



# 11<sup>th</sup> ANNUAL REPORT

2018 – 2019



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



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FOR  
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## FOREWORD



IT IS MY PLEASURE to have a foreword of the 11th Annual Report of the Joint Electricity Regulatory Commission for the states of Manipur and Mizoram for the year 2018–19. As per Section 105 of the Electricity Act, 2003, the Commission is required to prepare and report giving summary of its activities during the year. The Report is to be sent to the 2 (two) participating states to be laid before the Legislative Assembly of both Manipur and Mizoram.

The Commission issued orders approving the Aggregate Revenue Requirement (ARR) for the first year 2018–19 under second control period for multi-year tariff of 2018–19 to 2022–23 along with retail tariff order for the year 2018–19 on 12.3.2018 and for the 2nd year of 2019–20 on 23.3.2019 under the same 2nd control period.

I would like to place on record to the state Government of Manipur and Mizoram, Manipur State Power Company Limited (MSPCL), Manipur State Power Distribution Company Limited (MSPDCL), Power and Electricity Department of Mizoram, Member of the State Advisory Committee and State Coordination Forum and non governmental organisation and staff of the Commission for their help, support, cooperation and active participation which has made efficient functioning of the Commission possible.

It is regretted that Annual Report for the year 2018–19 could not be moulded in time due to Covid 19 pandemic which has effected the functioning of the Commission to certain extend.

Dated Aizawl, the 17th February, 2021

  
(LALCHHARLIANA PACHUAU)  
Chairperson

## CONTENTS

<b>Foreword</b> .....	3	10. Electricity Ombudsman .....	20
<b>Chapter – I</b>		11. Activities of the Commission .....	20
<b>INTRODUCTION</b>		12. Legal Information .....	21
1. The Commission .....	5	13. District Electricity Committee .....	21
2. The Mission .....	5	14. State Load Despatch Centre .....	21
3. Mandate of the Commission .....	6		
4. Annual Report .....	7	<b>Chapter – III</b>	
5. The Commission & the Utilities .....	8	1. Human Resource Development .....	23
6. Organization & Staff Strength .....	8	2. Accounts of the Commission .....	23
7. Commission's Office .....	8	3. Regulations .....	24
<b>Chapter – II</b>		<b>Chapter – IV</b>	
<b>ACTIVITIES OF THE COMMISSION</b>		<b>BASIC ELECTRICITY STATISTICS</b>	
1. Constitution of State Advisory Committee .....	9	I. Category wise Consumers and Connected load .....	25
2. State Advisory Committee Meetings .....	10	II. Growth of Energy Consumption .....	27
3. State Co-ordination Forum & its Activities .....	12	III. Growth of per Capita Consumption of Electricity .....	28
4. Organizing Interactive Workshop on Consumer Awareness .....	17	IV. Trend of Transmission & Distribution Losses .....	30
5. Tariff Orders .....	18		
6. Membership of the Forum of Regulators, Forum of Indian Regulators and Forum of Regulators for Eastern and North Eastern States .....	18	<b>ANNEXURES</b>	
7. Establishment of Commission Fund .....	18	1. Organization chart of JERC for M&M .....	31
8. Regulatory Disputes .....	19	2. Trainings & Seminars and Meetings Attended .....	32
9. Consumer Grievances Redressal Forum (CGRF) .....	19	3. Power Map of Mizoram .....	34
		4. Power Map of Manipur .....	36
		5. Notified Regulations .....	38

## 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:
  - i) 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;
  - ii) 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;
  - iii) Facilitate intra-state transmission and wheeling of electricity;
  - iv) Issue licences to persons seeking to act as transmission licensees, distribution licensees and electricity traders with respect to their operations within the State;
  - v) 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;
  - vi) Adjudicate upon the dispute between the licensees and generating companies and to refer any dispute for arbitration;
  - vii) Levy fee for the purposes of this Act;
  - viii) Specify State Grid Code consistent with the Grid Code specified under clause(h) of sub-section(10) of Section 79;

- ix) Specify or enforce standards with respect to quality, continuity and reliability of service by licensees;
  - x) Fix the trading margin in the intra-State trading of electricity; if considered, necessary; and
  - xi) 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:
- i) Promotion of competition, efficiency and economy in activities of the electricity industry;
  - ii) Promotion of investment in electricity industry;
  - iii) Re-organization and restructuring of electricity industry in the State; and
  - iv) Matters concerning generation, transmission, distribution and trading of electricity or any other matter referred to the State Commission by that Government.
- 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 2018-2019 presents an overview of the Commission's activities during the period from 1st April, 2018 to 31st March, 2019. 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 to reality in the two States and constantly endeavouring for improvement of quality of supply and services to the consumers while maintain a reasonable and affordable price. In the whole process, co-ordinated support and point specific assistance of State Government and people's co-operation 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 Power & Electricity Department in Mizoram. The Power & Electricity 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, 2019, 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- . 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](http://www.jerc.mizoram.gov.in) and has e-mail of [jerc.mm@gmail.com](mailto:jerc.mm@gmail.com).

## 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- 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 2018-19, the Commission organized 2(two) meetings, 1(one) for Manipur and 1(one) for Mizoram in both State Capitals as stated below:

### MANIPUR

19th Meeting of State Advisory Committee, Manipur was held on 5th March, 2019 at Regency Hall, Hotel Imphal, Imphal. The following agenda were discussed:

- 1) Confirmation on the Minutes of the 18th Meeting of the SAC, Manipur held on 19th February, 2018.
- 2) Action taken report on the minutes of 18th SAC Meeting, Manipur:
  - i) Up to date status of action taken regarding installation of reliable meter in 11 kV feeders at all injecting points of MSPDCL and check meters (vide Agenda No. 3 of the minutes of 18th SAC, Manipur);
  - ii) Action taken towards recovery of outstanding dues or writing off outstanding debt of different Department and installation of pre-paid meters in all Government Offices and residents (vide Agenda No. 4 of the minutes of 18th Meeting of SAC, Manipur);
  - iii) Reports on energy audit in RAPDRP towns (vide Agenda no. 5 of the minutes of 18th Meeting of SAC, Manipur);
  - iv) The latest reconciled status of feeder meter installation at 11 kV feeders in the single line diagram of all the sub-stations showing incoming/outgoing 11 kV feeders. Details of sub-station-wise incoming/outgoing feeders of all voltage levels with meter installation status under MSPCL (vide Agenda No. 9 of the minutes of 19th Meeting of SAC Manipur).
- 3) Determination of Retail Tariff of MSPDCL for FY 2019 - 20 and Transmission Tariff of MSPCL for FY 2019 – 20.
- 4) Truing Up
- 5) Revenue Collection Centre
- 6) Subsidy
- 7) Integration of billing system

## MIZORAM

21st Meeting of State Advisory Committee, Mizoram was held on 21st February, 2019 at Aijal Club, Near Tennis Court, Aizawl. The following agenda were discussed:

- 1) Confirmation on the Minutes of the 20th Meeting of the SAC, Mizoram held on 22nd February, 2018.
- 2) Action taken report on the minutes of 20th SAC Meeting, Mizoram:
  - i) Up-to-date status of formation of Vigilance Committee to reduce theft and unauthorized use of electricity and action taken report ( vide Agenda 3 of the minutes of 20th Meeting of SAC, Mizoram);
  - ii) Up-to-date status of installation of meters 132kV, 33kV, 11kV level and at distribution transformers to ascertain exact energy losses at the level of 132kV, 33kV, 11kV and LT lines (vide Agenda 5 of the minutes of 20th Meeting of SAC, Mizoram);
  - iii) Up-to-date progress of Plan works (vide Agenda 5 of the minutes of Meeting of SAC, Mizoram);
  - iv) Report on updating contracted load and connected load (vide Agenda 6 of the minutes of SAC Mizoram);
  - v) Up-to-date status of online bill payment ( vide Agenda 7 of the minutes of 20th Meeting of SAC, Mizoram);
  - vi) Up-to-date status of RPO achievement and Solar Rooftop installation /Projects (vide agenda of the minutes of 20th Meeting of SAC, Mizoram);
  - vii) Up-to-date status of unbundling/restruction of the P&E Deptt. (vide Agenda of the minutes of 20th Meeting of SAC, Mizoram).
- 3) Determination of Retail Tariff of P&E Department for FY 2019 – 20.
- 4) Opening of Revenue Centre at Sakawrdai.

### 3. STATE CO-ORDINATION FORUM & ITS ACTIVITIES

During the year 2018-19, the Commission organized 4(four) meetings, 2(two) for Manipur and 2(two) for Mizoram as stated below:

#### MANIPUR

3rd Meeting of State Co-ordination Forum, Manipur was held on 19th June, 2018 in the Conference hall of MSPCL, Keishampat. The following agenda were discussed:

- 1) Upto date status of Feeder metering in Sub-stations of MSPCL in detail at
  - i) 132 kV system;
  - ii) 33 kV system;
  - iii) 11 kV incoming & outgoing feeders.
- 2) Transmission losses of MSPCL after proper energy audit at
  - i) 132 kV system and
  - ii) 33 kV system.
- 3) Energy injected by MSPCL in the DISCOM periphery feederwise; monthwise report for the last quarter of 2017-18.
- 4) Feeder metering of 11 kV outgoing feeders executed by MSPDCL both under RAPDRP & other state plan projects with sub-station details. Whether 100% feeder metering completed and if not, list of the balance Sub-station wise feeders and timeline to complete the works
- 5) Energy received by MSPDCL from the TRANSCOM periphery feederwise, monthwise report for the last quarter of 2017-18
- 6) DT metering of 11 kV feeders under RAPDRP 'GO LIVE' towns and distribution loss in these towns; monthly town-wise report for the last quarter of 2017-18 after proper energy audit.
- 7) Joint Feeder Meter Reading by MSPCL & MSPDCL and monthly energy injection to the 11 kV feeders in urban areas for the last quarter of 2017-18.
- 8) Segregation of Distribution losses & commercial losses after proper audit by MSPDCL and monthly report for the last quarter of 2017-18.
- 9) Details of Division-wise status of providing
  - i) Prepaid meter;
  - ii) Smart meters as per MoP guidelines;
  - iii) No. of unmetered consumers of any category if any.

- 10) MSPDCL may devise a mechanism if not already in place; such that while collecting revenue through recharging/ online payment/ cash counters etc. the category of the consumers making the payment are identified. This is for computation of actual categorise sale of energy which is required at the time of filing of Tariff Petition.
- 11) Present status of plan/project works taken up for giving 24x7 power supply by both the companies.
- 12) Monthly Report of target achieved under 'UDAY' scheme for the last quarter of 2017-18. Details of target and achievement report for the last 6(six) months.
- 13) A report on frequency of interruption & duration of interruption of power supply in the State. Detail analysis of causes & suggested remedies for improvement to be presented by SLDC.
- 14) A report on present status of Renewable Energy Generation both roof-top and other projects taken up by MANIREDA. A report on RPO in the State.

4th Meeting of State Co-ordination Forum, Manipur was held on 4th December, 2018 in the Conference Hall of MSPDCL, Imphal. The following agenda were discussed:

- 1) Detailed action taken report on the minutes of the 3rd Meeting of Co-ordination Forum held on 19th June, 2018 at the Conference Hall of MSPCL and further necessary action.
- 2) 11 kV feeder case study and format for submission of report, one feeder from each 33/11kV sub-station within -
  - i) Imphal 'E' District;
  - ii) Imphal 'W' District;
  - iii) Thoubal District;
  - iv) Kakching District;
  - v) Bishnupur District.
- 3) Month-wise outage report of interruption and duration of interruption of Power supply in the states from April, 2018 to October, 2018.



## MIZORAM

10th Meeting of State Co-ordination Forum, Mizoram was held on 17th May, 2018 in Conference Hall of E-in-C, P&E Deptt, Kawlpetha. The following agenda were discussed:

- 1) Action taken report on the minutes of 9th Meeting of the Co-ordination Forum of Mizoram held on 13th December, 2017 on the following issues may be submitted for review:
  - i) Interest Bearing Security Deposit;
  - ii) Overall and Guaranteed Standard with Compensation Amount;
  - iii) 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;
  - iv) 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);
  - v) Generation, Transmission and Transformations-existing and projects upto-date status;
  - vi) Demand side management – Action taken and programme;
  - vii) Action taken by P&E Dept. under UDAY Scheme: Achievement against prescribed loss reduction trajectory thereof;
  - viii) Up-to-date status and programme of Renewable Energy Generation – Solar and Non- Solar.

The Commission opines that isolated solar energy generation belonged to other agency cannot be considered for meeting RPO of the P&ED unless the P&ED is bound to purchase by PPA duly executed. However, any isolated generation belonged to P&ED, if any, shall be metered or synchronised with the grid for meeting its RPO.

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. The procedure to be followed by the department in detecting consumer who exceeds their contracted load and the guideline made by the department to punish /regularize such defaulters/ irregularities may be reported.

Programme for implementation of smart metering as per MOP Guidelines. The outcome of DPR may be reported.

- 2) Detail Status report of Energy meters at 132/33kV sub-stations both for 132 kV & 33 kV level for audit of the energy imported in to the Mizoram P&ED system and energy transmitted to other 132 kV/33kV sub-stations for determination of transmission losses.

3) *Review of Consumer Load Security*

As per supply Code close 4.129. The department should review the consumption pattern of consumer for adequacy of security deposit from April to March of the previous year. The consumer is required to maintain a sum equivalent to a bill payment for a period of one bill cycle plus two months (in the present non spot billing system of P&E Department). Consumption pattern of each and every consumer is to be examined thoroughly for payment of additional security deposit or return of some amount of security deposit to the consumer, if any. Detail action taken by the P&ED may be given.

4) *Renewable Energy generation*

The up-to-date status of RPO achievement and action taken to achieve RPO target.

The up-to-date status of different RE projects including Rooftop Solar Scheme under MNRE-

5) *Function – wise reorganization of P&E Department*

P&E Department functions in one unbundled organization. Segregations of expenditure is necessary to examine the actual achievement and deficiency in each of the distribution, transmission and generation. Besides, function-wise segregation of expenditure is necessary for fixation of tariffs as per MYT Regulations. It is high time P&E Department needs to pursue this matter to the State Government vigorously. The up-to-date status of action taken and proposed to be taken by the department may be given.

6) *Provision of subsidy by State Government*

As per Section 65 of the Electricity Act, 2003, the subsidy provided to the consumers in the tariff determined by the State Commission is to be given in advance by the State Government. As per section 8.3 of National Tariff Policy, the tariff should be within  $\pm 20\%$  of the average cost of supply and the cross-subsidization of different categories of consumer should be within  $\pm 20\%$  of the average tariff. As such, the P&E Department should get approval of the state Government for subsidy amount and cross-subsidizations before filing Tariff to the Commission. Tariff Petition shall be filed with the authenticated approval of the State Government for giving subsidy (lumpsum or category –wise) to the consumers unless the subsidy amount is given in advance. Action taken by P&E Department may be informed for further deliberations.

11th Meeting of State Co-ordination Forum, Mizoram was held on 20th November, 2018 in DOCC Hall of E-in-C, P&E Deptt, Kawlpetha. The following agenda were discussed:

- 1) Review of 10th Meeting:
  - i) Interest Bearing Security Deposit;
  - ii) Overall and Guaranteed Standard with Compensation Amount;
  - iii) 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 consumption charge;
  - iv) 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).
    - a) Under Aizawl Power Circle
    - b) Under Lunglei Power Circle
    - c) Under Champhai Power Circle
    - d) Under Transmission Circle
    - e) Under Project Circle-I
  - v) Generation;
  - vi) Transmission under NERPSIP (PGCIL);
  - vii) Power Sub-stations taken up by PGCIL;
  - viii) Demand side Management-Action taken and programme;
  - ix) Action taken by P&E Dept. under UDAY scheme. Achievement against prescribed loss reduction trajectory thereof;
  - x) Programme for implementation of smart metering as per MOP guidelines. – The outcome of DPR may be reported;
  - xi) Function-wise reorganization of P&E Department.
- 2) Solar Generation.
  - i) From Solar Parks and
  - ii) Rooftop Solar
- 3) Circle-wise Energy Input
- 4) New transmission lines and Sub-Stations
- 5) Staff shortage in the Department
- 6) Pre-paid Metering System

#### **4. ORGANIZING INTERACTIVE WORKSHOP ON CONSUMER AWARENESS**

Under Electricity Act, 2003, the commission is mandated to safeguard the interests of the State 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, Journalist, 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 5 (five) workshop at Manipur and jointly with Power & Electricity Deptt., Mizoram conducted 5 (five) workshops at Mizoram.

##### **MANIPUR**

- 1) Kangpokpi on 18th June 2018
- 2) Churachandpur on 20th June 2018
- 3) Sekmai on 21st June 2018
- 4) Pallel on 5th December 2018
- 5) Senapati on 6th December 2018

##### **MIZORAM**

- 1) Kolasib on 28th May 2018
- 2) Thingsulthliah on 7th August 2018
- 3) Aibawl on 9th August 2018
- 4) Darlawn on 25th Sept 2018
- 5) Sakawrdai on 26th Sept 2018.

## 5. TARIFF ORDERS

The Commission issued ARR & Tariff Order for FY 2019–2020 on 22nd March 2019 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 1st April 2020 till the next tariff orders are issued. Roof Top Solar (RTS) Order for Mizoram was also issued on 10th August 2020.

## 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 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 2018-2019.

## 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-

- i) any grant and loan made to the State Commission by the State Government under section 102;
  - ii) all fees received by the State Commission under this Act;
  - iii) 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:*
- i) The Salary, Allowances and other remuneration of the Chairperson, Members, Secretary, officers and other employees of the State Commission;
  - ii) The expenses of the State Commission in discharge of its functions under Section 86;
  - iii) The expenses on objects and for purposes authorized by this Act,
- 4) *The State Government may, in consultation with the Comptroller and Auditor – General of India, prescribed 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 directed the State Power Department 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. Lalchharliana Pachau, Chief (Engineering) of the Commission has been designated as Electricity Ombudsman for Manipur and Mizoram as an Interim-arrangement.

No Complaints/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)	Determination of tariff for generation, supply, transmission and wheeling of electricity	Tariff orders issued for both Manipur & Mizoram
86(1)(b)	Regulation of electricity purchase and procurement process of distribution licensee	Regulations made and notified
86(1)(c)	Facilitation of intra state transmission and wheeling of electricity	Transmission and Wheeling charges are determined in tariff order for Mizoram and Manipur.
86(1)(d)	Issue of licence	There are two deemed licensees in the States of Manipur i.e. P&E Deptt, Mizoram and Electricity Deptt Manipur besides trading licence in both the States
86(1)(e)	Promotion of co-generation and renewable sources of energy	RPO has been fixed for the distribution licensees / captive / open access consumers. REC is introduced
86(1)(f)	Adjudicate upon disputes	No disputes received
86(1)(g)	Levy of fee	Fee as per the provisions of the Regulations is being collected
86(1)(h)	Specify State Grid Code	The State Grid Code is notified

86(1)(i)	Enforcement of Standards	The quality, continuity and reliability of services by licensees are being monitored on a regular basis
86(1)(j)	Advisory Role	State Advisory Committee and Co-ordination Forum meetings are held regularly
86(1)(k)	Ensuring transparency in the functioning of the Commission	Public hearing and written comments/ suggestion are invited in respect of petitions filed for tariff revision and issue of other important orders and Regulations
86(1)(l)	Commission to be guided by NEP and Tariff Policy	The Commission has been following the broad guidelines, provisions of NEP and Tariff Policy in discharge of its mandated functions

## 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.

The 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.

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.

### 2. ACCOUNTS OF THE COMMISSION

The Commission received fund as Grant-in-Aid amounting to Rs 42,411,894/- from the State Governments of Manipur and Mizoram for utilization during April, 2018 to March, 2019.

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

#### RECEIPTS & PAYMENT ACCOUNTS FOR THE MONTH OF APRIL 2018 - MARCH 2019 (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	369,795		369,795.0
	i) On Cash Book	5,373,976.5	2	Bonus/ CEA	120,783		120,783.0
	ii) Cash in hand		3	Books	5,080		5,080.0
			4	Consultancy	2,728,800		2,728,800.0
	GIA from Manipur	17,950,000.0	5	Electricity & Power	32,990		32,990.0
			6	Expenses on Fees	381,720	9,720.00	372,000.0
	GIA from Mizoram	17,683,000.0	7	Furniture & Fixtures	54,500		54,500.0
			8	Insurance	83,265		83,265.0
	Excess transfer		9	L/F for Quarters retention			-
	refund from	1,404,918.0	10	Leave Travel Concession	110,884		110,884.0
	Receipt Account		11	Machinery & Equipment	186,084		186,084.0
			12	Medical Reimbursement	1,053,263		1,053,263.0
			13	Motor Vehicle			-
			14	Newspapers & Periodicals	10,200		10,200.0
			15	Other Office Expenses	129,573		129,573.0
			16	Pension & Leave Salary contribution	226,452		226,452.0

			17	Petroleum Oil & Lubricants	725,992		725,992.0
			18	Postage	20,446		20,446.0
			19	Printing	278,480		278,480.0
			20	Repair & Maintenance			-
				i) Building			-
				ii) Furniture & Fixtures (F&F)	8,100		8,100.0
				iii) Machinery & Equipment (M&E)	27,440		27,440.0
			21	Retirement & Terminal Benefit			-
			22	Seminar & Workshop	635,110	72,990.00	562,120.0
			23	Stationery	386,680		386,680.0
			24	Subscription Fee	708,000		708,000.0
			25	Telephone & Communication	207,735	6,401.00	201,334.0
			26	Travelling Expenses (Domestic)	1,308,880		1,308,880.0
			27	Vehicle Running & Maintenance	675,515		675,515.0
			28	Wages	2,645,510	5,910.00	2,639,600.0
				Pay and Allowances :			-
				I. Chairperson & Member	2,273,221		2,273,221.0
				i) License Fee	6,600		6,600.0
				II. Officers & Staff	10,548,918		10,548,918.0
				Remittance :-			-
				i) GPF			-
				ii) IF			-
				iii) SF			-
				iv) License Fee	4,800		4,800.0
				v) NPS Contribution	844,937		844,937.0
				vi) NPS Matching Share	844,937		844,937.0
			29	Recovery of Internal loans			-
				Total Payment	27,644,690	95,021	27,549,669.0
				Cash Book Balance			14,862,225.5
				Cash Balance			
	<b>G. TOTAL</b>	<b>42,411,894.5</b>		<b>GRAND TOTAL</b>			<b>42,411,894.5</b>
				Bank Balance			<b>14,862,225.50</b>

### 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.

# CHAPTER – IV

## BASIC ELECTRICITY STATISTICS

### I. Category wise Consumers and Connected load

#### MANIPUR

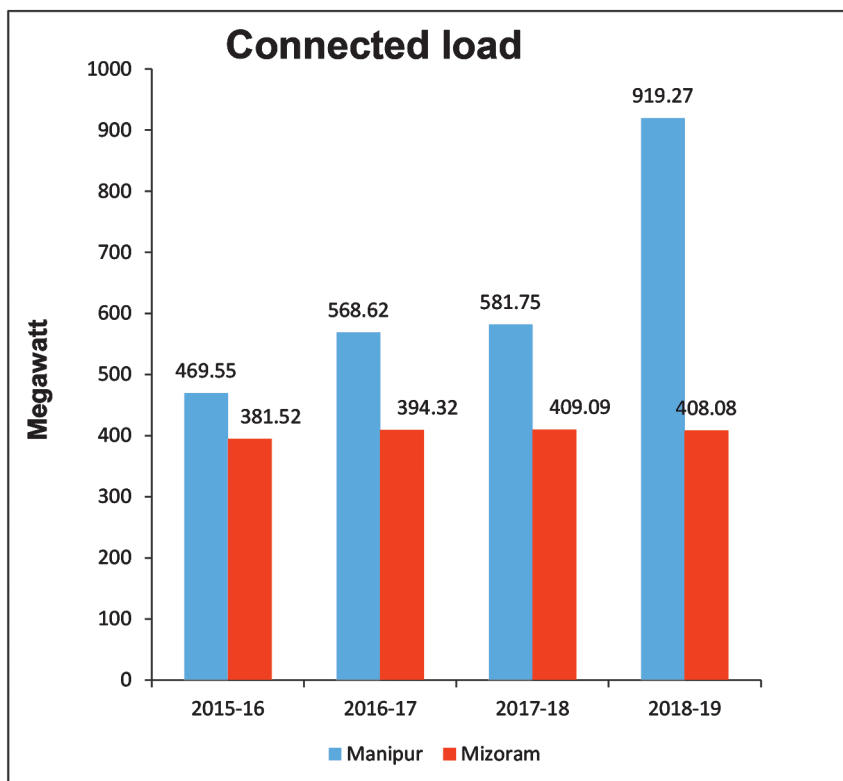
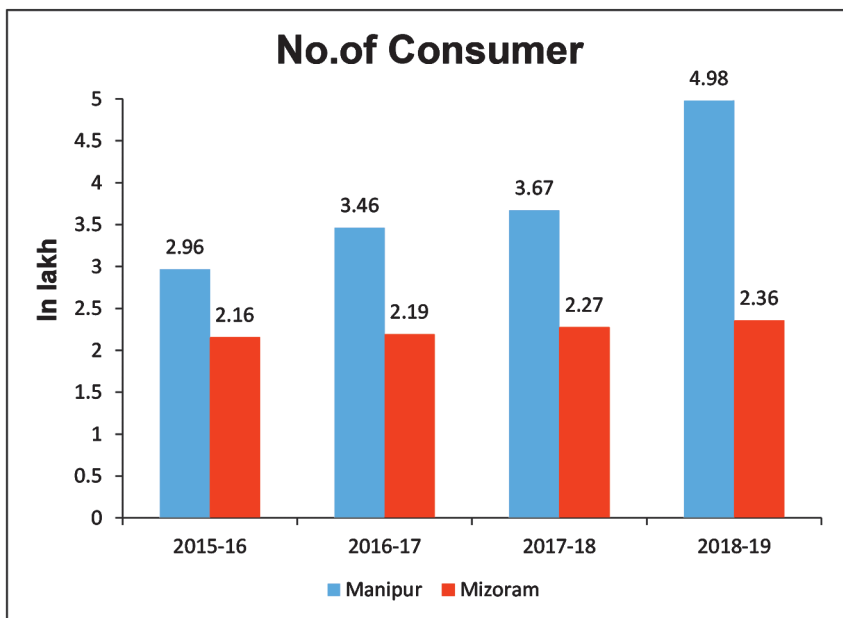
Sl No	Category	2015-16		2016-17		2017-18		2018-19	
		No. of Consumer	Connected Load (kW)	No. of Consumer	Connected Load (kW)	No. of Consumer	Connected Load (kW)	No. of Consumer	Connected Load (kW)
1	2	3	4	5	6	7	8	9	10
1	Domestic	279194	332294	328131	423525	347988	473174	470002	714440
2	Commercial	13439	34897	14153	43398	15196	38999	24128	102871
3	Public Lighting	483	1027	441	1064	441	1144	441	1144
4	Public Water Works	175	19851	180	21376	184	15035	201	15923
5	Irrigation and agriculture	63	1131	64	978	64	742	66	1030
6	Small Industry	2280	16914	2317	17688	2317	18845	2317	18845
7	Medium Industry	74	8381	73	7319	73	1095	44	2325
8	Large Industry	23	2321	25	3361	27	3993	27	8573
9	Bulk Supply	730	52732	710	49914	718	28726	430	54122
	<b>Total</b>	<b>296461</b>	<b>469548</b>	<b>346094</b>	<b>568623</b>	<b>367008</b>	<b>581753</b>	<b>497656</b>	<b>919273</b>

#### MIZORAM

Sl No	Category	2015-16		2016-17		2017-18		2018-19	
		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	198520	274477	200365	282334	206397	282637	217151	267199
2	Commercial	14400	51372	16350	56523	18570	56584	15873	62605
3	Public Lighting	1524	1609	1259	1046	1322	1047	1283	921
4	Irrigation and agriculture	21	104	21	105	22	105	23	38
5	Public Water Works	57	37723	58	38443	61	38482	64	47506
6	LT Industrial	875	4842	783	4152	818	4156	1151	10447
7	HT Industrial	21	9848	18	8853	19	8862	15	8958
8	Bulk Supply	152	14346	147	17636	287	17656	49	10409
	<b>Total</b>	<b>215570</b>	<b>394321</b>	<b>219001</b>	<b>409092</b>	<b>227496</b>	<b>409529</b>	<b>235609</b>	<b>408083</b>

Source : Tariff Petitions & Tariff Orders



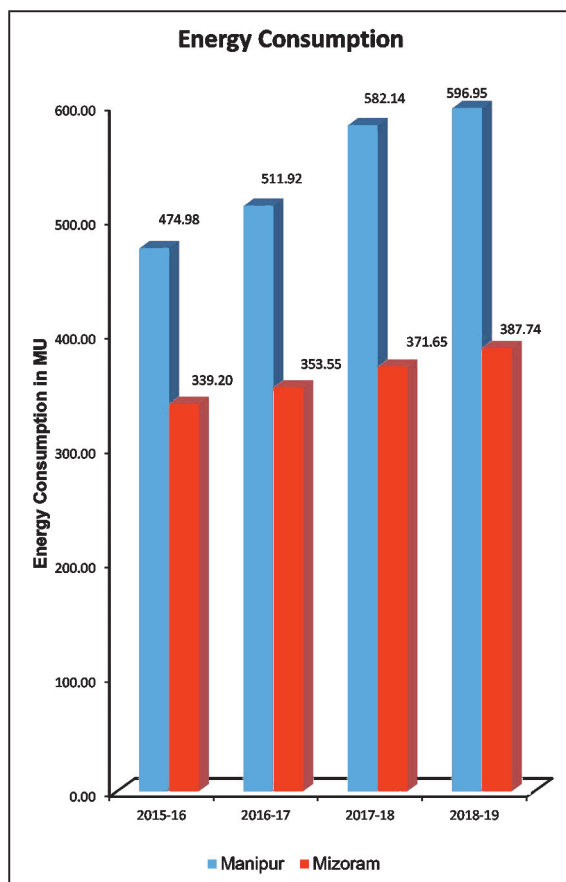


## II. Growth of Energy Consumption

Figures in MU

S/N	Category	2015-16	2016-17	2017-18	2018-19
		(Actual)	(Actual)	(Actual)	(Actual)
1	2	3	4	5	6
<b>A.</b>	<b>Manipur</b>				
1	Domestic	298.85	322.10	385.58	385.76
2	Commercial	39.84	42.94	44.79	74.84
3	Public Lighting	4.13	4.45	5	3.62
4	Public Water Works	16.69	17.99	18	21.54
5	Irrigation and Agriculture	1.78	1.92	2.18	1.88
6	Small Industry	16.20	17.46	18	19.68
7	Medium Industry	3.14	3.38	4	3.99
8	Large Industry	4.48	4.82	6	7.43
9	Bulk Supply	89.75	96.73	98.59	78.21
10	Temporary Power Supply	0.12	0.13	0	0
	<b>Total(A)</b>	<b>474.98</b>	<b>511.92</b>	<b>582.14</b>	<b>596.95</b>
<b>B.</b>	<b>Mizoram</b>				
1	Domestic	222.27	238.31	249.93	227.97
2	Commercial	37.48	33.87	36.11	61.04
3	Public Lighting	6.50	4.89	4.89	2.67
4	Public Water Works	49.19	49.96	52.04	68.57
5	Irrigation and Agriculture	0.05	0.27	0.28	0.22
6	Industrial(LT)	1.97	1.64	1.64	3.41
7	Industrial(HT)	7.20	8.83	9.27	10.94
9	Bulk Supply	14.13	15.28	17.49	12.69
10	Temporary Power Supply	0.41	0.50	0	0.23
	<b>Total(B)</b>	<b>339.20</b>	<b>353.55</b>	<b>371.65</b>	<b>387.74</b>

Source : Tariff Orders



### III. Growth of Per Capita Consumption of Electricity (based on energy sold)

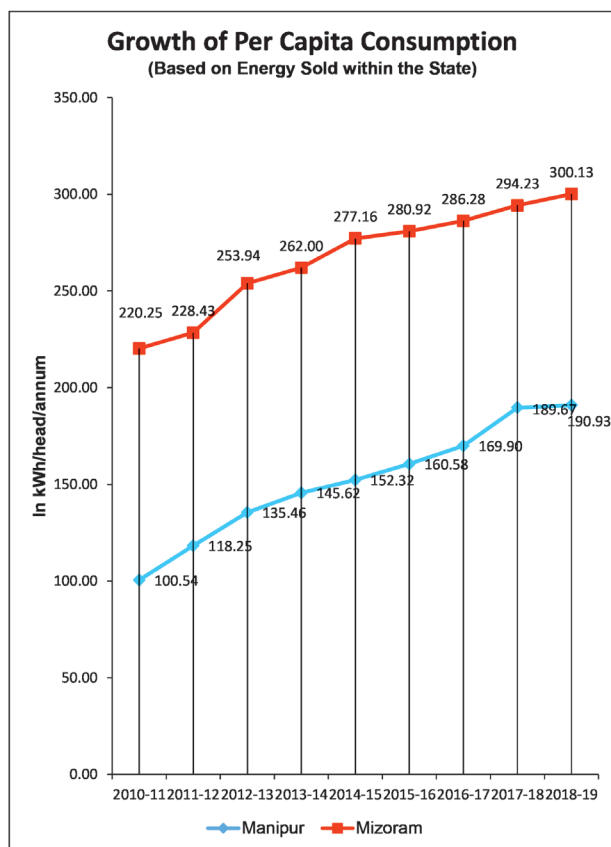
S/N	Year	Population at the end of FY (No.)	Mid-Year Population (No.)	Energy consumption (MU)	Per Capita Consumption (kWh/head/annum)
1	2	3	4	5	6
A.	<b>Manipur</b>				
1	2010-11	2721756	2696376	271.10	100.54
2	2011-12	2772517	2747137	324.84	118.25
3	2012-13	2824224	2798371	379.06	135.46
4	2013-14	2876896	2850560	415.09	145.62
5	2014-15	2930550	2903723	442.30	152.32
6	2015-16	2985205	2957878	474.98	160.58

7	2016-17	3040879	3013042	511.92	169.90
8	2017-18	3097591	3069235	582.14	189.67
9	2018-19	3155361	3126476	596.95	190.93

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

<b>B.</b>	<b>Mizoram</b>				
1	2010-11	1091014	1078588	237.56	220.25
2	2011-12	1115867	1103441	252.06	228.43
3	2012-13	1141286	1128577	286.59	253.94
4	2013-14	1167284	1154285	302.42	262.00
5	2014-15	1193875	1180580	327.21	277.16
6	2015-16	1221071	1207473	339.20	280.92
7	2016-17	1248887	1234979	353.55	286.28
8	2017-18	1277337	1263112	371.65	294.23
9	2018-19	1306435	1291886	387.74	300.13

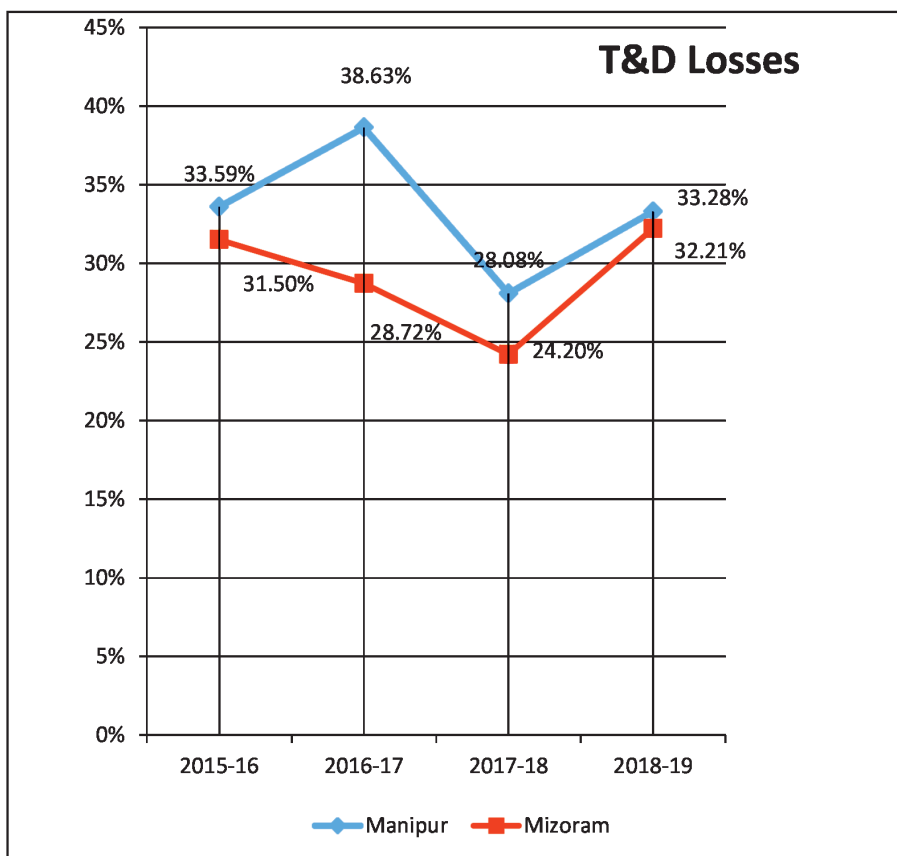
*Note: Population is worked out based on Decadal growth rate of 22.78% as per Census 2011.*



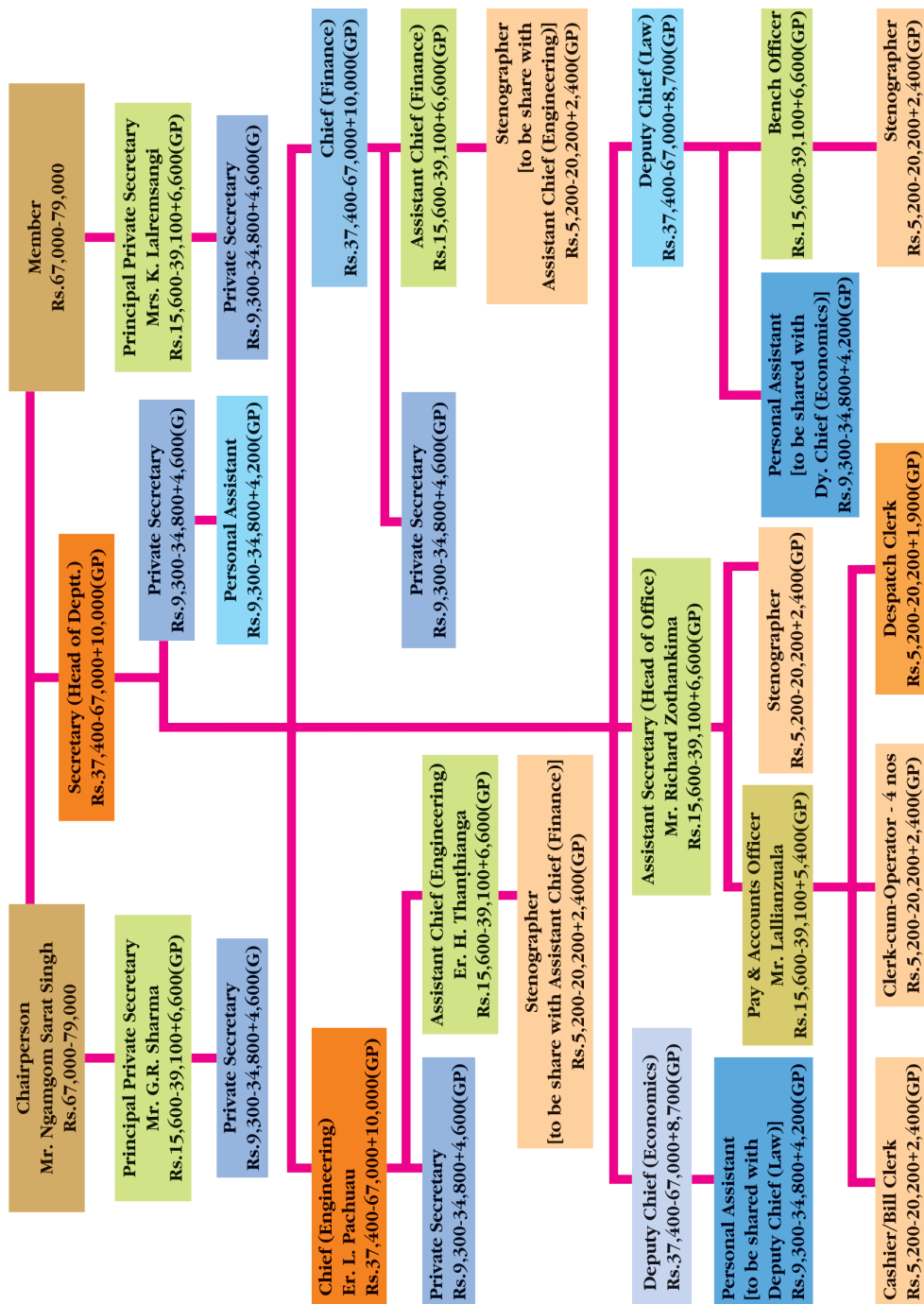
#### IV. Trend of Transmission & Distribution Losses

S/N	Particulars	2015-16	2016-17	2017-18	2018-19
1	2	3	4	5	6
<b>A.</b>	<b>Manipur</b>				
1	Energy import at State periphery	715.23	834.16	809.44	894.76
2	Energy sold within the State	474.98	511.92	582.14	596.95
3	T&D Losses	240.25	322.24	227.30	297.81
4	Percentage T&D Losses	33.59%	38.63%	28.08%	33.28%
<b>B.</b>	<b>Mizoram</b>				
1	Energy import at State periphery	495.20	495.99	490.32	571.98
2	Energy sold within the State	339.20	353.55	371.66	387.74
3	T&D Losses	156.00	142.44	118.66	184.24
4	Percentage T&D Losses	31.50%	28.72%	24.20%	32.21%

Source : Tariff Orders



## ORGANISATION CHART OF Joint Electricity Regulatory Commission for Manipur and Mizoram





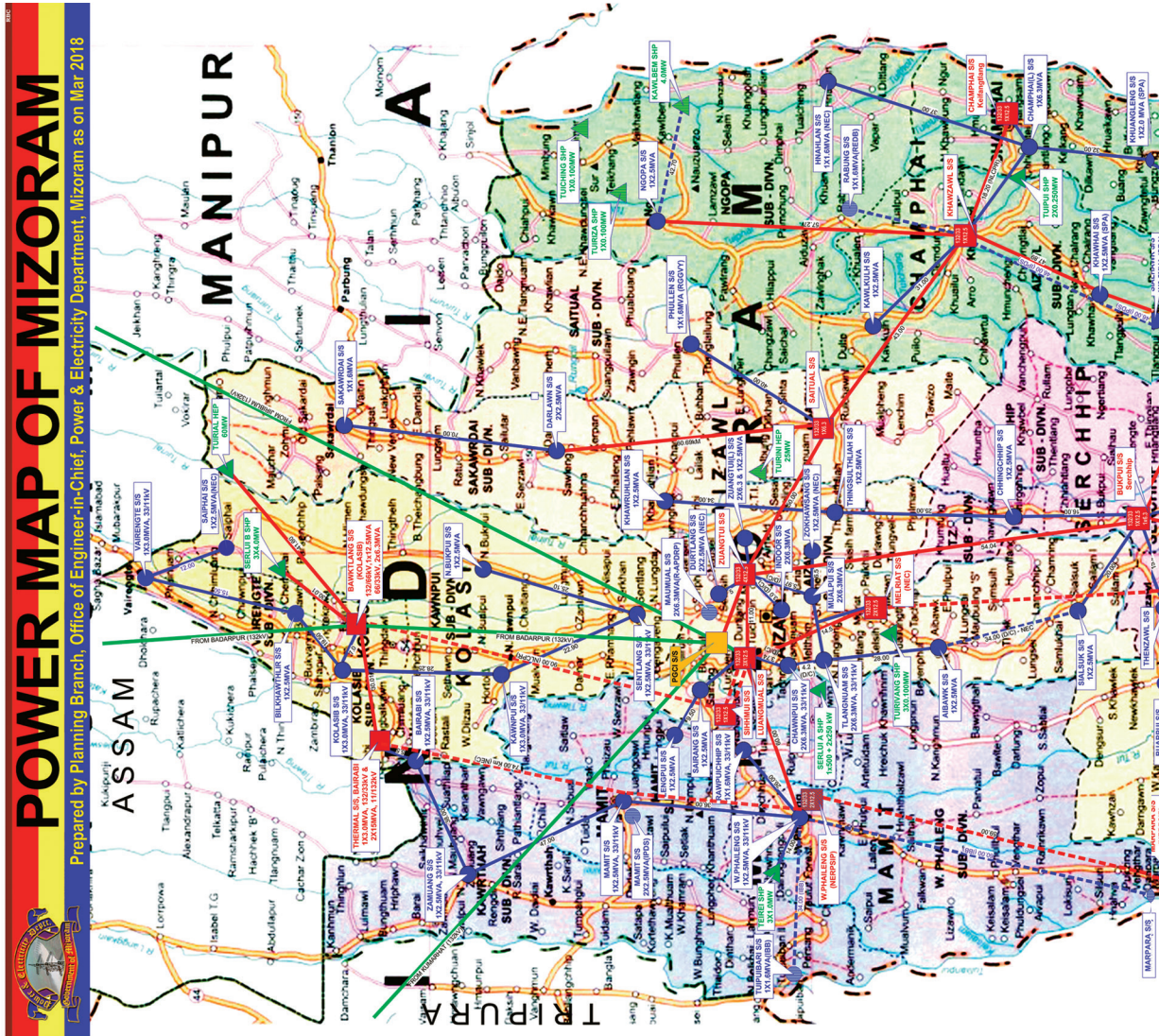
## Annexure

**Training, Seminars and Meetings attended,  
1st April 2018 – 31st March 2019**

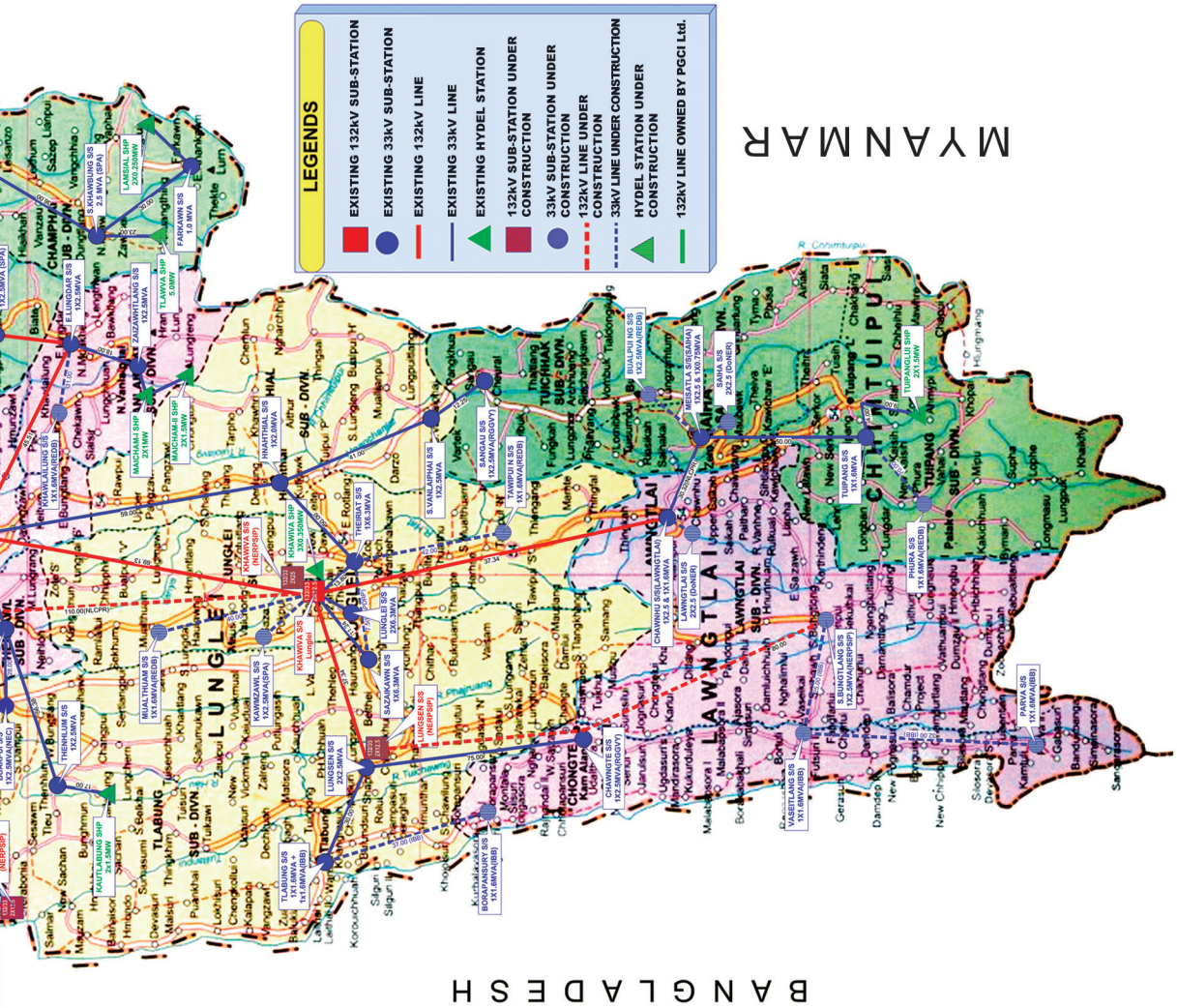
S/N	Name and Designation	Particulars of programme	Duration	Venue
1	Mr. Ngangom Sarat Singh, Chairperson	Capacity Building program for officers of SERCs/ JERCs in North East Region	4th – 5th May 2018	Gandhinagar, Ahmedabad
2	Er. H. Thanthianga, Assistant Chief(Engineering)	–do–	–do–	–do–
3	Mr. Richard Zothankima, Assistant Secretary	–do–	–do–	–do–
4	Mr. Richard Zothankima, Assistant Secretary	3rd Workshop of Secretaries of Regulatory Commissions	21st May 2018	Raipur, Chhattisgarh
5	Mr. Richard Zothankima, Assistant Secretary	Seminar on Performance Evaluation and O&M of solar Power Plants in India	12th July 2018	Guwahati
6	Ms. R. Lalramfantluangi, Clerk-cum-Cashier	Training on Vigilance Matters for Dealing Hands	21st – 23rd May 2018	ATI, Aizawl
7	Mrs.Naoshekpam Ashapurna, Clerk –cum-Operator	–do–	–do–	–do–
8	Mrs. Rengthansangi Rengsi, Clerk –cum-Operator	Training on “Office Etiquette & Personality Development	3rd July 2018	ATI, Aizawl
9	Mr. David Lalmuanpuia, M/R Driver	–do–	–do–	–do–
10	Mr. Malsawmtluanga, M/R Peon	–do–	–do–	–do–
11	Mrs. Zonunpuui, M/R Peon	–do–	–do–	–do–

12	Mr. Moirangthem Surjit Singh, Stenographers	Training on Duties & Responsibilities of Stenographers	11th - 13th Sept. 2018	ATI, Aizawl
13	Mrs. Lalremruati, Stenographers	-do-	-do-	-do-
14	Er. H. Thanthianga, Assistant Chief(Engg.)	Regulating Electricity Tariffs & Related Issues	17th - 21st Sept. 2018	Hyderabad
15	Er. H. Thanthianga, Assistant Chief(Engg.)	Protection of Consumers Interest for Officers of CGRF and Ombudsman	11th - 12th Oct. 2018	NPTI, Faridabad, Delhi
16	Mr. Ngangom Sarat Singh. Chairperson	3-Days Residential Training programme on "Developments in Power Market (Impact of Renewable and EVs)	26th - 28th Nov. 2018	ASCI, Hy- derabad
17	R. Lalramfantluangi, Clerk-cum-Cashier	Training on Legal Literacy for Government Servant	11th Oct. 2018	ATI, Aizawl
18	Mr. Moirangthem Surjit Singh, Stenographers	-do-	-do-	-do-
19	Mr. Joseph hauzel, Clerk -cum-Operator	-do-	-do-	-do-
20	Mr. Vanlalringngheta, Clerk-cum - Despatch	-do-	-do-	-do-
21	Mr. Lalramhlun Puruolte, Private Secretary	"Website Management"	6th - 8th Feb. 2019	ICT Train- ing Centre, Aizawl
22	R. Lalramfantluangi, Clerk-cum-Cashier	-do-	-do-	-do-
23	Mr. Ngangom Sarat Singh, Chairperson	1st Global Regulatory Perspective programme for Chairpersons / Members of electricity Regulatory Commissions (ERCs)	4th - 6th March 2019	Melbourne, Australia.

## Annexure

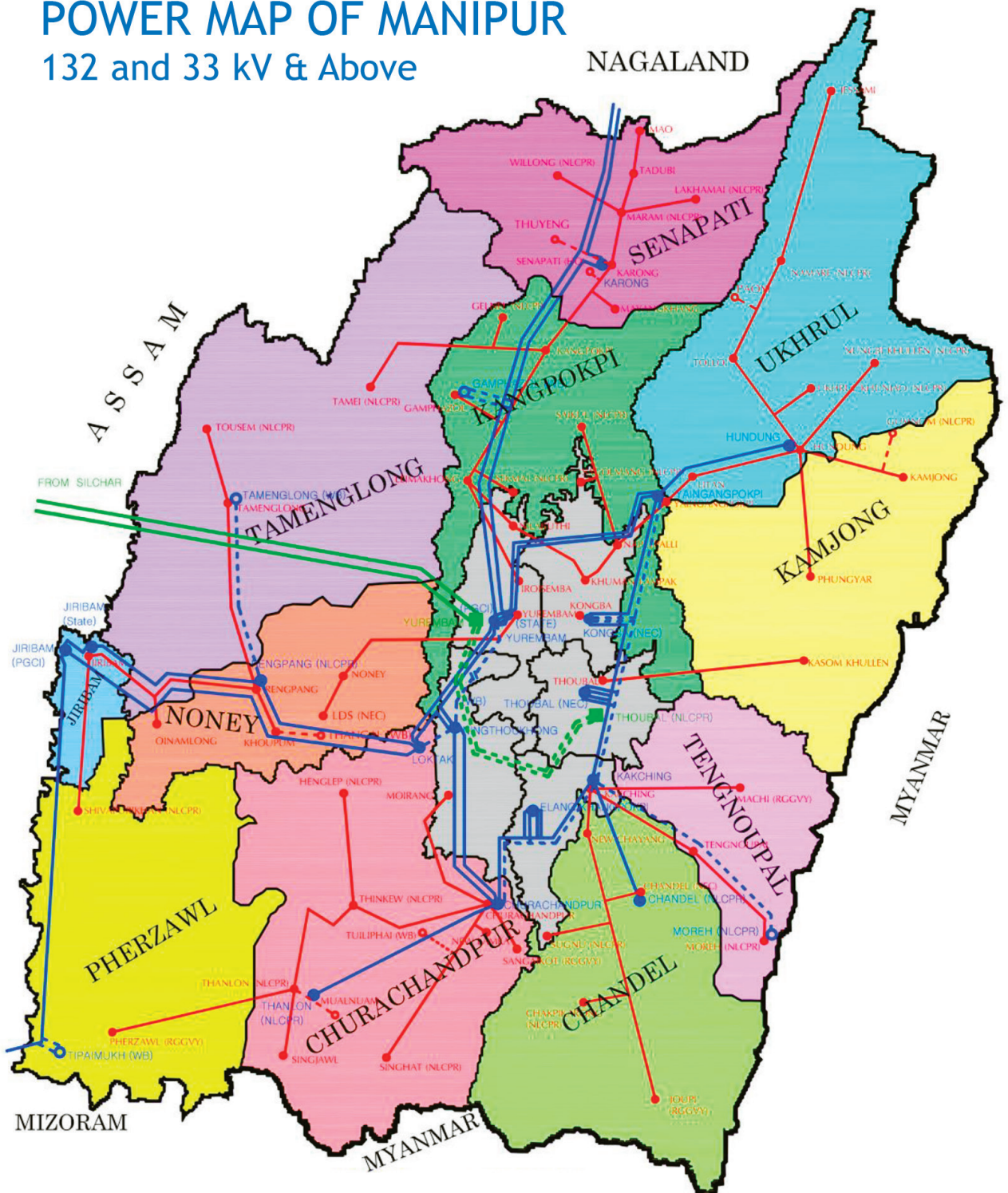






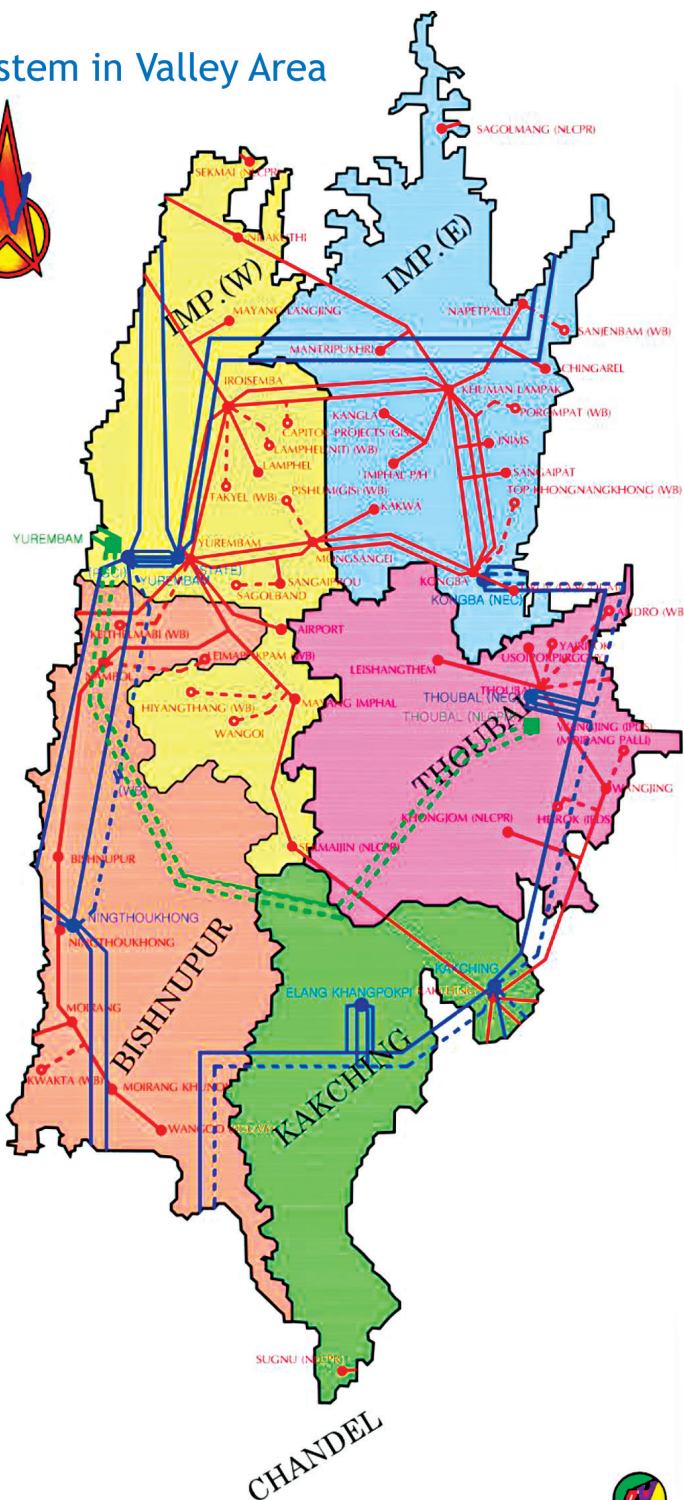
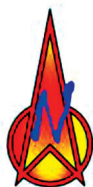
# POWER MAP OF MANIPUR

## 132 and 33 kV & Above





## 33 kV System in Valley Area



### 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. (2 for PGCI)
	EXISTING 132 KV LINE	
	132 KV LINE UNDER SONSTRUCTION/ PROPOSAL	4 Nos.
	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.
	HYDROELECTRIC PROJECT UNDER CONSTRUCTION	7 Nos.
	HEAVY FUEL PROJECT	1 No.



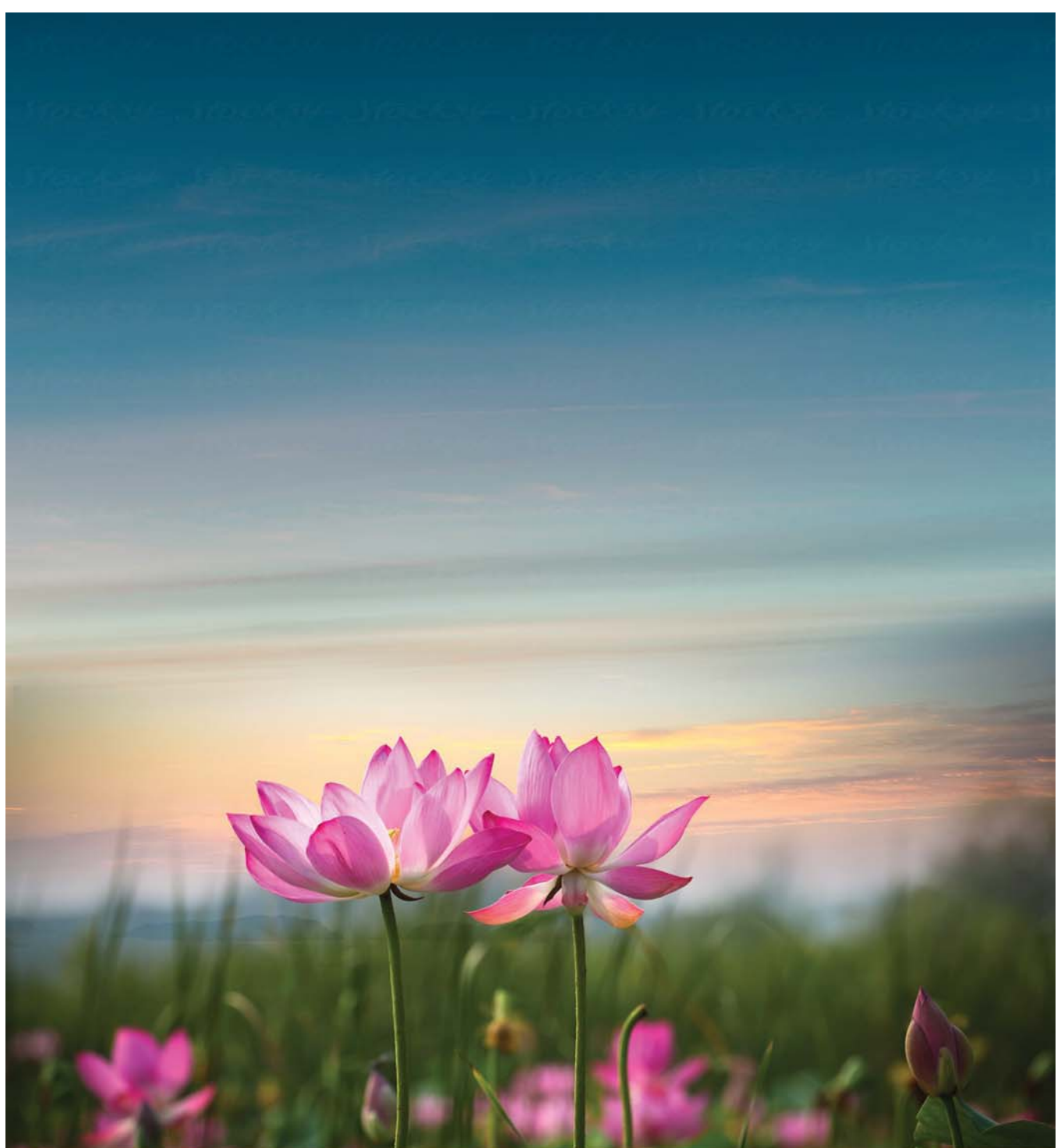
*Annexure***NOTIFIED REGULATIONS**

1. Adaptation of Law & Order, Regulations, 2008
  - i) Confidential Report, 2nd Order, 2008
  - ii) Disiplinary Proceeding & Important of Penalties, 1st Order, 2008
  - iii) Medical Facility, 3rd Order, 2008
2. Recruitment Control & Services Condition Officers & Staffs, Regulations, 2008
3. Appointment of Consultants, Regulations, 2009
4. Standard of Performance for Distribution and Transmission Licensees, Regulations, 2010(REPEALED)
5. Procedure Terms & Conditions for Grant of Distribution Licence and other Related Matters, Regulations, 2010
6. Consumer Grievance Redresal,Regulations,2010(REPEAL)
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(REPEAL)
11. Electricity Ombudsman, Regulation, 2010
12. Constitution of SAC & 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, Regulations, 2010(REPEAL)
  - 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, Regulations,2013
25. Standard of Performance for Distribution and Transmission Licensees, Regulations, 2014
26. Multi Year Tariff, Regulations, 2014
  - Appendix- A(Format) Generation Business
  - Appendix- B(Format) 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
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