



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत प्रणाली योजना एवं मूल्यांकन- प्रभाग
Power System Planning & Appraisal - I Division

No. 1/9/39/2017/PSP&A-I / 1462-1480

Date: 28-12-2017

-As per list enclosed-

Sub: 39th meeting of the Standing Committee on Power System Planning of Northern Region
-Corrigendum to Minutes of the meeting

विषय: उत्तरी क्षेत्र के विद्युत प्रणाली की योजना पर स्थायी समिति की 39वीं बैठक- बैठक कार्यवृत्त का शुद्धिपत्र

Sir/Madam,

The Minutes of **39th meeting** of the Standing Committee on Power System Planning of Northern Region were issued vide our letter No. 1/9/39/PSP&A-I/2017/783-802 dated 28th July, 2017.

Subsequently observations / comments have been received from PGCIL, HVPNL, PTCUL, PSTCL and RRVPNL. Corrigendum to the minutes is enclosed at **Annexure-I**. It is also available at CEA's website (www.cea.nic.in).

Encl: As above

Yours faithfully,


(अवधेश कुमार यादव /Awdhesh Kumar Yadav)
निदेशक/Director

1. Member, Secretary, NRPC, 18-A Shajeed Jeet Singh Sansanwal Marg, Katwaria Sarai, New Delhi - 110016 (Fax-011-26865206)	2. Director (W &P) UPPTCL, Shakti Bhawan Extn,3rd floor, 14, Ashok Marg, Lucknow - 226 001 (Fax:0522-2287822)	3. Director (Projects) PTCUL, Urja Bhawan Campus, Kanawali Road Dehradun-248001. Uttrakhand Fax-0135-276431
4. Director (Technical), Punjab State Transmission Corperation Ltd. (PSTCL) Head Office The Mall Patiala -147001 Fax-0175-2304017	5. Member (Power) BBMB, Sectot-19 B Madhya Marg, Chandigarh-1 60019 (Fax-01 72-2549857	6. Director (Operation) Delhi Transco Ltd. Shakti Sadan, Kotla Marg, New Delhi-110002 (Fax-01123234640)
7. Director (Technical) RRVPL, Vidut Bhawan, Jaipur-302005. Fax-:0141-2740794	8. Director (Technical) HVPNL Shakti Bhawan, Sector-6 Panchkula-134109 Fax-0172-256060640	9. Director (Technical) HPSEB Ltd. Vidut Bhawan, Shimla -171004 Fax-0177-2813554
10. Managing Director, HPPTCL, Barowalias, Khalini Shimla-171002 Fax-0177-2623415	11. Chief Engineer (Operation) Ministry of Power, UT Secretariat, Sector-9 D Chandigarh -161009 Fax-0172-2637880	12. Development Commissioner (Power), Power Department, Grid Substation Complex, Janipur, Jammu, Fax: 191-2534284
13. Chief Engineer (Transmission) NPCIL,9-S-30, Vikram Sarabhai Bhawan, Anushakti Nagar, Mumbai-400094 Fax-022-25993570	14. Director (T&RE) NHPC Office Complex, Sector-33,NHPC, Faridabad-121003 (Fax-0129-2256055)	15 Director (Projects) NTPC, NTPC Bhawan, Core 7, Scope Complex-6, Institutional Area, Lodhi Road. New Delhi (Fax-011-24361018)
16 Director (Technical) THDC Ltd. Pragatipuram, Bypass Road, Rishikesh-249201 Fax: 0135-2431519)	17 Director (Projects) POWERGRID Saudamini Plot no. 2, Sector - 29. Gurgaon-122 001 (Fax-0124-2571809)	18. CEO, POSOCO B-9, Qutab Institutional Area, Katwaria Saraj New Delhi – 110010 (Fax:2682747)
19. COO (CTU) POWERGRID, Saudamini, Plot no. 2, Sector -29, Gurgaon-122 001 (Fax-0124-2571809)		

Corrigendum to Minutes of 39th Meeting of Standing Committee on Power System Planning in Northern Region (SCPSPNR) held on 29-30th May, 2017 at NRPC, Katwaria Sarai, New Delhi

The minutes of 39th meeting of the Standing Committee on Power System Planning of Northern Region (SCPSPNR) were issued vide 1/9/38/2016/PSP&PA-1/783-802 dated 28th July, 2017. RRVPNL, PTCUL, POWERGRID, HVPNL and PSTCL had given their observations on the minutes. Based on the observations / comments received from RRVPNL, PTCUL, POWERGRID, HVPNL and PSTCL, following corrigendum is issued:

1. RRVPNL vide their letter RVPN/SE(P&P)/XEN-2(P&P)/AE-2/F/D825 dated 7.9.2017 has given observations on item no. 27 and 37 of the minutes

Corrigendum-1#I:

In the minutes of 39th meeting of SCPSPNR following has been mentioned at para 27.7:

- 27.7 RRVPNL stated these sub-stations. However, RRVPNL mentioned that they would take up implementation of 220 kV reactors at Akal and Suratgarh in first phase. The second reactor as proposed at Bikaner and Barmer would be considered in the second phase. They would apply for PSDF funding for installation of these reactors.

The para 27.7 is replaced as:

- 27.7 *RRVPNL stated these sub-stations. However, RRVPNL mentioned that they would take up implementation of one 220 kV reactor each at Akal, Suratgarh, Bikaner and Barmer (already approved & under process) in first phase. The second reactor as proposed at Bikaner and Suratgarh would be considered in the second phase. They would apply for PSDF funding for installation of these reactors.*

Corrigendum-1#II

In the minutes of 39th meeting of SCPSPNR following has been mentioned under para 37.3:

- 37.3 POWERGRID stated that they would try to complete the 400kV bays at Bhinmal (May 2018) and Sikar (October 2018) in the matching time frame on best effort basis.

The above para of the minutes is replaced as:

- 37.3 *POWERGRID stated that they would try to complete the 400kV bays at Bhinmal (May 2018) and Sikar (October 2017) in the matching time frame on best effort basis.*

2. PTCUL vide their letter no 1596/Dir.(Projects)/PTCUL/CEA dated 17-08-2017 had given observations regarding Item no: Para 24.7(ii) and 43.3(ii) of the minutes of 39th meeting of SCPSPNR:

Corrigendum-1#III

In the minutes of 39th meeting of SCPSPNR following has been mentioned under Para 24.7(ii) and 43.3(ii):

Srinagar (HEP)–Srinagar (PTCUL) 400kV D/c is neither required for affecting the connectivity of any project in Alaknanda basin nor for evacuation of power, hence should not be included under UITP.

Para no: 24.7(ii) and 43.3(ii) of the minute of the meeting of 39th SCPSPNR may be read as:

In view of delay in implementation of the envisaged projects in Alaknanda basin, Srinagar (HEP)–Srinagar (PTCUL) 400kV D/c line along with Srinagar 400/220kV Substation (part of UITP Scheme) at present is facilitating Uttarakhand to draw their share of free power from Vishnuprayag and Srinagar HEP.

3. POWERGRID vide their letter C/CTU/N/02 dated 31.8.2017 has given observations on the item no 26 &27 of the minutes of 39th Meeting of SCPSPNR held on 29-30th May,2017:

Corrigendum-1# IV

In the minutes of 39th meeting of SCPSPNR following has been mentioned under para 26.11(ii)

- 26.11 (ii) Combination of AIS and GIS (mainly GIS ducts) shall be used for implementation as per the site conditions. Further, in the bypass arrangement, wherever possible, provision may be kept to bring back the system to original configuration, in case of contingency or system requirement.

Para 26.11(ii) of the minutes is modified as give below:

- 26.11 (ii) *Combination of AIS and GIS (mainly GIS ducts) shall be used and shifting/reorientation works inside substations may be carried out to accommodate the splitting/bypass arrangements for implementation as per the site conditions. Further, in the bypass arrangement, where ever possible, provision may be kept to bring back the system to original configuration, in case of contingency or system requirement.*

Corrigendum-1# V

Following line is added at the end of para 27.14 b)

Since 220kV bus of 400/220kV Maharaniabagh S/s is operated and controlled by DTL, therefore 2x25 MVAR bus reactors at 220kV bus of Maharaniabagh S/s are to be installed by DTL.

4. HVPNL vide their letter no, Ch-10/HSS-152/Vol-19 dated 30.8.2017 has given the observations on Sl no. 2 of Item no:20 ‘Operational feedback’ and Item no. 26 ‘Study to limit high Short Circuit level of various Substations in NR (Phase 2):

Corrigendum-1#VI

In the minutes of 39th meeting of SCPSPNR following has been mentioned at s. no. 2 of item no. 20 ‘Operational feedback’:

S. No	Corridor	Season/ Antecedent Conditions	Constraints	Deliberations in the 39 th meeting of SCPSPNR
2	400kV Mahendragarh-Dhanonda D/C	All time	Remarks: High Loading was observed during to less/outage of generation at CLP Jhajjar (35% of time, generation was under outage & 30% of time	The line is a 5 km quad line, but the switchgears at both the ends are of 2000A, therefore, upgradation of switchgear should be taken up by HVPNL. HVPNL was requested to carry out the upgradion works at the earliest. HVPNL informed that the average load of about 700 MW (each ckt) is continuously running on the

			under generation.	less	said line. However, agreed for carrying out the equipment upgradation at both the sub-stations.
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The s. no. 2 of the item no. 20 of the minutes is modified as given below:

S. No	Corridor	Season/ Antecedent Conditions	Constraints	Deliberations in the 39 th meeting of SCPSNR
2	400kV Mahendragarh-Dhanonda D/C	All time	Remarks: High Loading was observed during to less/outage of generation at CLP Jhajjar (35% of time, generation was under outage & 30% of time under less generation.	The line is a 5 km quad line, but the switchgears at both the ends are of 2000A, therefore, upgradation of switchgear should be taken up by HVPNL. HVPNL was requested to carry out the upgradation works at the earliest. HVPNL informed that the average load of about 700 MW (each ckt) is continuously running on the said line. However, HVPNL agreed for carrying out the equipment upgradation at Dhanonda sub-station and the funding for the same may be got explored from PSDF.

Corrigendum-1#VII

In the minutes of 39th meeting of SCPSNR following has been mentioned at Para no. 26.11(b) (ii)

- 26.11 b. ii) 12ohm Series Line reactors in Mohindergarh–Dhanonda 400kV D/c line Ckt I & II at Dhanonda end (To be implemented by HVPNL / POWERGRID)

Para no. 26.11(b) (ii) of the minutes is modified as given below:

- 26.11 b. (ii) 12ohm Series Line reactors in Mohindergarh–Dhanonda 400kV D/c line Ckt I & II at Mohindergarh end (To be implemented under ISTS)

5. PSTCL vide their letter dated 17.11.2017 has given the observation on item no 27.10 of the minutes of 39th meeting that the additional 125 MVAR bus reactor is not required at 400kV Nakodar in view of existing 80MVAR bus reactor at this substation and only 1no. of 220kV 25 MVAR bus reactor persists for this substation.

Corrigendum-1#VIII

In the table given at item no 27.14(b) of the minutes of 39th meeting of SCPSNR, installation of 125 MVAR bus reactor at 400kV Nakodar (Punjab) mentioned at s. no 8 stands deleted.