



10th ANNUAL REPORT

2017-2018



**JOINT ELECTRICITY REGULATORY COMMISSION
FOR MANIPUR AND MIZORAM
AIZAWL**



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FOR
MANIPUR AND MIZORAM**

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FOREWORD



It is my pleasure to place the 10th Annual Report of Joint Electricity Regulatory Commission for the States of Manipur and Mizoram for the year 2017-18. As per Section 105 of Electricity Act, 2003, the Commission is required to prepare the Annual Report giving a summary of its activities during the year. The Report is to be sent to the two States to be laid before the Legislature of both Manipur and Mizoram.

The Commission issued orders approving the Aggregate Revenue Requirement (ARR) for the 2nd Block of 5 years of Control Period for Multi-Year Tariff period 2018-19 to 2022-23 along with the Retail Tariff for the FY 2018-19 well in time. This is for the 7th consecutive time that Tariff Orders are issued so that it will come in force from the first day of the financial year even through the Tariff Petitions were filed in the 3rd week of January, 2018.

This year Independent Power Producers Association of India (IPPAI) has awarded Joint Electricity Regulatory Commission for Manipur & Mizoram as Runner-up being the Most Progressive SERC -NER in their POWER AWARDS 2017.

I would like to place on record my thanks to the State Governments of Manipur and Mizoram, Manipur State Power Company Limited, Manipur State Power Distribution Company Limited, Power & Electricity Department of Mizoram, Members of the State Advisory Committee and State Co-ordination Forum and Non Governmental Organizations and Staff of the Commission for their help, support, co-operation and active participation which has made the efficient functioning of the Commission possible.

Aizawl, the 2nd Nov, 2018

A handwritten signature in blue ink, which appears to be 'Sarat Singh', written in a cursive style. Below the signature, the name and title are printed.

(Ngangom Sarat Singh)
Chairperson

CHAPTER – I

INTRODUCTION

1. THE COMMISSION

The State Electricity Regulatory Commission is a mandatory requirement for every State as per Sections 82 and 83 of the Electricity Act, 2003. However, the States of Manipur & Mizoram accepted the advice of the Ministry of Power, Govt. of India on the constitution of a Joint Electricity Regulatory Commission from the points of view of financial implications and opted for it when the Government of India generously agreed to bear entire expenditure (excluding that of office accommodation) of the Joint Commission for the first five years. A Memorandum of Agreement to this effect was signed on 23rd July, 2004 among the Government of India and the State Governments of Manipur and Mizoram.

As per the terms and conditions of the Agreement, Notification was issued by the Government of India vide Ministry of Power No.F.23/2002-R&R dated 18th January, 2005 constituting the Joint Electricity Regulatory Commission for the States of Manipur & Mizoram. The Commission, having two members one from each State, came into its existence with effect from 24th January, 2008.

The Commission functions in a quasi-judicial norm. It has the powers of Civil Court. It consists of a Chairperson and one full time Member. In recognition of the need for a multi-disciplinary approach while addressing issues related to independent regulation, the Act prescribes that the Chairperson and Member shall be persons having adequate knowledge and experience in Engineering, Law, Economics, Commerce, Finance or Management. It also prescribes a broad mix of disciplines to be represented in the Commission. The Chairperson and Member are appointed by the Government of India on the recommendation of a Selection Committee constituted by the Central Government as prescribed under the Electricity Act 2003.

2. THE MISSION

The Joint Electricity Regulatory Commission for Manipur & Mizoram, is committed to honour and translate into reality its own pledge as assigned by the Electricity Act, 2003 that the Power Sector in the States of Manipur and Mizoram shall be developed as an Industry which is efficient, commercially and financially self sustained and consumer friendly. The Commission also determines to strike balance of interests of all the

stakeholders while fulfilling its primary responsibility to ensure supply of reliable power to the Consumers of these two States at reasonable and affordable rates and furtherance of reforms in the sector.

In discharge of its functions, the Commission is guided by the principle of good governance and decisions of Government of India laid down in National Electricity Policy 2005, National Electricity Plan 2004 and Tariff Policy 2016. It also safeguards the interests of the States and protects the consumers as well. The Joint Electricity Regulatory Commission for Manipur and Mizoram have been assigned to ensure speedy implementation of the reform process of the electricity sector in the States of Manipur and Mizoram.

3. MANDATE OF THE COMMISSION

- 1) **Section 86** of the Electricity Act, 2003 elaborates the function of the State Commission. As per **Section 86(1)**, the State Commission shall discharge the following functions, namely:
 - a) Determine the tariff for generation, supply, transmission and wheeling of electricity, wholesale, bulk or retail, as the case may be, within the States of Manipur and Mizoram;
 - b) Regulate electricity purchase and procurement process of distribution licenses including the price on which electricity shall be procured from the generating companies or licensees or from other sources through agreements for purchase of power for distribution and supply within the State;
 - c) Facilitate intra-state transmission and wheeling of electricity;
 - d) Issue licences to persons seeking to act as transmission licensees, distribution licensees and electricity traders with respect to their operations within the State;
 - e) Promote co-generation and generation of electricity from renewable sources of energy by providing suitable measures for connectivity with the grid and sale of electricity to any person and also specify, for purchase of electricity from such sources, a percentage of the total consumption of electricity in the area of distribution licensee;
 - f) Adjudicate upon the dispute between the licensees and generating companies and to refer any dispute for arbitration;
 - g) Levy fee for the purposes of this Act;
 - h) Specify State Grid Code consistent with the Grid Code specified under clause(h) of sub-section (10) of Section 79;

- i) Specify or enforce standards with respect to quality, continuity and reliability of service by licensees;
 - j) Fix the trading margin in the intra-State trading of electricity; if considered, necessary; and
 - k) Discharge such other functions as may be assigned to it under the Electricity Act, 2003.
- 2) As per Section 86(2) of the Electricity Act, 2003, the State Commission shall advise the State Government on all or any of the following matters, namely:
- a) Promotion of competition, efficiency and economy in activities of the electricity industry;
 - b) Promotion of investment in electricity industry;
 - c) Re-organization and restructuring of electricity industry in the State; and
 - d) Matters concerning generation, transmission, distribution and trading of electricity or any other matter referred to the State Commission by that Government.



Independent Power Producers Association of India
POWER AWARDS 2017
Runner Up
Joint Electricity Regulatory Commission
for the State of Manipur and Mizoram
Most Progressive
State Electricity Regulatory Commission – North East Region

- 3) As per Section 86(3) of the Act, the State Commission shall ensure transparency while exercising its powers and discharging its functions.
- 4) As per Section 86(4), in discharge of its functions, the State Commission shall be guided by the National Electricity Policy, 2005, National Electricity Plan and Tariff Policy, 2006 published under Section 3 of the Electricity Act, 2003.

4. ANNUAL REPORT

Section 105 of the Electricity Act, 2003 states that

- 1) The State Commission shall prepare once in every year in such form and at such time as may be prescribed, as annual report giving a summary of its activities during the foregoing year and copies of the report shall be forwarded to the State Government.
- 2) A copy of the report received under sub-section (1) shall be laid, as soon as it is received, before the State Legislature.

Accordingly, the Joint Commission has been preparing every year the Annual Report for circulation to various authorities including submission to the State Legislatures of Manipur and Mizoram.

The Annual Report 2017-18 presents an overview of the Commission's activities during the period from 1st April, 2017 to 31st March, 2018. As stated earlier, this Commission was established on 24th January, 2008. Over these years, the Commission has been making all efforts to translate its vision into reality in the two States and constantly endeavouring for improvement of quality of supply and services to the consumers while maintaining a reasonable and affordable price. In the whole process, co-ordinated support and point specific assistance of State Government and people's cooperation are pre-requisites. Without these essentials, the Commission would find it difficult to bring about a transformation in all fronts of the power sector and also in the overall economy of the States of Manipur and Mizoram.

5. THE COMMISSION & THE UTILITIES

The Joint Electricity Regulatory Commission for Manipur and Mizoram join hands with the State Government run utilities viz MSPCL and MSPDCL in Manipur and P&E Department in Mizoram. The P&E Department, Mizoram is known as the Integrated Utility. They take the pledge to improve the power sector as envisaged by the Electricity Act 2003.

6. ORGANIZATION CHART AND STAFF STRENGTH

The Organization Chart showing the details as on 31st march, 2018, of the posts sanctioned by the Ministry of Power, Government of India in consultation with both the State Governments of Manipur and Mizoram for smooth functioning of the Commission, is given as Annexure – I. Proposal for creation of one post of Ombudsman and two supporting staffs each for Manipur and Mizoram has been submitted to the Ministry of Power, Government of India, and till date no creation order has been issued.

7. COMMISSION'S OFFICE

The Joint Electricity Regulatory Commission for Manipur and Mizoram is at present functioning at its office located at TBL Bhawan, E-18, Peter's Street, Khatla, Aizawl, Mizoram - 796001. The Office building is arranged by the Government of Mizoram incurring substantial expenditure as per the Memorandum of Agreement.

The Commission is accessible through its website: www.jerc.mizoram.gov.in and has e-mail of jerc.mm@gmail.com.



Electricity Consumer Awareness, Ukhrul, Manipur, 4th Dec. 2017

CHAPTER – II

ACTIVITIES OF THE COMMISSION

1. CONSTITUTION OF THE STATE ADVISORY COMMITTEE

The Section 87 of the Electricity Act, 2001 states that:-

- 1) The State Commission may, by notification, established with effect from such date as it may specify in such notification, a Committee to be known as the State Advisory Committee.
- 2) The State Advisory Committee shall consist of not more than twenty-one members to represent the interests of commerce, industry, transport, agriculture, labour, consumers, non-governmental organizations and academic and research bodies in the electricity sector.
- 3) The Chairperson of the State Commission shall be the ex-officio Chairperson of the State Advisory Committee and the Members of the State Commission and the Secretary to State Government in-charge of the Ministry or Department dealing with Consumer Affairs and Public Distribution System shall be the ex-officio Members of the Committee.

As authorized by the Joint Electricity Regulatory Commission for Manipur and Mizoram (Constitution of State Advisory Committee and its functions) Regulations, 2010, two separate State Advisory Committees, one each for the States of Manipur and Mizoram, were constituted. Notifications issued in this regard are at Annexure II (A) and (B) respectively.

The major role of the Advisory Committee, as assigned under Section 88 of the Electricity Act, 2003 is to advise the Commission on—

- i) Major question on Policy.
- ii) Matters relating to quality, continuity and extent of service provided by the Licensees.
- iii) Compliances by the Licensees with the conditions and requirements of their Licence.
- iv) Protection of Consumer interest.
- v) Electricity supply and overall Standards of performance by Utilities.

2. STATE ADVISORY COMMITTEE MEETINGS

As per the Regulations, meeting of the State Advisory Committee is to be held once in every quarter for both States.

During the year 2017-18, the Commission organized 2(two) meetings, 1 (one) for Manipur and 1 (one) for Mizoram in both State Capitals as stated below:

MANIPUR

18th Meeting of SAC, Manipur was held on 19th February, 2018 at Hotel Classic Grande Dynasty Hall, Imphal. The following agenda were discussed:

1. Confirmation on the Minutes of the 17th Meeting of the SAC, Manipur held on 13th February, 2017 at Annexure 'A'.
2. Determination of Multi Year ARR for the Second Control Period for FY 2018-19 to FY 2022-23 and Retail Tariff for FY 2018-19 for MSPDCL and Transmission Tariff for FY 2018-19 for MSPCL.
3. To ascertain actual Transmission loss proposal of MSPDCL to install System Metering in all vital point and expected date of completion and introduction of System Energy accounting in the intra-state transmission system. (Ascertain Actual Intra-State Transmission Loss). (MSPCL)
4. Reduction Loss & Bad debt : Proposal for Introduction of Franchisee System / Outsourcing of Billing and Collection in Rural Areas. The present distribution loss is very high (28.28% and AT&C Loss 36.89% as on 2016-17). This system may help in reduction of loss with better AT&C Loss. MSPDCL is having huge bad debt, either from public or government department. Action plan for reduction of bad debt. (MSPDCL)
5. Total Number of category-wise consumer as on 30/09/2017, Number of installed and activated prepaid meters Circle-wise/ Division-wise/ Town-wise/ District-wise. Reason for slow progress. (MSPDCL)
6.
 - i) Installation and activation of (i) pre-paid meters and (ii) Postpaid meter as on 30/09/2017 Circle-wise / Division-wise / Town-wise and District-wise.
 - ii) Installation of AB cable LT lines and new 11 kV lines / reconductoring under R-APDRP, State Plan, DDUGJY, State Plan etc; area-wise/ Circle-wise/ Division-wise and HT and LT works thereof.
 - iii) Status of installation and activation of DT meters Area/ Town-wise and energy Audit Report.
 - iv) Status of feeder metering in RAPDRP towns and energy audit report thereof. (MSPDCL)

7. Action proposed for reduction of theft of power by means of hooking / bypassing. Audit report and measures taken in this regard. (MSPDCL)
8. Status of ongoing works and their completion target for MSPDCL. (MSPDCL)
9. MSPCL's status of meter installation at all voltage levels and all 11 kV feeders to be metered to segregate energy loss with MSPDCL. (MSPDCL)
10. Status of ongoing works & Completion time schedule. (MSPCL & MSPDCL)
11. Whether MSPDCL can furnish as per the MYT Regulations, 2014:
 - i) District /Circle- wise AT&C Loss as per Format P2.
 - ii) District Circle-wise category wise collection efficiency per format P3.
 - iii) District /Circle-wise network as per format P4.

Furnishing of District / Circle-wise report is as per Appendix 'C' of MYT Regulations, 2014. The MSPDCL have not furnished the report (i) to (iii) above, in the Tariff Petition for 2018-19 to 2022-2023 of MYT 2nd control period. Whether such record / projection are made by MSPDCL or not, if no, when such record shall be made available to the Commission. Advance information to furnish Circle-wise record / projection was called for vide Commission letter no. H.20013/22/17-JERC dated 28.08.2017 (MSPDCL).

MIZORAM

20th Meeting of SAC, Mizoram was held on 22 nd February, 2018 at Conference Hall of Power & Electricity Deptt., New Secretariat Complex, Khatla Aizawl, Mizoram. The following agenda were discussed:

1. Confirmation on the Minutes of the 19th Meeting of the SAC, Mizoram held on 8th February, 2017 at Annexure 'A'.
2. Determination of Multi Year ARR for the Second Control Period for FY 2018-19 to FY 2022-23 and Retail Tariff for FY 2018-19 for P & E Department.
3. Reduction of Commercial Losses.
4. Energy Accounting.
5. Status of Plan works taken up and timeline and completion schedule.
6. Fixed Charge on Contracted Load.
7. Extra charge on Bank Transaction Charges.
8. Misc. items if any, with the permission of Chair.

3. STATE CO-ORDINATION FORUM & ITS ACTIVITIES

MANIPUR

Minutes of 2nd meeting of Co-ordination Forum held on 5th December, 2017 at the Conference Hall of MSPCL, Keishampat, with Shri. Ng.Sarat Singh, Chairperson, JERC (M&M).

At the outset, the Chairman welcomed all the members of the Forum and participants in the meeting. The meeting then proceeded with power point presentation by the Director, MANIREDA followed by the Power point presentation by the Managing Directors of MSPCL and MSPDCL and finally by the General Manager SLDC.

The following is a brief summary of the proceedings of the agenda wise presentation:

1. Up-to-date status of installations of prepaid energy meters in Manipur and programme of 100% installation. Programme for implementation of Smart Metering as per MOP guidelines i.e. 500 and above unit per month - Target date December, 2017 and 200 and above unit per month - Target Date December, 2019
 - MSPDCL is targeting to install and activate 5 lakhs prepaid meters by August, 2019. As on Nov, 2017 MSPDCL was able to install and activate 305247 prepaid meters. Proposal for procurement of 1.5 lakh energy meters is ready.
2. DT metering and feeder metering - up-to-date status (as on September, 2017) and their reliability for computation of Feeder-wise AT&C loss in each of RAPDRP town (13 towns).
 - As on Sep, 2017 MSPDCL has completed installation of 1185 DT meters and 72 nos. of feeder meters in the 13 towns under RAPDRP. Another 518 DT meters and 23/85 BM/HT meters are to be installed in 12 towns under IPDS.

At present feeder wise AT&C losses is computed based on energy injection in 11kV feeders and collected energy amount across the feeders by back calculation taking into account the different slab rate tariff.
3. Segregation of Transmission and Distribution Losses - Transmission loss at 132kV and 33 kV level and Third Party Energy audit
 - MD, MSPCL presented achievement of installation of 43 nos. of 132kV energy meters and 119 nos. of 33kV energy meters till date. Work for installation of 33 nos. of 132kV meters and 49 nos. of 33kV meters is in process and assured JERC that all works will be completed by March, 2018.

4. Measures taken up by MSPDCL to reduce bad debt inherited from the erstwhile Electricity Department of Manipur

- To reduce bad debt, MSPDCL is deducting 20% of the recharge amount from the prepaid consumers to adjust against their debt. The presentation also shows that the State government department is the biggest defaulter. As on September 2017 the outstanding due against the government departments is Rs. 78.18 crore and the company has already issued disconnection notice to the concerned Head of departments.

During the presentation MD, MSPDCL requested JERC to take up the matter with the State government. JERC advised MD to bring the matter in the Board of Directors meeting and to write to the government again to clear the dues with intimation to JERC so that the matter can be taken up.

5. Action taken and programme for 24x7 power supply by the two companies.

MD, MSPCL gave a detailed presentation on the existing transmission and sub-transmission infrastructures and the various activities taken up to achieve 24x7 power supply in the State. MD pointed out the present available Transformation Capacity of 597MVA at 132kV level and 570 MVA at 33kV level will be able to meet the present peak demand of about 180MW and also future excess demand required for 24x7 power supply.

Further after the completion of the various projects taken up by MSPCL and World Bank funding projects implemented by PGCIL, the capacity and penetration of the Transmission infrastructures will be enhanced considerably so that, the State will not face any Transmission constraint in future.

MD also stated that after charging 400kV line from Silchar to Imphal now charged at 132kV, at its rated voltage the line will enhance the inter-State Transmission Capacity to 1000MW. Further, there will be tremendous improvement in the stability and reliability of the inter-State Transmission system after the completion of the on-going 400kV line from Imphal to New-Mariani via. Kohima as the State will have two injection points at 400 kV level.

6. Generation, Transmission and Transformations - existing and projects up-to-date status.

- MD, MSPCL gave a power point presentation on the generation sector. During the presentation MD expressed his apprehension over the viability of the hydro power generation due to high cost of generation and availability of cheaper energy from Power Producers and Renewable Energy Power Plants.
- On the question of decommissioning Heavy Power Plant at Leimakhong raised by JERC MD replied that as the matter is a State Policy MSPCL cannot take any decision on its own.

- The presentation continued with a quick show of the Status of the existing and up to status of the ongoing projects.
7. Demand Side Management - Action taken and programme.
- MD, MSPDCL gave a presentation of the action taken on Demand Side Management
8. Power Purchase and Procurement - Existing and Programme with per unit cost (source-wise with detail entitlement/allocations as on September, 2017).
- MD, MSPDCL gave a presentation on Power Purchase and Procurement.
9. Action taken-up under UDAY Scheme. Target achieved against the prescribed loss reduction trajectory.
- MD, MSPDCL gave a presentation of action taken by MSPDCL under UDAY scheme such as ongoing installation and augmentation works, prepaid metering, feeder metering etc
 - Under Uday scheme AT&C loss is to be reduced to 18.7% by 2017-18 and 15% by 2018-19. However, MSPDCL could achieve only 31% reduction. Further MD, MSPDCL expressed his concern over the achievement of 15% reduction by 2018-19. He therefore requested JERC to kindly intervene and allow to re-fix the target in respect of MSPDCL.
 - JERC stated that as the AT&C loss reduction target was agreed into by signatories of the UDAY ,MoU ,it may not be proper to alter the clauses of the MoU.
10. Status and Performance of SLDC - Role on deviation settlement mechanism,outage report and energy audit.
- GM, SLDC gave a power point presentation on the formation of SLDC and its evolution to the present status along with various activities taken up by SLDC in respect of Deviation settlement Mechanism, Outage report, energy audit, load forecasting.
 - In the presentation on load forecast GM, SLDC showed that the State Load Despatch Centre could make more accurate load forecast than that of other State/ regional load despatch centres.
 - During the presentation on outage report GM, SLDC apprised the members that all planned shut down are arranged by clubbing the requisitioned planned shutdown in such a way that all the requisite work can be done simultaneously during the shut down period to minimise outage and frequent interruption. The presentation also showed how the outage can be reduced by organising co-ordination meeting with the officials of MSPCL and MSPDCL.

11. Up-to-date status and programme of Renewable Energy Generations - Solar and Non-Solar.

- Director MANIREDA presented the updated status of various programmes of Renewable Energy Generation Solar and Non-solar. The present install capacity of Off-grid generation is 4145kW and that of Grid interactive generation is 546kW. The ongoing projects are:

1. GCRTS on 6 Govt. buildings (265kW)
2. GCRTS on private and institutional buildings (100kW)
3. Installation of 740 LED street lights (28kW)
4. 100kW SPC power plants at CAU, Andro(100kW)
5. GCRTS at Khenjang (200kW)
6. Electrification of 94 remote village through Solar (605kW)

During the presentation the Director informed that the Generation from 150kW grid interactive solar power plant from Govt. sector is yet to be grid connected and requested MD, MSPCL to facilitate grid connectivity to these solar power plants.

- Chairperson, JERC advised MD, MSPDCL to take necessary action as requested by Director, MANIREDA at an early date.

MIZORAM

Minutes of 9th Co-ordination Forum of Mizoram Meeting :

Date & Time : 13th December 2017

Venue : Conference Hall of E-in-C, P&E Deptt

Chairman : Shri Ngangom Sarat Singh, Chairperson, JERC (M&M)

Members present : As appended in the Annexure

With a welcome address from the Chair followed by self introduction from each member, the meeting proceeded as follows:

As invited from the Chair, Shri Lalchharliana Pachuau Chief (Engg), JERC (M&M) briefed the agenda. The following Agenda were discussed-

1. Interest Bearing Security Deposit

Agenda Note

Referring to Clause 4.127 and 4.128 of JERC (M&M) (Supply Code) Regulation 2013 which reads :

4.127 The security deposit shall be returned to consumer upon termination of Agreement within 30 days of adjustment of all dues. In case of delay, interest

equivalent to the State Bank of India base rate on the 1st of April of the year shall be payable to the consumer.

4.128 The licensee shall pay interest to the consumer at the State Bank of India base rate prevailing on the 1st of April for the year, payable annually on the consumer's security deposit with effect from date of such deposit in case of new connections energized after the date of this notification, or in other cases, from the date of notification of this Code. The interest accrued during the year shall be adjusted in the consumer's bill for the first billing cycle of the ensuing financial year.

The department also carefully examines the possibility of paying interest to consumer but find it too difficult to implement the said clause due to the following reasons:

- i) Records of Security deposit of all consumers are not readily available and being collected from field officers.
- ii) Being a Government department, the authority lies in Finance Department which is beyond the control of the Department.

As such is the case, the Commission may re-examine the said clause so as to abolish or modify to suit the functioning pattern of the Department.

Deliberation

Shri Lalchharliana Pachuau, Chief (Engg.) JERC (M&M) informed the meeting that Regulation was framed for both the utilities, Mizoram and Manipur. As such, it is not convenient to modify the Regulation to suit only for one utility.

Shri Liannghinglova Pachuau E-in-C, P&E Deptt. informed the meeting that effort has been given to follow the said clause as mentioned in the Supply Code Regulation. And the matter has already been brought to the notice of the Finance Department, Government of Mizoram. He also pointed out that the present problem faced by the Department is to obtain permission from Finance Department in taking out all Security Deposit of the consumers from the Government treasury and Opening of interest bearing account by all revenue collecting Divisions.

Decision

Despite the problem being faced by the department, efforts taken so far will be continued by the Department in collecting required information from field offices to know the exact Security Deposit amount of each consumer with supporting documents. Commercial Branch, Office of E-in-C is entrusted to pursue the matter and to trace out the previous action taken which was reportedly handled by Account Branch, O/o E-in-C.

It is decided further that Security Deposit amount records available as on April 2011 will be accepted as the cut-off date for this purpose. The upto date amount under deposit Class III & Class V under security deposit should match with the supporting Documents/Challan etc if help of Commission is needed, Utilities should state the same for convincing Finance Department

2. Overall and Guaranteed Standard with Compensation Amount

Agenda Note

Clause 12, 13 and 14 of JERC (M&M) (Standard of Performance for Distribution and Transmission Licensees) Regulations, 2014 specifies Guarantees and Overall Standard for Distribution and Transmission along with rate of Compensation to be paid to consumers for non-compliance of the Standard.

Though, the Department tries its level best to achieve 24x7 powers for all, the present infrastructure and lack of sophisticated instrument does not permit to achieve the target set in the said regulation in many instances. The Scheduled time allowed in parameters mentioned under both Overall and Guaranteed Standard seems not practicable at present within this department due to lack of infrastructure and manpower. As such is the case, the rate of compensation as mentioned in Clause 14 is beyond the paying capacity of the Department with its present position.

Therefore, the department requests the Commission to revise the time schedule as well as the rate of compensation to a reasonable value within the ability and capacity of the Department.

Deliberation

Shri H. Thanthianga, Asst Chief (Engg) brief the members that as compared to other states in India, the Standard as well as rate of Compensation was made least stringent and with leniency considering the situation of Mizoram State. Hence, modification or relaxation of the Regulation does not arise at this point.

E-in-C, P&E also stated that even though the Department sometimes fails to achieve the standard time limit as mentioned in Overall and Guaranteed Standard, but there are many instances where the performance of the Department is far better than the stipulated time limit in the Guaranteed Standard. However, reports were not submitted to the Commission.

Decision

Reports on the Standard of Performance have to be regularly submitted to the Commission by the Department as per prescribed format for analysis of the performance standard of the Department.

3. Up-to-date status of installation of energy meters in Mizoram and Programme of Installation of Energy meter with MDI facility. Action taken for payment of up-to-date monthly energy consumption charge

Agenda Note

As per the existing latest record of the Department, total no of consumers is 222902 nos, out of which 214604 are metered and 8376 are unmetered. Total quantity of MDI meter installed so far is 4296 upto June 2017. It is decided to replace all non-MDI consumer meters free of cost with MDI meters procured under RAPDRP scheme within the covered town, such that consumers paying meter rent will continue to pay meter rent and consumers using 'own' meter will be treated as using own meter. A circular to this effect has already been issued vide this office letter No.T-23037/01/16-EC (P)/Com/32 dated, 17.09. 2017.

Red Notices are given to those consumers who do not pay up-to-date monthly energy consumption charge and are disconnected if they do not comply with the notice.

It is intended to introduce spot billing system at Kolasib town as a pilot project in which spot billing machine compatible with optical port communication will be used to avoid human interface in meter reading.

Deliberation

Engineer-in-Chief, P&E informed the meeting that the Department already achieved 100% metering under APDP scheme. But damaged meters are of constant issue and hence, consumers under unmetered supply are having their meters damaged. There is no scheme to constantly watch and replace damaged consumer energy meters. With the introduction of R-APDRP scheme and IPDS scheme, many consumers meters are procured having MDI facility. At the same time, constant development in technology results in development of Smart meter and Pre-paid meters. It is expected that this MDI meters may soon becomes obsolete again in the near future considering the present technological development in energy metering and they are under consideration for introduction in the near future. However, all damaged consumer meters at present are intended to be replaced by MDI meters.

As mentioned in the Agenda note, Spot billing system to be introduced in Kolasib was discussed and suggested to be implemented at Aizawl instead of Kolasib. At this point, Engineer-in-Chief, P&E explained that introduction of new system like spot billing is considered to have many impacts like proper intimation to consumer as well as imparting knowledge to Departmental staff especially Meter Readers. Such approach should not be blindly introduced at Aizawl where number of consumers and

working staffs is highest as compared to other towns. As such, it is considered better to introduce first at Kolasib as a pilot project to observe all the pros and cons of the system. After the working staffs are well versed with the new system, introduction of the same will be considered at Aizawl.

Decision

The present approach of the Department has to be continued with diligent observance from concerned Chief Engineer.

4. DT metering and feeder metering – up-to-date status and reliability for computation of Feeder-wise AT&C loss in each RAPDRP town (9 towns).

Agenda Note

Status of Feeder metering for all substations are being collected from field officers. Upto date status of DT metering will also be collected.

Deliberation

Engineer-in-Chief mentioned that all DTs and Feeders were metered under RAPDRP covered nine (9) towns area in which all meters installed are compatible with not only AMR but also have facility to sent reading to data Centre through GPRS signal. However, to watch closely the performance of these meters, reading has to be obtained from Data Center located at Guwahati which is not accessible to the Department readily at all times.

Decision

Performance of DT metering has to be more closely examined in order to locate area having more losses. Concerned Chief Engineers are requested to pay special attention in this regard with respect to Energy Audit and Accounting. At least one 11kV feeder must be selected in each Sub-Station which is not covered under R-APDRP towns and all 11kV feeders of 9 towns under RAPDRP covered area to see the actual performance of metering as well as loss incurred in that feeder. Case Study of Luangmual Feeder should be conducted immediately.

Metering of all Distribution Transformer in Mizoram segregating those DTs under RAPDRP towns are to be submitted to the Commission.

5. Action taken and programme for 24 x 7 power supply.

Agenda Note

To achieve 100% household electrification under Saubhagya by December 2018, Letter of Intent (LOI) was submitted by Government of Mizoram. Data is being collected for preparation of DPR.

Deliberation

The meeting is informed that the Department prepared DPR for augmentation of Sub-Stations having single power transformer in rural areas by doubling power transformer. Funding will be sought either from State or from Central.

With the commissioning of Tuirial HEP and with the introduction of IPDS, DDUGY, RAPDRP, Saubhagya etc it is expected to achieve 24x 7 power for all.

Decision

The meeting noted the action taken by the Department towards achieving 24x7 power and expected the department to expedite the present schemes and try to explore an efficient and more reliable scheme in this regard.

6. Generation, Transmission and Transformations- existing and projects upto-date status.

Agenda Note

Generation

HYDEL GENERATION IN MIZORAM

S/N	Name of SHP	Location	Capacity (kW)	Year of Commence-ment	Year of Commissioning
1	Serlui-A	Aizawl	1000	1982	24.04.1984
2	Khawiva	Lunglei	1050	1983	08.12.1988
3	Tuirivang	Muallungthu	300	1985	14.08.1989
4	Tuipui	Champhai	500	1988	15.12.1991
5	Maicham-I	N. Vanlaiphai	2000	1989	05.01.1996
6	Teirei	W. Phaileng	3000	1994	12.10.1999
7	Tuipanglui	Tuipang L	3000	1992	17.12.2004
8	KauTlabung	Thenhlum	3000	1994	05.05.2005
9	Lamsial	Farkawn	500	1999	26.08.2008
10	Maicham-II	N. Vanlaiphai	3000	2001	11.11.2009
11	Serlui-B	Bilkhawthlir	12000	2003	Trial run wef 30.04.2010
	Total		29350		

PROJECT UNDER EXECUTION

S/N	Name of Project	Capacity
	Projects handed over to IPPs/CPSUs	
1	Bairabi Dam Project	80 MW (SCF)
2	Tuirini HEP	38 MW (SPML)
3	Tuivawl HEP	42 MW (SPML)
4	Tlawng HEP (Near Lungleng)	55 MW (SCF)
5	Kolodyne-II HEP	460 MW (NTPC)
6	Lungreng HEP	815 MW (NEEPCO)
7	Mat HEP	76 MW (NEEPCO)
8	Chhintuipui HEP	640 MW (NEEPCO)
9	Tuivai HEP	210 MW (NEEPCO)

ON-GOING PROJECTS (STATE SECTOR)

1	Tlawva SHP	5 MW	3	Tuiching MHO	100 KW
2	Kawlhem SHP	4 MW	4	Tuiriza MHP	100 KW

TRANSMISSION : 132KV LINES (As on September 2017)

S/N	Name of Lines	Line Length	Date of Completion
1	PGCI to Luangmual	0.80	08-12-1998
2	Zuangtui to Bukpui	54.04	1986
3	Bukpui to Khawiva	69.13	1987
4	Zuangtui to Saitual	50.00	Nov-06
5	Saitual to Khawzawl	43.00	26/7/1995
6	Luangmual to W.Phaileng	75.00	31/11/1995
7	Bukpui to E.Lungdar	45.51	13/12/1996
8	Khawiva to Lungsen	37.34	1997
9	Khawiva to Lawngtlai	57.00	1990
10	Bukpui to Thenhlum	71.38	05-08-1997
11	Bairabi to Bawtlang	30.01	16/9/2008
12	Khawzawl to Ngopa	57.27	15/12/2006
13	Khawzawl to E.Lungdar	47.89	13/12/2007
14	Khawzawl to Champhai	30.00	31/7/2011
15	Saitual to Darlawn	60.59	18/11/2011
16	Luangmual to Melriat	17.06	9.10.2015
	Total	728.96	

S/N	Name of Project	Length in Km.
Projects handed over to IPPs/CPSUs		
1	132 kV S/C on D/C tower, W.Phaileng to Marpara	59
2	132 kV S/C on D/C tower, Lungsen to Chawngte	39
3	132 kV S/C on D/C tower, Chawngte to S.Bungtlang	45
On -Going Projects (State Sector)		
1	132 kV S/C Melriat to Khawiva	110

TRANSFORMATION : EXISTING

S/N	Voltage Ratio	Rating	Qty	Total Capacity
1	132/66kV	12.5 MVA	1	12.5
2	132/33 kV	12.5 MVA	14	175.0
		6.3 MVA	2	12.6
		3.15 MVA	1	3.15
	TOTAL		18	203.25

PROJECTS HANDED OVER TO IPPs/CPSUs

S/N	Voltage Ratio	Name of S/S	Qty
1	132/33kV	Lungsen	1
2	132/33 kV	Marpara	1
3	132/33 kV	W. Phaileng	1

Discussion

Tariff for own generating Hydel projects are to be filed especially Selui 'B' SHP. Chief (Engg), JERC question on the issue of selui 'B' being the biggest Hydel Generating Station in the state and contributing maximum own energy generation, yet COD is not declared till now and tariff also not yet determined. E-in-C, P&E informed the meeting that to declare COD of Serlui 'B' is under consideration of the Department along with tariff determination. He further mentioned that out of nine (9) Hydel projects to be executed by IPPs/CPUs, formal perusal is made only for the first two projects namely Bairabi and Tuirini, Remaining projects are having no formal perusal due to various reasons.

Ongoing project under State sector are formally executed and expected to be completed by the end of 2018. Apart from the above mentioned project, Investigation and preparation of DPR is going on for three projects namely- Iva (2.5MW), Khawiva-II (1MW) and Ngengrual (3MW). Chairman requested to provide transformation data in the Agenda note in Sub-Station-wise.

Decision

It is decided that tariff has to be filed for all generating stations which may be considered for next tariff petition. The existing transformation ratio is reproduced below Sub-Station-wise.

S/N	Voltage Ratio	Name of Sub-station	Rating	Qty.	Total Capacity
1	132/66kV	132kV Bawktlang SS	12.5 MVA	1	12.5
2	132/33 kV	132kV Bawktlang	12.5 MVA	1	12.5
		132kV Luangmual	12.5 MVA	3	37.5
		132kV Zuangtui	12.5 MVA	4	50
		132kV Khawzawl	12.5 MVA	1	12.5
		132kV Champhai	12.5 MVA	1	12.5
		132kV Melriat	12.5 MVA	1	12.5
		132kV Bukpui	12.5 MVA	1	12.5
		132kV Khawiva	12.5 MVA	2	25
3	132/33 kV	132kV Bukpui	6.3 MVA	1	6.3
		132kV Saitual	6.3 MVA	1	6.3
4	132/33 kV	132kV Bairabi	3.15 MVA	1	3.15
	TOTAL			18	203.25

7. Demand side management – Action taken and programme**Agenda Note**

Load restriction on bulk consumers like PHE etc used to be imposed during peak hours to reduce the peak load. LED bulbs, tube lights and energy efficient fans have been distributed under UJJALA scheme through EESL.

Discussion

The scheme mentioned in the Agenda note is expected to have significant effect in the Demand Side Management. However, proper study has not been conducted to know the actual significance

Decision

The significance of the introduction of LED bulb, LED tube light and fans under UJJALA scheme has to be examined further to know the significance in the Demand Side Management. CE(SO) is requested to have study in respect of load reduction due to introduction of this scheme.

8. Power Purchase Procurement – Existing and Programme with per unit cost (source-wise with detail entitlement/ allocation as on September 2017)
Agenda Note

**STATION WISE SHARE ALLOCATION FROM
CENTRAL GENERATING STATIONS**

S/N	Name of Firm	Name of Project	Installed Capacity (MW)	% share	Share in MW as approved by MOP	Per unit cost as on 9/17
1	NEEPO	Kopilli-I HEP	200	4.605%	9.21	1.06
	NEEPO	Kopilli-II HEP	25	6.04%	6.12	1.53
	NEEPO	Khandong HEP	50	3.863%	1.93	1.63
	NEEPO	Ranganadi HEP	405	5.699%	23.08	1.95
	NEEPO	Doyang HEP	75	5.251%	3.94	4.37
	NEEPO	Assam Gas Based Power Project	291	5.405%	15.73	3.32
	NEEPO	AGTPP with combine cycle	130	6.012%	7.82	2.84
2	NTPC	Farakka STPP Stage I&II	1600	0.141%	2.26	3.78
	NTPC	Kahalgaon STPP-I	840	0.142%	1.19	3.46
	NTPC	Talcher STPP-I	1000	0.142%	1.42	2.48
	NTPC	Bongaigoan	500	0.541%	27.075	5.52
3	TSECL	Baramura Unit-IV	21	25.00%	5.25	3.01
	TSECL	Baramura Unit-V	21	25.00%	5.25	3.01
4	OTPC	Palatana Gas Based	726	3.03%	22.00	3.126
5	NHPC	Loktak HEP	105	5.029%	5.28	3.21
					132.96	

Discussion and Decision

The agenda is considered not to require in-depth discussion and the meeting accepted the figure provided in the Agenda note.

9. Action taken by P&E Dept. under UDAY Scheme: Achievement against prescribed loss reduction trajectory thereof
Agenda Note

AT&C loss in 2015-16 is 32.17% which is taken as base line. Trajectory for 2016-17 is 27.38% against which actual achievement is 34.08%. Target is not achieved due to non-realization of arrears and other reasons.

Discussion

Chief (Engg), JERC (M&M) stated that feeder-wise loss has to be clearly analysed to know feeder having high losses, so that proper approach towards reduction of feeder loss can be made. If feeder loss is reduced, ultimately AT&C loss for the whole State will be reduced.

E-in-C, P&E informed the meeting that to achieve AT&C loss trajectory and reduce the existing loss, Vigilance Committee was established as suggested in the last State Advisory Committee in all possible area throughout Mizoram to check theft of energy. The Committee, under the chairmanship of Department officer and staff comprises of members from different Non-Government Organisations. But, unfortunately it is noted that Central YMA issued an instruction to all its Branch offices not to participate in such Committee on behalf of YMA without the consent from Central office. As such the Vigilance Committee cannot function as expected.

Moreover, majority of the losses are suspected to be contributed from Aizawl city where total number of consumer is highest as compared to other towns. Also, the total energy consumption of Aizawl town contributes about half of the total consumption of Mizoram. And as per monthly Energy Audit and Accounting statement, other towns are considered to have lower AT&C losses as compared to Aizawl city especially after introduction of R-APDRP scheme.

Decision

Regarding Notice of Central YMA to its Branch offices in respect of non-participation of YMA member in Vigilance Committee, the matter has to be put forward in writing to JERC (M&M) by the Department.

Special drive has to be made within Aizawl city to bring down AT&C losses.

10. Up-to-date status and Programme of Renewable Energy Generation – Solar and Non- Solar.

Agenda Note

Solar

- a) **Solar Rooftop :** There are two grid connected solar rooftop power plant, 50kW at E-in-C office of P&E Department and 100kW at AMC building. DPR for installation of 100kW each at control room of 132kV Sub-station at Sihhmui, Luangmual and Khawiva was submitted to MNRE and approval is being awaited. And, the Govt. of Mizoram has allocated Rs 138.45 lakh under NEDP during current year for this project.
- b) **Mini Solar Grid :** It is intended to install 100kW each at Sailam and Vathuampui. Rs. 41.85 lakh was allocated by Govt. of Mizoram during the current year under NEDP.
- c) **Solar Park :** Application for setting up of Solar Park, 20MW at Vankal was submitted to MNRE and was approved in principle. Amount of DPR submitted

is Rs 2107.12 lakh out of which, expected subsidy from MNRE is Rs 400.00 lakh and Govt. of Mizoram agreed to provide the balance fund. Rs 1318.00 lakh has been allocated during the current year under NEDP. Tender is under process to engage consultant for preparation of final DPR.

Non-Solar

Small Hydel projects existing at present and on-going projects are as given in Agenda No 6.

Discussion

Director ZEDA informed the meeting about the status of existing Installation and On-going Works being executed which are reproduced below:

Existing Completed Projects					
S/N	Particular	Qty (Nos)	Rating (wp)	Total Rating (wp)	Total rating (kwp)
1	SPV Power Plants (Off Grid)				3925
2	Wind Solar Hybrid System				23
3	SPV Street Lighting System	5325	15	79875	79.875
4	SPV Power Pack	1000	100	100000	100
5	SPV Street Lighting	9359	37	364283	364.283
6	SPV Lanterns	10512	18	189216	189.216
	Total				4663.374
On-going Works					
1	95 kwp SPV power plants and 200 Nos of Solar Street light in Chhiahtlang Model Village (102.4) kwp				
2	555 kwp Grid connected SPV rooftop systems in Kolasib district, Mizoram				
3	SPV Power Packs – 5176 Nos (517.6 kwp)				

It was further discussed how to connect isolated solar generating stations to grid system. Any isolated installation not connected to the grid cannot be accounted for Renewable Energy Purchase Obligation and hence, it is necessary to try to connect to grid as much isolated solar installation as possible to enable the Department in accounting more solar energy for meeting its RPO. At this point, it was further mentioned that any solar installation done neither through P&E Department nor ZEDA are beyond the control of the department and hence grid connectivity for these installation cannot be done through proper channel. It was further mentioned the importance of having such modalities to enable the Department in streamlining the strategy for connecting isolated solar installation to grid system.

Decision

The meeting agreed to make formalities/modalities to be followed by isolated solar energy generating stations for grid connectivity. Detail separate strategy/regulations etc will be framed by JERC if found necessary.

11. Proposed action to be taken when contracted load exceeded as indicated by energy meter, Adapting meter with load cut off facility when contracted load is exceeded.

Agenda Note

When contracted load exceed the maximum demand of a consumer, penalty will be imposed to consumer as per Clause 6.28 of JERC (Supply Code) Regulation 2013 with subsequent amendments.

Meter having auto-cut off facility on exceeding maximum demand is not yet considered within the department.

12. Programme for implementation of smart metering as per MOP Guidelines, ie., 500 & above unit consumption per month, Target date December 2017 and 200 to 500 unit per month consumption target date December 2019.

Agenda Note

DPR for pilot project in Aizawl city (Vaivakawn, Zarkawt and Babutlang Feeders) amounting to Rs 495.502 lakh was submitted to the Govt. of Mizoram on 20th November, 2017. Action is being taken for preparation of DPR for the whole state of Mizoram.

Discussion and Deliberation of Agenda 11 and 12:

The above two agenda gave already been considered and discussed in Agenda No 3 and hence no further discussion and deliberations are required.

The meeting ended with thanks from the chair.

4. ORGANIZING INTERACTIVE WORKSHOP ON CONSUMER AWARENESS

Under Electricity Act, 2003, the Commission is mandated to safeguard the interests of the Sate consumers and ensure that all consumers are provided with reliable, safe and uninterrupted power supply at reasonable rates. The Electricity Act 2003 also provides wide ranging provisions to protect the interest of consumers. It gives electricity consumers a statutory right if minimum standards of supply and service. The Commission's approach to consumer protection has been proactive from the inspection and in order to fulfil its legal obligation, the Commission has undertaken a number of steps to empower electricity

consumers. In the interest of the consumers who are yet to realize that their interests and expectations are well protected by the EA 2003 and relevant Regulations, the Commission organized series of Interactive Workshop on “Electricity Consumers Awareness” at suitable public places in Manipur and Mizoram in association with the Service Provider, Journalists, Consumers’ Union, Intellectual circle, Senior Citizens and other voluntary organizations and through its empanelled organizations.

The Commission contemplated to keep up the same tempo for another couple of years so that the consumers could gain the basic knowledge of power supply management. Accordingly, the Commission jointly with MSPDCL, Manipur conducted 2 (two) workshops at Manipur and jointly with Power & Electricity Deptt., Mizoram conducted 3 (three) workshops at Mizoram

Manipur

1. Ukhrul on 4th Dec 2017
2. None on 6th Dec 2017

Mizoram

1. Kawnpui on 10th Aug 2017
2. Thenzawl on 13th Sept 2017
3. Kolasib on 13th March 2018

5. TARIFF ORDERS

For the seventh time, the Commission issued tariff ARR for MYT period 2018-19 to 2022 - 2023 and order for FY 2018-19 on 12th March, 2018 for the Manipur State Power Company Limited (MSPCL), Manipur State Power Distribution Company Limited (MSPDCL) and Power & Electricity Department, Government of Mizoram respectively. The tariff orders shall remain effective from 1.4.2018 till the next tariff orders are issued.

6. MEMBERSHIP OF THE FORUM OF REGULATORS FORUM OF INDIAN REGULATORS AND FORUM OF REGULATORS FOR EASTERN AND NORTH EASTERN STATE

The Forum of Regulators (FOR) was constituted by the Government of India where all Chairpersons of SERCs are only the members as per provisions of the Electricity Act, 2003, the Forum of Indian Regulators (FOIR) was constituted under the Societies Act where all Chairpersons and Members of SERCs are the member of the FOIR. The Secretariat of the FOR and FOIR located at the Central Electricity Regulatory Commission, New Delhi. The Forum provides avenue for exchange of views and information among Indian Electricity Regulators and preparation of common ground and agenda in respect

of various regulatory issues. The Forum of Regulators for Eastern and North Eastern States is a Society for the Eastern and North Eastern States Regulatory Commission which is presently located in the Office of the Odisha Electricity Regulatory Commission (OERC) and the Chairperson of the OERC is the Chairperson of the Forum. This can be changed on rotational basis every year as decided by the Members.

The Annual subscription for Membership of the Forum of Indian Regulators is Rs. 100,000.00, for the Forum of Regulators is Rs. 300,000.00 and for Forum of Regulators for Eastern and North Eastern States is Rs. 100,000.00 respectively.

The Annual subscription for FOR, FORENS and FOIR are paid upto 2017-2018.

7. ESTABLISHMENT OF COMMISSION FUND

1) Section 102 of Electricity Act, 2003 : Grants and Loans by the State Government:-

The State Government may, after due appropriation made by Legislature of a State in this behalf, make to the State Commission grants and loans of such sums of money as that Government may consider necessary.

2) Section 103 of Electricity Act, 2003 : Establishment of Fund by the State Government:-

There shall be constituted a Fund to be called the State Electricity Regulatory Commission Fund and shall be credited thereto-

- a) any grant and loan made to the State Commission by the State Government under section 102;
- b) all fees received by the State Commission under this Act;
- c) all sums received by the State Commission from such other sources as may be decided upon by the State Government.

3) The Fund shall be applied for meeting:-

- a) The Salary, Allowances and other remuneration of the Chairperson, Members, Secretary, officers and other employees of the State Commission;
- b) The expenses of the State Commission in discharge of its functions under Section 86;
- c) The expenses on objects and for purposes authorised by this Act,

4) The State Government may, in consultation with the Comptroller and Auditor-General of India, prescribe the manner of applying the Fund for meeting the expenses specified in clause (b) or clause (c) of sub-section (2).

- 5) The Commission, JERC (M&M) is at present functioning with the Government grant to meet the expenditure on salary and other establishment expenditure. Audit of the Annual Accounts have been conducted by the office of the Principal Accountant General, Mizoram as per Fund Rules of the Commission notified by Government of India.

8. REGULATORY DISPUTES

No Regulatory dispute was encountered by the Commission during the year under Report.

9. CONSUMER GRIEVANCE REDRESSAL FORUM (CGRF)

As required by the proviso (5) of the Section 42 of the Electricity Act, 2003, the Commission has already notified Regulations on Consumer Grievance Redressal and directed the State Power Departments to set up Internal Grievance Redressal Cell (IGRC) and Consumer Grievance Redressal Forum (CGRF) at suitable locations and also to draw the awareness of all consumers of Grievance Redressal mechanism through wide publication in the local newspapers.

Accordingly, both the Distribution Utilities of Manipur and Mizoram have set up one CGRF for each of the States at their respective head offices in Imphal and Aizawl respectively and made them functional.

In addition, IGRC(s) have also been set up at different places of Manipur and Mizoram.

10. ELECTRICITY OMBUDSMAN

As provided by the sub-section 6 of section 42 of the Electricity Act 2003 and as required by Regulation 3(2) of the Joint Electricity Regulatory Commission for Manipur and Mizoram (Electricity Ombudsmen) Regulations, 2010, Mr. L.Pachhuau, Chief (Engineering) of the Commission has been designated as Electricity Ombudsman for Manipur and Mizoram as an Interim- arrangement.

No Complains/Petitions have been filed to the Electricity Ombudsmen during the period under Report.

11. ACTIVITIES OF THE COMMISSION

As per the functions of the Commission specified under Section 86 of the Electricity Act 2003, the following are the main activities of the Commission during the year.

Section of EA 2003	Functions specified	Activities during the year
86(1)(a)	<i>Determination of tariff for generation, supply, transmission and wheeling of electricity</i>	<i>Tariff orders issued for both Manipur & Mizoram</i>
86(1)(b)	<i>Regulation of electricity purchase and procurement process of distribution licensee</i>	<i>Regulations made and notified</i>
86(1)(c)	<i>Facilitation of intra state transmission and wheeling of electricity</i>	<i>Transmission and Wheeling charges are determined in tariff order for Mizoram and yet to be determined for Manipur.</i>
86(1)(d)	<i>Issue of licence</i>	<i>There are two deemed licensees in the States of Manipur i.e. P&E Deptt, Mizoram, Manipur State Power Company Limited (MSPCL) and Manipur State Power Distribution Company Limited (MSPDCL) besides trading licence in both the States</i>
86(1)(e)	<i>Promotion of co-generation and renewable sources of energy</i>	<i>RPO has been fixed for the distribution licensees/ captive/open access consumers. REC is introduced</i>
86(1)(f)	<i>Adjudicate upon disputes</i>	<i>No disputes received</i>
86(1)(g)	<i>Levy of fee</i>	<i>Fee as per the provisions of the Regulations is being collected</i>
86(1)(h)	<i>Specify State Grid Code</i>	<i>The existing State Grid Code is under modification</i>
86(1)(i)	<i>Enforcement of Standards</i>	<i>The quality, continuity and reliability of services by licensees are being monitored on a regular basis</i>
86(1)(j)	<i>Advisory Role</i>	<i>State Advisory Committee and Co-ordination Forum meetings are held as and when felt necessary</i>
86(1)(k)	<i>Ensuring transparency in the functioning of the Commission</i>	<i>Public hearing and written comments/suggestion are invited in respect of petitions filed for tariff revision and issue of other important orders and Regulations</i>
86(1)(l)	<i>Commission to be guided by NEP and Tariff Policy</i>	<i>The Commission has been following the broad guidelines, provisions of NEP and Tariff Policy in discharge of its mandated functions</i>

12. LEGAL INFORMATION

The Commission subscribed law journals/reports/Collected CDs to update information on latest judicial precedents/legislative developments. It gathered relevant information on Acts, Rules, Regulations and Orders on legal and regulatory matters relating to electricity. Relevant Orders of High Courts, Supreme Court, Central Electricity

Regulatory Commission (CERC), Appellate Tribunal for Electricity (ATE), Rules and Notifications of Govts. of Manipur, Mizoram and Govt. of India.

13. DISTRICT ELECTRICITY COMMITTEE

The Commission requested the State Governments of Manipur and Mizoram to constitute District Electricity Committee as per Section 166 (5) of the Electricity Act, 2003. The relevant section is quoted as below:

Section 166 (5) : There shall be a committee in each district to be constituted by the Appropriate Government-

- a) to coordinate and review the extension of electrification in each district;
- b) to review the quality of power supply and consumer satisfaction;
- c) to promote energy efficiency and its conservation.

14. STATE LOAD DESPATCH CENTRE TO FUNCTION AS INDEPENDENT SYSTEM OPERATION (ISO)

Section 31 and 32 of the Electricity Act, 2003 contemplate SLDC as an Independent Apex Body to ensure integrated operation of the power system in the State. The Act also provides for financial independence of SLDC under Section 32 (3) by way of levy and collection of fees and charges from generating companies and the licensees using the Intra-State transmission network, Joint Electricity Regulatory Commission for Manipur and Mizoram formulated, the Joint electricity Regulatory Commission for Manipur & Mizoram (Fees and Charges of SLDC and other Related matters) Regulations, 2010 for implementation of levy of annual fee and charges for SLDC functions in Manipur & Mizoram.

The Manipur State Government has established the SLDC as an independent entity by segregating from the State Transmission Utility (MSPCL), Manipur in the form of “Manipur State Load Despatch Society” to give effect to the provisions of The Electricity Act, 2003 and Clause 4 (1) (a) of the Transfer Scheme 2013 in respect of Manipur State Electricity Reforms Transfer Scheme, 2013.

This society will be called “Manipur State Load Despatch Centre” and will be registered under Manipur Societies Registration Act. A copy of the notification is at Annexure V.

At present Mizoram Govt. has not established an independent SLDC as far. But SLDC is being set up and the basic functioning has started under the control of one Superintending Engineer of Power & Electricity Department.

CHAPTER - III

1. HUMAN RESOURCE DEVELOPMENT

During the period reported, the Commission and its Officer have attended various Capacity Building Training and Meeting at various venues conducted by FOR, etc. The list of the Meetings, Seminars, etc attended is at Annexure – VI.

2. ACCOUNTS OF THE COMMISSION

The Commission received fund as Grant-in-Aid amounting to Rs. 36,144,615 from the State Governments of Manipur and Mizoram for utilization during April, 2017 to March, 2018.

The details Statement of Receipts and Payments thereof are as below:

RECEIPTS & PAYMENT ACCOUNTS FOR THE MONTH OF APRIL 2017 - MARCH 2018 (GIA)

S/N	Receipts	Amount (Rs)	S/N	Payment	Total Amount drawn (Rs)	Adjustment in reduction of Expenditure	Actual Expenditure (Rs)
	To —			By —			
1	Opening Balance		1	Advertisement & Publicity	218,730		218,730.00
	i) On Current a/c	6,140,671.50	2	Bonus/ CEA	130,020		130,020.00
	ii) Cash in hand		3	Books	1,510		1,510.00
			4	Consultancy	2,374,800		2,374,800.00
	GIA received	14,643,000.00	5	Electricity & Power	33,632		33,632.00
	from Manipur		6	Expenses on Fees	200,000		200,000.00
			7	Furniture & Fixtures	58,540		58,540.00
	GIA received	13,956,000.00	8	Insurance	64,243		64,243.00
	from Mizoram		9	L/F for Quarters retention	4,400		4,400.00
	Fees receipt		10	Leave Travel Concession	75,130		75,130.00
	on 24.8.17	25.00	11	Machinery & Equipment	49,650		49,650.00
	Internal loan from		12	Medical Reimbursement	2,083,635		2,083,635.00
	Receipt Account	1,404,918.00	13	Motor Vehicle			0.00
			14	Newspapers & Periodicals	59,330		59,330.00
			15	Other Office Expenses	82,239		82,239.00
			16	Pension & Leave Salary contribution	224,022		224,022.00
			17	Petroleum Oil & Lubricants	445,272	12,083.00	433,189.00

			18	Postage	27,472		27,472.00
			19	Printing	1,217,168		1,217,168.00
			20	Repair & Maintenance			0.00
				i) Building			0.00
				ii) Furniture & Fixtures (F&F)			0.00
				iii) Machinery & Equipment (M&E)	41,010		41,010.00
			21	Retirement & Terminal Benefit	574,218		574,218.00
			22	Seminar & Workshop	414,750	23,295.00	391,455.00
			23	Stationery	219,883		219,883.00
			24	Subscription Fee	972,250		972,250.00
			25	Telephone & Communication	309,968		309,968.00
			26	Travelling Expenses (Domestic)	1,174,776	22,530.00	1,152,246.00
			27	Vehicle Running & Maintenance	446,704		446,704.00
			28	Wages	2,115,430		2,115,430.00
			29	Pay and Allowances :			0.00
				I. Chairperson & Member	792,275		792,275.00
				i) License Fee	2,750		2,750.00
				II. Officers & Staff	11,212,857		11,212,857.00
				Remittance :-			0.00
				i) GPF	650,000		650,000.00
				ii) IF	3,640		3,640.00
				iii) SF	1,560		1,560.00
				iv) License Fee	5,200		5,200.00
				v) NPS Contribution	865,823		865,823.00
				vi) NPS Matching Share	865,823		865,823.00
			29	Recovery of Internal loans	2,809,836		2,809,836.00
				Total Payment	30,828,546	57,908	30,770,638.00
				Bank Balance			5,373,976.50
				Cash Balance			0.00
	GRAND TOTAL	36,144,614.50		GRAND TOTAL			36,144,614.50

3. REGULATION

In exercise of the power conferred under sub-section (2) of Section 181 of the Electricity Act, 2003, the Commission has so far published 43 (forty three) Nos of Regulations in the State gazettes of Manipur and Mizoram. As required by the Electricity Act, 2003 each of these Regulations was notified and kept open for obtaining views and suggestions from interested groups and individuals, before they are finally published. The lists of regulations so far notified are indicated at Annexure -X.

CHAPTER – IV

BASIC ELECTRICITY STATISTICS

1 : Category wise Consumers and Connected load

Table – I

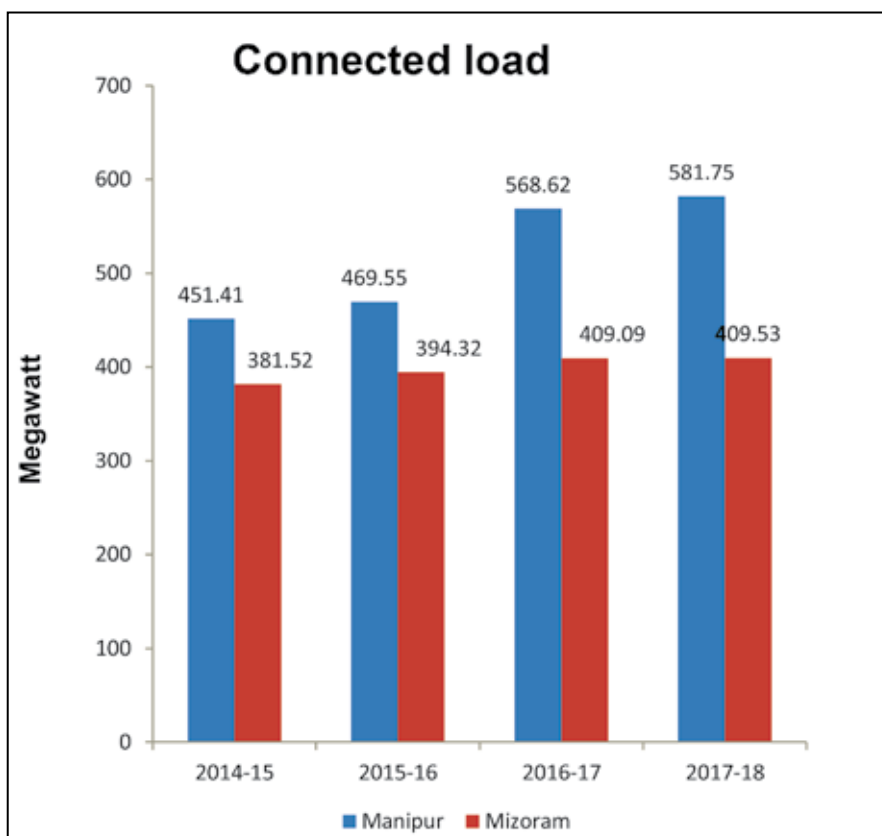
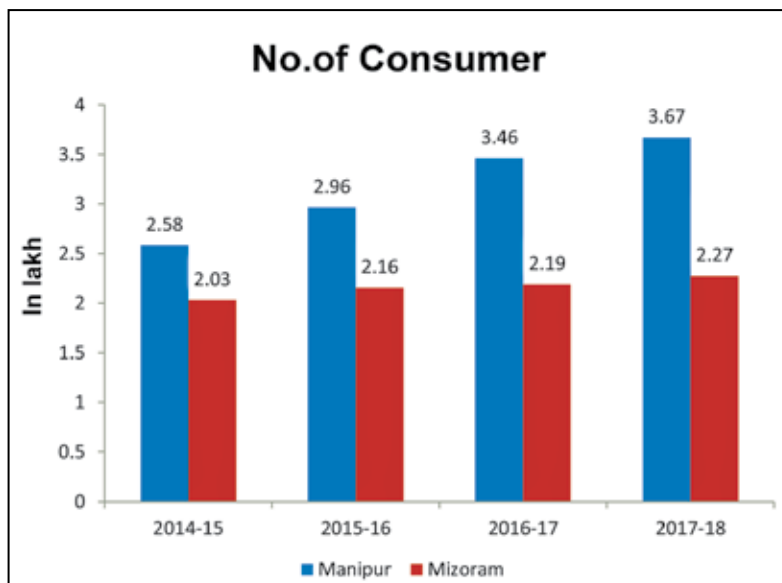
MANIPUR

Sl No	Category	2014-15		2015-16		2016-17		2017-18	
		No. of Consumer	Connected Load (kW)	No. of Consumer	Connected Load (kW)	No. of Consumer	Connected Load (kW)	No. of Consumer	Connected Load (kW)
1	2	3	4	5	6	7	8	9	10
1	Domestic	242562	317523	279194	332294	328131	423525	347988	473174
2	Commercial	12100	33837	13439	34897	14153	43398	15196	38999
3	Public Lighting	469	1016	483	1027	441	1064	441	1144
4	Public Water Works	172	20303	175	19851	180	21376	184	15035
5	Irrigation and agriculture	63	1035	63	1131	64	978	64	742
6	Small Industry	2308	16404	2280	16914	2317	17688	2317	18845
7	Medium Industry	81	8096	74	8381	73	7319	73	1095
8	Large Industry	23	2433	23	2321	25	3361	27	3993
9	Bulk Supply	694	50758	730	52732	710	49914	718	28726
	Total	258472	451405	296461	469548	346094	568623	367008	581753

MIZORAM

Sl No	Category	2014-15		2015-16		2016-17		2017-18	
		No. of Consumer	Connected Load (kW)	No. of Consumer	Connected Load (kW)	No. of Consumer	Connected Load (kW)	No. of Consumer	Connected Load (kW)
1	2	3	4	5	6	7	8	9	10
1	Domestic	189312	270971	198520	274477	200365	282334	206397	282637
2	Commercial	11985	43435	14400	51372	16350	56523	18570	56584
3	Public Lighting	803	1620	1524	1609	1259	1046	1322	1047
4	Irrigation and agriculture	21	104	21	104	21	105	22	105
5	Public Water Works	49	36001	57	37723	58	38443	61	38482
6	LT Industrial	777	5859	875	4842	783	4152	818	4156
7	HT Industrial	18	10646	21	9848	18	8853	19	8862
8	Bulk Supply	159	12882	152	14346	147	17636	287	17656
	Total	203124	381518	215570	394321	219001	409092	227496	409529

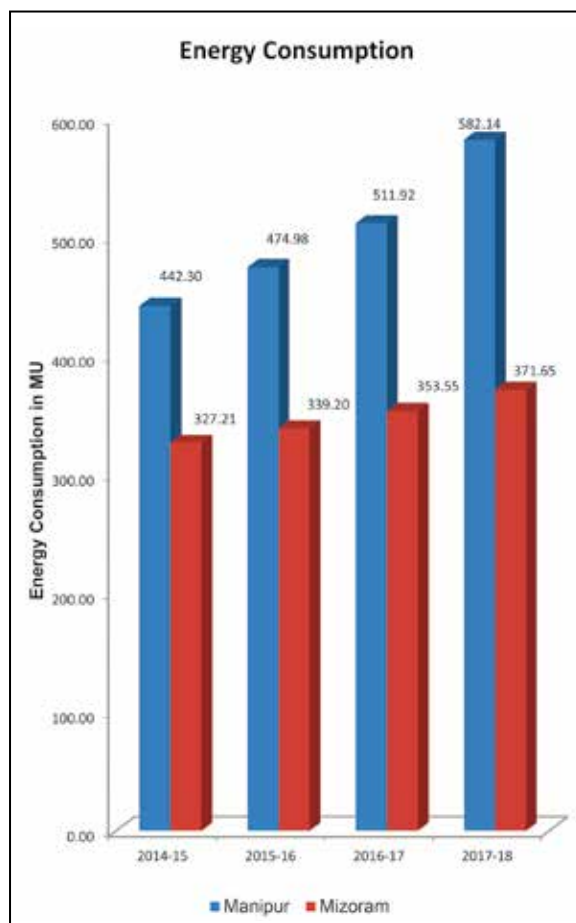
Source : Tariff Petitions & Tariff Orders



2 : Growth of Energy Consumption**Table – II**

S/N	Category	2014-15	2015-16	2016-17	2017-18
		(Actual)	(Actual)	(Actual)	(Actual)
1	2	3	4	5	6
A.	Manipur				
1	Domestic	256.64	298.85	322.10	385.58
2	Commercial	35.83	39.84	42.94	44.79
3	Public Lighting	4.40	4.13	4.45	5
4	Public Water Works	16.99	16.69	17.99	18
5	Irrigation and Agriculture	2.41	1.78	1.92	2.18
6	Small Industry	18.13	16.20	17.46	18
7	Medium Industry	2.79	3.14	3.38	4
8	Large Industry	8.22	4.48	4.82	6
9	Bulk Supply	96.86	89.75	96.73	98.59
10	Temporary Power Supply	0.03	0.12	0.13	0
	Total (A)	442.30	474.98	511.92	582.14
B.	Mizoram				
1	Domestic	217.79	222.27	238.31	249.93
2	Commercial	34.01	37.48	33.87	36.11
3	Public Lighting	7.20	6.50	4.89	4.89
4	Public Water Works	46.68	49.19	49.96	52.04
5	Irrigation and Agriculture	0.04	0.05	0.27	0.28
6	Industrial(LT)	1.87	1.97	1.64	1.64
7	Industrial(HT)	6.77	7.20	8.83	9.27
9	Bulk Supply	12.48	14.13	15.28	17.49
10	Temporary Power Supply	0.37	0.41	0.50	0
	Total (B)	327.21	339.20	353.55	371.65

Source : Tariff Orders



3 : Growth of Per Capita Consumption of Electricity (based on energy sold)

Table – III

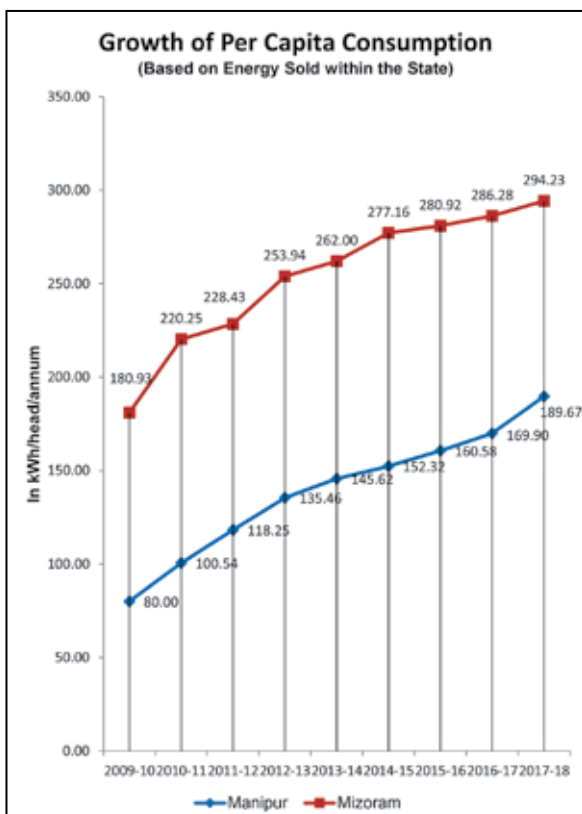
S/N	Year	Population at the end of FY (No.)	Mid-Year Population (No.)	Energy consumption (MU)	Per Capita Consumption (kWh/head/annum)
1	2	3	4	5	6
A.	Manipur				
1	2009-10	2670995	2646088	211.69	80.00
2	2010-11	2721756	2696376	271.10	100.54
3	2011-12	2772517	2747137	324.84	118.25
4	2012-13	2824224	2798371	379.06	135.46
5	2013-14	2876896	2850560	415.09	145.62

6	2014-15	2930550	2903723	442.30	152.32
7	2015-16	2985205	2957878	474.98	160.58
8	2016-17	3040879	3013042	511.92	169.90
9	2017-18	3097591	3069235	582.14	189.67

Note: Population is worked out based on Decadal growth rate of 18.65% as per Census 2011.

B.	Mizoram				
1	2009-10	1066161	1054018	190.70	180.93
2	2010-11	1091014	1078588	237.56	220.25
3	2011-12	1115867	1103441	252.06	228.43
4	2012-13	1141286	1128577	286.59	253.94
5	2013-14	1167284	1154285	302.42	262.00
6	2014-15	1193875	1180580	327.21	277.16
7	2015-16	1221071	1207473	339.20	280.92
8	2016-17	1248887	1234979	353.55	286.28
9	2017-18	1277337	1263112	371.65	294.23

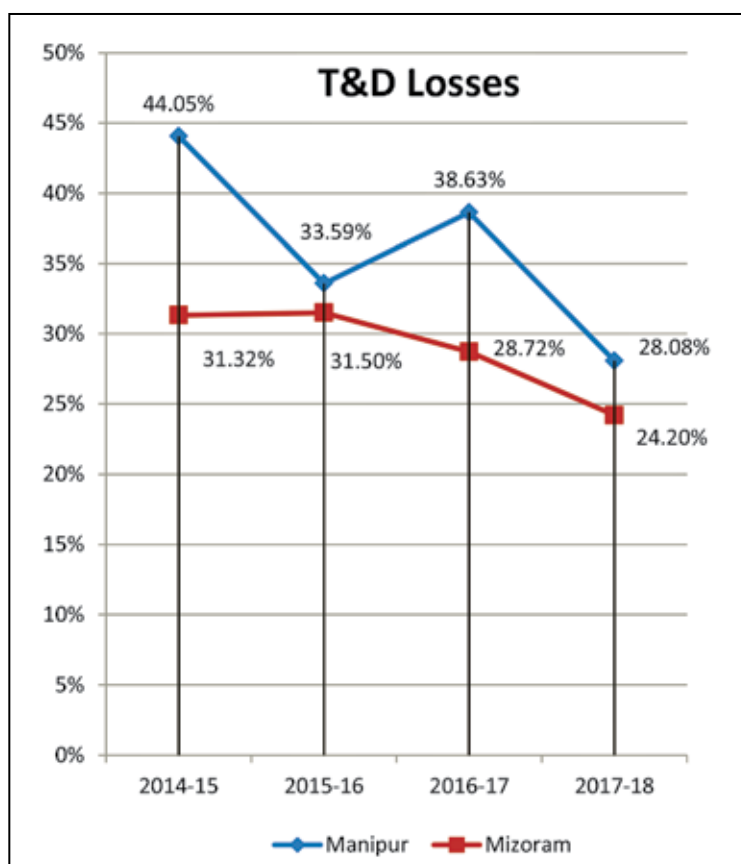
Note: Population is worked out based on Decadal growth rate of 22.78% as per Census 2011.

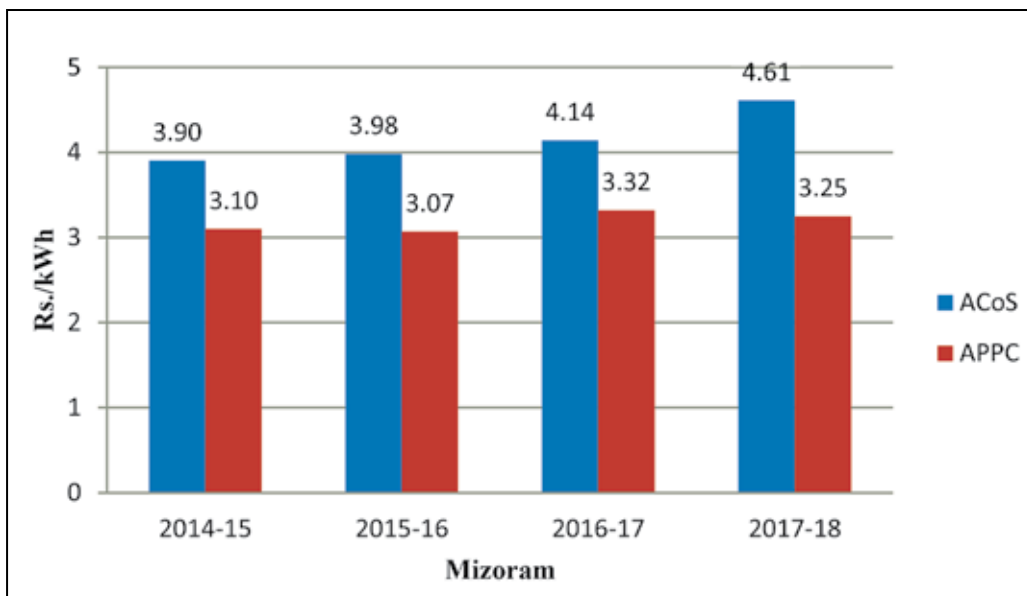
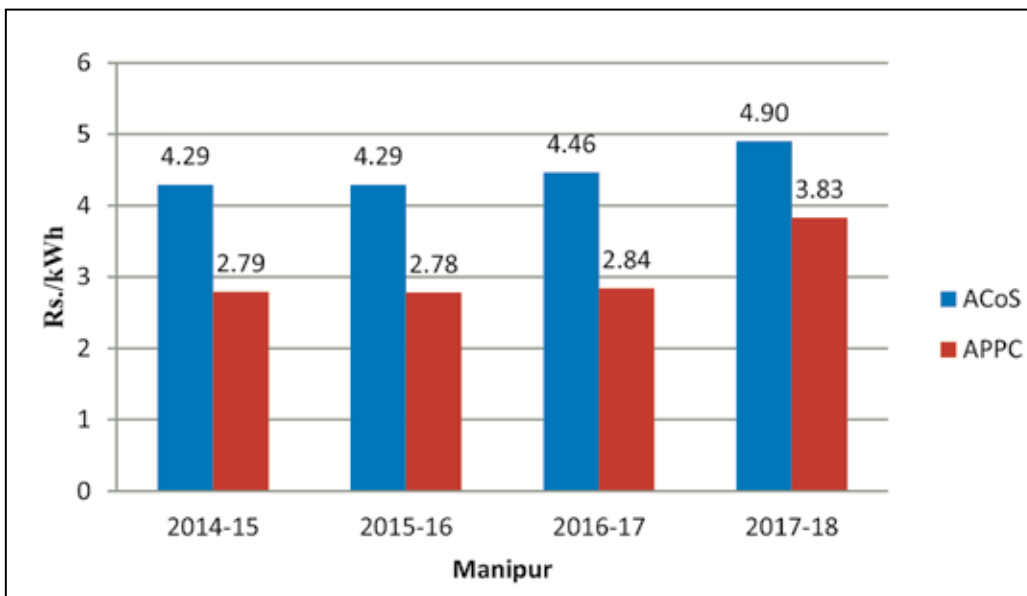


4 : Trend of Transmission & Distribution Losses**Table – IV**

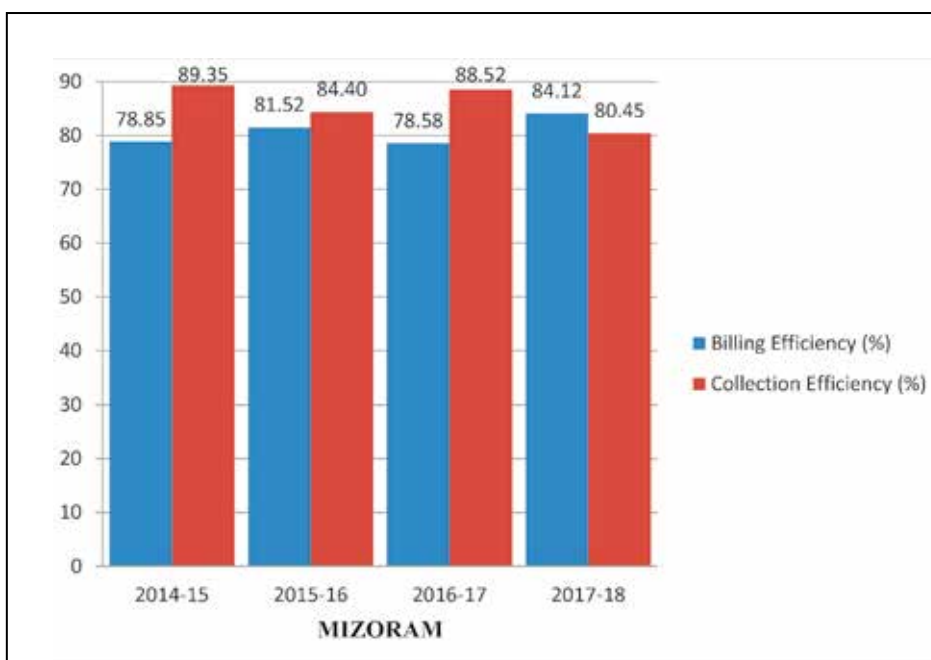
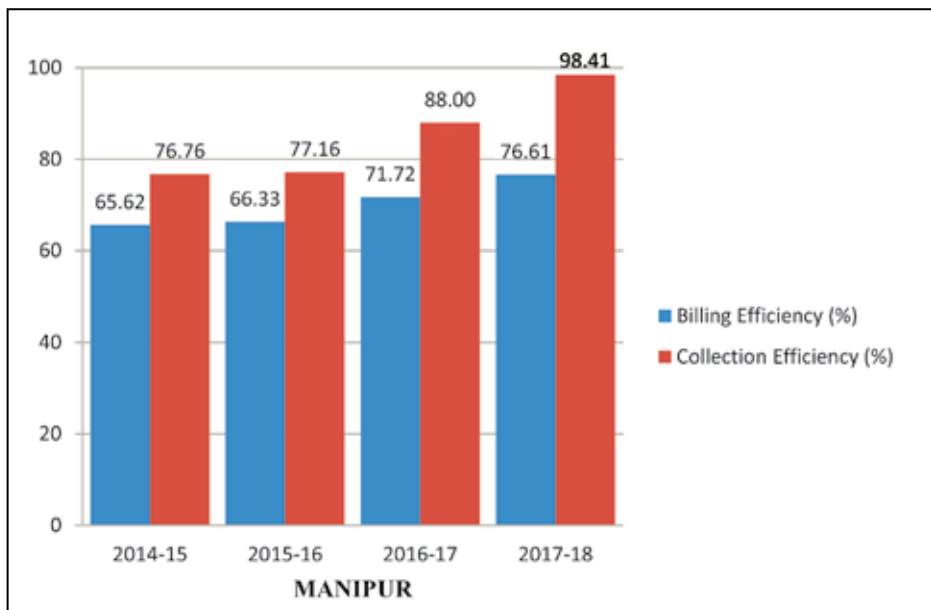
S/N	Particulars	2014-15	2015-16	2016-17	2017-18
1	2	3	4	5	6
A.	Manipur				
1	Energy import at State periphery	790.55	715.23	834.16	809.44
2	Energy sold within the State	442.30	474.98	511.92	582.14
3	T&D Losses	348.25	240.25	322.24	227.30
4	Percentage T&D Losses	44.05%	33.59%	38.63%	28.08%
B.	Mizoram				
1	Energy import at State periphery	476.45	495.20	495.99	490.32
2	Energy sold within the State	327.21	339.20	353.55	371.66
3	T&D Losses	149.24	156.00	142.44	118.66
4	Percentage T&D Losses	31.32%	31.50%	28.72%	24.20%

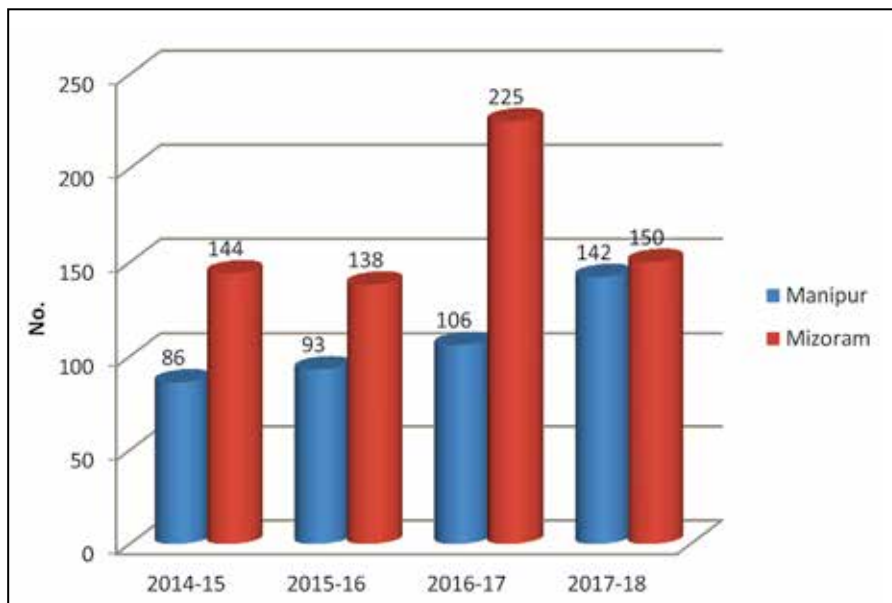
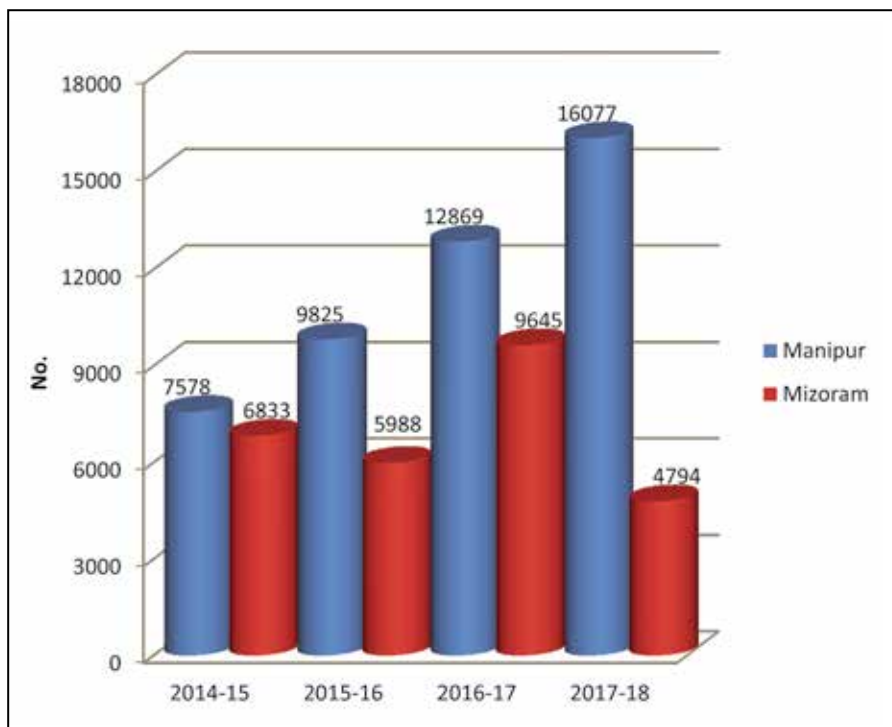
Source : Tariff Orders



5 : Average Cost of Supply (ACoS) and Average Power Purchase Cost (APPC)

Source : Tariff Orders

6 : Billing Efficiency and Collection Efficiency (%)*Source : Tariff Orders*

7 : Failure of Distribution Transformers (No.)**8 : Number of Faulty Energy Meters (No.)**

Source : Tariff Orders

9 : AT&C Loss**Table – V**

S/N	Particulars	Calculation	Manipur	Mizoram	Manipur	Mizoram
			2016-17		2017-18	
A	Input Energy (MkWh)	Energy Generated - Auxiliary Consumption + Energy Purchased (Gross)* - Energy Traded / Inter State Sales.	760.64	510.6	830.15	505.48
B	Transmission Losses (MkWh)		46.81	39.35	93.96	38.94
C	Net Input Energy (MkWh)	A-B	713.83	471.25	736.19	466.54
D	Energy Sold (MkWh)	Energy sold to all categories of consumers excluding units of Energy Traded/Inter-States Sales	511.92	353.54	563.98	395.78
E	Revenue from Sale of Energy (Rs.Cr)	Revenue from Sale of Energy to all categories of consumers (including Subsidy Booked) but excluding Revenue from Energy Traded/Inter-State Sales	345.98	162.93	354.22	289.66
F	Adjusted Revenue from Sale of Energy on Subsidy Received basis (Rs. Cr)	Revenue from Sale of Energy (Same as E above) minus Subsidy Booked plus Subsidy Received against subsidy booked during the year	332.52	162.93	353.99	289.66
G	Opening Debtors for Sale of Energy (Rs.Cr)	Opening debtors for sale of Energy as shown in Receivable Schedule (without deducting provisions for doubtful debtors). Unbilled Revenue shall not be considered as Debtors.	396.68	17.78	424.72	14.47
H	Closing Debtors for Sale of Energy (Rs. Cr)	i) Closing debtors for Sale of energy as shown in Receivable Schedule (Without deducting provisions for doubtful debts). Unbilled Revenue shall not be considered as Debtors.	424.72	20.77	430.11	39.28
		ii) Any amount written off during the year directly from (i)	0	0	0	0
I	Adjusted Closing Debtors for sale of Energy (Rs. Cr)	H (i+ii)	424.72	20.77	430.11	39.28
J	Collection Efficiency (%)	(F+G-I)/E*100	88.01%	98.16%	98.41%	91.44%
K	Units Realised (Mk-Wh)={Energy Sold* Collection Efficiency}	D*J/100	450.52	347.05	555.03	361.88

L	Units Unrealised (Mk-Wh)={Net Input Energy-Units Realised}	C-K	263.31	124.2	181.16	104.66
M	AT&C Losses (%) =[{Units Unrealised/Net Input Energy}*100]	L/C*100	36.89%	26.36%	24.61%	22.43%

Details of Subsidy Booked and received		Amount in Cr.			
		Manipur	Mizoram	Manipur	Mizoram
		2016-17		2017-18	
1	Subsidy Booked during the year	170.77	NA	120	132
2	Subsidy received during the year (Rs. Cr)				
	i) Subsidy received against subsidy booked for current year (Rs. Cr.)	156.54	NA	120	132
	ii) Subsidy received against booked for previous years (Rs.Cr)	0	NA	0	NIL



Co-ordination Meeting, Imphal, Manipur, 5th Dec. 2017

CHAPTER – V

REGULATORY PROCEDURES

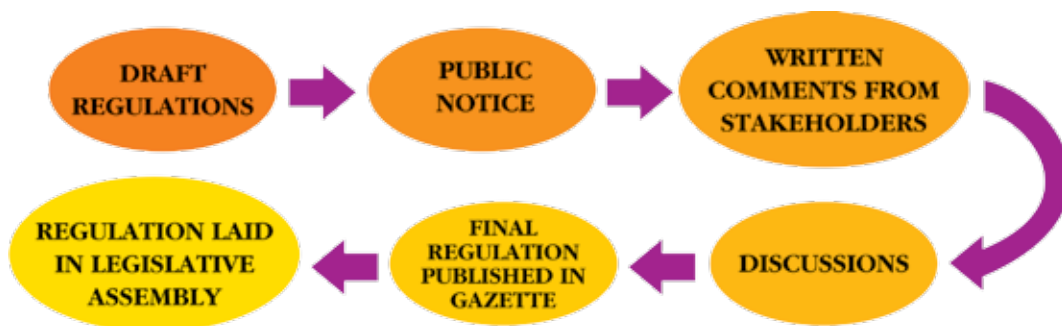
The Commission in discharge of its functions under the provisions of the Electricity Act, 2003:

1. Notifies Regulations
2. Issues orders on petitions relating to
 - Determination of different tariff of electricity.
 - Grant of license
 - Review and miscellaneous petitions.

5.1. Procedure for Regulations

The Commission follows a detailed and transparent process before issuing a Regulation. To start with a draft regulation is developed on the issue on which it is proposed to be made.

The draft regulation is then given wide publicity through electronic and print media inviting comments and suggestions from stakeholders. On receipt of the comments, the issues are discussed thread bare. As per the requirement of the Act, the drafts Regulations then undergo the process of 'Previous Publication'. This implies that the drafts Regulations are published for comments from the stakeholders. It is only after receipt and consideration of the comments that the Regulations are finally published/notified in the Gazette of Manipur and Mizoram.



5.2. Procedure for orders on petitions

Petitions/Applications are made before the Commission primarily for

- Retailed Tariff determination
- Tariff determination for generation and transmission;
- Grant of license for intra-state trading in electricity.

Apart from the above, the following petitions/applications can also be filed before the Commission:

- Miscellaneous Petition
- Review Petition

The applicant file with the Commission petitions along with prescribed fee. The applicants are also required to publish their application on their website and give notice in newspapers inviting objections and suggestions from the public. Thereafter, public hearing are held where the petitioners and the respondents argue their case before the Commission. The Commission passes final orders on the petition after hearing all concerned. The petitioners and the respondents are allowed under the law to file for review before the Commission or appeal against the orders of the Commission before the Appellate Tribunal for Electricity within specified period.

5.3. Process and Principles of Tariff Determination

Prior to the creation of the Commission, the tariff were being determined by the Governments of Manipur and Mizoram through specific notification. As per the requirement of the Act, the determinations of tariff inter-alia are now entrusted to its Commission. In order to discharge this task, the Commission was required to finalize terms & conditions of tariff. After going through transparent process of views and comments of all stakeholders, the Commission finalized and notified Terms & Conditions of Tariff.

The tariff is determined as per the Regulations on Terms and Conditions of Tariff as applicable from time to time. The terms and conditions contain the financial norms and technical norms. The tariff is usually called the cost plus tariff because the capital cost of the project is the starting point for tariff calculations. It would be more appropriate to call it regulated tariff because other than actual capital expenditure, most of the financial & technical parameters adopted for tariff are normative and not actual.

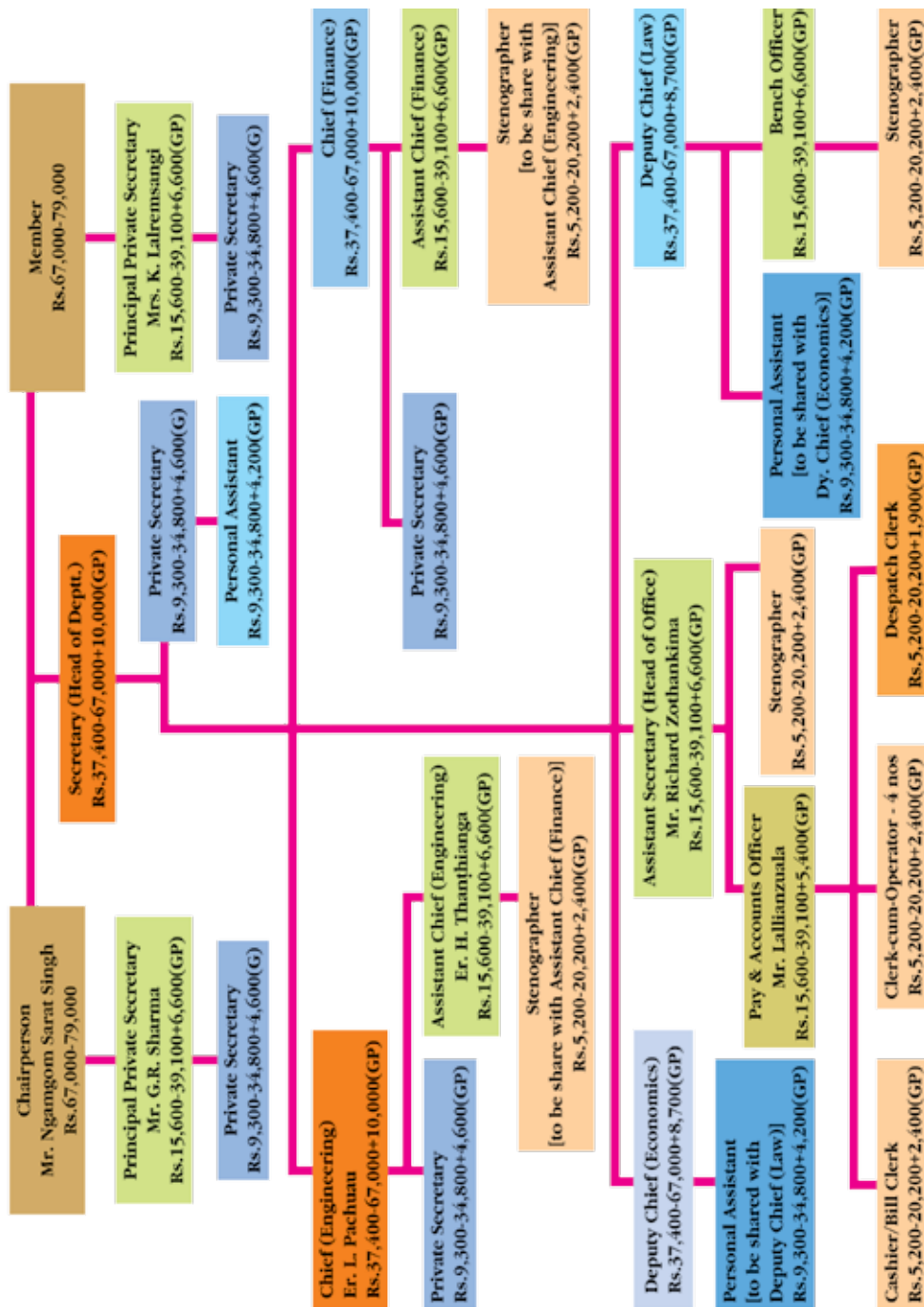
The tariff calculation are quite elaborate, as various elements going into the tariff are computed individually to arrive at the full tariff. The retailed tariff shall be different for different categories of consumers based on the subsidy provided by the State

Governments. The tariff shall be different for each generating station also depending on its admitted capital cost, base fuel price & Gross Calorific Value (GCV) and applicable norms of efficient operation. The exercise is time consuming but essential to ensure that the distribution, transmission and generators function in an efficient and economic manner and do not misuse their dominant position to extract high prices from the buying utilities.

The Commission also utilises the consultancy services of the Administrative Staff College of India, Hyderabad in the finalisation of the retail Tariff determination of the Power Utilities of Manipur and Mizoram.



Electricity Consumer Awareness, Noney, Manipur, 6th Dec. 2017



*Annexure – II (A)***N O T I F I C A T I O N**Dated Aizawl, the 1st February, 2017

No. H. 11019/3/08-JERC: In pursuance of Section 87 of the Electricity Act, 2003 and provisions under the Joint Electricity Regulatory Commission for Manipur and Mizoram (Constitution of State Advisory Committee and its Functions) Regulations, 2010, the Joint Electricity Regulatory Commission for Manipur and Mizoram hereby reconstitutes the State Advisory Committee for the State of Mizoram with the following composition. The term of the Committee shall be for a period of 2 (two) years with effect from the date of issue of this Notification.

- | | | | | | |
|-----|--|---|---|---|---------------------|
| 1. | Chairperson, JERC for Manipur and Mizoram | — | — | — | Ex-officio Chairman |
| 2. | Member, JERC for Manipur and Mizoram | — | — | — | Ex-officio Member |
| 3. | Secretary, Food, Civil Supplies and Consumer Affairs Department | — | — | — | Ex-officio Member |
| 4. | Secretary, Power & Electricity Department | — | — | — | Member |
| 5. | Engineer-in-Chief, PHE Department | — | — | — | Member |
| 6. | Director, Commerce & Industries Department | — | — | — | Member |
| 7. | Commissioner, Aizawl Municipal Corporation | — | — | — | Member |
| 8. | Director, Zoram Electricity Development Agency | — | — | — | Member |
| 9. | President, Mizoram Chamber of Industries and Commerce | — | — | — | Member |
| 10. | President, Mizoram Consumers' Union Gen. Hqrs, Aizawl | — | — | — | Member |
| 11. | President, Mizoram Hmeichhia Insuihkhawm Pawl, Gen. Hqrs, Aizawl | — | — | — | Member |
| 12. | President, Central Young Mizo Association | — | — | — | Member |
| 13. | President, All Mizoram Farmers' Union Gen. Hqrs. Aizawl | — | — | — | Member |
| 14. | President, Mizoram Upa Pawl Gen. Hqrs. Aizawl | — | — | — | Member |

- | | | | | | | | | |
|-----|---|---|---|---|---|---|---|------------------|
| 15. | Er. F. Rualzakhuma, Rtd. C.E. | — | — | — | — | — | — | Member |
| | Power & Electricity Department | | | | | | | |
| 16. | Prof. H. Lalramnghinglova | — | — | — | — | — | — | Member |
| | Department of Env. Sciences, Mizoram University | | | | | | | |
| 17. | Director, Transport Department | — | — | — | — | — | — | Member |
| 18. | Director, LAD | — | — | — | — | — | — | Member |
| 19. | President, Mizoram Journalists' Association | — | — | — | — | — | — | Member |
| 20. | Prof. (Rtd.) Tlanglawma | — | — | — | — | — | — | Member |
| | C-44, Khatla Bethel, Khatla, Aizawl. | | | | | | | |
| 21. | Secretary, JERC for Manipur and Mizoram | — | — | — | — | — | — | Member Secretary |

By Order of the Commission
 Sd/- **RICHARD ZOTHANKIMA**
 Assistant Secretary

*Annexure – II (B)***N O T I F I C A T I O N**

Dated Aizawl, the 26th October, 2015

No. H. 11019/3/08-JERC : In pursuance of Section 87 of the Electricity Act, 2003 and provisions under the Joint Electricity Regulatory Commission for Manipur and Mizoram (Constitution of State Advisory Committee and its Functions) Regulations, 2010, the Joint Electricity Regulatory Commission for Manipur and Mizoram hereby reconstitutes the State Advisory Committee for the State of Manipur with the following composition. The term of the Committee shall be for a period of 2 (two) years with effect from the date of issue of this Notification.

1. Chairperson, JERC for Manipur and Mizoram — — — Ex-officio Chairman
2. Member, JERC for Manipur and Mizoram Secretary — Ex-officio Member
3. Consumer Affairs, Food and Civil Supplies— — — Ex-officio Member
Department, Govt. of Manipur
4. Director, Industries Department, Govt. of Manipur — — Member
5. Director, Manipur Renewable Energy Development— — Member
Agency (MANIREDA), Second Floor, Secured Office,
2nd MR Gate, North AOC, Imphal, Manipur – 795001
6. Director, Agriculture Department, Govt. of Manipur— — Member
7. Dr. Ch. Ibohal Meitei, Professor — — — — — Member
Manipur Institute of Management Studies
Manipur University, Canchipur - 795003
8. Dr. L. Sadananda Singh, General Secretary— — — — — Member
Senior Citizens for Society, Singjamei Mathak
Chongtham Leikai, Imphal
9. Mr. Elangbam Dolendra Singh, Advisor — — — — — Member
All Manipur Power Consumers' Association
Wangkhei Meihoupham, Lampak, Imphal
10. Mr. Irengbam Arun, Senior Journalist— — — — — Member
All Manipur Working Journalists' Union
Manipur Press Club Building, Majorkhul, Imphal

11. Mr. S. Rishikumar Singh, — — — — — Member
President, All Manipur Entrepreneurs' Association
Takyel Industrial Estate, Imphal
12. President, Consumers' Club, Manipur— — — — — Member
Paona Bazar, Diamond Gali, Imphal West-1
13. Dr. Chongtham Narendra Singh (Advocate), — — — — — Member
Former President, District Consumer Redressal Forum (Imphal),
Keisamthong Top-Leirak, Imphal - 795001
14. Mr. G. Khupchinpau (Advocate),— — — — — Member
New Lamka, Churachandpur District, Manipur
15. Mr. Dili, Social Worker— — — — — Member
Karong Village, Senapati District, Manipur
16. Mr. S.K. Sunny Lamkang, Social Worker — — — — — Member
Daapi Village, Chandel District, BPO Chandel, Manipur
17. Mr. Basantakumar Wareppa, Programme Executive — — — — — Member
Human Right Alert, Kwakeithel Thiyam Leikai, Imphal
18. Mrs. Shijagurumayum Sadhana Devi, — — — — — Member
Member, District Consumer Redressal Forum (Bishnupur)
Moirankhom, Imphal - 795001
19. Dr. M. Binota Devi, Associate Professor, — — — — — Member
Department of Economics, Imphal College, Imphal - 795001
20. Dr. Lucy Jajo Symrey, Associate Professor,— — — — — Secretary
Department of Economics, DM College of Arts, Imphal - 795001
21. Secretary, JERC for Manipur and Mizoram — — — — — Member-Secretary

By order of the Commission
Sd/- RICHARD ZOTHANKIMA
Assistant Secretary

Annexure – III

**GOVERNMENT OF MANIPUR
SECRETARIAT : POWER DEPARTMENT**

ORDERS BY THE GOVERNOR: MANIPUR

Imphal, the 28th June, 2014

No.9/8/2009-Power: In partial modification of this Government order of even number dated 20.10.2010, the Governor of Manipur is pleased to re-constitute a 'Co-ordination Forum' consisting of the following members with immediate effect and until further orders:

- | | |
|---|----------|
| 1. Chairman, Joint Electricity Regulatory Commission
(Manipur & Mizoram) | Chairman |
| 2. Member Joint Electricity Regulatory Commission
(Manipur & Mizoram) | Member |
| 3. Managing Director, Manipur State Power Company Limited | Convener |
| 4. Managing Director
Manipur State Power Distribution Company Limited | Member |
| 5. Director, MANIREDA, Imphal | Member |

Periodicity of the Forum of meeting shall be in February and August every year.

The function of the Forum shall be as follows:

- a) To facilitate attracting adequate investment for development of the power system in the state
- b) To facilitate smooth and reliable operation of the State Grid at intrastate level
- c) To facilitate connectivity to the Grid for generating companies and to the distribution companies and open access to the transmission and distribution system for licensee/beneficiaries and open access customers
- d) To facilitate and evolve consensus on any other aspect of the development of power system as referred to the forum by the State Government.

By Orders & in the name of Governor
Sd/- **RAJESH AGRAWAL**
Commissioner (Power)
Government of Manipur

Annexure –IV

**GOVERNMENT OF MIZORAM
POWER & ELECTRICITY DEPARTMENT**

NOTIFICATION

Dated Aizawl the 12th July, 2010

No.B.16012/27/2008-P&E/Pt.III : In continuation of this Notification of even No. dt.5.8.2009, the Governor of Mizoram is pleased to designate Engineer-in-Chief (P&E) as Member-Convener in the State Co-Ordination Forum.

Consequence to the above, the composition of the State Co-Ordination Forum for Mizoram will be as below :

1. Chairperson : Chairman, JERC
2. Member-Convener : Engineer-in-Chief, P&E Department
3. Member : 1) Member, JERC
2) Joint Secretary, P&E Department
3) Director, ZEDA

The State-Co-Ordination Forum may meet at least once in 3 (three) months.

Sd/- **JOLLY NEWMAN**
Joint Secretary to the Govt. of Mizoram
Power & Electricity Department

Memo No.B.16012/27/2008-P&E/Pt.III Dated Aizawl, the 12th July, 2010

- Copy to :
1. Sr. PPS to Chief Secretary, Mizoram
 2. Chairman, JERC - Chairperson, State Co-Ordination Forum
 3. Member, JERC - Member, State Co-Ordination Forum
 4. Engineer-in-Chief (P&E), Member, State Co-Ordination Forum
 5. Director, ZEDA - Member, State Co-Ordination Forum
 6. Assistant Secretary, JERC for Manipur & Mizoram
with reference to his letter No.H.11019/24/09-JERC dt. 25.6.2010
 7. Guard File

Sd/- **NGURSALOVA SAILO**
Under Secretary (Tech) to the Govt. of Mizoram
Power & Electricity Department

GOVERNMENT OF MANIPUR SECRETARIAT POWER DEPARTMENT

NOTIFICATION

Imphal the 18th September, 2015

No.60/4/2015 - Power : In exercise of the power conferred under Section 31 of the Electricity Act, 2003. the Governor of Manipur is pleased to order the establishment of State Load Despatch Centre (SLDC) as an independent entity by segregating from the State Transmission Utility (MSPCL), Manipur in the form of 'Manipur State Load Despatch Society' to give effect to the provisions of The Electricity Act, 2003 and Clause 4 (1)(a) of the Transfer Scheme 2013 issued vide Notification No.5/5/2011-Power dated 31st December, 2013 in respect of Manipur State Electricity Reforms Transfer Scheme, 2013.

This society will be called 'Manipur State Load Despatch Centre' and will be registered under the Manipur Societies Registration Act.

Constitution of the Society

The Society, as under, will have a general body headed by the Administrative Secretary (Power), Government of Manipur –

S/N	Description	Designation
1	Administrative Secretary (Power)	Chairman
2	MD, MSPCL	Member
3	MD, MSPDCL	Member
4	Representative of Finance Department (not below the rank of Administrative Secretary (Power), Government of Manipur	Member
5	Deputy/Joint Secretary (Power)	Member
6.	Executive Director (Tech), MSPCL	Member
7	Executive Director (Tech), MSPDCL	Member
8	General Manger SLDC, Manipur	Member-Secretary

The Society will also have an Executive Committee comprising of the following:

<i>S/N</i>	<i>Description</i>	<i>Designation</i>
1	<i>Administrative Secretary (Power)</i>	<i>Chairman</i>
2	<i>Deputy/Joint Secretary (Power)</i>	<i>Member</i>
3	<i>General Manager, SLDC. Manipur</i>	<i>Member-Secretary</i>

Functions of the Society

- a) To maintain the affairs of SLDC in Manipur and to perform such roles and functions as mentioned in the Indian Electricity Act, 2003 (as amended from time to time) for the State Load Despatch Centre.
- b) Collecting such fees and charges that may be required to be collected by SLDC.
- c) To keep accounts, maintain data/record connected with the functions to SLDC and to maintain the assets, machiner and equipment, etc. of SLDC or such other assets that may be acquired by it for performing its functions
- d) To identify appropriate Human Resources and arrange specialized training for them.
- e) Matters relating to Intra and Inter-State Power Supply.
- f) All other matters or Rules relating to effective and efficient working of SLDC and matters as may be entrusted by the State Government from time to time.
- g) The Manipur State Load Despatch Centre (MSLDC) is to be ring fenced suitably before the Centre is made operational.

Sd/- **Th. KIRAN KUMAR**
Joint Secretary (Power)
Government of Manipur

**Training, Seminars and Meetings attended,
1st April 2017 – 31st March 2018**

S/N	Name and Designation	Particulars of programme	Duration	Venue
1	Mr. Lalchharliana Pachuau, Chief (Engineer)	IPPAI East & N.E. India Power Conclave, 2017	26th April, 2017	Kolkatta
2	Er. H. Thanthianga, Assistant Chief(Engineering)	Workshop on Best practices study-tour, Training & Ca- pacity building programme on Renewable Energy Evac- uation & details Communi- cations	9th - 12th May, 2017	Bengaluru, CBI&P
3	Mr. Lalchharliana Pachuau, Chief(Engineering)	4th Annual Conference on metering in India	3rd – 4th July, 2017	New Delhi
4	Mr. Lalchharliana Pachuau, Chief(Engineering)	Regional(NE)Workshop- cum-seminar for sensitizing & experience sharing about PAI scheme among the BEE, SERCs, SDAs & DCs	4th Aug, 2017	Shillong
5	Mr. Richard Zothankima, Assistant Secretary	Right to Information Act and effective Office management.	21st – 25th Aug. 2017	Goa
6	Mr. Lalchharliana Pachuau, Chief (Engineering)	18th Regulatory & Policy- makers Retreat 2017(RPR) at Belgaum	26th – 29th Oct, 2017	Karnataka
7	Mr. Ng. Sarat Singh, Chairperson	Capacity Building pro- gramme for Officers of SERCs/JERCs in the North East Region.	17th – 19th Nov, 2017	Manesar
8	Mr. Ng. Sarat Singh, Chairperson	62nd Meeting of the Forum of Regulations	15th Dec 2017	New Delhi
9	Mr. Ng. Sarat Singh, Chairperson	Interaction with Hon'ble Minister for Power	8th Jan, 2018	New Delhi
10	Mr. Lalchharliana Pachuau, Chief (Engineering)	International Seminar on “Energy Storage Options for Renewable Energy Integra- tion”	29th Jan, 2018	New Delhi

Annexure – VII

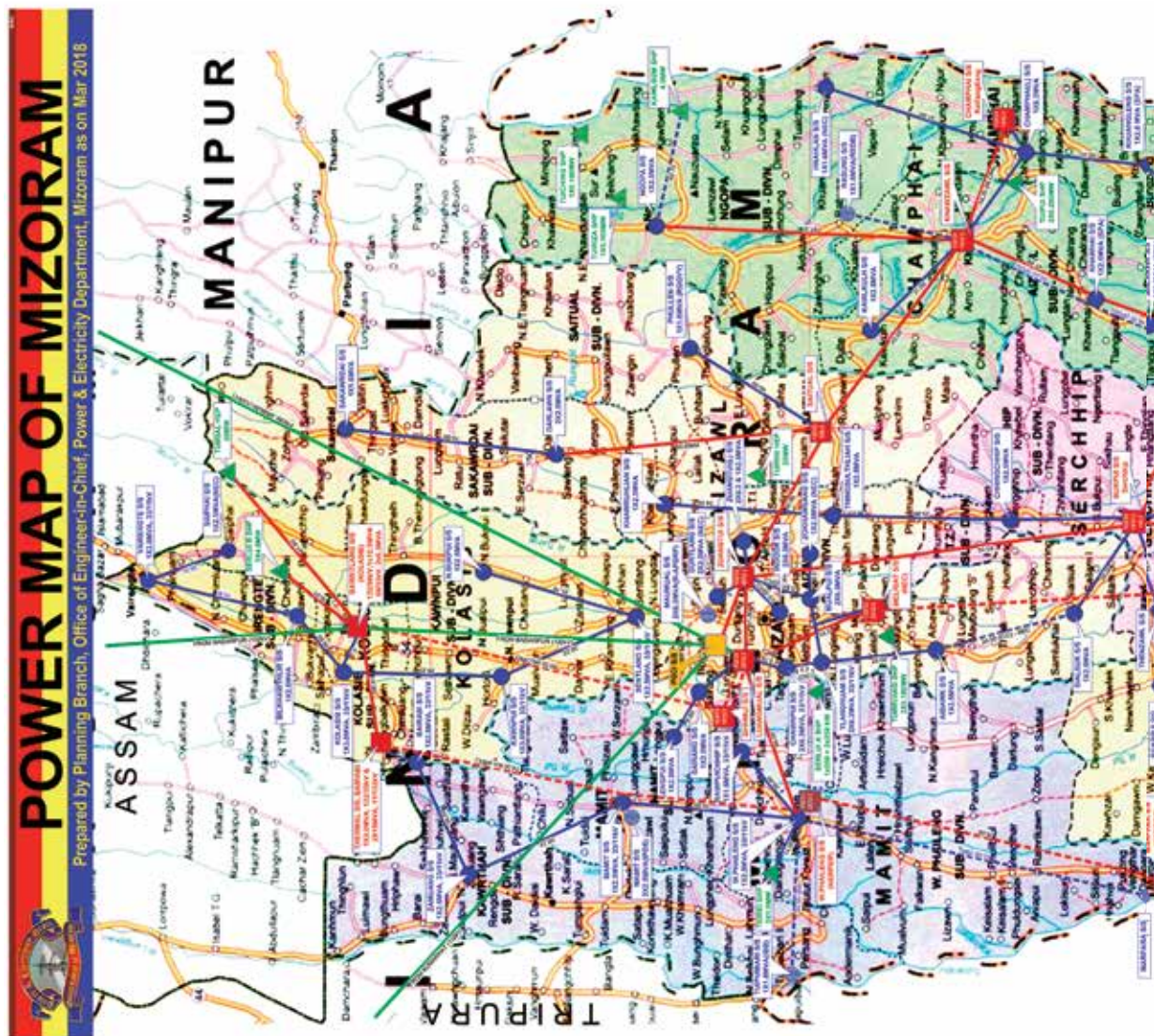
**Category-wise Electricity Tariff prevailing in the state of
MANIPUR during FY 2017-18**

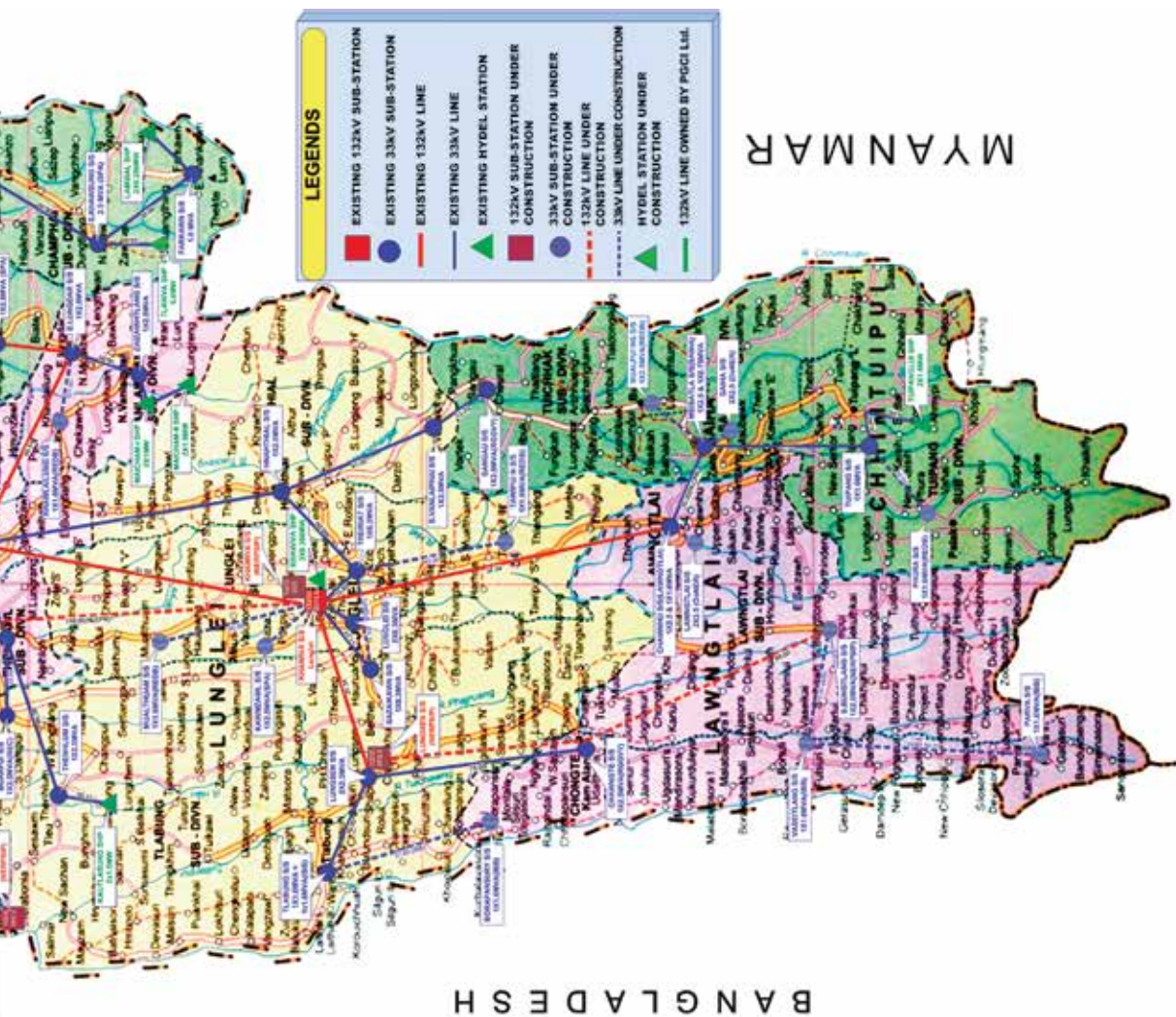
S/N	Category & Consumption Slab	Fixed charges per month (Rs.)	Energy Charges (Rs./kWh)
	LT SUPPLY		
1	KutirJyoti	20 per connection	
	All units (Upto 45 kwh/ 3 Months)		1.60
2	Domestic	60/kW	
	First 100 kwh/Month		3.30
	Next 100 kwh/Month		4.00
	Above 200 kwh/Month		5.10
3	Non-Domestic/Commercial	80/kW	
	First - 100 kwh/Month		4.50
	Next 100 kwh/Month		5.50
	Above 200 kwh/Month		6.60
4	Public Lighting	65/kW	6.00
5	Public Water Works	100/kW	6.35
6	Irrigation & Agriculture	60/kW	3.25
7	Small Industry	65/kW	3.50
	HT SUPPLY		
1	Commercial	100/kVA	6.50
2	Public Water Works	100/ kVA	5.75
3	Irrigation & Agriculture	100/ kVA	3.15
4	Medium Industry	100/ kVA	4.50
5	Large Industry	100/ kVA	5.60
6	Bulk Supply	100/ kVA	5.00

Category-wise Electricity Tariff prevailing in the state of MIZORAM during FY 2017-18

Sl.No	Category	Fixed charges per month (Rs.)	Energy Charges (Rs./kWh)
1	KutirJyoti	12 per connection	
i)	First 15 kWh		1.50
ii)	Next 15 kWh		2.15
iii)	> 30		2.45
2	Domestic LT	35/kW	
i)	First 50 Units		2.45
ii)	Next 50 Units		3.40
iii)	Next 100 Units		4.40
iv)	Balance above 200 Units		5.00
3	Domestic HT	35/KVA	4.80
4	Non-domestic/ Commercial LT	65/kW	
i)	First 100 Units		3.80
ii)	Next 100 Units		4.80
iii)	Balance above 200 Units		5.80
5	Commercial HT	65/KVA	5.50
6	Public Lighting LT	60/kW	5.20
7	PWW LT	75/kW	5.10
8	PWW HT	75/KVA	4.90
9	Irrigation & Agri LT	35/kW	2.00
10	Irrigation & Agri HT	35/KVA	1.95
11	Industrial LT	65/kW	
i)	First 400 Units		4.00
ii)	Balance above 400 Units		4.75
12	Industrial HT	65/KVA	4.55
13	Bulk Supply HT	70/KVA	4.30

Annexure – VIII

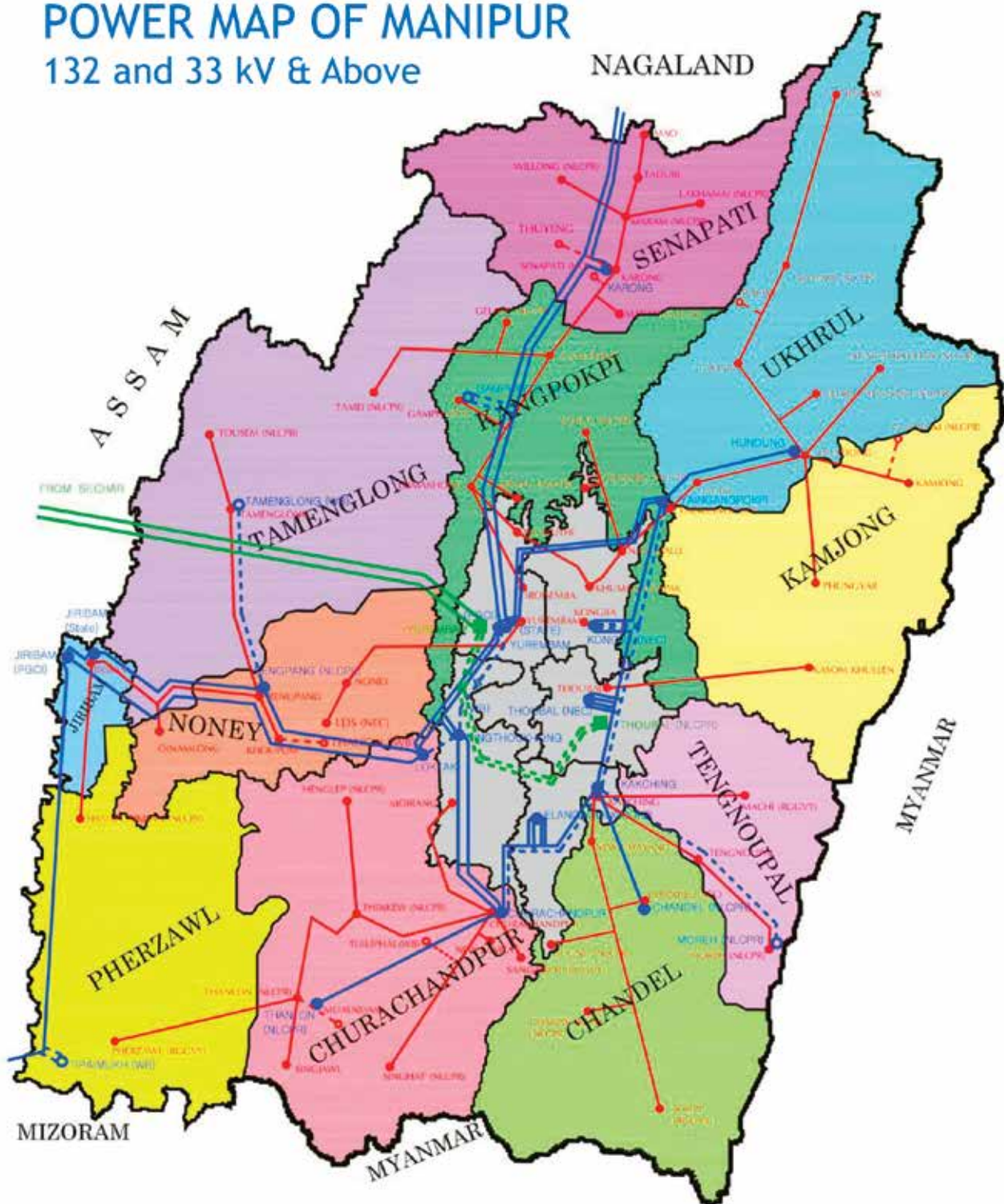


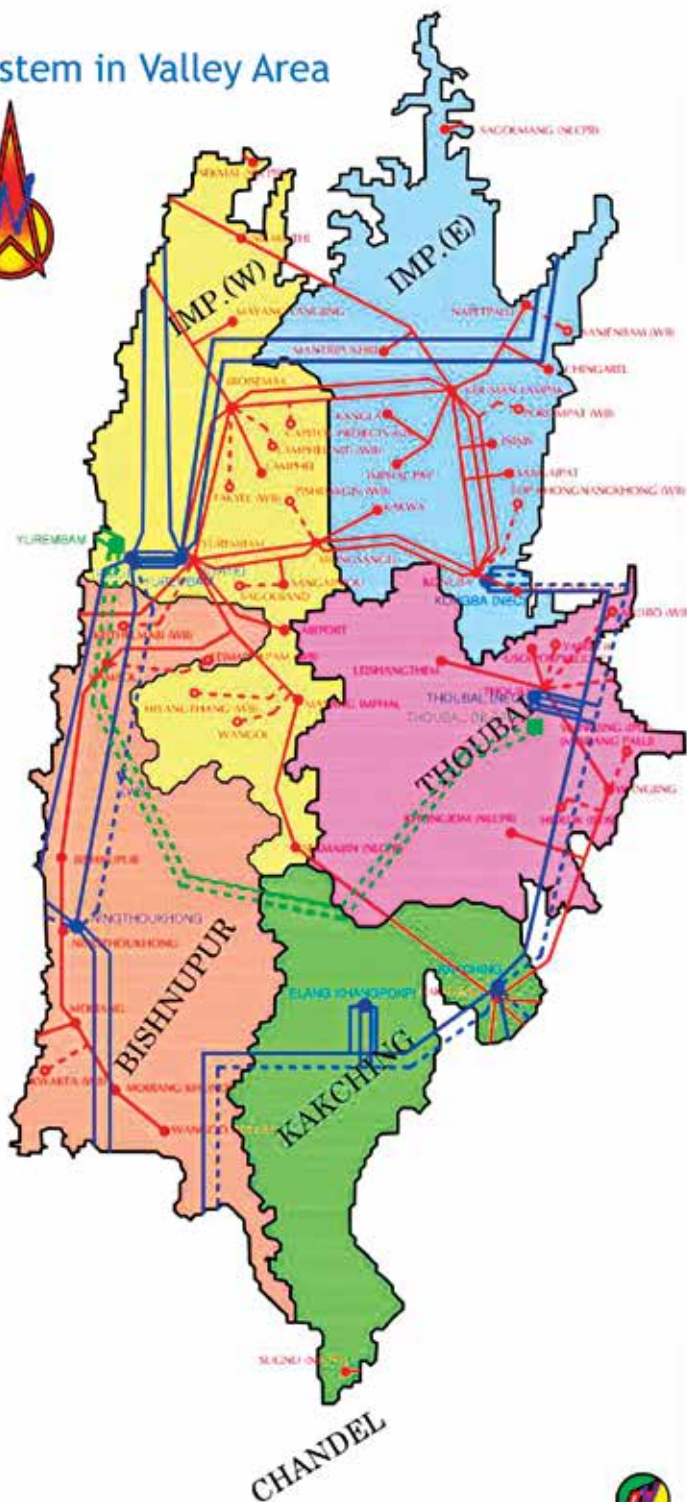


Annexure – IX












POWER MAP OF MANIPUR

132 and 33 kV & Above





LEGEND

	400 KV SUB-STATION UNDER CONSTRUCTION/ PROPOSAL	2 Nos.
	EXISTING 400 KV LINE	
	400 KV LINE UNDER CONSTRUCTION/PROPOSAL	
	EXISTING 132 KV SUB-STATION	17 Nos. (3 for PGCI)
	EXISTING 132 KV LINE	
	132 KV SUB-STATION UNDER SONSTRUCTION/ PROPOSAL	4 Nos.
	132 KV LINE UNDER SONSTRUCTION/PROPOSAL	
	EXISTING 33 KV SUB-STATION	85 Nos.
	EXISTING 33 KV LINE	
	33 KV SUB-STATION UNDER CONSTRUCTION/ PROPOSAL	24 Nos.
	33 KV LINE UNDER CONSTRUCTION/PROPOSAL	
	EXISTING HYDRO ELECTRIC PROJECT	4 Nos.
	HYDRO ELECTRIC PROJECT UNDER CONSTRUCTION	7 Nos.
	HEAVY FUEL PROJECT	1 No.

Annexure – X**LIST OF REGULATIONS**

1. Adaptation of laws (Medical facility) 3rd Order 2008
2. Recruitment, Control & Conditions of Officers and Staff Regulations, 2008, Appdx. (Service Reglns.) 20th Oct '08
3. Appointment of Consultants Regulations, 2009
4. Standard of Performance for Distribution and Transmission Licensees, Regulations, 2010. (Repealed)
5. Procedure, Terms and Conditions for Grant of Distribution Licence and other Related Matters Regulations, 2010
6. Consumer Grievance Redressal, Regulations, 2010
7. Terms & Conditions for Tariff Determination from Renewable Energy Sources Regulations, 2010
8. Renewable Purchase Obligation and its Compliance Regulations, 2010
9. Conduct of Business Regulations, 2010
10. Citizens Charter Regulations, 2010
11. Electricity Ombudsman Regulations, 2010
12. Constitution of State Advisory Committee & its Functions Regulations, 2010
13. Procedure, Terms & Condition for Grant of Intra-State Trading License & Other Related Matter Regulations, 2010
14. Terms & Conditions for Open Access Regulations, 2010
15. Fees, Fine and Charges Regulations, 2010
16. Procedure, Terms & Conditions for Payment of Fees and Charges to State Load Despatch Centre and other related provisions Regulations, 2010.
17. Electricity Supply Code Regulations, 2010(Repealed)
18. Compliance Audit Regulations, 2010
19. Terms & Conditions for Determination of Tariff Regulation, 2010 (Repeated)
Appendix- A Thermal,
Appendix-B Hydro,
Appendix-C Transmission
Appendix-D Distribution
20. Electricity Ombudsman (First Amendment) Regulations, 2010
21. Grid Code Regulations, 2010

22. Power Purchase and Procurement Regulations, 2012
23. Demand Side Management Regulations, 2012
24. Electricity Supply Code Regulation 2013
25. Standard of Performance for Distribution and Transmission Licensees, Regulations, 2014
26. Multi Year Tariff Regulations, 2014
Appendix- A (Formats) Generation Business,
Appendix- B (Formats) Distribution - Income Tax C
Appendix- C (Formats) Distribution - Total Business
Appendix- D (Formats) Distribution - Wheeling Business
Appendix- E (Formats) Distribution - Retail Supply Business
27. Grid Code (First Amendment) Regulations, 2014
28. Terms & Conditions for Tariff Determination from Renewable Energy Sources (First Amendment) Regulations, 2014.
29. Electricity Supply Code (First Amendment) Regulation, 2014
30. Electricity Supply Code (Second Amendment) Regulation, 2015
31. Electricity Supply Code (Third Amendment) Regulation, 2016
32. Fees, Fines and Charges (First Amendment) Regulation, 2016 Statement of Reasons (SoR)
33. (Forecasting, Scheduling, Deviation Settlement and Related Matters of Solar and Wind Generation Sources) Regulations, 2016
34. Electricity Supply Code (Fourth Amendment) Regulations, 2016
35. Metering for Grid Connected Renewable Energy, Regulations, 2016. Statement of Reasons
36. Electricity Supply Code (Second Amendment) Regulations, 2015, CORRIGENDUM
37. Electricity Supply Code (Fifth Amendment) Regulations, 2016
38. Electricity Supply Code (Sixth Amendment) Regulations, 2016
39. Metering for Grid Connected Renewable Energy (First Amendment) Regulations, 2016
40. Consumer Grievance Redressal, Regulations, 2016.
41. Electricity Supply Code (Seventh Amendment) Regulations, 2016.
42. Electricity Supply Code (Eight Amendment) Regulations, 2017
43. Electricity Supply Code (Ninth Amendment) Regulations, 2017.



Rih Dil

JOINT ELECTRICITY REGULATORY COMMISSION FOR MANIPUR AND MIZORAM