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भारत सरकार
Government of India
उत्तर क्षेत्रीय विद्युत समिति
Northern Regional Power Committee
18-ए, शहीद जीत सिंह मार्ग, कटवारिया सराय नई दिल्ली - 110016
18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi-110016

No. NRPC/SE(O)/capacitors/2010-11/431

Dated 14.06.2011

To,

- 1) Shri D. K. Jain, DGM, NRLDC Member
- 2) Shri R. K. Singh, Manager POWERGRID Member
- 3) Shri R. S. Dahiya, AEE SLDC/Panipat, HVPNL Member
- 4) Er. Chandra Mohan, Executive Engineer, UPPTCL Member
- 5) Shri Surendera K. Patwa, Executive Engineer, RVPNL Member
- 6) Shri Vardeep Singh Mander, ASE, PSTCL Member
- 7) Ms. Kiran Saini, DGM, DTL Member

Sub: Minutes of the meeting of the sub-group for monitoring of procurement, installation and commissioning of capacitors in Northern Region.

Sir,

A meeting of the sub group for monitoring of procurement, installation and commissioning of capacitors in Northern Region was held on 03-05-2011. The minutes of this meeting can be downloaded from NRPC website at <http://www.nrpc.gov.in>.

Yours faithfully,
-Sd-
(Ajay Talegaonkar)
SE (O) and Assistant Secretary

Summary of the discussion of Subgroup for monitoring of Procurement, Installation and Commissioning of capacitors in Northern Region held on 3rd May, 2011 at NRPC secretariat.

The list of Participants is at Annex-I.

Member Secretary, NRPC welcomed the members of the group. He stated that the meeting has been convened to look into the present scenario of progress of installation of capacitors in NR and accordingly plan for the future installation. He stated that new technology, like use of smart capacitors in the grid should be looked into. This would eliminate the human errors as well as it would automatically switch on/off as per grid condition. He reiterated that the installation of capacitors is a cost effective method to minimize MVAR charges. He emphasized upon the installation of capacitors near the load where there is high reactive power demand. He also informed the members that in 61st OCC meeting held on 25.04.2011, it had been decided that a sub-group would be constituted to recommend model specifications of capacitors, selection of vendors and to suggest innovative ideas for capacitive compensation in the grid. The group would consist of members from RRVPNL, PSTCL, NRLDC, POWERGRID and NRPC Secretariat.

He also expressed concern over the slow progress of installation of capacitors and requested state constituents to expedite the installation of capacitors before paddy season as the lack of reactive compensation in the grid creates low voltage problems at various nodes and also leads to restriction of drawl of active power.

Then he requested SE(O),NRPC to take up the agenda items:

- a) **Progress of installation of capacitors during the year 2010-11 by the Constituent states of NR:** SE (O), NRPC expressed concern over the poor progress of installation of capacitors during 2010-11. Out of 7532 MVAR requirement, only about 1200 MVAR had been installed till March, 2011. Furthermore, 3000 MVAR capacitors are defective in the Region . He stated that no information regarding progress of installation of capacitors is being received from J&K & UT Chandigarh. Representative of J&K stated that there is a need to sensitize the issue of installation of capacitors in their state. He

requested that to create awareness some training programme in the area of reactive compensation may be arranged at SLDC, Jammu. MS, NRPC stated that that training programs is regularly been held at various SLDCs of NR and recently (February, 2010) it was held at SLDC, Jammu.

SE(O), NRPC requested J&K to send data regularly to NRPC Secretariat in the formats available on the website of NRPC. Representative of J&K assured that data would be submitted regularly.

Representative of HPSEB stated that 81.11 MVAR capacitors had been installed in the HP system during the year 2010-11. The capacitors had been added by Private Industry.

Representatives of Delhi, Haryana, Punjab and Rajasthan confirmed that 26 MVAR, 301 MVAR, 406 MVAR, and 399 MVAR capacitors respectively had been installed in their states till March, 2011.

Representative of UP stated that 250 MVAR capacitor had been installed in the system till March, 2011. UP was requested to send the data in the prescribed format signed by SLDC Head.

- b) Proposal for reimbursement of capacitors for the year 2010-11(Submission of consolidated proposal to PSDF management committee):** SE(O), NRPC informed the members that as per the decision of NRPC, 50% of the capacitors commissioned during the year 2010-11 would be put up to management committee of PSDF. The date for commissioning of capacitors for the year 2010-11 had been extended up to 31st May, 2011. He stated that as per decision taken in 18th NRPC meeting held on 27th November, 2011, NRPC secretariat is consolidating the proposal of States to bring uniformity for further submission to PSDF Management Committee. He requested constituent states to submit the proposal as per Annex-II, so that NRPC secretariat could bring proposals in uniform manner and same could be put up to PSDF management committee for reimbursement.

- c) Action taken for procurement of capacitors for the year 2011-12:-**

All constituents stated were requested to take an early action for procurement of capacitors for the year 2011-12.

Representative of Punjab stated that Purchase Order for 1635 MVAR had been issued and date of delivery is expected by May, 2011.

Representative of HPSEB stated that 42 MVAR capacitors banks proposed by NRPC for 2011-12 are being identified and procurement action would be started accordingly.

Representative of J&K stated 210 MVAR capacitor Banks are under the process of procurement and would be installed in 2011-12.

Representative of RVPN stated that 50% of the requirement of capacitors as per NRPC would be installed by RVPN and rest 50% would be installed by Discoms of Rajasthan. She further added that RVPN has initiated the action for procurement.

(d) Submission of data for capacitor study for the year 2012-13:

Haryana, HP, Punjab, Delhi, Rajasthan, UP (Partly) have submitted the data for capacitor study for the year 2012-13. It was decided that a study group would be constituted to assess the requirement of Capacitors in NR for the year 2012-13. The study group would consist of members from RVPN, CPRI, NRLDC and NRPC Secretariat. SE (O), NRPC requested that these organizations to nominate an officer for above study group.

SE (O), NRPC thanked all members for a fruitful discussion.

Meeting ended with a vote of thanks to the chair

Annex-I

PARTICIPANT LIST
IN CHAIR: A. K. AGGARWAL, MS, NRPC

Name	Designation	Organization	Mobile No.	Email ID
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Annex-II

The proposal of schemes submitted for funding from PSDF shall have the following details:

- i) Statement of proposal
- ii) Scheme details including basis for selecting Substations, MVAR capacity, voltage level, fixed /switched capacitors.
- iii) Cost details and Justification
- iv) Brief description of NRPC decision
- v) Benefits of the project
- vi) Time frame for implementation
- vii) Project Implementation plan
- viii) Regulatory provision for funding:
 - (a) Central Electricity Regulatory Commission (Measures to relieve congestion in real Time operation) Regulations, 2009
 - (b) Power Exchange Congestion Amount management Extract from Central Electricity Regulatory Commission (Power Market) Regulations, 2010.
- ix) Source of Balance funding