

POINTS TO BE SUBMITTED TO CMD /APTRANSCO BY APSEBEA  
REGARDING IMPROVEMENT OF REVENUE, PERFORMANCE AND  
EFFICIENCY OF APTRANSCO

1. During 2002 there were 258 Nos EHV Sub stations and 24055 CKM of EHT line. By 2010 total of 393 EHT sub stations and 31074 CKM line is in operation now. The commensurate manpower is not added. At the same time 438 AE posts are kept vacant. This lopsided arrangement is hampering APTRANSCO functioning. Added to this the impact of Electricity Act 2003 such as Power evacuation from Generators, Trading, Open Access, Rising Demand, No Network Expansion are creating serious problems.
2. 438 vacant AE posts should be filled immediately by recruitment.
3. Construction of Sub-stations and Tower Lines ie all projects should be done by APTRANSCO officials only duly eliminating/ avoiding the turn-key system in a phased manner. The cost of material procured in turn key mode is very high compared to APTRANSCO procurement. The quality of material supplied under turnkey mode is inferior as compared to the material procured by APTRANSCO. There will be at least 30% over all savings if turnkey is dispensed with. For erection and commissioning works, the present contracting system may be continued.
4. For speedy implementation of the projects the existing payment mechanism for compensation to landowners need to be reviewed in view of huge Right-Of-Way problems. Therefore the Management needs to consider suitable crop compensation and land compensation permissible by law to speedy redressel of grievances of farmers and landowners. The procedure followed by PGCIL can also be adopted.
5. The land acquisition and right-of-way problems can be better dealt by Revenue people. Therefore the Estate officer shall be given this Responsibility and required Deputy Tahasildhars shall be taken on deputation basis to assist. The Additional Secretary shall be overall in-charge of the task.

6. All the materials should be purchased by APTRANSCO through centralized procurement by strengthening the stores at Zonal/Circle levels duly creating the CE/P&MM at Vidyut Soudha.
7. Number of Merchant Power Plants & Independent Power Producers are coming in AP state at 400 KV level, for all these projects Construction /erection & commissioning Works of Sub-stations/ Pooling switching - stations & Tower Lines from plant to load centre should be taken by APTRANSCO by conducting the necessary system studies by APTRANSCO.
8. Creation of Research & Development Wing duly creating the CE/R&D at Head quarters. The CE post is proposed with a sole aim of building capacity from the existing expertise to provide R& D consultancy and Training services to other private companies including other state utilizes in project planning, execution and commercial activities so that huge revenues can be earned by APTANSCO duly Eliminating / avoiding the out-sourcing system ie KPMG etc.
9. To reduce the system losses from present system (i.eT&D) at 400 KV, 220 KV, 132 KV & 33KV voltage levels as per CEA & APERC construction of lines at higher voltage level or construction of lines parallel lines are required from Generating stations to load centers and construction of Sub-stations at load centers by constructing one 400KV SS, four 220 KV SS & Sixteen132 KV SS in each District Depending on the load and also While constructing the EHT Lines, Ratio should be maintained ie 400 KV :220 KV :132 KV.
10. Fiber optical cables were already installed between Sub- stations connected to Head quarters Hyd by leasing the cable to Telecom Business holders.
11. Optimum utilization of V-sat facilities, which already installed at Aprtransco Sub- stations for data transfer.
12. Collection of following charges from various applicants/Generating companies after taking approval from APERC.
  - i. System studies charges from Generators ie Merchant Power Plants, Independent Power Producers & Captive Power plants for evacuation of Power duly strengthening the system studies wing at Head quarters level.
  - j. Parallel operation / synchronization charges with Transco / Discom network at initial stage in single payment.

- k. Grid connectivity charges at various voltages by monthly /yearly basis.
  - l. ABT meter Testing Charges and Oil sample testing Charges. Duly providing the meter testing and oil testing facilities at CTI Hyderabad.
  - m. Engaging the hot line staff to other companies.
  - n. Reactive energy charges from DISCOMS and Generators.
  - o. APTRANSCO Line shut down Charges for the feeders between generating station to sub station and for the feeders between sub station to sub station (Grid feeders and tail end feeders)
    - i) For crossing of private vehicles underneath of APTRANSCO lines.
    - ii) For crossing of private Generator lines for evacuation of Power (those who are not having PPA with DISCOMS) under /over the APTRANSCO lines.
  - p. Enhancement of Short Term Open Access (STOA) & Long Term Open Access (LTOA) Application fee from the present fee (From Rs.1, 000/-to Rs5, 000/- for STOA and From Rs.10, 000/-to 25,000/- for LTOA).
13. Collection of interest charges in respect of Development Charges. These charges need to be collected along with SLC charges before taking up the work but presently Development Charges are collected at the time of releasing of service.
14. Booking of corridor by applying STOA application to nodal agency (SLDC) in respect of Direct Injection Generators who are supplying power to APPCC/ DISCOM.
15. APTRANSCO Sub- station wise assets at 400kv, 220kv & 132 kv should be Maintained at Zonal and Circle as well as at Head quarters level duly bifurcating from Discoms & Genco.
16. Construction of Zonal and Circle offices at each Zone and Circle.
17. Maintaining of APTRANSCO voltage wise & line wise assets at 400kv, 220kv & 132 kv voltage levels at Zonal and Circle as well as at Head quarters level.
18. As per CEA Planning norms EHV Sub-stations can not be loaded more than 60% to meet n -1 and n-2 contingency criteria. Majority

the sub-stations are violating this norms. Tough Long term planning is made in reality it is not converted in to action.

19. Calculation and Maintaining of APTRANSCO voltage wise line losses at 400kv, 220kv & 132 kv voltage levels at Zonal and Circle as well as at Head quarters level.
20. Creation of two new addl Zones at field level i.e. one at Nellore and another at Nizamabad for better performance and efficiency totaling to 8 zones in AP State. The zonal Chief Engineers shall be responsible for all Construction and O&M activities.
21. Creation of 11 new O&M circles in addition to the 13 existing O&M circles totaling to 24 O&M circles ( for Ranga Reddy Dist one existing and one additional O&M Circles are required). Circle SEs shall be responsible for O & M activities at 132 KV & 220 KV level (SS&Lines) and in some circles 400kv O&M activities also responsible for better performance and smooth operation.
22. Creation of 17 new TLC circles at each District i.e. 1 circle per District in addition to the 6 existing TLC circles . SEs shall be responsible for construction activities at 132 KV & 220 KV level (SS&Lines) for better performance.
23. Creation of 6 new 400kv Construction circles at each zone level in addition to the 2 existing 400kv Construction circles. Circle SEs shall be responsible for construction activities at 400 KV level(SS&Lines).
24. The existing LIS circles i.e. at Karnool & Warangal Shall be merged with newly proposed TLC circles.
25. The existing 400kv O&M circles i.e. at Kalpaka, Vemagiri and Mamidipally to be continued.
26. Extension of 33KV bay works up to 33KV AB switch/Terminal Point at APTRANSCO Sub-stations should be taken by APTRANSCO in respect of release of new loads & Evacuation of Power from Generating Plants at 33KV levels duly collecting the necessary charges ie cost of bay, breaker, CTs & AB switches etc from applicant. 33KV Line works from 33KV AB switch/Terminal Point to Generating Plants /Load point may be carried out by Discoms.
27. In any organization one functional head is required to look after the commercial activities. CE/Comml/ APTRANSCO post should

be created for better performance regarding Transmission business as single Nodal agency with the following activities.

- l. Processing of Long Term Transmission Open Access applications, according approvals and concluding of Long Term & short-term open access Agreements with Discoms and Open Access users.
  - m. Processing of transmission and SLDC charges in respect of Discoms, Open Access Generators & Direct injections as per Tariff Orders and review of collection of charges.
  - n. Implementation of Tariff Order directives & Regulations.
  - o. Registration of generating companies with SLDC.
  - p. Monitoring of Inter-State Open Access transactions & approvals and monthly reconciliation of Transmission and SLDC charges with respect to the OA capacities approved by RLDC's viz. SRLDC, ERLDC, WRLDC and NRLDC and also receipt of Transmission and SLDC charges from the Inter-State OA transactions done through IEX & PX.
  - q. Correspondence with CERC, APERC, CEA and SRPC and attending meetings, seminars, workshops and hearings on behalf of APTransco being STU.
  - r. Issuing of load approvals for release of new & Addl loads at 132KV Levels.
  - s. Evacuation of Power from Merchant Power Plants, Independent Power Producers & Captive Power Plants.
  - t. Synchronization of Generators with APTransco Net work.
  - u. Correspondence with 4Discoms & 6 Aptransco Zones
  - v. To look after the court cases in respect of Open Access charges.
28. Computerization of all Staff Service Registers at Zonal and Circle as well as at Head quarters level.
- a) AEs service register shall be maintained at circle office level in field.

- b) ADEs, DEs service register shall be maintained at zonal office level in field.
  - c) CEs, SEs service register shall be maintained at Head quarters.
29. The APTRANSCO needs to implement proper IT applications and IT packages for ease of work and improving the out put. The MIS REPORTS shall be taken directly from the system instead of present manual methods. The experience of ERP is not all that satisfactory.

All the members are requested to go through the above points and give suggestions with in three days ie.. by 4-12-2010.