

**Minutes of the 8th meeting of the Co-ordination Forum
held at NEDFI House, Dispur, Guwahati on 29.04.2014.**

The 8th meeting of the Co-ordination Forum was held on 29th April, 2014 at NEDFI House, Dispur, Guwahati, at 10 am.

A list of members, special invitees and officers present in the meeting is appended at Annexure-A.

The Secretary, Assam Electricity Regulatory Commission (AERC) welcomed all members, special invitees and officers present and requested the Hon'ble Chairperson, AERC to preside over the meeting.

Presiding over the meeting Shri Naba Kumar Das, IAS (Retd), Chairperson, AERC at the very outset welcomed all participants and stated that the Coordination Forum can play a vital and powerful role in smooth and coordinated development of the power system in the State as envisaged under Section 166(4) of the Electricity Act, 2003 through useful suggestions and prompt follow-up actions.

The Chairperson expressed concern that follow up actions were not taken on some of the decisions of the last meeting. The Chairperson also expressed concern that some members of the Forum remained absent and stated that all members needed to attend such meetings in future for effective discussions/ outcomes.

The Chairperson observed that due to deficient rainfall and dependence of the region predominantly on hydel power stations (which are mostly run-of-river types), the State of Assam was facing a severe power crisis and that too at a time when Parliamentary elections were being held in the State and educational institutions were also holding examinations. The Chairperson stated that although, the State Government held a series of meetings with all the concerned organisations and short term strategies would be worked out to overcome the crisis, however, the State required effective solutions to the power crisis that loomed in time and again. He further stated that fruitful deliberations in such Forums can also go a long way in evolving long term strategies for development of the power sector. The Chairperson, therefore, appealed that decisions taken in the meeting should be implemented and followed up for overall improvement of the power system in the State.

The above welcome note was followed by a brief introduction session of the members. The Chairperson, AERC then took up the agenda items one by one.

AGENDA ITEM NO. 1

Confirmation of the minutes of the 7th meeting of the Co-ordination Forum held on 30.04.2014.

The minutes of the 7th meeting of the Co-ordination Forum held on 30.04.2013 were circulated among the members /special invitees. OIL India Ltd. requested for some amendments in the minutes.

The minutes and the amendments submitted by OIL India Ltd. were placed before the meeting for confirmation and the same were taken as read. The proposed amendments were accepted. Therefore, the minutes of the 7th meeting were confirmed with the amendments.

AGENDA ITEM NO.2

Action taken on the minutes of the 7th Meeting of the Co-ordination Forum held on 30.4.2013.

The Chairperson, AERC observed that the proposal of the last meeting to construct a dedicated gas pipeline between Lakwa Thermal Power Station and the source of the gas by APGCL and AGCL was yet to be implemented. It was decided that the matter would be taken up in the course of discussion of the agenda item on this subject.

AGENDA ITEM NO.3

Appraisal of overall power scenario of the State of Assam by APDCL.

Giving a brief summary of the power scenario of the State with regard to demand and availability, Chairman & MD, APDCL, Shri Rajiv Yadav stated that there has been a steep increase of demand for power in the State during the last few years surpassing earlier projections. Shri Yadav stated that the demand has increased manifold and it is likely to touch 2500 MW to 3000 MW by the year 2020. However, he said that the State has not been able to increase its generation capacity to meet its power needs due to a number of reasons like inadequate gas supply, non allocation of coal linkage, etc., and unsatisfactory performance of some hydro stations in the region for various technical reasons. He stated that although, the State was pinning its hopes on the 726 MW ONGC –Tripura Palatana Power Station, however, the 120 MW power allotted to the state from the first unit commissioned in January 2014, is found to be unreliable with frequent maintenance shut downs of the station. Moreover, he stated that the date of commissioning of the 250 MW NTPC Bongaigaon Station was also being delayed due to technical problems and frequent ‘*Bandhs*’ declared in that area.

The CMD, APDCL further stated that despite power shortage almost throughout the year, APDCL was making efforts to provide power supply to all consumers across the state. Shri Yadav informed that since Guwahati has emerged as the commercial capital of the State, APDCL tries to maintain continuous power supply in the city and restrict load shedding in important/ emergency sectors like hospitals, educational institutes, etc. Shri

Yadav further informed that the peak power requirement in the city itself is 240 MW-280 MW and it contributes to about 50% of the APDCL revenue.

The CMD, APDCL stressed on the need for strengthening and augmenting the transmission and distribution infrastructure in the state by refurbishing the old sub stations/ lines and building new distribution and transmission capacities. He informed that the carrying capacity of the transmission and distribution network needs to be enhanced urgently for creating redundancy in the system for transporting /importing power in view of the increasing demand. He stated that while the ideal length of the 11 KV distribution feeders/ lines between two distribution transformers is only 16 kms, these extended to long distances upto 110 kms in certain cases leading to technical losses and low voltages. He also stated that separation of distribution feeders supplying power to commercial/ industrial establishments and domestic consumers is necessary to reduce commercial losses. He informed that many tea gardens were fed power from the same feeder supplying power to domestic consumers in rural areas. He stated that large scale investments are necessary for infrastructural development projects and APDCL was constantly exploring the financial organisations/ schemes (international/ central /state) willing to sponsor such projects in the state.

Shri Yadav also informed that the Company was taking measures for speedy consumer grievance redressal. A Quick Response Assistance Call Centre (24x7) was started for receiving consumer complaints in Guwahati which have been appreciated by consumers. He informed that APDCL proposes to introduce maintenance vans fitted with modern technical facilities at the outposts of the subdivisions for immediate response to consumer complaints.

APDCL then gave a power point presentation on the overall power scenario in Assam to discuss allotted power capacities from the Central and State generating companies available for the state of Assam, difference between demand and availability, status of open access consumers in the state, T&D and AT&C losses over the last few years, Available Transfer Capacity of ER-NER Grid, etc. During the course of this presentation it was informed that on 28.04.14 i.e. a day before this meeting, actual demand was 1453 MW and there was a shortfall of 460 MW owing to non-availability of about 53% of the allotted power supply from the central sector generating stations (CSGS) which was unexpected. It was further informed that APDCL was trying to procure power at an average price of Rs 3.5 – Rs 4 per unit from the Energy Exchanges and through Short term Open Access to overcome the shortage. It was informed that the Company released Rs 561 Cr in FY 2013-14 against station wise fixed charges for these CSGS as determined by CERC and even then, due to non availability of allocated power from the CSGS during the winter months, the utilities had to procure power at a much higher rate from the market.

The Chairperson, AERC stated that the thermal power stations of the State and the Central Generating Companies should make efforts to generate power to their maximum capacity during the lean hydro season i.e. winter months so that there is less shortage in the region. He further stated that the ongoing works of Namrup Replacement Power Project need to be monitored regularly to avoid any further delay in its commissioning.

It was informed by APDCL that power would be available from the hydro stations in the coming days due to anticipated rainfall in the catchment areas which might help mitigate the power deficit in the state to a considerable extent.

APDCL further informed that there were constraints in Available Transfer Capacity in the ER-NER Grid which sometimes became an impediment in importing power from other regions. **The Chairperson, AERC asked APDCL to ascertain the extent and reason of transmission constraint in the ER/NER Grid so that the matter can be taken up at the appropriate level for effective solutions.**

Shri T.Chatterjee Member, AERC observed that as the generating stations in the region were unable to generate upto their capacity for different reasons, APDCL may try tying up with other stations outside the region on long term basis. Shri Chatterjee also suggested that since 15% unallocated power from the Central Sector Generating Stations (CSGS) remains available with the Ministry of Power, Government of India, the Company may try to negotiate with the Ministry for allotment of a share of this unallocated power to Assam to meet the availability gap.

While deliberating on APDCL's Commercial data for 2013-14, the Chairperson AERC observed that the Company had spent an excess of Rs 586 Cr than the approved amount of Rs 2134 Cr for purchasing power and called for an explanation of the circumstances that led to such an increase.

The representative of APDCL stated that since allotted power was not available from the generating stations as per commitment, the company had to purchase power from the open market at a higher rate to avoid load-shedding.

The Chairperson, AERC observed that excess power procurement should have been brought to the notice of the Commission stating reasons for the same. The Chairperson stated that detailed information on demand and shortfall of power as well as quantum and price of power procurement should be submitted to the Commission regularly, and if possible, on a daily basis.

Regarding year-wise T&D and AT& C losses, the representative of APDCL stated that such losses were decreasing over the years from 34.18% in 2007-08 to 27.98% in 2013-14 (T&D loss) and 36.16 % in 2007-08 to 29.20 % in 2013-14 (AT&C loss). However, it was informed that although losses were declining, these were much more than what was approved by the Commission in the tariff orders for the respective years. He informed that as this excess loss is not allowed to be recovered through tariffs; the Company was facing financial constraints. He stated that APDCL is expanding its network to cover the entire State and its consumer base is increasing every year which also led to higher losses particularly in remote areas. He further stated that the Company was making efforts to reduce its T&D losses through different ways.

The Chairperson, AERC observed that further reduction in T&D losses is important not only to improve the financial condition of the Company but also its overall performance and therefore, APDCL should make more stringent and urgent

efforts to reduce such losses. The Chairperson asked the Company to carry out a survey on detailed component wise AT&C losses of their system so as to identify the major causes of such losses and take corrective measures as necessary.

APDCL then informed the Forum about the Deviation Settlement Mechanism which came into force from 17th February 2014 replacing the UI mechanism after notification of the CERC (Deviation Settlement Mechanism) Regulations 2014. It was informed that according to these new Regulations, the permissible deviation is 12% of the schedule or maximum 150 MW, whichever is lower only when grid frequency is “49.70 Hz and above”. It was informed that additional charges are applicable beyond the permissible deviation in case of both the buyer and seller.

The Chairperson, AERC advised APDCL to be proactive and constantly monitor power drawal so as to avoid payment of additional charges for any deviation from schedule. The Chairperson expressed satisfaction that Grid discipline was being maintained till this period.

APDCL informed that one consumer namely Cement Manufacturing Company Limited was availing open access for 8 MW power since 4th September 2013. It was further informed that few other consumers have also requested for open access and their prayers were under different stages of processing.

The Chairperson, AERC asked APDCL to expedite the process.

ACTION: APDCL/AEGCL/APGCL/NEEPCO

AGENDA ITEM NO.4:

Appraisal of the status of the ongoing SHP projects for which tariff based competitive bidding process was undertaken.

A power point presentation was made by APPDCL on the status of the ongoing projects. It was reported that seven small hydro projects were bided out on competitive tariff based bidding and tariff discovered was in the range of Rs. 2.76 to Rs. 3.18 per kWh. APPDCL also reported that a few small hydro projects and biomass projects are in the pipeline. The details of these projects are available at Annexure II.

It was informed that a proposal was submitted to the Government of Assam for development of Biomass Projects in Assam. It was further informed that APPDCL has taken up Sarusajai Substation for development under Substation Automation System and APPDCL also proposes to take up feasibility studies for development of Solar Power Projects in Assam.

The Chairperson, AERC observed that there is a need for setting up solar projects in the state and therefore, APPDCL was advised to examine the matter and act accordingly. The Chairperson further opined that the State Government may notify a Solar Power Policy for Assam as has been done for Small Hydro projects in 2007. The Chairperson further stated that keeping in mind the higher cost of solar power generation in the state, incentives may be provided to encourage investments.

The CMD, APDCL suggested that as land is not easily available in Assam to set up solar plants, roof top solar energy generation may be considered.

ACTION: APPDCL/ State Government

AGENDA ITEM NO.5:

Status of new and ongoing power projects of NEEPCO, NHPC AND NTPC/NEEPCO

A Power Point Presentation on Bongaigaon TPP was made by NTPC.

The representative from NTPC stated that the construction works of the project were being delayed due to some critical issues such as frequent *bandhs*, local threats and protests since February, 2008 till March 2014, the number of total *bandhs* totalling 245 days. It was informed that as a result, work was affected for more than 700 days at the project and progress has been slow. Moreover, two other issues such as land and pipeline alignment also were responsible for slow progress.

It was further informed that NTPC had taken all sorts of initiatives for completion of the project such as, awarding of balance civil works to BHEL and Assam PWD, offloading of civil work of unit #2 and #3 from the existing agency, holding continuous meeting with Labour Unions, arranging accommodation of outside workers inside plant area, allotting small value works to local agencies etc.

The CMD, APDCL advised the officials to reschedule the programme and complete the project by next year keeping in mind the severe power shortage in the state.

Although, there was no representation from NHPC in the meeting, a report on the status of projects by NHPC was submitted to the Commission which was shared with the members. A brief on the report is appended at Annexure III.

The representative from NEEPCO gave a brief description of the ongoing projects which were under different stages of development. NEEPCO informed that the Tuirial H.E. Project located in the Aizawl district of Mizoram adjoining Cachar district of Assam with an installed capacity of 60 MW (2 x 30 MW) is expected to be commissioned in December 2015. The 600 MW Kameng H.E. Project in Arunachal Pradesh is expected to be commissioned in March 2017. The Tripura Gas Based Combined Cycle Project of nominal capacity 101 MW is under execution at Monarchak, West Tripura is expected to be commissioned in November 2014. The state of Assam shall be able to procure power from these stations after their completion.

In the last meeting, it was informed that out of 107 MW allocated to the state, only 43 MW was received from the Kopili Hydro Electric Project. The representative from

NEEPCO had informed that the underwater machineries had undergone corrosion due to acidity in the water and repairs & maintenance works have been taken up. On a query from the Commission as to when the project would be able to generate to its effective capacity, it was informed that the repairs and maintenance works are likely to be completed by March 2014 and the project would be able to generate to its full capacity depending on the inflow of water. Therefore, the Chairperson, AERC enquired regarding the latest status of the Kopili HE project.

It was informed that R&M works are still underway and a consultant has been engaged to study the situation and propose recommendations.

AGENDA ITEM NO. 6:

Gas Supply position of the Thermal (proposed and existing) Station of APGCL/NEEPCO/OTPC – ONGC/OIL/GAIL//AGCL.

APGCL reported that during the period from April 2013 to February 2014 gas supplied by OIL & GAIL to LTPS was erratic. A statement of drawal of gaseous fuel to LTPS & NTPS as submitted during the meeting for the period is given below:

Station	Supplier	Linkage (MMSCMD)	Avg, Supply (MMSCMD)
LTPS	GAIL (TILL DEC'13)	0.55	0.41
	GAIL (SINCE JAN' 14)	0.40*	
	OIL	0.50	0.37
NTPS	OIL	0.66	0.62

** The contract for supply of additional 0.15 MMSCMD gas supply to LTPS from GAIL expired on December 2013.*

The Assam Gas Company Limited (AGCL) informed that the annual consumption of gas by NTPS and LTPS of APGCL is less than the booked volume of gas due to disruption of gas supply from producers as a result of various bandh calls and operational problems of AGCL, NTPS & LTPS.

AGCL informed that the supply of gas to NEEPCO has been satisfactory (booked volume is 1.4 MMSCMD). AGCL further informed that the gas supply to Adamtilla and Banskandi plants of EIPL were closed due to in adequate gas supply from ONGCL w.e.f. September 2010 and non - payment of dues w.e.f 08.01.2013 respectively. It was also reported that AGCL was considering recovering the huge outstanding dues amounting to over Rs 24 Cr from EIPL through legal procedures.

In Agenda No. 5, of the last meeting, APGCL and AGCL were asked to explore the possibilities of a dedicated gas pipeline between Lakwa Thermal Power Station and source of gas in order to offset the low pressure and shortage of gas supply to the power station. The Chairperson, AERC enquired regarding the status on the matter.

APGCL informed that before implementing the pipeline, APGCL desired to go for a detailed field study on the existing supply and piping system of gas pipeline to LTPS by some expert agency having experience in such type of study. The agency had requested for some data from the tap off points of the existing gas supply and transportation system which are to be provided by AGCL. APGCL informed that it had sent two letters dated 01.03.2014 and 08.04.2014 to the Company but reply was still awaited. Besides, APGCL informed that since the cost of laying such a pipeline is estimated at Rs 1000 Cr, therefore, the Company is trying to collect funds for the necessary investment from different sources like ADB, NLCPR etc.

The Chairperson, AERC stated that since the amount involved is substantial, APGCL should ascertain whether the pipeline will be economically viable and proceed accordingly. The Chairperson further stated that feasibility of other technological options in improving the pressure of gas supply needs to be examined.

The Chairperson further enquired whether the gas committed to NTPS and LTPS was sufficient to produce to their maximum capacity. APGCL informed that if the quantity of gas supply increased, it would certainly facilitate more generation given the fact that the pressure of the gas supplied is often low in case of LTPS and also calorific value of the gas supplied to the Stations varied.

APGCL informed that it had written to the OIL India Limited on 12.08.2013 for additional gas supply of 0.5 mmscmd for its proposed Namrup Extension II Power Project. OIL informed that it could not commit any additional gas supply at present but, it may review its decision based on possible gas discovery in future. The Company further informed that it is going to participate in the ONGC tender for 0.15 mmscmd gas of Bhurbander and Banskandi gas fields.

Responding to APGCL, the representative from OIL reiterated as in the earlier meeting that OIL is committed to continue supply of gas to the existing customers to the extent of committed quantities. He informed that there was hardly any possibility for availability of extra gas till 2014; because OIL was at present making efforts to increase its daily production potential to meet the commitment of gas to BCPL's gas cracker project in Assam. However, he also added that based on the outcome of the ongoing exploration

activities in Karbi Anglong and Mizoram in the NE by OIL, there is possibility of reviewing the gas availability post 2014.

The Chairperson, AERC observed that the matter may be taken up with the Ministry of Power, Government of India by APGCL/ State Government.

ACTION: APGCL/ GOA

AGENDA ITEM NO.7:

Presentation by APGCL, AEGCL & APDCL on the status of ongoing generation, transmission and distribution projects under different schemes (R-APDRP, TDF, NLCPR, World Bank Assisted Projects, etc) including status of renovation and modernisation works.

A Power Point Presentation was made on the ongoing projects by AEGCL, APDCL and APGCL. These are briefly recorded at Annexure IV.

APGCL informed that the Namrup Replacement Power Project (NRPP) is expected to be commissioned in mid 2015 and only 45% of the project works were completed.

It was also informed that APGCL acquired 1041 bighas of land at Amguri, Sivsagar for the Amguri Power Project, however, gas linkage could not be established. **It was informed that APGCL has, therefore, taken the initiative to set up a photovoltaic power project of 60 MW capacity. The project is proposed to be implemented under Public-Private partnership structure on Build-Operate-Transfer basis. It was informed that EOI was floated and 9 parties applied, RFP has been prepared and Technical bids to be opened on 17.06.2014.**

It was further informed that the Company has taken up R&M (Renovation & Modernisation) schemes for LTPS, NTPS & KLHEP for the year 2013-14 of Rs.1.5 Cr, Rs 2 Cr and Rs 5.40 Cr respectively.

APGCL stated that the Myntriang SHEP St-II was commissioned in March 2014. Provision has been made for enhancement of installed capacity from 9 MW to 13.5 MW.

The on-going T&T Projects of AEGCL under different funding schemes like NLCPR, NEC, Trade Development Fund (GOA), Annual Plan Fund and ADB Fund were discussed.

APDCL informed that RAPDRP and SCADA works in Guwahati city were under different stages of completion. **It was informed that when SCADA and RAPDRP works will be completed, losses are likely to come down to 15% and there would be**

monitoring of meter reading, billing and collection on almost real time basis from multiple locations. It was informed that there would be no manual intervention in Meter reading and billing of HT consumers and also a Centralised Customer Care centre would be established which would greatly enhance customer satisfaction

It was informed that so far as Trade Development Fund (TDF) 2011-14 Schemes were concerned, out of Rs.666.08 Cr administrative approval, a sum of Rs.420.83 Cr was received by APDCL till date. **The CMD, APDCL stated that 20 percent of the funds for strengthening and augmentation of distribution network of APDCL was received from this fund.**

CMD, APDCL informed that the loan from Assam Power Sector Enhancement Investment Program (APSEIP) Tranche-3 (Loan No. 2800 – IND) of ADB was also being utilised to enhance the capacity of the distribution network.

Drawing the attention of the Commissioner and Secretary, Department of Power, Government of Assam, the Chairperson, AERC stated that the power sector required more investments for revamping the existing infrastructure and the matter needed to be pursued by the Companies with the State Government. The Chairperson further emphasized that the NRPP project works need to be expedited and serious efforts should be made for completion of the ongoing projects within the stipulated time.

ACTION: APDCL/AEGCL/APGCL/GOA

Agenda Item No.8:

Presentation by CGM (RE) on the status of Rural Electrification/ Rajiv Gandhi Gramin Vidyutikaran Yozana (RGGVY).

A Power Point Presentation was made on the subject by CGM (RE), APDCL. He stated that the number of rural connections have increased manifold due to RGGVY and it is seen that consumers taking connections as BPL category often consumed more power than the stipulated load for such category. He also stated that the BPL households are given power connections free of cost under RGGVY and these households often refused to pay their bills on the pretext that the bills were higher than for BPL categories. He informed that this was causing financial loss to APDCL.

Dr. Anil Goswami, member, opined that as electricity connection is still not available in some remote areas of the state, therefore, for industrialisation and in greater interests of the people residing in those locations, providing electricity through generation from renewable sources may be considered. He suggested that in such areas setting up of solar energy projects may be encouraged.

The Chairperson, AERC opined that a state renewable energy policy is necessary to encourage investments in the renewable sector and action may be initiated in this regard.

The Chairperson further suggested that this meeting may be held more frequently for better coordination among the members.

ACTION: APDCL/GOA

Agenda Item No-9:

Any other matter

No other matter had come up for discussion.

The meeting ended with a “Vote of Thanks” to and from the chair.

Sd/-
(Naba Kumar Das)
Chairperson
Assam Electricity Regulatory Commission

Memo No. AERC. 117/2004/Pt. III/3-A

Dated: 11th July, 2014

Copy forwarded to all concerned.

By order etc,

Secretary
Assam Electricity Regulatory Commission

List of members, special invitees and officers present in the meeting of the Coordination Forum held on 29th April, 2014 at NEDFI House, Dispur, Guwahati.

1. Shri Naba Kumar Das, IAS (Retd), Chairperson, AERC
2. Dr. Rajani Kanta Gogoi, Member, AERC
3. Shri Tapan Chatterjee, Member, AERC
4. Shri Rajiv Yadav IAS, CMD, APDCL & Chairman, APGCL & AEGCL.
5. Shri Anurag Goel, IAS, Commr. & Secy, Power Deptt. Govt. Of Assam.
6. Shri Hasan Sazid Ahmed, CGM (D) APDCL
7. Shri S.K.Saha, CGM, AEGCL
8. Shri H.S.Phukan, CGM, AEGCL
9. Shri B.K.Choudhury, CGM, APDCL
10. Shri K.Phatowali, CGM, APGCL
11. Shri Utpal Chakrabarti, CGM, NTPC
12. Shri S.N.Kalita, CGM (F&A) APGCL
13. Shri J.K.Sarma, CGM, SLDC, AEGCL
14. Shri A.Baisya, CGM/Com-Rev
15. Shri Atul Ch. Boruah CGM(Hydro) APGCL
16. Shri P.Bujarbaruah, CGM(D), APDCL
17. Shri B.Deuri, CGM, Surface Manager, ONGC.
18. Shri K.Sarma, AGM (E) AEGCL
19. Shri J.K.Saud, AGM, APGCL
20. Shri Kunal Mazumdar, CM, Assam Gas Co. Ltd.
21. Shri M.K.Baruah, Manager (C&BD), Assam Gas Co. Ltd.
22. Shri K.K.Sarma, GM (Planning) Oil India Limited.
23. Shri M M Rahman, CM (Marketing), GAIL India Ltd.
24. Dr. Anil Kumar Goswami, Former Principal, Cotton College, Guwahati
25. Shri Pradeep Aggarwal, CEO, APPDCL.
26. Shri Pran Gopal Saha, Director, APPDCL.
27. Shri Bhaskar Goswami, Sr. Manager, O/O ED (O&M), NEEPCO.
28. Shri G.K.Das, MD, AEGCL.
29. Shri R L Barua, Director (Tech) APDCL.
30. Shri H.K.Deuri, Director, Finance (EA) Deptt.
31. Shri R.Sutradhar, DGM, NERLDC, POSOCO.
32. Shri Arun Kumar, Dy. Manager NTPC

33. Shri M K Adhkari, GM, APDCL
34. Shri S. Dasgupta, Asstt. Manager APPDCL
35. Shri P. Dutta, Asstt. Manager, APDCL
36. Shri P K Basya, Dy. Manager, APDCL
37. Shri B.C.Bordoloi, GM (Gen), APGCL
38. Shri P.K.Sharma, GM(Com-Rev), APDCL
39. Shri A K Saikia DGM i/c LDC, SLDC
40. Shri A.K.Das, DGM, APDCL
41. Shri J P Choudhury, AGM (Com)
42. Shri A. Saikia. DM, APGCL
43. Shri D Goswami, AGM, AEGCL.
44. Shri U.Dutta, AGM,APGCL
45. Shri A.K.Bhattacharjee, AGM (Civil), APGCL

Officers of AERC

1. Shri D.K.Sharma, Secretary and Joint Director(Tariff)
2. Shri T.Mahanta, Dy.Director (Engg)
3. Ms. P.Sharma, Consultant(Finance, Database and Consumer Advocacy)

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APPDCL

The following projects were developed by APPDCL since its incorporation in July 2007:

- i) Champamati SHP (4 MW) - was allotted to M/S.ECI in April 2007. Commercial operation started in November 2010.
- ii) Pahumara SHP (2.0 MW) - was bided out to M/S Ashok Anil Consortium in 2008. The construction works have started.
- iii) Bordikarai SHPs-4nos (4.7 MW) - Construction started in 2010, delayed due to Forest Clearance. Project is scheduled to be commissioned by the March 2015. It was the first tariff based bidding in North Eastern region. Saleable energy is 27.53 MU @ Rs 2.73/kWh.
- iv) Desang SHP (9.0 MW) - Forest clearance is awaited and construction works will start after forest clearance. Project was allotted to M/S LD Power Ventures through tariff based bidding in 2010. IA & PPA signed and also FC has been completed. Saleable Energy 45.29 MU @ Rs 2.88/kWh. Local villagers, tea estates and tea processing industries will be benefitted.
- v) Kalanga SHPs I & II (6.0 MW) - bided out to M/S.Transstroy (India) Ltd. in 2011. Forest clearance is awaited. Saleable Energy from the project is expected at 25.16 MU@ Rs 2.99/kWh. The project is targeted to be commissioned in 2015. Villages of Karbi Anglong district will be benefitted.
- vi) Dronpara SHP (1.6 MW) - Project was allotted to M/s Supreme Infrastructure India Ltd. in Nov.'2012 through tariff based bidding. Saleable Energy is 6.17 MU@ Rs 3.18/kWh. Construction activities are yet to start. The project will improve power availability in the region.

PROJECTS IN PIPELINE

- i) Borpani Intermediate projects- Three new projects have been identified and proposed to be developed. The proposal for forest clearance is in progress.
- ii) Upper Borpani (60 MW)- The project development activity is on hold due to fund constraint and inter- state issue with Meghalaya.
- iii) Dhansiri &Bordikharu SHPs - Cabinet approval has been received. ToR has been floated for appointment of Survey Agency and DPR consultant.

NHPC

It was reported by that construction works of the 2000 (8x250) MW Subansiri Lower HE Project at Arunachal Pradesh are at a standstill due to anti dam agitation in Assam and it would take another four years for completion after resumption of works. The expected cost of the project is Rs 16500 Cr and levellised tariff is estimated as Rs 2.88/ KWh. A number of committees have been constituted like the Dam Design Review Panel, Technical Expert Committee etc, to study the project and these Committees have submitted their report. A tripartite meeting was held on 6.12.2013 between officials of the GOI & NHPC, GOA and representatives from 32 organizations. A Meeting between Expert Group (EG) of Assam and experts of GOI & NHPC was organized on 23.12.2013. Next meeting is likely to take place in May, 2014.

Few other projects of NHPC in NER are:

- i) 3000 (12x250) MW Dibang Multipurpose Project in Arunachal Pradesh. Estimated revised cost of the project in Jult 2013 is Rs 23,896 Cr and levellised tariff is Rs 4.21 KWh. Forest and CCEA clearances are pending and the project is expected to be completed 9 months after CCEA clearance.
- ii) Tawang HE Project Stage-I, 600 (3x200) MW in Arunachal Pradesh. Estimated revised cost of the project in August 2011 is Rs 5349.52 Cr and levellised tariff is Rs 3.83 KWh. Forest and CCEA clearances are pending. The project is expected to be completed 6 1/2 months after CCEA clearance.
- iii) Tawang HE Project Stage-II, 800 (4x200) MW in Arunachal Pradesh. Estimated revised cost of the project in November 2013 is Rs 7827.52 Cr and levellised tariff is Rs 4.53 KWh. The project is expected to be completed 83 months after CCEA clearance which is pending.

ONGOING PROJECTS OF APGCL

THERMAL PROJECTS, APGCL

- i) **Namrup Replacement Power Project (100 MW, PH I)** : This natural gas based project targets to replace the old turbines at NTPS with efficient machines. Overall completion of works at present is 45%. The project cost is estimated at Rs 693.73 Cr and tariff is expected to be Rs 3.90/ KWh. Expected date of commissioning is mid 2015.
- ii) **70 MW Lakwa PH I Replacement Power Project:** This natural gas based project targets to replace the existing old turbines at LTPS with efficient machines. The project cost is estimated at Rs 338.24 Cr and tariff is expected to be Rs 3.33/ KWh. Expected date of commissioning: 24 months from LOI
- iii) **500 MW (2x250 MW) Margherita Thermal Power Project (MTPS):** The DPR for this coal based project is in the final stage. The project cost is estimated at Rs 3566 Cr and tariff is expected to be Rs 2.77 KWh. The major concern is getting coal linkage.
- iv) **Revival of 2x30 MW Chandrapur TPS:** The project aims to revive the 60 MW (2x30 MW) CTPS which was closed down in June 1999. A JV Company (M/s IAPL) has been formed between APGCL (26%) and Consortium of Imperial Energy & Construction Pvt. Ltd., Imperial Fasteners Pvt. Ltd and Intelli Mine Inc. The major concern is getting coal linkage. Expected tariff is Rs 3.25/KWh.

Fuel Supply Agreement has been signed between M/s World Trade Raw materials Inc, USA (having selling rights of coal from Indonesia).The Power Dept., GOA requested Environment & Forest Department, GOA for issue of Environmental and Forest Clearance to M/s IAPL.
- v) **Amguri Power project:** APGCL acquired 1041 bighas of land at Amguri, Sivsagar for the project but gas linkage could not be established.
- vi) **27 MW Cachar Gas Engine based power project:** Estimated project cost is Rs 169 Cr. Major concern is gas linkage which depends on successful bidding of gas floated by ONGCL for Bhurbandar and Banskandi Gas Fields set on 05.05.2014.

HYDRO PROJECTS, APGCL

i) Myntriang SHEP:

The project cost is 78.17 crore and installed capacity is 9 MW (2x3 +2x1.5 MW). Myntriang SHEP St-II was commissioned in March 2014. Provision has been made for enhancement of installed capacity to 13.5 MW.

ii) Lungnit SHEP:

The installed capacity is 6 MW and the project cost is 69 crore approximately. The work got delayed due to court case.

iii) Lower Kopili H. E. Project:

The estimated project cost is Rs.1489.64 crore. The observations of CEA and other authorities are being met. Revised forest clearance application has been submitted to the concerned authorities.

ONGOING PROJECTS OF APDCL

Restructured Accelerated Power Development & Reform Programme (R-APDRP)

R-APDRP Project is Ministry of Power; Govt. of India financed IT & Electrical Strengthening Project. The Nodal Agency for R-APDRP Project is M/s PFC Ltd.

Part-A of R-APDRP: 100% loan from PFC/ MOP, GOI to be converted to grant subject to fulfilment of condition like timely completion of the project.

Part-B of R-APDRP: 90% loan PFC/ MOP, GOI to be converted to grant subject to completion in time & reduction of losses to 15% & below in project areas

SCADA in Guwahati city-

The work is in progress. RTU reached in site and installation started at the Sub Station. Installation of radio equipments are in progress.