Record Notes of discussion of the 7th meeting of State Co-ordination Forum of TNERC held on 11-7-2012 in the Commission's Office

1) List of participants is enclosed as Annexure – I.
2) Members of the Commission welcomed all the participants.
3) In their opening remarks, Members explained the current power supply scenario in the southern region. It was further discussed that during this wind season the wind generation in Tamil Nadu touched around 70 million units per day and the power supply position in Tamil Nadu is better as compared to the situation before the onset of wind season. Nevertheless the importance of commissioning of various on going power projects and the associated transmission schemes cannot be ignored. In the light of the above, individual projects were taken up for further discussion.

3.1) Mettur Thermal Power Project Stage – III (1 x 600 MW)

This project was originally scheduled for completion on 23-9-2011. TANGEDCO now indicates that there are delays in coal handling plant, Milling system and Electro Static Precipitator, Ash handling system etc and therefore the unit could be expected to start delivering power by September 2012. If the pending works are not completed as expected, the unit might further slip to December 2012. As regards the associated transmission system, TANTRANSCO indicated that 4 Nos of 400 KV Feeders Viz., Arasur 1 & 2 and Singarapet 1 & 2 are the evacuation lines. While work on Singarapet 1 & 2 is not started yet since site for 400 KV switchyard at Singarapet is not yet finalized, Arasur 1 & 2 feeders are struck with certain writ petitions filed in the High Court, Chennai. This involves foundations at 7 locations, tower erection works at 9 locations and line stringing to a length of 4.63 Kms. It is imperative that the TANTRANSCO approaches the Hon'ble High Court for a satisfactory resolution of this issue and complete the pending works so that evacuation of power through 400 KV line is not affected. In the absence of feeders Singarapet 1 & 2, Arasur 1 & 2 alone would be available for evacuation of power. It therefore becomes all the more critical that Arasur 1 & 2, 400 KV lines are commissioned after getting necessary relief from the Hon'ble High Court of Madras. The Commission also emphasizes that any

temporary arrangement for evacuation of power should not be continued for too long as it may compromise with the safety and security of the grid. Hence, it is necessary to execute the transmission system as per the approved plan of CEA, Central Transmission Utility and the State Transmission Utility.

3.2) North Chennai Stage – II, Unit II, 600 MW

Scheduled completion date - 16-11-2011. Expected full load operation date - September 2012. The residual works relating to milling system, coal handling system, Ash handling system, Switchyard and cooling water system needs to be completed so that this unit is brought to full load in September 2012 as per the revised programme. As regards the associated transmission system, TANTRANSCO reported that there is a problem in erection of towers in 4 locations. This issue needs to be immediately sorted out by TANTRANSCO and they may approach the Government of Tamil Nadu, if necessary, to resolve this issue so that the main evacuation line of NCTPP Stage – II is completed and evacuation of power is facilitated. This activity is very critical as otherwise any temporary arrangements for evacuation of power may come in the way of evacuation of power from the NTPC TNEB joint venture project at Vallur. Similarly, court cases have also been reported in the Alamathy – Sunguvar Chatram Multi circuit line. This also requires to be resolved immediately as the second unit of the power station is scheduled for commissioning in September 2012 and the first unit is scheduled for commissioning in January 2013. The Commission is concerned about the temporary arrangements. While contingency arrangements for a shorter duration may be in order, it should not become permanent as it will reflect on the redundancy and reliability of the system.

3.3) North Chennai Stage – II TPS, Unit – I, 600 MW

This unit is scheduled for completion on 18-5-2011 but now reported scheduled for completion in January 2013. TANGEDCO shall closely follow up with BHEL, Haridwar for the receipt of alternate generator stator in place of the stator which was damaged and lost in transit at the first instance. TANGEDCO has indicated that this replacement stator is expected to be

dispatched by July / August 2012. TANGEDCO shall follow this closely with BHEL at the unit level as well as at the corporate level for its early dispatch. Necessary co-ordination may also be done with BHEL for the receipt of the stator at site and its installation so that this unit does not get delayed beyond January 2013.

3.4) Vallur Thermal Power Project Stage – I (2 x 500 MW)

Unit – I COD – 12-10-2010

Unit – II COD – 12-13-2011.

These units are now scheduled to be commissioned in July 2012 and September 2012. Balance work with regard to internal coal handling plant, Ash handling plant, Ash dyke, etc for unit – I and coal bunker, TP 10, power cycle piping, etc for Unit II should be completed so that the units are commissioned without further slippages and before the rescheduled commissioning dates.

3.5) Vallur TPP Unit Stage – II (1 x 500 MW)

This unit was scheduled for completion by 27-9-2012 but is now rescheduled to July 2013, the completion work of this unit needs to be planned and executed in such a manner that atleast the revised scheduled date is adheared to.

No major constraint has been expressed by TANTRANSCO / PGCIL for evacuation of power from Vallur TPP.

3.6) NTPL Project at Tuticorin

This project comprises of two units of 500 MW each being executed by a joint venture of TANGEDCO and NLC. The units were scheduled for completion on 28-3-2012 and 28-8-2012. TANGEDCO has indicated in their presentation that these units would be completed by March 2013 and June 2013. The representative of NLC pointed out that there are further delays by BHEL and these units are now expected in December 2013 and March 2014. It was pointed out that such delays would unnecessarily increase the interest during construction and therefore the capital cost besides the loss of availability of power during the delayed period. Therefore, all efforts should be made to curtail the delays.

3.7) NLC Expansion (2 x 250 MW)

These two units are getting unduly delayed as it has been reported that modifications are being done in the CFBC boilers, which are being supplied for the first time in the country by BHEL. Such delays at the fag end of the construction period when most of the expenditure is already incurred increases the interest during construction phenomenally. This issue needs to be resolved at the appropriate forum. It is imperative that both these machines are commissioned expeditiously.

3.8) NTPC – Simhadri – Unit II (1 x 500 MW)

TANGEDCO had reported that this unit will be commissioned in August 2012.

3.9) TANGEDCO / TANTRANSCO confirmed that they are in a position to receive the power generated from Kudankulam and MAPS (PFBR) power projects.

4) The TANGEDCO has also listed out the following projects for meeting the future demand. These projects are proposed to be taken up and commissioned between 2016 – 2017.

4.1) Ennore thermal power station replacement (1 x 660 MW)

The Commission pointed out that existing Ennore TPS is still running, albeit on part load capacity. Replacement suggests that the existing units will be dismantled. This was confirmed by TANGEDCO. It was further clarified by them that the contract for setting up of a new project would also include the dismantling of the existing units. Besides the coal linkage, water linkage, environmental linkage clearance will also have to be processed.

4.2) Ennore Thermal power station expansion (1 x 660 MW)

4.3) Turicorin Thermal power project (1 x 800 MW)

4.4) North Chennai Thermal power project Stage – III (1 x 800 MW)

4.5) Ennore SEZ Thermal power project (2 x 800 MW)

4.6) Udangudi Thermal Power project Stage – I (2 x 800 MW)

For all these projects all the inputs needs to be tied up, environmental impact assessment needs to be done and clearance / revised environmental

clearance needs to be obtained. It is also necessary to plan the commissioning of these units matching with the load growth.

4.7) Uppur Thermal Power Project (2 x 800 MW)

This plant is proposed to be carried out under case 2 bidding by TANGEDCO.

4.8) Cheyyur Ultra Mega power project of 4000 MW.

This needs to be co-ordinated with M/s. PFC.

5. Other transmission system

Transmission system linked to Bhavani Kattalai Barrage – II project, BKB – III project which are said to be completed, needs to be energized after obtaining necessary safety clearances from the Chief Electrical Inspector, Government of Tamil Nadu.

6. **Back bone Net work**

Kayathar – Kariakudi – Pugalur – Singarapet – Sholinganallur (400 KV D/C line).

i) Karikudi 400 KV PGCIL SS – Common point near Kayathar : Work awarded to M/s. Kalpataru on 9-4-2012 with a completion period of 18 months.

ii) Karaikudi 400 KV PGCIL SS to Pugalur 400 KV SS : Work to be awarded by end July 2012.

iii) Pugalur – Pandiyankuppam : work awarded to M/s. L & T on 12-4 2012 with completion period of 18 months.

iv) Pandiyankuppam – Veeramanur : Work awarded to M/s. KEC on 11-6-2012 with completion period of 18 months.

v) Veeramanur – Ottiyambakkam : work awarded to M/s Gammon with a completion period of 18 months.

400 KV Sub stations

Kayathar 400 KV SS, Sholinganallur (Ottiyambakkam) 400 KV SS are in advance stage of planning. Greater Chennai Network is being planned to link important generating stations and load centres to provide reliable power supply to greater Chennai. This Network is also posed for external funding and is being pursued vigorously with all concerned agencies.

After the review, the Commission expressed the view that the projects which are nearing completion should be pursued vigorously so that they are

commissioned by the time the wind generation goes down and the transition is smooth.

The Commission thanked all the participants for sparing their valuable time and for providing valuable inputs.

Sd/-

Secretary
Tamil Nadu Electricity
Regulatory Commission