



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

उत्तर क्षेत्रीय विद्युत समिति

Northern Regional Power Committee

सं. उक्षेविस/ वाणिज्यिक/ 209/ आर पी सी (50वीं)/2022/985-1032

दिनांक : 24.01.2022

सेवा में / To,

उ.क्षे.वि.स. के सभी सदस्य (संलग्न सूचीनुसार)

Members of NRPC (As per List)

विषय: उत्तर क्षेत्रीय विद्युत समिति की 50^{वीं} बैठक की अतिरिक्त कार्यसूची-2.0 ।

Subject: 50th meeting of Northern Regional Power Committee –Additional Agenda-2.0

महोदय / महोदया,

उत्तर क्षेत्रीय विद्युत समिति की 50^{वीं} बैठक दिनांक **28 जनवरी, 2022** को **1100 बजे विडियो कोफ्रेंसिंग के माध्यम से** आयोजित की जाएगी। बैठक की अतिरिक्त कार्यसूची-2.0 संलग्न है।

The 50th meeting of Northern Regional Power Committee (NRPC) will be held at **1100 Hrs on 28th January, 2022** via video conferencing. Additional agenda-2.0 for the meeting is enclosed herewith.

संलग्नक: यथोपरि

भवदीय

Yours faithfully,

(नरेश भंडारी)

(Naresh Bhandari)

सदस्य सचिव

Member Secretary

List of NRPC Members

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39. CEO, Jhajar Power Ltd., Haryana, (Fax-01251-270105)
40. Representative of Lanco Anpara Power Ltd., (Fax-124-4741024)
41. Station Director, Rosa Power Supply Company Ltd., (Fax-05842-300003)
42. Director and head regulatory and POWER Sale, JSW Energy Ltd., New Delhi (Fax- 48178740)
43. COO, Adani Power Rajasthan Ltd., Ahmedabad-380006 (Fax No- 07925557176)
44. COO, Talwandi Sabo Power Ltd. Distt: Mansa, Punjab-151302(Fax: 01659248083)
45. MD, Lalitpur Power Generation Company Ltd., Noida-201301(Fax: 01204045100/555, 2543939/40)
46. Director (Commercial & Operations), PTC India Ltd., New Delhi (Fax- 01141659144,41659145)
47. CEO, Nabha Power Limited, (Fax: 01762277251 / 01724646802)
48. Representative of Prayagraj Power Generation Co. Ltd.
49. Representative of Greenko Budhil Hydro Power Private Limited (Member IPP<1000 MW)
50. Representative of TPDDL (Delhi Private Discom)

Special Invitee:

- i. Member Secretary, WRPC, Mumbai-400 093.
- ii. Member Secretary, SRPC, Bangalore-560 009
- iii. Member Secretary, ERPC, Kolkata-700 033.
- iv. Member Secretary, NERPC, Shillong-793 003.

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उत्तरी क्षेत्रीय वद्युत समिति की 50^{वीं} बैठक

50th MEETING OF NORTHERN REGIONAL POWER COMMITTEE

Time & Date of NRPC meeting: 11.00 Hrs. on 28.01.2022

Venue: Video Conferencing

ADDITIONAL AGENDA-2.0

1. Utilisation of remaining 04 Nos. 220 kV Bays at 400/220 kV Substation Sherpur (Dehradun) (PGCIL) and associated issues (agenda by PTCUL)

1.1 The matter of implementation of the scheme for construction of 400/220 KV S/s by PGCIL at Sherpur, Dehradun was discussed with all stakeholders in the 23rd Standing Committee Meeting on Power System Planning of Northern Region held on dated 16.02.2008 (MoM is attached as **Annexure-P**). With regard to power system strengthening scheme in northern region, standard norms were adopted regarding the number of bays to be erected for each substation of different capacities which were as follows:

- For 2X315 MVA Transformer- 06 nos. of line bays.
- For 3rd 315 MVA transformer- 2 nos. line bays.
- For 500 MVA transformer- 4 nos. line bays.

1.2 During the finalization of above scheme, there was no requirement of 220 kV bays from PTCUL for then proposed 400/220 kV Substation Sherpur (Dehradun) under Northern Region Transmission System Strengthening Scheme. Considering the above, PGCIL had taken up the construction of 400/220 kV Substation Sherpur (Dehradun).

1.3 400/220 kV Substation Sherpur (Dehradun) was commissioned on January, 2017 alongwith 06 Nos. 220 kV Bays with schedule commissioning of November, 2011.

1.4 PTCUL commissioned 220 kV D/C Jhajra-Sherpur (Dehradun) line using 02 Nos. 220 kV Bays at 400/220 kV Substation Sherpur (Dehradun) in January, 2017.

1.5 After commissioning of 400/220 kV Substation Sherpur (Dehradun), PGCIL vide letter No. NR1/DDN/PTCUL/17 dated 20-03-2017 requested PTCUL to utilize remaining 04 Nos. of 220 kV Bays at 400/220 kV S/s Sherpur (Dehradun).

1.6 On request of PGCIL, PTCUL internally discussed and planned a 220 kV S/s at Selaqui or nearby area. However due to severe Right of ways issues and corridor constraint between Selaqui and 400/220 kV S/s Sherpur (Dehradun) PGCIL, the plan for construction of 220 kV D/C line from 400 kV S/s Sherpur

to proposed 220 kV S/s Selaqui substation cannot be implemented. Thus, no firm commitment with timelines was given by PTCUL to PGCIL for utilization of these 02 Nos. 220 kV Bays.

- 1.7 Utilization of remaining 02 Nos. 220 kV Bays was planned for 220 kV D/C Mori-Dehradun (Sherpur) line part of UITP Scheme for evacuation of power for proposed generator of Yamuna Basin. As per minutes of meeting of 3rd NRPCTP held on 19.02.2021 at agenda item 4, it was agreed in the meeting:

“(ii) Implementation of 220 kV D/C Mori-Dehradun line may be considered in future under central sector with materialization of projects other than Naitwar Mori in Yamuna basin.”

Considering this, utilization of 02 Nos. 220 kV Bays for 220 kV D/C Mori-Dehradun (PGCIL) line is to be taken up under Central Sector.

- 1.8 Despite no commitment/fault of PTCUL regarding utilization of remaining 04 Nos. 220 Bays, PGCIL impleaded PTCUL in Petition No. 104/TT/2020 which was filed by PGCIL before the Hon’ble CERC for determination of tariff and approval of Date of Commercial Operation (DOCO) of these assets covered under Northern Region System Strengthening Scheme-XVIII alleging that PTCUL has not commissioned downstream network for utilizing these bays.
- 1.9 Hon’ble CERC vide its order dated 31.03.2021 in Petition no. 104/TT/2020 determined the tariff and directed that the transmission charges in respect of Asset-III shall be borne by PTCUL from its COD on 4.2.2017 to the COD of the downstream assets under its scope. This order of the Hon’ble Commission has put a huge financial burden on PTCUL irrespective of fact that PTCUL never gave a commitment for construction of downstream network for utilizing these bays as stated above.
- 1.10 Considering above that on record PTCUL has not given any commitment at any forum regarding timelines for utilization of above bays. So, it is proposed that the transmission charges of remaining 04 Nos. 220 kV Bays at 400/220 kV Substation Sherpur (Dehradun) may not be imposed on STU i.e., PTCUL.

Members may kindly deliberate and approve accordingly.

2. Installation of reactive power solution on 144 No. 33/11 kV Sub-Stations (233 No. Power Transformers) in Uttarakhand by UPCL (agenda by UPCL)

- 2.1 Due to hilly terrain of the state, demographics and typical rural industrial load profile several parts of the state face issue of low voltage, poor power factor during some months. The technical losses of the state (without considering HT industries) are at 21%, which is a great loss to the state. This issue can be addressed by installation of reactive power solution for real time power factor improvement, better voltage profile, less technical losses and low transformer

loading. This will also add to the security of the Grid. The state network would be able to cater more consumers on existing infrastructure.

2.2 UPCL is proposing to install Automatic Switched Capacitor Banks at identified 144 no. 33/11 KV substations (233 No. Power Transformers) for reactive power solution and energy conservation. The cost of the project is estimated to be Rs. 146 Crores (approx.). It is proposed that PSDF funding may be allotted for the above project.

Members may kindly deliberate and approve accordingly.

3. Construction of 220/132 kV, 2x100 MVA Substation at Paonta Sahib by D/C LILO of 220 kV Khodri-Mazri Line (agenda by HPPTCL)

3.1 In 3rd Meeting of the NRPC (TP) held on 19th February 2021, HPPTCL had proposed the construction of 220/132 kV, 2x100 MVA Substation at Paonta Sahib by D/C LILO of 220 kV Khodri (Uttarakhand)-Mazri(HP) Line. It was discussed in the meeting that since the 220kV Khodri-Mazri Transmission line is an ISTS line between HP and Uttarakhand, their consent is also required. The CEA had requested HPPTCL to discuss the matter bilaterally with PTCUL and accordingly raise the proposal in the next NRPC(TP).

3.2 In this regard it is informed that the proposal of Construction of 220/ 132 kV, 2x100 MVA Substation at Paonta Sahib by D/C LILO of 220 kV Khodri-Mazri Line was taken up with Power Transmission Corporation of Uttarakhand (PTCUL) and after detailed discussions and deliberations, the PTCUL has conveyed their consent to the proposal subject to restriction in drawl from Uttarakhand at 200 MW and implementation of SPS for the same. (Copy of the letter of consent from PTCUL is enclosed as **Annexure-Q**).

3.3 In view of the above It is requested that the proposal of HPPTCL for Construction of 220/132 kV, 2x100 MVA Substation at Paonta Sahib by D/C LILO of 220 kV Khodri-Mazri Line may please be considered & approved by the Committee.

Members may kindly deliberate and approve accordingly.

Standing Committee on Power System Planning in Northern Region

Summary record of discussions in the 23rd meeting of the Standing Committee Meeting on Power System Planning of Northern Region held on 16th February 2008 at Dehradun**1. Confirmation of minutes of 22nd meeting**

Minutes of 22nd meeting of the Standing Committee held on 12.3.2007 at Udaipur issued vide letter no. 1/9/2004-SP&PA/135-150 dated 13.04.07 and subsequent corrigendum issued vide letter no. 1/9/2007-SP&PA/540-555 dated 15.06.07 were confirmed.

2. Review of progress on Earlier Agreed Transmission schemes

Status of progress on earlier agreed schemes is enclosed at Annex-1.

RVPNL requested that works for the 220 kV bays at Bhiwadi and 400/220 kV transformer provision at Kota may be expedited.

3. Evacuation of power from Jhajjar TPS (1500 MW)

3.1 Jhajjar TPS (3x500 MW) would be located near Jhajjar, Haryana and would be developed by M/s Aravalli Power Corporation Limited and the beneficiaries of the power from Jhajjar are Delhi and Haryana in the ratio of 50:50.

Members noted the following evacuation systems for Jhajjar TPS.

To be constructed by generation developer for Delhi

- Jhajjar - Mundka 400 kV D/C line (the line would feed 400/220 kV transformers and further 220 kV system radially from Mundka not connecting to Delhi ring)

To be constructed by HVPNL for Haryana

- (i) Jhajjar - Daulatabad 400 kV D/C line
- (ii) Daulatabad 400 kV S/S
- (iii) Daulatabad - Gurgaon (PGCIL sector-72) 400 kV D/C

3.2 Connectivity of Daulatabad with Gurgaon (PGCIL sector-72) s/s was concurred with provision that 400 kV bays at Gurgaon PGCIL would be provided by PGCIL at the cost of HVPNL.

3.3 PGCIL suggested that Agra-Samaypur and Samaypur-Gurgaon 400kV S/C lines could be delinked from Samaypur and made as direct Agra-Gurgaon line as this would facilitate to substantially reduce short circuit level at several sub station around Delhi. The proposal was agreed to.

4. Transmission system associated with Dadri II TPS (2x490 MW)

4.1 NTPC was putting up extension at Dadri Thermal by adding 2 more unit of 490 MW each with benefit of power to Delhi and U.P. in the ratio of 90:10. The evacuation arrangement to be provided by NTPC for Delhi was agreed as following:-

- (i) 400 kV Dadri - Bamnoli quad D/C line routed via Maidangarhi where DTL had proposed a 400kV s/s in the next phase. The 400kV line from Dadri to Bamnoli would be on multicircuit tower sharing the row of existing Badarpur-Mehrauli-Bamnoli 220kV line wherever necessary.
- (ii) 400 kV bus at Dadri to be split into two portions in order to contain the short circuit level and the transmission lines emanating from Dadri switchyard to be rearranged as follows :-

On one section:

- Thermal units of stage-I
- Circuits to Panipat, Muradnagar and Bamnoli

On other section

- Gas Plant units and thermal units of stage-II
- HVDC interconnectors
- Circuits to Mandola and Malerkotla
- Circuits to Samaypur/Maharanibagh/Greater Noida

- 4.2 For evacuation of UP's share of 10% from Dadri-II, UP had proposed for providing two numbers of 220 kV feeder from Dadri 220 kV switchyard to their 220kV s/s at Dadri. UP also intimated their plan to interconnect their Dadri 220kV s/s with Muradnagar 400/220kV s/s. It was noted that if this proposal was implemented, there was a possibility of parallel 400 kV and 220 kV circuits in operation leading to increased short circuit level which was already critical in the area. An alternative proposal of providing 220 kV line to Dadri 220 kV s/s of UPPCL from Hapur where a 400/220kV regional s/s to be established by LILO of Bareilly - Meerut 400 kV D/C line was also discussed. Technically, this would be a better option from the considerations of short circuit level as well as from operational reliability. However, in this, the supply to UP would be through displacement and if transmission charges and losses for displacement wheeling were levied of UP, this would become an unduly expansive option for UP. In view of these considerations, it was agreed by all that delivery of its share to U.P from Dadri-II would be made available at Hapur by displacement without any wheeling charges or wheeling losses or any other tariff implications or transmission loss implications as a special case.
- 4.3 UPPCL stated that they had a plan for 765 kV s/s at Hapur which would receive power from Anpara C, D & E. Member (PS), CEA stated that transmission planning of States network at 400kV and above could not be done in isolation. He asked UPPCL to furnish their proposal to CEA for necessary examination and planning an integrated system.

5. Transmission system associated with Bawana CCGT (1500 MW)

- 5.1 Bawana CCGT (1500 MW) in North West of Delhi at Bawana being developed by IPGCL would provide benefit to Delhi. The generation at Bawana as per IPGCL was expected in 2009 before the ensuing Commonwealth Games in 2010. While evolving the evacuation system from Bawana CCGT, considering the issue of fault level condition existing in Delhi network, it was decided that power from Bawana would be fed to Delhi loads radially with the following evacuation system to be developed by generation developer/DTL.

- (i) Stepping up the generation of Bawana CCGT at 400 kV

- (ii) Splitting 400kV as well as 220kV bus at Bawana 400kV s/s of DTL to provide a separate 400kV and 220kV bus not connected to Delhi 400kV ring with the split bus side to have 2 nos of 400/220 kV, 315 MVA transformer and 220kV feeders.
- (iii) Connecting Bawana CCGT to split bus side of Bawana 400kV s/s through bus extension.
- (iv) Shifting 2x315 MVA 400/220kV transformer and 220kV outgoing feeders on the split bus side of Bawana 400kV s/s.
- (v) Creation of 2 nos. of new 400/220 kV, 2x500 MVA S/S -one in the North Delhi and one near Loni Road.
- (vi) Bawana CCGT -North Delhi (new) 400kV s/s -Loni Road (new) 400kV s/s 400 kV D/C quad line
- (vii) Additional 220 kV feeder bus from 220 kV bus to load centres at Peeragarhi and arounds to Shalimarbagh etc. where Discomes would develop 66kV , 33kV feeder.

5.2 For connectivity of the Bawana CCGT with the rest of the grid, basically to provide support to the power station under contingency and at the same time addressing the issue of short circuit level, it was proposed that the 400 kV D/C line from Bawana to Bahadurgarh/Hissar could be de-linked from Delhi 400kV ring and shifted to the split bus side of Bawana 400kV s/s connecting to Bawana CCGT switchyard 400 kV bus.

The proposal of shifting of Bawana-Bahadurgarh/Hissar 400kV line was discussed. PGCIL stated that in the present system, this provided an alternate path for flow of power in the event of disturbance and separation of East-West corridor of Northern Region. In order to retain the alternate path, it was also decided that the existing link between Bawana-Bahadurgarh/Hissar would be shifted only after the 400 kV Abdullapur-Sonepat- Bahadurgarh D/C line was commissioned.

Considering the urgency of the system associated with Bawana CCGT, it was also decided that construction of 400 kV Abdullapur-Sonepat- Bahadurgarh D/C line would be expedited and though Abdullapur-Sonepat section of this link was

evolved as part ATS for Karcham Wangtoo and only Sonapat-Bahadurgarh section evolved as system strengthening, as this had become an urgent system strengthening, transmission charges for both lines viz. Abdullapur-Sonapat as well as Sonapat- Bahadurgarh would be payable as soon as commissioned not linked to commissioning schedule of Karcham Wangtoo HEP or any other generation project.

6.0 Region System Strengthening Scheme – New Proposal

6.1 It was also discussed and agreed that in view of increasing demand density the norm of providing 220 kV bays with 400/220 kV transformers would be revised as following:-

- **For 2x315 MVA** - **6 nos. of line bays**
- **For 3rd 315 MVA transformer-** **2 line bays**
- **For 500 MVA transformer** - **4 nos. of line bays**

6.2 It was discussed and agreed that for meeting the increasing demands and increasing quantum of power supply required to be delivered from regional grid to state grids, there was need for providing new regional grid 400kV substations at Manesar in Haryana, Kotputli and Neemrana in Rajasthan, Hapur and Bagpat in U.P, Hamirpur in H.P, Dehradun in Utrakhand (this would also facilitate power evacuation from Kotlibhel HEP) , New Wanpoh and one s/s for Jammu in J&K and S/S capacity augmentation at Patiala and Malerkotla in Punjab. Of these, s/s at Manesar and Bagpat would be GIS and s/s at Neemrana, Hapur, Hamirpur, Dehradun and other places could be GIS or open yard depending on availability of space.

6.3 HVPNL informed that they were constructing 400kV D/C line from Hissar TPS to Sirsa along with 400kV s/s at Sirsa for evacuation of power from their Hissar TPS and connectivity of this with Fatehabad 400/220kV s/s of PGCIL was required. For this 2 nos of 400kV bays at Fatehabad would be required so that LILO of one circuit of the Hissa-Sirsa 400kV D/C line at Fatehabad could be done. They also wanted to have 2 nos of 220kV bay at Fatehabad for feeding to their 220kV Chomar s/s. HVPNL further stated that for this connectivity, application for Long Term Open Access was not required as Haryana had

already planned adequate intra-state evacuation system for Hissar TPS. The proposal was discussed and agreed with provision that 2 nos of 400 kV bays at Fatehabad PGCIL would be provided by PGCIL at the cost of HVPNL. It was further agreed that the 2 nos of additional 220kV bays would also be provided and these would be part of regional pooled system in line with the revised norms for provision of 220kV bays as agreed.

- 6.4 HVPNL further stated that they had planned a new 400kV s/s at Nawada for meeting growing demand of Faridabad. They proposed that LILO of the Samaypur-G.Noida circuit could be provided to create their new 400kV s/s at Faridabad (Nawada). This was agreed.
- 6.5 HVPNL further proposed to have another 400kV s/s in Gurgaon at Sector-20 getting feed through LILO of Samaypur-Bamnoli 400kV D/C line of DTL. It was decided to discuss it separately in a meeting between CEA,
- 6.6 HVPNL further stated that the 400 kV substation at Mohindergarh was being proposed as a regional substation. However, they had their own plan to take up Mohindergarh 400kV s/s under state sector and instead of at Mahindergarh, regional s/s at an alternate site in Bhiwani area could be considered. It was decided to examine this proposal and take up in the next meeting.
- 6.7 It was also discussed and agreed to provide a 400 kV D/C line from Bhiwadi to Moga via Rajasthan to provide a 400kV corridor directly connecting Rajasthan system to Punjab so as to avoid the fog affected areas where transmission lines trip during winter foggy conditions causing grid disturbances. Accordingly, the requirement of providing following new 400 kV substations along with 400kV feeding lines or LILOs to be developed as regional system strengthening for meeting increasing demands in the respective area was agreed as per following schemes:

NRSS-XIII

- (1) Gurgaon (PG sec-72)-Manesar 400kV quad D/C
- (2) Manesar 400kV GIS s/s 2 x 500 MVA 400/220kV
- (3) Delinking Agra-Samaypur and Samaypur-Gurgaon (PG sec-72) 400kV lines from Samaypur and making a direct line from Agra to Gurgaon (PG sec-72) 400kV S/C circuit.

- (4) LILO of 400kV Samaypur-G.Noida circuit to connect to the proposed new 400kV s/s of HVPNL at Faridabad (Nawada)
- (5) 2 nos of 220kV bays at Fatehabad 400/220kV s/s.

NRSS-XIV

- (1-) LILO of Nallagarh-Kaithal 400kV circuit (second ckt of Nalagarh-Hissar 400kV D/C line) at Patiala (first ckt is already LILOed)
- (2) Additional 500MVA 400/220kV ICT at Patiala so as to increase transformation capacity from 2x315MVA to 2x315 + 1x500 MVA
- (3) Additional 500MVA 400/220kV at Malerkolta so as to increase transformation capacity from 2x315MVA to 2x315 + 1x500 MVA

NRSS-XV

- (1) Manesar-Neemrana 400kV D/C
- (2) Bhiwadi-Neemrana 400kV D/C
- (3) Neemrana 400kV 2x315 MVA 400/220kV
- (4) LILO of Bhiwadi – Jaipur 400kV S/C circuit to create new 400kV s/s at Kotputli
- (5) Kotputli 400kV 2x315 MVA 400/220kV

NRSS-XVI

- (1) LILO of both circuits of Kishenpur-Wagoora 400kV D/C to create new 400kV s/s at New Wanpoh
- (2) Kishenpur-New Wanpoh 400kV D/C
- (3) New Wanpoh 400kV 2x315 MVA 400/220kV

NRSS-XVII

- (1) Neemrana-Sikar 400kV D/C

NRSS-XVIII

- (1) Dehradun - Bagpat 400kV quad D/C
- (2) Dehradun 400kV 2x315 MVA 400/220kV

NRSS-XIX

- (1) LILO of both ckts of the Meerut-Kaithal 400 kV D/C line to create new 400kV s/s at Bagpat
- (2) Bagpat 400kV GIS s/s with 2 x 500 MVA 400/220kV
- (3) LILO of both ckts of Bareilly – Meerut 400 kV D/C line to create new 400kV s/s at Hapur
- (4) Hapur 400kV 2x500 MVA 400/220kV

NRSS-XX

- (1) LILO of one circuit of Parbati PS-Amritsar 400kV D/C to create new 400kV s/s at Hamirpur
- (2) Hamirpur 400kV s/s with 2x315 MVA 400/220kV

All the above schemes were agreed.

6.3 It was further discussed and decided that requirement and connectivity arrangement for the following additional new 400kV s/s would be further studied and discussed in the next meeting:

- Jaipur (South)
- Faidabad (Mandkola)
- Muktsar or near by Moga so as to have alternate s/s near Moga.
- Kishenpur-Ramban 400kV D/C and Ramban 400/220kV s/s

7.0 **Second 400 kV line from Dulhasti HEP(3x130 MW)**

7.1 Members noted that for providing reliable evacuation system for Dulhasti HEP, CEA had recommended two numbers 400kV S/C lines between Delhasti HEP and Kishenpur. However, while considering the scheme for PIB, the PIB deferred the 2nd ckt. of 400 kV S/C Dulhasti – Kishenpur line on account of cost implication stipulating that situation may be reviewed depending upon the progress made by various generation projects in this area. Accordingly, Dulhasti HEP (3x130 MW) was operationalised with only one 400kV S/C line for power evacuation. NHPC, sighting evacuation bottleneck due to only one outlet circuit, had requested for review and revival of the proposal for the second line.

7.2 The proposal of NHPC was discussed. Member(PS) suggested that with development of Ramban s/s, the second line from Dulhasti could go to Ramban instead of Kishenpur. It was agreed that PGCIL would revert back on this after preliminary survey and the proposal would be firmed up there after.

8. Evacuation system from Kotlibhel-1A(195 MW), Kotlibhel-1B (320 MW) and Kotlibhel-2 (530 MW) HEPs in Uttarakhand.

8.1 Evacuation system for Kotlibhel HEP St-1A, St.-1-B and St.-2 was discussed. Evacuation from these generation projects was envisaged at 220kV and it was proposed to take the power to Roorkee either directly at 220kV or through 220/400kV step-up at a suitable location near Devprayag and thereafter at 400kV. As per the conditions for allocation of the generation project, the transmission system from the generating stations upto the regional grid pooling s/s was to be developed by PTCUL.

8.2 PGCIL stated that obtaining forest clearance through Rajaji National Park for taking the line to Roorkee may not be possible. PTCUL also stated the same and suggested that the power could be evacuated at 220kV to their proposed 220kV Dehradun s/s from where it could be evacuated through the proposed Dehradun 400/220 kV s/s.

8.3 It was noted that evacuating the power at 220kV would be better feasible if it was taken to Dehradun as compared to taking the power to Roorkee as the distance would reduce by about 40kms – Roorkee being about 110kms from Devprayag as compared 70kms between Devprayag and Dehradun.

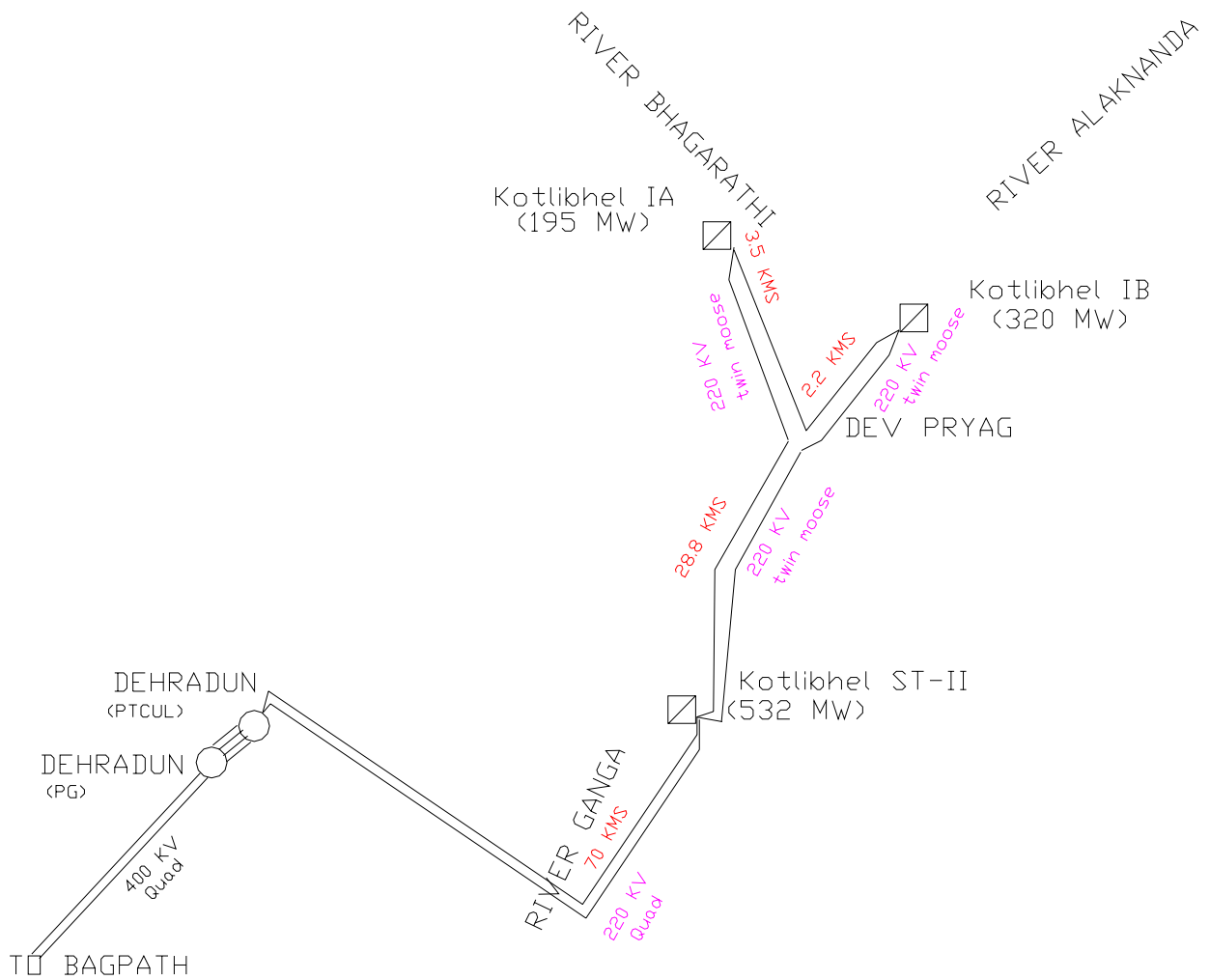
8.4 After discussion, the following evacuation system upto Dehradun 400kV regional grid s/s was agreed :

- Kotli Bhel IA – Dehradun (PTCUL) 220 kV D/C twin/quard line

Twin up to Kotli Bhel II and quad between Kotli Bhel II –
Dehradun (PTCUL)

- LILO of one circuit of Kotli Bhel IA – Dehradun (PTCUL) 220 kV D/C line at Kotli Bhel IB
- LILO of both circuit at Kotli Bhel II
- Connectivity between 220kV Dehradun s/s of PTCUL and 400/220kV Dehradun s/s of regional grid. This would be either through extended bus or through 220kV quad D/C line depending on location of the two s/s being contiguous or otherwise.
- Dehradun-Abdullapur 400 kV D/C line as regional scheme for Kotlibhel HEP.

For meeting the contingency outage of one circuit , the 220 kV twin/Quad lines have to be with higher specification viz. Gap or Lapwig or AL82 and the line designed with higher temperature specification.



The above system upto regional grid s/s at Dehradun would be constructed by PTCUL and Tariff recovered by PTCUL from generation developer who would recover it through the tariff of their power and transmission charges for use of regional grid system beyond injection point into regional grid Dehradun would be levyable as per methodology of pooled regional transmission tariff. It was agreed that Dehradun - Abdullapur 400 kV D/C line would also be taken up as a regional scheme for Kotlibhel HEP.

The Members concurred to the above.

9. Evacuation of power from Chamera-III (230 MW) and Budhil (70MW)

- 9.1 Creation of 400/220kV pooling station at Chamera-II had been finalized to provide 220kV injection point for Chamera-III, Budhil and other HEPs in the Ravi basin and considering the severe R-O-W constrain in the hilly region, an integrated evacuation system had been evolved.
- 9.2 NHPC informed commissioning schedule of Chamera-III as August 2010.
- 9.3 M/s Lanco, the Generation developer of Budhil HEP, informed that Budhil HEP was scheduled to be commissioned by December 2009, but they had planned to reschedule it to March 2010.
- 9.4 PGCIL stated that they had scheduled commissioning of pooling station near Chamera-II by December 2009 based on earlier commitment of M/s Lanco/PTC to pay its full transmission charges for the period of its advancement ahead of Chamera-III after which it would become part of regional pooled system. Accordingly, M/s Lanco/PTC had to pay transmission charges for advanced creation of pooling station near Chamera-II by December 2009 as was already agreed that is its full transmission charges up to commissioning of Chamera-III after which it would become part of regional system.
- 9.5 HPSEB stated that it may not be feasible to construct of 3 nos of 220kV D/C lines between the pooling station near Chamera-II and the future proposed pooling station upstream of Chamera-III, and therefore only 2 nos of 220kV D/C lines with twin MOOSE conductors should be adopted.
- 9.6 PGCIL stated that they had carried out preliminary survey and observed that three lines could be possible, though the cost of the third line could be higher.

PGCIL further stated that they did not have readily available design for 220 kV D/C line with single moose conductor but had available design for twin moose conductor for 400 kV D/C line and if the same was adapted for the 220 kV D/C line, completion of the line could be done in shorter time.

POWERGRID further stated that at pooling station near Chamera-II, provision for 4 nos. of 220 kV line bays had been made. These bays were to be utilized for evacuation of power from future hydro projects in that river basin. Looking into the progress of the other hydro projects, provision in the first phase should be limited for the bays required with Chamera-III/Bhdhil HEPs and future bays could be provided as per the requirement. Accordingly, necessary changes may be made in the scope of works in the scheme for pooling station near Chamera-II.

9.7 HVPNL stated that as Haryana was the main beneficiary of power from Budhil HEP and had to pay all the associated transmission charges, the system should be evolved keeping in view the cost implication. If higher capacity was provided to take care of future projects allocated by HP to IPPs by taking upfront charges, HP should also share the transmission charges. CEA suggested that they should take up this issue with the tariff regulator.

9.8 HVPLN further stated that corresponding to Budhil time frame, instead of 2 nos of 400/220kV ICTs at pooling station near Chamera-II only one ICT may be installed and the second ICT may be installed matching with Chamera-III. POWERGRID stated that award for both the ICTs had already been placed however they would look into the matter.

9.9 The proposal, its implementation and transmission charge sharing issues were discussed in detail and after discussions considering the view points expressed by the participants, the following was agreed:

(1) Evacuation system for Chamera-III and Budhil HEPs would be implemented through following schemes:

A- Establishment of 400/220kV GIS pooling station near Chamera-II
Scope of works advanced ahead of Chamera-III for commissioning matching with Budhil time frame:

(i) Chamera-II – Chamera-II Pooling Station 400kV S/C line

- (ii) 400/220kV GIS pooling station near Chamera-II with
 - Provision of 1 number of 400kV line bay for the 400kV S/C line from Chamera-II
 - 2x315MVA 400/220kV ICTs
 - 2 numbers of 220kV line bays for the 220kV D/C line from Chamera-III/Budhil/PS upstream of Chamera-III
- (iii) Extension of Chamera-II HEP S/yard for providing 1 number of 400kV line bay for the 400kV S/C line from pooling station near Chamera-II.

B- Extension of 400/220kV GIS pooling station near Chamera-II
Scope of works matching with Chamera-III:

- (i) 2 numbers of 400kV line bays for the 400kV D/C line from pooling station near Chamera-II to Jullandhar
- (ii) 80 MVAR bus reactor with bus reactor bay

C- Evacuation system for Chamera-III:

- (i) 220kV D/C line from Chamera-III to Pooling Station near Chamera-II. The line would be with twin moose conductor adopting tower design of 400kV D/C line.
- (ii) Pooling Station near Chamera-II – Jullandhar 400kV D/C line

D- Interconnecting line for power evacuation from Budhil HEP to be implemented by Budhil developer

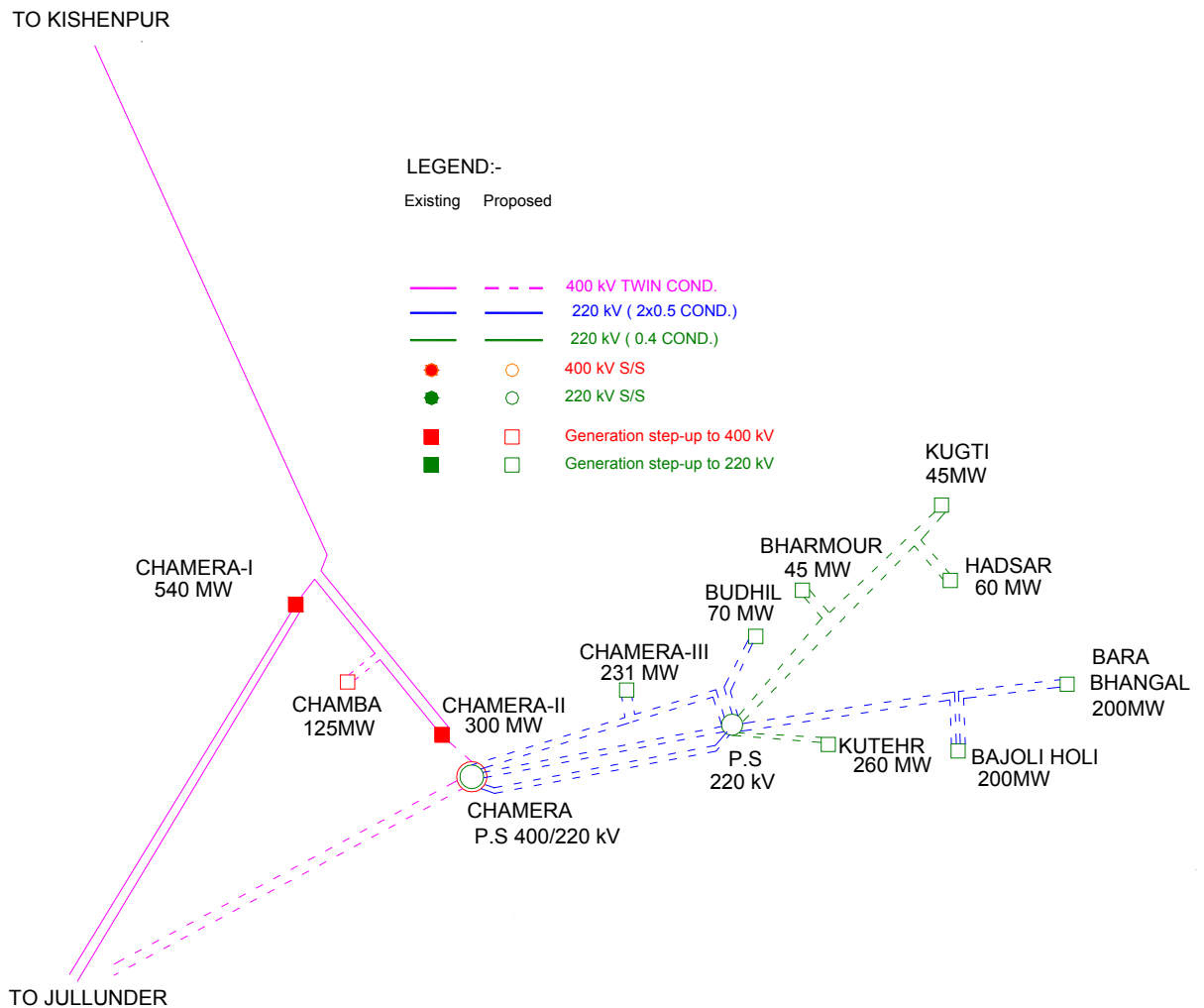
- (i) 220kV D/C line from Budhil to Chamera-III to be LILOed into one circuit of 220kV D/C line between Chamera-III and pooling station near Chamera-II. The line from Budhil to Chamera-III would be with twin moose conductor.

- (2) PGCIL had already firmed-up implementation of the schemes at A and B after obtaining investment approval. The approved scheme also included provision for 220kV future bays as per the earlier scheme. PGCIL would modify their scope of works to delete the additional 220kV bays and these would be subsequently tied-up with future projects.
- (3) As per their already signed agreement between PGCIL and M/s Lanco/PTC, full transmission charges for the scheme-A would be payable by M/s Lanco/PTC till commissioning of Chamera-III scheduled to be commissioned by August 2010. In this context, PGCIL would look into possibility of deferring one ICT to Chamera-III time frame. After commissioning of Chamera-III HEP, this system would become part of regional pooled transmission system and transmission charges recovered through pooled recovery method.
- (4) PGCIL would take-up Scheme-C matching with Chamera-III HEP with target of commissioning of August 2010 as confirmed by NHPC.
- (5) If Budhil developer desires advancement and PGCIL finds that to be feasible, Chamera-III – Chamera-III PS 220kV D/C line (that is works covered under item (i) of Scheme-C) could be advanced with full transmission charges for advanced period payable by Budhil developer (or its trader) and after the commissioning of Chamera-III, it would become part of regional pooled transmission system and transmission charges recovered through pooled recovery method. If Budhil developer desires for the above arrangement, it may coordinate with PGCIL for suitable arrangement for optimizing the execution of the 220kV line.

- (6) Scheme-D would be taken-up by Budhil developer matching with their generation project.

- (7) In phased development, pooling station upstream of Chamera-III would be constructed by PGCIL as a regional pooling station with transmission charges recovered through pooled recovery method. On creation of this new regional pooling station, transmission charges for the section between the new pooling station and Chamera-III LILO point of 220kV line of Budhil would also become part of regional system. All future hydro generation like Kutehar (260MW), Bajoli Holi (200MW), Bara Bangal (200MW), Bharmor (45MW) and Kugti (45MW) would terminate their 220kV lines from their projects to this pooling station. Beyond this pooling station, more 220kV D/C lines towards Chamera-II pooling station, shall be planned as and when required.

- (8) Revised plan of integrated evacuation system would be as following:-



9.10 The Members concurred to the above.

10. Details of scope of works under DVC schemes.

The works to be covered under various schemes for transmission system associated with DVC schemes, ER-NR additional inter-regional capacity, North Karanpura evacuation system and Mundra/Sasan UMPP had already been agreed in the earlier meetings. Based on the agreed system PGCIL had done studies to optimize details of reactors and other provisions. The members noted and concurred these provisions. The modified complete scope is enclosed in Annex-II.

- 10.1 PGCIL also intimated that studies done by them/their consultant had shown SSR problem associated with provision of series capacitors on Barh- Balia and Bihar Shariff - Balia lines. Accordingly it was proposed not to have these series capacitors and instead to provide LILLO of both circuits of Barh-Balia 400 kV D/C line at Patna.

11. North East – Northern /Western Interconnection –I - Interregional transmission system

The transmission system associated with Lower Subansiri and Kameng and interregional transmission of power from NER to NR/WR was discussed and broadly agreed by the Northern Regional constituents in its 20th meeting held at Nainital in 22nd April 2006, where the member states had some apprehension regarding the share to NR from these projects. In the meeting held in MoP on 7/1/2008 regarding allocation of power from Lower Subansiri and Kameng HEPs following allocations were agreed from these project:

- **35% of the power from these projects to be allocated to NER**
- **15% of the allocated power to be reserved for NE states**
- **50% of the power could be allocated to Northern/Western Region**

The transmission system from Lower Subansiri and Kameng HEPs was generally agreed. The specific transmission elements (**Annex-III**) was also informed and members noted the same.

12. Provision of two additional bays at Parbati Pooling Station

POWERGRID informed that establishment of 400 kV Parbati Pooling station was covered under Parbati-III transmission system and 220 kV D/c lines from AD Hydro and Malana-II were to be terminated at Parbati Pooling station. The 220 kV switchyard at Parbati Pooling station was to be established by the developers of AD Hydro & Malana-II at their cost and cost of 400/220 kV ICTs alongwith two nos. of associated 400 kV bays was also to be reimbursed to POWERGRID by them. Subsequently, it was agreed that the 220 kV line from AD hydro shall be terminated at Nalagarh and as such, Parbati GIS Pooling station had now been schedule to match with the commissioning of Parbati-III HEP. The line from Malana-II now might be terminated at Parbati Pooling station either at 220 kV or

132 kV level, for which two nos. of 400 kV bays for ICTs (400/220 kV or 400/132 kV) would also be required. As Parbati Pooling Station would be a GIS, it was therefore preferable that all the GIS equipment be procured through the same vendor, so that there could be optimization of spares requirement and implementation of the equipments was done in a coordinated manner. Keeping above in view POWERGRID proposed to provide the two 400 kV bays for the ICTs alongwith the other scope of Substation works for Parbati Pooling station.

CEA suggested that as per present scenario there was no requirement of additional bays at Parbati Pooling station. These could be considered later incase need arises.

12. Sharing of charges for transmission system associated with Sasan and Mundra UMPPs

12.1 Evacuation system and system strengthening for Sasan and Mundra UMPPs was discussed and agreed in earlier meetings. However, signing of BPTA had not materialized due to those not having share in these generation projects opposing the pooling of transmission charges for these systems. It was noted that in meeting of WR, it was suggested that the total transmission system could be divided into generation specific and common purpose components. The generation specific component was proposed to be shared only by beneficiaries in the generation in ratio of their allocation. Common purpose component was proposed to be pooled with the regional system and the additional generation and its allocations also considered in working out revised transmission charge sharing ratios.

10.2 The members noted and concurred to the proposed identification of generation project specific and common purpose components of the transmission system as following:

ATS for generation projects: Proposed components exclusively required with the specific generation project

1.	<p>Mundra UMPP 4000MW (Transmission charges to be shared only by beneficiarities of Mundra UMPP in ratio of their allocated power)</p> <p>(1) Mundra-Limbdi 400 kV D/C (Triple Snowbird)</p> <p>(2) Mundra-Ranchhodpura 400 kV D/C (Triple Snowbird)</p>
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	(3) Mundra-Jetpur 400 kV D/C (Triple Snowbird)
2.	Sasan UMPP 4000MW (Transmission charges to be shared only by beneficiaries of Sasan UMPP in ratio of their allocated power)
	(1) Sasan-Satna 765 kV 2x S/C
	(2) Satna 765/400 kV, 2x1000 MVA S/S
	(3) Satna- Bina (PG) 765 kV 2x S/C
	(4) Bina(PG)-Bina(MP) 400 kV D/C (2 nd line)
	(5) LILO of both circuits of one of the Vindhyachal-Satna 400 kV D/C line at Sasan 400 kV 2xD/C
	(6) FSC on 400 kV Sasan-Satna D/C
	(7) FSC on both of Satna-Bina 2xD/C
	(8) Line bays for 765kV operation of Agra-Gwalior-Bina-Seoni lines
	(9) Sasaram-Fatehpur 765kV S/C
	(10) Fatehpur-Agra 765kV S/C

System strengthening in Northern region – transmission charges to be pooled in the regional system and additional 3800 MW of NR share in Sasan and Mundra UMPPs to be included in working out the ratios for sharing of regional pooled transmission charge

1.	Agra-Sikar 400kV D/C quad
2.	New 400/200kV 2x315MVA s/s at Sikar with 220kV D/C line interconnecting to 220kV s/s
3.	Sikar – Jaipur PG 400kV D/C
4.	Sikar – Ratangarh 400kV D/C
5.	LILO of both circuits of Nathpajahkri-Abdullapur 400kV D/C at Panchkula with 2x315MVA, 400/220kV S/S at Panchkula

10.3 Power allocation from Mundra, Sasan and Krishnapatnam UMPPs

	Mundra	Sasan	Total Sasan+Mundra
WR			
M.P.		1500	1500
Chattisgarh			
Gujrat	1900		1900
Maharashtra	800		800

TOTAL WR	2700	1500	4200
NR			
Delhi		450	450
U.P.		500	500
Uttrakhand		100	100
Punjab	500	600	1100
Rajasthan	400	400	800
Haryana	400	450	850
TOTAL NR	1300	2500	3800

- 10.4 The proposal to adopt triple Snowbird conductor (instead of triple Moose) for the 400kV line from Mundra was also noted and concurred.

Minutes for Long term Open Access with Northern Region Constituents held on 16/02/2008 at Dehradun

1.. Sorang HEP (100 MW)

The proposals to evacuate Sorang power at 400 kV utilizing Baspa - Nathpa Jhakri 400 kV line of JP (developer of Baspa HEP) through LILO of one circuit at Sorang, was agreed. The developer was informed that he would have to tie-up on his own with JP/Baspa developer for use of their transmission system. HPSEB also flagged the issue of accounting of losses on account of injection of Sorang power and it was concluded that necessary proposal in this regard would need to be taken to NRPC.

2. Lohari Nagpala (600 MW)

The proposal for LOTA for power from Lohari Nagpala was discussed and it was observed that system upgrading between Koteshwar P.S and Meerut and operation of the lines at 765 kV (presently operated at 400 kV) was basically on account of injection of LohariNagpala power and thereafter transmission charges for this for the period till commissioning of Tehri PSP would be fully borne by Lohari Nagpala and after commissioning of Tehri PSP this would be shared between beneficiaries of Lohari Nagpala and Tehri PSP.

3. Bhilangana HEP (22.5 MW)

POWERGRID informed that M/s PTC India Ltd has applied for long term Open Access in inter-state transmission system for transfer 22.5 MW of power from the proposed Bhilangana hydro power plant to be set up in Uttarakhand by M/s Swasti Power Engineering Ltd. to Punjab. The commissioning schedule for generation project as indicated in the application is Unit I – Feb. 2008, Unit II &

III – March 2008. The power would be injected at nearest substation of STU at 66kV and would be transferred to Punjab through displacement of part of share of Uttarakhand from generation projects like Singrauli, Rihand, Tehri, Dhauliganga etc.

PTCUL informed that power from the Bhilangana project is to be injected at Ghansali substation at 33 kV level which has already been informed to the developers of the project. It was also informed that PTCUL has planned to establish a 220 kV substation at Ghansali and there would not be any constraint in transfer of power.

4. **Open access for thermal projects in ER**

POWERGRID informed that application for interregional transfer of power for six generation projects (ER-Farakka-III, Chitrapur, KVK, WR-Lanco, JSW Energy, SR- Nagarjuna power) had been received. About 1320 MW of power is to be transferred to Northern Region from these projects. It was discussed that there was a constraint in the east-west corridor of Northern Region and therefore long term open access for transfer of power from the thermal projects in ER to NR could be granted only after commissioning of Balia- Bhiwadi HVDC line. However, connectivity of these projects could be allowed and till commissioning of Balia - Bhiwadi lines these would seek transmission through STOA.

5. **Dadri SEZ of Reliance**

It was noted that apart from seeking open access for CTU systems, the developer has also sought open access from Haryana which he had not informed to CTU. As the open access and related transmission planning was required to be done in a comprehensive manner, it was decided that the proposal needs a review and reconsideration in the next meeting.

6. **Tapovan Vishnugad**

POWERGRID informed that M/s PTC India Ltd has applied for long term Open Access in inter-state transmission system for transfer 514 MW (520 MW less APC @1.2 %) including 61.7MW free power to Uttaranchal. PTCUL informed that the pooling point as per agreement is Kashipur and system needs to be evolved from Kashipur. Constituents agreed that Generator needs to hold discussion with PTCUL and inform the pooling station from where open Access is to be considered.

**पावर ट्रांसमिशन कारपोरेशन ऑफ उत्तराखण्ड लि०**

(उत्तराखण्ड सरकार का उपक्रम)

प्रबन्ध निदेशक कार्यालय

विद्युत भवन, नजदीक-आई०एस०बी०टी० क्रासिंग, सहारनपुर रोड़, माजरा, देहरादून-248002
दूरभाष नं० 0135-2842008 फैक्स नं० 0135-2843480 email:- md.ptcul@rediffmail.com

No. 189 I.MD/PTCUL/D(P)

Date: 20.01.2022

**Managing Director,
HPPTCL,
HIMFED Bhawan, Panjari,
New ISBT Road, Shimla - 171005.**

Sub:- Construction of 220/132 kV, 2x100 MVA Substation at Paonta Sahib in H.P. by D/C LILO of 220 kV D/C Khodri-Mazri line.

Dear Sir,

Kindly take reference of Director (P&C), HPPTCL Letter No. HPPTCL/Planning/EHV/2021/10283-84 dated 25.09.2021 regarding above cited matter for seeking concurrence of PTCUL on HPPTCL proposal for Construction of 220/132 kV, 2x100 MVA Substation at Paonta Sahib in H.P. by D/C LILO of 220 kV D/C Khodri-Mazri line. HPPTCL proposal has been examined by concerned unit of PTCUL and SLDC, Uttarakhand. The conditions regarding limit of drawl of power (max. 200 MW) by HPPTCL from Uttarakhand Grid and implementation of SPS Scheme by HPPTCL as per **Annexure - A (enclosed)** have been proposed for providing PTCUL concurrence on above HPPTCL proposal.

In light of recommendation given by CE (SLDC), Uttarakhand and CE (Projects), Garhwal Zone, PTCUL, concurrence of PTCUL is given on HPPTCL proposal for Construction of 220/132 kV, 2x100 MVA Substation at Paonta Sahib in H.P. by D/C LILO of 220 kV D/C Khodri-Mazri line with the above mentioned conditions.

Encl:- As above.

With regards,



(Anil Kumar)
Managing Director

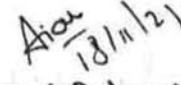
CC:

1. Director (Operations/Projects), PTCUL, Dehradun.
2. Chief Engineer L-1, SLDC, Dehradun.

माननीय ऊर्जा मंत्री, उत्तराखण्ड सरकार द्वारा माननीय ऊर्जा मंत्री, हिमाचल प्रदेश के साथ दिनांक 19.11.2021 को भेट-वार्ता (NoC for NRPC for installing of 220 kV Substation at Gondpur, Ponta Sahib) के सम्बन्ध में बिन्दुवार सूचना:-

1. उक्त प्रस्ताव पर 4th Meeting of Northern Region Standing Committee on Transmission (NRSCT) दिनांक 25.07.2019 (MoM निर्गत दिनांक 09.08.2021 की छायाप्रति संलग्न-1) को चर्चा हुई तथा प्रस्ताव इस शर्त के साथ विचार किया गया कि HPTCL द्वारा overdrawal की पिटकूल की आशंका का निराकरण किया जाये एवं आवश्यकतानुसार HPTCL द्वारा पिटकूल की आवश्यकतानुसार विद्युत निकासी सम्बन्धी प्रतिबन्ध के लिये Special Protection Scheme (SPS) लगाई जाये।
2. HPTCL के उपरोक्त प्रस्ताव पर फिर से NRPC - TP की 3rd मीटिंग दिनांक 19.02.2021 (MoM निर्गत दिनांक 09.05.2021 की छायाप्रति संलग्न-2) को चर्चा हुई तथा CEA द्वारा यह अनुरोध किया गया कि HPTCL एवं पिटकूल इस प्रस्ताव के सम्बन्ध में द्विपक्षिय वार्ता कर समाधान निकाले एवं तदानुसार प्रस्ताव अगली NRPC-TP मीटिंग किया जा सके।
3. दिनांक 09.04.2021 को पिटकूल एवं HPTCL के बीच उपरोक्त प्रकरण के सम्बन्ध में विडियो कोन्फ्रेंसिंग के द्वारा वार्ता हुई और यह निर्णय लिया गया कि HPTCL उपरोक्त प्रस्ताव से सम्बन्धित Load Flow Study पिटकूल को प्रेषित करेंगे।
4. Director (P&C) HPTCL के पत्रांक सं० HPPTCL/Planning/ EHV/2021/10283-84 दिनांक 25.09.2021 (छायाप्रति संलग्न-3) द्वारा Load Flow Study इस आशय के साथ प्रेषित की गई थी, यदि आवश्यक हो तो पिटकूल एवं HPTCL के बीच बैठक कर इस प्रकरण का समाधान निकाला जाये।
5. SLDC देहरादून द्वारा 220 के0वी0 डबल सर्किट खोदरी - माजरी लाईन पर अधिकतम Power Flow के आधार पर यह बताया गया है कि अधिकतम Power Flow की सीमा लगभग 200 मेगावाट है जोकि हिमाचल प्रदेश द्वारा खोदरी पावर हाउस के स्विचयार्ड से ली जा सकती है जिससे उत्तराखण्ड गिड की सामान्य स्थिति में कोई प्रतिकूल प्रभाव नहीं होने की सम्भावना है।
6. 220 के0वी0 खोदरी पावर हाउस के स्विचयार्ड का स्वामित्व UJVNL के पास है।
7. उपरोक्त को दृष्टिगत रखते हुए पिटकूल द्वारा HPTCL के उपरोक्त प्रस्ताव पर सहमति इस आधार पर दी जा सकती है कि HPTCL अधिकतम 200 मेगावाट पावर ही 220 के0वी0 खोदरी पावर हाउस के स्विचयार्ड से आहरित करें एवं इस उच्चतर सीमा (200 मेगावाट) पर प्रतिबन्ध सहित Special Protection Scheme (SPS) का क्रियान्वयन करें जिससे कि उत्तराखण्ड की गिड पर प्रतिकूल प्रभाव न पड़े।


18/11/21
मुख्य अभियन्ता (स्तर-1)
(एस0एल0डी0सी0 / स्काडा)
पिटकूल


18/11/21
मुख्य अभियन्ता (परियोजना)
गढ़वाल क्षेत्र
पिटकूल