346.68
	NEEPCO									
1	Kopili Stage-I	200	17%	34.79					82.23	82.23
2	Kopili Stage-II	25	14%	3.4188					8.48	8.48
3	Khandong HEP	50	17%	8.4525					17.53	17.53
4	Ranganadi HEP	405	12%	46.595					131.25	131.25
5	Doyang HEP	75	11%	8.5913					23.65	23.65
6	AGBPP	291	12%	34.376		63.9%	2.5%		187.65	187.65
7	AGTTP	84	12%	9.9246		82.2%	2.5%		69.71	69.71
8	Free Power								58.99	58.99
9	AGTTP C-Cycle	51	10%	5		85%	2.5%		36.30	36.30
	NHPC Loktak	105	12%	13.013					-	-
	MePGCL									
1	Sonapani	2	100%	1.5		45%	1%		5.85	5.85
2	Lakroh	2		1.5		45%	1%		5.85	5.85
3	Umiam Stage-I HEP	36		36					100.46	100.46
4	Umiam Stage-II HEP	20		20					50.23	50.23
5	Umiam Stage-III HEP	60		60					65.85	65.85
6	Umiam Stage-IV HEP	60		60					191.17	191.17
7	Umtru HEP	11		11.2					22.89	22.89
8	Myntdu Leshka HEP	126		126					410.22	410.22
9	New Umtru HEP	40		40		44%	1%		156.10	156.10
	Total	8,059		693.58					2,174.75	2,174.75

Name of the Distribution Licensee: MePDCL

ENTITLEMENT FROM CENTRAL GENERATING STATIONS AND ENERGY PURCHASED FOR FY 2017-18

(MU)

S.N.	Station	Capacity (MW)	Firm allocation		Gen. (MU)	PLF %	Aux. %	Energy sent out	Firm Energy entitlement	Actual Utilised
			%	MW						
	NTPC									
1	Farakka	1,600	1%	8.443		72.0%	8.5%		24.36	24.36
2	Kahalgaon I	840	1%	4.4326		71.0%	8.5%		12.61	12.61
3	Kahalgaon II	1,500	1%	22.063		71.0%	8.5%		62.78	62.78
4	Talcher	1,000	1%	5.2769		82.0%	10.5%		16.96	16.96
5	Bongaigaon	750	7%	54		71.0%	8.5%		229.22	229.22
	OTPC Pallatana	727		79		73.4%	2.5%		346.68	346.68
	NEEPCO									
1	Kopili Stage-I	200	17%	34.79					82.23	82.23
2	Kopili Stage-II	25	14%	3.4188					8.48	8.48
3	Khandong HEP	50	17%	8.4525					17.53	17.53
4	Ranganadi HEP	405	12%	46.595					131.25	131.25
5	Doyang HEP	75	11%	8.5913					23.65	23.65
6	AGBPP	291	12%	34.376		63.9%	2.5%		187.65	187.65
7	AGTTP	84	12%	9.9246		82.2%	2.5%		69.71	69.71
8	Free Power								58.99	58.99
9	AGTTP C-Cycle	51	10%	5		85%	2.5%		36.30	36.30
	MePGCL									
1	Sonapani	2	100%	1.5		45%	1%		5.85	5.85
2	Lakroh	2		1.5		45%	1%		5.85	5.85
3	Umiam Stage-I HEP	36		36					100.46	100.46
4	Umiam Stage-II HEP	20		20					50.23	50.23
5	Umiam Stage-III HEP	60		60					65.85	65.85
6	Umiam Stage-IV HEP	60		60					191.17	191.17
7	Umtru HEP	11		11.2					30.52	30.52
8	Myntdu Leshka HEP	126		126					410.22	410.22
9	New Umtru HEP	40		40		44%	1%		156.10	156.10
	Total	7,954		680.56					2,324.65	2,324.65

Format- D4

Name of the Distribution Licensee: MePDCL

POWER PURCHASE COST FOR THE FY 2012-13

(Rs. in Crores)

S.N	Source	Energy received (MU)	Variable Cost (Ps. / Unit)	Total Variable Cost	Total Fixed Cost	Others	Total Cost (5+6+7)	Unit Cost (Rs. / KWH)
1	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00
1	NTPC							
	a) Faraka STPS	62.62	248.80	15.58	5.05	0.41	21.04	3.36
	b) Kahalgaon STPS - I	36.81	213.26	7.85	3.53	0.51	11.89	3.23
	c) Kahalgaon STPS -II	147.22	201.74	29.70	18.65	0.25	48.60	3.30
	d) Talcher STPS - I	43.29	144.38	6.25	3.61	0.86	10.72	2.48
2	NHPC							
	a) Loktak HEP	10.09	123.89	1.25	7.91	4.15	13.31	13.19
3	NEEPCO							
	a) Kopili HEP	73.85	38.05	2.81	4.36	0.10	7.27	0.98
	b) Kopili - II HEP	7.07	86.28	0.61	0.67	-	1.28	1.81
	c) Khandong HEP	18.08	86.84	1.57	3.20	0.01	4.78	2.64
	d) Ranganadi HEP	141.16	108.67	15.34	22.27	0.09	37.70	2.67
	e) Doyang HEP	22.67	122.19	2.77	4.01	19.48	26.26	11.58
	f) AGBPP	130.39	167.42	21.83	27.56	2.63	52.02	3.99
	g) AGTPP	38.13	214.79	8.19	8.67	0.69	17.55	4.60
	h) Free Power	54.54						
4	Other sources							
	a) GEPL	75.00	475.07	35.63			35.63	4.75
	b) NVVN (Swapping)	115.11	-				-	-
	c) PTCIL (Exchange)	6.19	134.09	0.83			0.83	1.34
	d) UI	74.55	209.26	15.60			15.60	2.09

Name of the Distribution Licensee: MePDCL

POWER PURCHASE COST FOR THE FY 2013-14

(Rs. in Crores)

S.N	Source	Energy received (MU)	Variable Cost (Ps. / Unit)	Total Variable Cost	Total Fixed Cost	Others	Total Cost (5+6+7)	Unit Cost (Rs. / KWH)
1	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00
1	MePGCL							
	a) Umiam Stage-I HEP	74.32	48.50	3.60	5.11		8.71	1.17
	b) Umiam Stage-II HEP	39.02	68.90	2.69	2.84		5.53	1.42
	c) Umiam Stage-III HEP	127.52	67.50	8.61	8.53		17.14	1.34
	d) Umiam Stage-IV HEP	168.00	45.50	7.64	8.53		16.17	0.96
	e) Sonapani	5.10	57.00	0.29	0.28		0.57	1.12
	f) Umtru HEP	18.73	45.00	0.84	1.59		2.43	1.30
	g) Myntdu-Leishka HEP	405.98	141.50	57.45	62.12		119.57	2.95
2	NTPC							
	a) Faraka STPS	73.92	273.27	20.20	6.16	4.21	30.57	4.14
	b) Kahalgaon STPS - I	38.52	266.87	10.28	3.80	1.02	15.10	3.92
	c) Kahalgaon STPS -II	157.25	252.97	39.78	18.85	2.73	61.36	3.90
	d) Talcher STPS - I	42.90	145.45	6.24	3.62	0.67	10.53	2.45
3	NHPC							
	a) Loktak HEP	67.40	124.78	8.41	8.23	3.28	19.92	2.96
4	NEEPCO							
	a) Kopili HEP	80.41	46.64	3.75	4.41	5.21	13.37	1.66
	b) Kopili - II HEP	5.94	97.64	0.58	0.55	0.36	1.49	2.51
	c) Khandong HEP	19.41	110.77	2.15	3.06	1.67	6.88	3.54
	d) Ranganadi HEP	55.75	130.58	7.28	23.05	9.87	40.20	7.21
	e) Doyang HEP	23.88	210.22	5.02	5.38	3.21	13.61	5.70
	f) AGBPP	13.62	436.86	5.95	29.83	11.32	47.10	34.58
	g) AGTPP	6.26	468.05	2.93	9.05	3.87	15.85	25.32
	h) Free Power	57.64						
5	OTPC							
	a) Pallatana	66.71	110.60	7.38	3.61	-	10.99	1.65
6	Other sources							
	a) MPPL (Swapping)	187.92						
	b) NVVN (Swapping)	15.93						
	c) PTCIL (Exchange)	12.64	378.96	4.79			4.79	3.79
	d) MPL (Swapping)	11.32						
	e) UI	91.33	165.12	15.08			15.08	1.65

Format- D4

Name of the Distribution Licensee: MePDCL

POWER PURCHASE COST FOR FY 2014-15

(Rs. in Crores)

S.N	Source	Energy received (MU)	Variable Cost (Ps. / Unit)	Total Variable Cost	Total Fixed Cost	Others	Total Cost (5+6+7)	Unit Cost (Rs. / KWH)
1		2.00	3.00	4.00	5.00	6.00	7.00	8.00
1	MePGCL							
	a) Umiam Stage-I HEP	94.25	58.00	5.47	6.65	1.09	13.21	1.40
	b) Umiam Stage-II HEP	50.13	82.00	4.11	3.70	0.18	7.99	1.59
	c) Umiam Stage-III HEP	115.22	81.00	9.33	11.09	0.26	20.68	1.79
	d) Umiam Stage-IV HEP	162.37	54.00	8.77	11.09	0.89	20.75	1.28
	e) Sonapani	5.45	68.00	0.37	0.37	0.01	0.75	1.38
	f) Umtru HEP	10.78	54.00	0.58	2.07	0.49	3.14	2.91
	g) Myntdu-Leishka HEP	424.70	141.50	60.10	67.77	25.33	153.20	3.61
2	NTPC							
	a) Faraka STPS	40.11	295.40	11.85	3.24	1.60	16.69	4.16
	b) Kahalgaon STPS - I	18.48	289.10	5.34	1.88	(0.40)	6.82	3.69
	c) Kahalgaon STPS -II	82.78	272.90	22.59	9.02	(0.42)	31.19	3.77
	d) Talcher STPS - I	21.99	153.20	3.37	1.79	0.11	5.27	2.40
3	NHPC							
	a) Loktak HEP				8.32	3.20	11.52	
4	NEEPCO							
	a) Kopili HEP	70.42	39.50	2.78	2.89	106.00	111.67	15.86
	b) Kopili - II HEP	6.10	94.00	0.57	0.65	0.05	1.27	2.08
	c) Khandong HEP	10.80	67.20	0.73	1.60	(5.60)	(3.27)	(3.03)
	d) Ranganadi HEP	122.06	121.90	14.88	21.95	0.82	37.65	3.08
	e) Doyang HEP	20.17	207.70	4.19	4.30		8.49	4.21
	f) AGBPP	177.17	230.00	40.75	29.50	0.86	71.11	4.01
	g) AGTPP	65.47	254.50	16.66	8.70	0.54	25.90	3.96
	h) Free Power	47.20						
5	OTPC							
	a) Pallatana	251.26	110.60	27.79	38.00	-	65.79	2.62
6	Other sources							
	a) Bilateral Swapping	202.72						
	b) Bilateral / UI	33.49	350.00	11.72			11.72	3.50

Format- D4

Name of the Distribution Licensee: MePDCL

POWER PURCHASE COST FOR FY 2015-16

(Rs. in Crores)

S.N	Source	Energy received (MU)	Variable Cost (Ps. / Unit)	Total Variable Cost	Total Fixed Cost	Others	Total Cost (5+6+7)	Unit Cost (Rs. / KWH)
	NTPC							
1	Farakka	24.36	2.95	7.20	2.57	-	9.77	4.01
2	Kahalgaon I	12.61	2.89	3.65	1.53	-	5.17	4.10
3	Kahalgaon II	62.78	2.73	17.13	8.94	-	26.08	4.15
4	Talcher	16.96	1.53	2.60	1.61	-	4.21	2.48
5	Bongaigaon	86.94	-	-	-	-	-	-
	OTPC Pallatana	346.68	1.23	42.59	76.00	-	118.59	3.42
	NEEPCO							
1	Kopili Stage-I	82.23	0.51	4.18	9.14	-	13.32	1.62
2	Kopili Stage-II	8.48	0.93	0.79	0.95	-	1.74	2.05
3	Khandong HEP	17.53	0.74	1.30	3.04	-	4.34	2.48
4	Ranganadi HEP	131.25	0.97	12.71	14.66	-	27.37	2.09
5	Doyang HEP	23.65	2.50	5.91	5.67	-	11.58	4.90
6	AGBPP	187.65	2.53	47.47	37.62	-	85.09	4.53
7	AGTPP	69.71	2.52	17.54	10.28	-	27.82	3.99
8	Free Power	58.99	-	-	-	-	-	-
9	AGTPP C-Cycle	36.30	2.12	7.70	13.47	-	21.17	5.83
	NHPC Loktak	50.63	1.72	8.71	8.37	-	17.08	3.37
	MePGCL							
1	Sonapani	5.85	0.71	0.42	0.39	-	0.81	1.38
2	Lakroh	-	-	-	-	-	-	-
3	Umiam Stage-I HEP	100.46	0.61	6.12	6.98	-	13.10	1.30
4	Umiam Stage-II HEP	50.23	0.86	4.32	3.89	-	8.21	1.63
5	Umiam Stage-III HEP	65.85	0.85	5.60	11.64	-	17.24	2.62
6	Umiam Stage-IV HEP	191.17	0.57	10.84	11.64	-	22.48	1.18
7	Umtru HEP	22.89	0.57	1.30	2.17	-	3.47	1.52
8	Myntdu Leshka HEP	410.22	1.49	60.95	71.16	-	132.11	3.22
9	New Umtru HEP	-	-	-	-	-	-	-
	Total	2,063.42		269.03	301.74		570.77	2.77

Format- D4

Name of the Distribution Licensee: MePDCL

POWER PURCHASE COST FOR FY 2016-17

(Rs. in Crores)

S.N	Source	Energy received (MU)	Variable Cost (Ps. / Unit)	Total Variable Cost	Total Fixed Cost	Others	Total Cost (5+6+7)	Unit Cost (Rs. / KWH)
	NTPC							
1	Farakka	24.36	3.10	7.56	2.74	-	10.29	4.22
2	Kahalgaon I	12.61	3.04	3.83	1.59	-	5.42	4.29
3	Kahalgaon II	62.78	2.87	17.99	9.02	-	27.01	4.30
4	Talcher	16.96	1.61	2.73	1.71	-	4.44	2.62
5	Bongaigaon	229.22	2.65	23.06	12.50	-	35.56	1.55
1	OTPC Pallatana	346.68	1.29	44.72	79.80	-	124.52	3.59
	NEEPCO							
1	Kopili Stage-I	82.23	0.53	4.36	9.54	-	13.90	1.69
2	Kopili Stage-II	8.48	0.91	0.77	0.95	-	1.72	2.03
3	Khandong HEP	17.53	0.76	1.33	3.12	-	4.45	2.54
4	Ranganadi HEP	131.25	0.99	12.97	14.96	-	27.93	2.13
5	Doyang HEP	23.65	2.56	6.05	5.83	-	11.89	5.03
6	AGBPP	187.65	2.53	47.47	40.44	-	87.91	4.68
7	AGTPP	69.71	2.52	17.54	11.26	-	28.80	4.13
8	Free Power	58.99	-	-	-	-	-	-
9	AGTPP C-Cycle	36.30	2.12	7.70	14.75	-	22.45	6.18
	MePGCL							
1	Sonapani	5.85	0.75	0.44	0.41	-	0.85	1.45
2	Lakroh	5.85	0.39	0.23	0.40	-	0.63	1.07
3	Umiam Stage-I HEP	100.46	0.64	6.42	7.33	-	13.76	1.37
4	Umiam Stage-II HEP	50.23	0.90	4.54	4.08	-	8.62	1.72
5	Umiam Stage-III HEP	65.85	0.89	5.88	12.23	-	18.11	2.75
6	Umiam Stage-IV HEP	191.17	0.60	11.38	12.23	-	23.61	1.23
7	Umtru HEP	22.89	0.60	1.36	2.28	-	3.64	1.59
8	Myntdu Leshka HEP	410.22	1.56	64.00	74.72	-	138.71	3.38
9	New Umtru HEP	156.10	2.00	31.22	31.22	-	62.44	4.00
	Total	2,317.02		323.55	353.10	-	676.65	2.92

Format- D4

Name of the Distribution Licensee: MePDCL

POWER PURCHASE COST FOR FY 2017-18

(Rs. in Crores)

S.N	Source	Energy received (MU)	Variable Cost (Ps. / Unit)	Total Variable Cost	Total Fixed Cost	Others	Total Cost (5+6+7)	Unit Cost (Rs. / KWH)
	NTPC							
1	Farakka	24.36	3.26	7.93	3.00	-	10.93	4.49
2	Kahalgaon I	12.61	3.19	4.02	1.66	-	5.68	4.50
3	Kahalgaon II	62.78	3.01	18.89	9.11	-	28.00	4.46
4	Talcher	16.96	1.69	2.87	1.89	-	4.75	2.80
5	Bongaigaon	229.22	2.79	63.85	30.68	-	94.53	4.12
	OTPC Pallatana	346.68	1.35	46.96	83.79	-	130.75	3.77
	NEEPCO							
1	Kopili Stage-I	82.23	0.55	4.55	9.97	-	14.52	1.77
2	Kopili Stage-II	8.48	0.69	0.59	0.73	-	1.31	1.55
3	Khandong HEP	17.53	0.78	1.36	3.20	-	4.56	2.60
4	Ranganadi HEP	131.25	1.01	13.24	15.28	-	28.52	2.17
5	Doyang HEP	23.65	2.62	6.21	6.01	-	12.22	5.17
6	AGBPP	187.65	2.53	47.47	42.27	-	89.75	4.78
7	AGTPP	69.71	2.52	17.54	11.94	-	29.48	4.23
8	Free Power	58.99	-	-	-	-	-	-
9	AGTPP C-Cycle	36.30	2.12	7.70	15.64	-	23.34	6.43
	MePGCL							
1	Sonapani	5.85	0.79	0.46	0.43	-	0.89	1.52
2	Lakroh	5.85	0.39	0.23	0.40	-	0.63	1.07
3	Umiam Stage-I HEP	100.46	0.67	6.74	7.70	-	14.44	1.44
4	Umiam Stage-II HEP	50.23	0.95	4.77	4.28	-	9.05	1.80
5	Umiam Stage-III HEP	65.85	0.94	6.17	12.84	-	19.01	2.89
6	Umiam Stage-IV HEP	191.17	0.63	11.95	12.84	-	24.79	1.30
7	Umtru HEP	30.52	0.63	1.91	2.40	-	4.30	1.41
8	Myntdu Leshka HEP	410.22	1.64	67.19	78.45	-	145.65	3.55
9	New Umtru HEP	156.10	2.10	32.78	32.78	-	65.56	4.20
	Total	2,324.65		375.37	387.28	-	762.65	3.28

Format - D4 (a)

Name of the Licensee: MePDCL

UI POWER PURCHASE CHARGES- FY 2012-13

S.N	Month	Quantum of Energy Received (MU)	Per unit cost (Rs / kWh)	Cost of Energy Purchase (Rs.Crores)
1	2	3	4	5
1	April	21.56	2.41	5.20
2	May	0.64	1.88	0.12
3	June	0.51	1.57	0.08
4	July	0.41	2.68	0.11
5	August	5.39	0.74	0.40
6	September	1.09	1.01	0.11
7	October	2.41	1.66	0.40
8	November	15.85	1.62	2.56
9	December	6.24	1.43	0.89
10	January	9.55	2.08	1.99
11	February	4.14	1.33	0.55
12	March	6.77	1.34	0.91
13	Total	74.56	1.79	13.32

Format - D4 (a)

Name of the Licensee: MePDCL

UI POWER PURCHASE CHARGES-2013-14

S.N	Month	Quantum of Energy Received (MU)	Per unit cost (Rs / kWh)	Cost of Energy Purchase (Rs.Crores)
1	2	3	4	5
1	April	9.15	2.04	1.87
2	May	4.79	1.57	0.75
3	June	2.06	0.83	0.17
4	July	2.47	0.69	0.17
5	August	3.97	0.98	0.39
6	September	0.89	1.24	0.11
7	October	8.64	1.24	1.07
8	November	9.44	1.55	1.46
9	December	12.31	1.67	2.05
10	January	10.77	1.57	1.69
11	February	12.36	1.62	2.00
12	March	13.54	2.36	3.19
13	Total	90.39	1.65	14.92

Format - D4 (b)

Name of the Licensee: MePDCL

UI POWER PURCHASE CHARGES- FY 2014-15

S.N	Month	Quantum of Energy Received (MU)	Per unit cost (Rs / kWh)	Cost of Energy Purchase (Rs.Crores)
1	2	3	4	5
1	April	8.07	3.66	2.95
2	May	6.39	2.54	1.62
3	June	0.67	3.73	0.25
4	July	0.20	6.50	0.13
5	August	0.05	14.00	0.07
6	September	0.09	2.22	0.02
7	October	1.44	1.88	0.27
8	November			
9	December			
10	January			
11	February			
12	March			
13	Total	16.91	3.14	5.31

Format - D4 (c)

Name of the Licensee: MePDCL

UI POWER SALE CHARGES- FY 2012-13

S.N	Month	Quantum of Energy Sold (MU)	Per unit cost (Rs / kWh)	Cost of Energy Sold (Rs.Crores)
1	2	3	4	5
1	April	0.88	2.05	0.18
2	May	6.91	3.15	2.18
3	June	13.59	3.44	4.67
4	July	10.43	4.09	4.27
5	August	6.15	1.76	1.08
6	September	9.1	1.74	1.58
7	October	6.93	2.12	1.47
8	November	0.91	1.65	0.15
9	December	3.41	2.26	0.77
10	January	0.81	1.48	0.12
11	February	1.94	1.6	0.31
12	March	1.33	1.43	0.19
13	Total	62.39	2.72	16.97

Format - D4 (c)

Name of the Licensee: MePDCL

UI POWER SALE CHARGES- FY 2013-14

S.N	Month	Quantum of Energy Sold (MU)	Per unit cost (Rs / kWh)	Cost of Energy Sold (Rs.Crores)
1	2	3	4	5
1	April	0.83	1.93	0.16
2	May	5.56	1.17	0.65
3	June	7.95	1.46	1.16
4	July	4.98	1.22	0.61
5	August	4.18	0.89	0.37
6	September	9.31	1.86	1.73
7	October	2.53	1.11	0.28
8	November	0.6	1.83	0.11
9	December	3.31	2.3	0.76
10	January	1.74	1.95	0.34
11	February	0.85	2.82	0.24
12	March	0.11	16.36	0.18
13	Total	41.95	1.57	6.59

Format - D4 (D)

Name of the Licensee: MePDCL

UI POWER SALE CHARGES- FY 2014-15

S.N	Month	Quantum of Energy Sold (MU)	Per unit cost (Rs / kWh)	Cost of Energy Sold (Rs.Crores)
1	2	3	4	5
1	April	1.86	3.17	0.59
2	May	2.15	2.09	0.45
3	June	5.98	1.22	0.73
4	July	6.27	0.57	0.36
5	August	7.92	0.92	0.73
6	September	7.17	0.53	0.38
7	October	2.99	1.87	0.56
8	November			
9	December			
10	January			
11	February			
12	March			
13	Total	34.34	1.11	3.8

Format- D5

Name of the Distribution Licensee: MePDCL

NON TARIFF INCOME

(Rs. in crores)

S.N.	Particulars	FY 2012-13 (Provisional)	FY 2013-14 (Provisional)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
1	2	3	4	5	6	7	8
1	Meter / Service rent	1.59	1.78	1.24	1.24	1.24	1.24
2	Late payment surcharge	64.84	38.20	21.64	21.64	21.64	21.64
3	Theft / pilferage of energy charges	-	-	-	-	-	-
4	Misc. receipts	0.18	0.06	0.24	0.24	0.24	0.24
5	Misc. charges	9.79	5.98	3.66	3.66	3.66	3.66
6	Wheeling charges	-	-	-	-	-	-
7	Interest on staff loans & advance	-	-	-	-	-	-
8	Income from trading	-	-	-	-	-	-
9	Income from welfare activities	-	-	-	-	-	-
10	Excess on verification	0.01	-	-	-	-	-
11	Investments & bank balances	-	-	-	-	-	-
12	Total Income	76.41	46.02	26.78	26.78	26.78	26.78
13	Add Prior period income	0.41	-	-	-	-	-
14	Total	76.00	46.02	26.78	26.78	26.78	26.78

Format- D6

Name of the Distribution Licensee: MePDCL

BAD AND DOUBTFUL DEBTS

(Rs. in Crores)

S.N	Particulars	FY 2013-14 (Provisional)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
1	2	3				
1	Amount of receivable bad and doubtful debts (audited)	NA				
2	Provision made for debts in ARR	7.86	9.39	10.06	11.58	12.85

Name of the Distribution Licensee: MePDCL

ANNUAL REVENUE REQUIREMENT

(Rs. in Crores)

S.N	Item of Expenditure	FY 2012-13 (Provisional)	FY 2013-14 (Provisional)	FY 2014-15 (Estimated)	FY 2015-16 (Projected)	FY 2016-17 (Projected)	FY 2017-18 (Projected)
1	Cost of Power Purchase		583.87	751.71	720.13	836.98	938.92
2	Employee costs		67.60	83.28	98.73	108.41	118.75
3	R & M Expense		4.63	7.24	7.89	8.61	9.38
4	Adm. & Gen. Expenses		63.98	62.31	71.34	79.58	81.78
5	Depreciation		16.36	18.73	27.44	39.44	50.35
6	Interest on Loan		12.71	15.69	52.50	47.66	43.33
7	Interest on Working Capital		14.45	9.43	33.93	39.19	43.55
8	Return on Equity		31.99	35.36	38.04	40.28	40.28
9	Income Tax		-	-	-	-	-
10	Bad and Doubtfull Debt		7.86	9.39	10.06	11.58	12.85
11	Total revenue requirement		803.44	993.14	1,060.08	1,211.73	1,339.19
12	Less: Non tariff income		17.53	54.14	54.14	54.14	54.14
13	Net revenue requirement (9-10)		785.91	939.00	1,005.93	1,157.58	1,285.05
14	Revenue from tariff						
15	Gap						
16	Gap for FY _____						
17	Total gap						
18	Revenue surplus carried over						
19	Additional revenue from proposed tariff						
20	Regulatory asset						
21	Within the State Energy sales (MU)	1,061.07	1,072.53	996.95	1,030.10	1,065.37	1,102.91

* MePDCL segregated tariff was not applicable