

## CHAPTER – V

### ENERGY

#### 5.1. POWER

**5.1.1.** The Twelfth Plan projected outlay for Power Sector is ₹ 363500.00 Lakhs. The Actual Expenditure incurred during 2013 – 14 was ₹ 21713.39 lakh , the Budgetted Outlay for 2014 - 15 is ₹ 9600.00 lakh and an amount of ₹ 8876.00 lakh is anticipated to be utilised. The Tentative Budgetted Outlay for Power Sector during 2015 - 2016 is ₹ 9600.00 lakh.

The major Schemes / Projects being implemented under Power sector are as follows:-

#### **5.1.2. Generation Schemes**

##### **(a) On- going Schemes:-**

- (i) New Umtru Hydro Electric Project (2 x 20) MW:** The Project is located in the Ri Bhoi District of Meghalaya. The original estimated cost for the Project was ₹ 226.00 Crores. The project is being implemented under 70% loan and 30% equity (NLCPR funding). The total Grant amount released under NLCPR funding till date is ₹ 43.32 Crores and the State Govt. has released an amount of ₹ 4.81 Crores as 10% State Share. During 2013-14 an amount of ₹ 25.00 Crores has been released towards the project and also an amount of ₹ 2.78 Crores is provided for the project under SCA during 2014 – 15.
- (ii) Ganol Hydro Electric Project (3 x 7.50) MW:** The Project is located in the West Garo Hills District of Meghalaya. The original estimated cost for the Project is ₹ 332.68 Crores and the revised estimate is ₹ 356.43 Crores. The project is being implemented under 70% loan and 30% equity (NLCPR funding). The first installment for the project amounting to ₹ 11.56 Crores was released by the Ministry of DoNER during 2008 – 09. An amount ₹ 25.00 Crores is provided for this project under SCA during 2014 – 15.

**(b) Survey & Investigation Schemes:** Survey and Investigation works is being taken up with 90% NEC funding of the basins viz. Umngot HEP (280 MW), Myntdu Leshka Stage-II HEP (260 MW), Selim HEP(2x85 MW), Mawblei HEP (2x70 MW), Ganol HEP Stage-II (3x5 MW), Uper Khri HEP, Umlaphang HEP (2x14 MW), Sidugiri SHP (7MW), Nongkohlait HEP (2x60 MW) and Umngi Storage HEP (2x27 MW).

#### **5.1.3. Renovation And Modernisation Scheme:**

**R & M of Umiam Stage III Power Station (2 x 30 MW) (EAP):** The power demand in the state is growing very rapidly. MeECL has to depend on power purchase from Regional Grid to meet the demand. To increase the generating capacity in the State, Renovation, Modernisation and Up – gradation of the old existing Hydro power stations where the life span of most of the machines have outlived, is very essential. Renovation, Modernisation and Up-gradation of Umiam Stage III Power Station is proposed to be taken up during the 12<sup>th</sup> Plan period under EAP funding.

#### **5.1.4 Transmission Schemes:**

With the increasing power demand and generating capacity in the State from both State utility and IPP, transmission system in the State needs to be strengthened at the top most priority. This will enable drawal of power not only from the State Central Share and the Grid but also for evacuation of power from the up-coming new projects which will be coming up from time to time. With the open access regime it is a tough challenge to bring power stability not only to the State but also to the Region and the Nation as a whole. The State has made good progress in the transmission area during the 11<sup>th</sup> Plan period by completion of a few critical projects connecting with other NER States and weak intra – State links. Completion of a 220 kV D/C line from Misa to Byrnihat (Killing) during the 11<sup>th</sup> plan period is a boon to the State which has substantially relieved power shortage by enabling drawal of power from the NER/ER Grid.

The State has also taken up setting of a 400/220 KV sub-station at Byrnihat for tapping power from the 400KV Pallatana-Bongaigoan line in which the work was partially completed. The LILO of the 400 kV Palatana - Bongaigaon line at Killing substation was energised w.e.f. 03.03.2013 through the completed dead-end loop-out tower. Both the 315 MVA, 400/ 220 kV transformers are energised. The substation work is partially completed. The work for 400 kV Silchar line bay with Line Reactor at Killing substation, which falls in the additional acquired land (approx. 5.7 acres) could not be taken up due to obstruction from the land owners. The matter is lying pending with the District Administration. Completion of this transmission scheme will further enhance drawal of power from the Grid.

#### **5.1.5. Distribution Schemes:**

The feasibility of power sector depends entirely on the distribution system since it is from this sector that the entire revenue for generation and transmission is dependent upon. With the intent to improve and introduce reforms in the distribution sector, the state has successfully implemented the Accelerated Power Development & Reforms Programme (APDRP) launched by the Govt of India in 2003 and is now taking up the implementation of the second phase i.e. the Restructured - Accelerated Power Development & Reforms Programme (R-APDRP – Part ‘A’ & Part ‘B’) which is in line with the Electricity Act, 2003. Nine (9) towns have been identified for implementation of R-APDRP as project areas namely Shillong, Jowai, Tura, Nongstoin, Nongpoh, Williamnagar, Resubelpara, Mairang and Sohra (Cherrapunjee). With respect to Part ‘A’ of the project, a total loan amount of ₹ 33.97 Crores has been approved and all related works are in progress. For R-APDRP Part-B an amount of ₹ 159.73 crores has been sanctioned by the Steering Committee of the Ministry of Power, Government of India on the 6<sup>th</sup> August 2013. The formalities for availing the loan and tendering are under process.

#### **5.1.6. Rural Electrification (RGGVY):**

In line with the Central Government Policy of electricity to all by the year 2012, Meghalaya is also gearing up to achieve 100% Village Electrification and Rural Household Electrification. The scheme was targeted to be completed during the 11<sup>th</sup> Plan period. However, 100% physical achievement is spilling over to the 12<sup>th</sup> plan period. This is being pursued by the Meghalaya Energy Corporation Limited under the Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY). The Scheme is being implemented in all the 7(Seven)

Districts of Meghalaya. The revised sanctioned cost for the Scheme is ₹ 441.998 Crores. Out of a total of 5782 villages in the State (2001 Census), 4082 villages (70.6%) have been electrified as on 31st march, 2011. The electrification of the balance 1700 villages are in progress. During 2014 – 15, an amount of ₹ 10.00 Crores is provided under SCA for Interest and Principal dues for RGGVY under REC.

## **5.2. NON CONVENTIONAL SOURCES OF ENERGY.**

**5.2.1.** The Twelfth Plan projected outlay for this Sector is ₹ 2400.00 Lakhs. The actual expenditure during the Annual Plan 2013 – 14 was ₹ 150.00 lakh, the budgetted outlay for the Annual Plan 2014 – 15 is ₹ 400.00 lakh and the anticipated expenditure is ₹ 150.00 lakh. The Tentative Budgeted Outlay for 2015 – 16 is ₹ 400.00 lakh. All the schemes under this sector have different funding pattern between the Centre, State and Beneficiary contribution, except the Direction and Administration i.e. Administrative Expenses which has to be borne purely by the State.

## **5.3. INTEGRATED RURAL ENERGY PROGRAMME.**

**5.3.1.** The Twelfth Plan projected outlay for I.R.E.P. is ₹ 2000.00 Lakh. The Actual Expenditure during 2013 – 14 was ₹. 160.04 lakh, the Budgetted Outlay during 2014 – 15 is ₹ 350.00 Lakh and the Anticipated Expenditure during 2014 – 15 is ₹ 150.00 lakh. The Tentative Budgeted Outlay for this Sector during 2015 - 16 is ₹ 350.00 lakh. All the schemes under this sector have different funding pattern between the Centre, State and Beneficiary contribution, except the Direction and Administration i.e. Administrative Expenses which has to be borne purely by the State.

## **5.4. VILLAGE ELECTRIFICATION (MNES SPECIAL SCHEME)**

**5.4.1.** This is a continuing scheme for completion of the proposed electrification of 106 Nos. of Remote Villages targeted to be electrified by SPV Home Lighting System with the integration of SPV Street Lighting System.

**5.4.2.** The projected outlay for the 12<sup>th</sup> Plan for this sector is ₹ 100.00 lakh and the actual expenditure during the Annual Plan 2013 – 14 is ₹ 65.00 lakh. The budgetted outlay for 2014–15 is ₹ 65.00 lakh and the anticipated expenditure for 2014 – 15 is Nil. The Tentative Budgeted Outlay for 2015 – 16 is ₹ 65.00 lakh.