



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 (64वीं)/2023/2989-3036

दिनांक: 17.03.2023

सेवा में / To,

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

Members of NRPC (As per List)

विषय: उत्तर क्षेत्रीय विद्युत समिति की 64^{वीं} बैठक की अतिरिक्त कार्यसूची ।

Subject: – Additional Agenda of 64th meeting of Northern Regional Power Committee-reg

Madam/Sir,

उत्तर क्षेत्रीय विद्युत समिति की 64^{वीं} बैठक दिनांक 24.03.2023 (11:00 AM) को धर्मशाला, हिमाचल प्रदेश में आयोजित की जाएगी । बैठक की कार्यसूची पत्र दिनांक 16.03.2023 के द्वारा जारी की गई थी । बैठक की अतिरिक्त कार्यसूची संलग्न है।

The 64th meeting of Northern Regional Power Committee (NRPC) will be held on 24.03.2023 (11:00 AM) at Dharamshala, Himanchal Pradesh. Agenda for the same was issued vide letter dtd. 16.03.2023. Additional agenda for the same is attached.

भवदीय

Yours faithfully,

(नरेश भंडारी)

(Naresh Bhandari)

सदस्य सचिव

Member Secretary

List of NRPC Members (FY 22-23)

1. Chairperson, Northern Regional Power Committee & CMD, Delhi Transco Limited (DTL), Shakti Sadan, Kotla Marg, New Delhi-110002
2. MD, PTCUL, Dehradun-248001, (Fax- 0135-2764496)
3. MD, UPPTCL, Lucknow-226001, (Fax-0522-2287792)
4. CMD, RRVPNL, Jaipur-302005, (Fax -01412740168)
5. Member (GO&D), CEA, New Delhi, (Fax-011-26108834)
6. CMD, PSTCL, Patiala-147001, (Fax-0175-2307779)
7. Commissioner/Secretary, PDD, J&K, Jammu, (Fax-0191- 2545447/ 01942452352)
8. Managing Director, HVPN Ltd, Panchkula -134109 (Fax-0172-2560640)
9. Chairman, BBMB, Chandigarh-160019, (Fax-0172-2549857/2652820)
10. Chief Engineer, UT of Chandigarh, Chandigarh-160066, (Fax-0172-2637880)
11. Managing Director, DTL, New Delhi-110002, (Fax-011-23234640)
12. General Manager, SLDC, DTL, New Delhi-110002, (Fax-011-23221069)
13. Managing Director, IPGCL, New Delhi-110002, (Fax-011-23275039)
14. Chief Engineer (SO&C), SLDC, HVPNL, Panipat, (Fax-0172-2560622/2585266)
15. Managing Director, HPGCL, Panchkula-134109, (Fax-0172-5022400)
16. Representative of UHBVNL (Haryana Discom)
17. Managing Director, HPSEB Ltd, Shimla -171004 (Fax-0177-2658984)
18. Managing Director, HPPTC Ltd, Himfed Bhawan, Shimla-171005, (Fax-0177-2832384)
19. Managing Director, HPSLDC, HP State Load Despatch Authority, Totu, Shimla, (Fax-0177-2837649)
20. Managing Director, J&K State Power Dev. Corp., Srinagar, J&K, (Fax-0194-2500145)
21. Chairman and Managing Director, PSPCL, Patiala-147001, (Fax-0175-2213199)
22. Chief Engineer (LD), SLDC, Heerapur, Jaipur-302024, (Fax-0141-2740920)
23. CMD, RRVUNL, Jaipur-302005, (Fax-0141-2740633)
24. Representative of AVVNL (Rajasthan Discom)
25. Managing Director, SLDC, UPPTCL, Lucknow-226001, (Fax-0522-2287792)
26. Managing Director, UPRVUNL, Lucknow-226001, (Fax-0522-2288410)
27. Representative of DVVNL (UP Discom)
28. Managing Director, SLDC, PTCUL, Rishikesh, (Fax-0135-2451160)
29. Managing Director, UJVNL, Dehradun-248001, (Fax-0135-2763507)
30. Managing Director, UPCL, Dehradun-248001, (Fax-0135-2768867/2768895)
31. Director (Technical), NHPC, Faridabad-121003, (Fax-0129-2258025)
32. Director (Finance), NPCIL, Mumbai-400094, (Fax-022-25563350)
33. Director (Commercial), NTPC, New Delhi-110003, (Fax-011-24368417)
34. COO, CTUIL, Gurgaon-122001
35. CMD, SJVNL, New Delhi, (Fax-011-41659218/0177-2660011)
36. Executive Director (PSP & APP), THDC, Rishikesh-249201, (Fax-0135-2431519)
37. Director (Commercial), POSOCO, New Delhi-110016, (Fax-011-26560190)
38. ED, NRLDC, New Delhi-110016, (Fax-011-26853082)
39. CEO, Aravali Power Company Pvt. Ltd., NOIDA, (Fax-0120-2591936)
40. CEO, CLP Jhajjar Power Ltd., Haryana, (Fax-01251-270105)
41. Representative of Lanco Anpara Power Ltd., (Fax-124-4741024)
42. Station Director, Rosa Power Supply Company Ltd., (Fax-05842-300003)
43. Director and head regulatory and POWER Sale, KWHEP, JSW Energy Ltd., New Delhi (Fax- 48178740)
44. COO, Adani Power Rajasthan Ltd., Ahmedabad-380006 (Fax No- 07925557176)
45. COO, Talwandi Sabo Power Ltd. Distt: Mansa, Punjab-151302(Fax: 01659248083)
46. MD, Lalitpur Power Generation Company Ltd., Noida-201301(Fax: 01204045100/555, 2543939/40)
47. Representative of Tata Power trading company Ltd.
48. CEO, Nabha Power Limited, (Fax: 01762277251 / 01724646802)
49. Representative of Prayagraj Power Generation Co. Ltd.
50. CEO, MEJA Urja Nigam Ltd., New Delhi
51. Representative of Mahindra Susten Private Ltd., Mumbai (Member IPP<1000 MW)
52. Representative of Adani Transmission India Pvt. Ltd., Ahmedabad (private transmission licensee)
53. Representative of BSES Rajdhani Power Ltd. (Private Discom)

Special Invitee:

1. RE generators/Holding companies in Northern Region as per mail list.

Contents

AA.1 OPGW installation on existing 400 kV Kota – Merta line which is LILoed at Sri Cement & Proposed to be LILoed at 765/400 kV Beawar (ISTS) S/s (Agenda by CTUIL).....	1
AA.2 Providing redundant communication to 400kV Manesar Substation (Agenda by CTUIL) ...	1
AA.3 Redundant communication for Narora (NAPP) (NPCIL) (Agenda by CTUIL)	3
AA.4 Redundant connectivity between Aulsteng (JKPTCL) and Drass (POWERGRID) (Agenda by UT of Ladakh)	3
AA.5 Replacement of two 132 kV transmission lines of PTCUL (Agenda by PTCUL).....	4

उत्तरी क्षेत्रीय विद्युत समिति की 64^{वीं} बैठक

64th MEETING OF NORTHERN REGIONAL POWER COMMITTEE

Time & Date of NRPC meeting: 11:00 HRS; 24th March 2023

Venue: Dharamshala, Himachal Pradesh

ADDITIONAL AGENDA

AA.1 OPGW installation on existing 400 kV Kota – Merta line which is LILLOed at Sri Cement & Proposed to be LILLOed at 765/400 kV Beawar (ISTS) S/s (Agenda by CTUIL)

AA.1.1 The agenda on OPGW installation on 400 kV Kota – Merta line (256kms.) which is LILLOed at Sri Cement & Proposed to be LILLOed at 765/400 kV Beawar (ISTS) S/s was discussed in 57th (held on 31.08.2022) & 63rd NRPC meeting (held on 24.02.2023).

AA.1.2 It was deliberated that as per Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, PMU is required at both ends of 400kV line bays. Further to send PMU data to RLDC, OPGW connectivity shall be required. However, Shri Cement stated that they will review whether this is mandatory for old Generators also and will revert back.

AA.1.3 In the 63rd NRPC meeting, it was decided to take up the matter in next NRPC meeting.

Members may kindly deliberate.

AA.2 Providing redundant communication to 400kV Manesar Substation (Agenda by CTUIL)

AA.2.1 Presently 400kV Manesar sub-station is connected through ISTS communication network via following two (02) transmission lines:

- (i) 400kV D/C Manesar-Neemrana.
- (ii) 400kV D/C Manesar- Gurgaon.

400kV D/C Manesar- Gurgaon line is LIL0ed at Sohna Sub-station and further proposed to be LIL0ed at Neemrana-II S/s under Rajasthan REZ Ph-IV (Part-B).

- AA.2.2 Manesar-Neemrana link & Manesar-Sohna/Gurgaon link is regularly being disrupted due to diversion works associated with highways being in close proximity of NH-8, Kundli-Manesar-Palwal Expressway, Delhi-Mumbai Expressway, Sohna elevated corridor, etc.
- AA.2.3 Manesar S/s is an important wideband node of Northern Region in view of WAMS PDC backup housed at Manesar.
- AA.2.4 It is proposed that one more backup communication path may be planned to Manesar. Additional link can be created by laying OPGW from the crossing point of Neemrana – Manesar (2nd E/W peak of the line) & Agra-Jhatikara line upto Jhatikara & Manesar, which will be around 35 kms. This agenda was also discussed in the 3rd Meeting of CTUIL for Planning of Communication System for Inter-State Transmission system (ISTS) in Northern Region held on 17.02.2023.
- AA.2.5 Details of proposed link is given below in the figure:

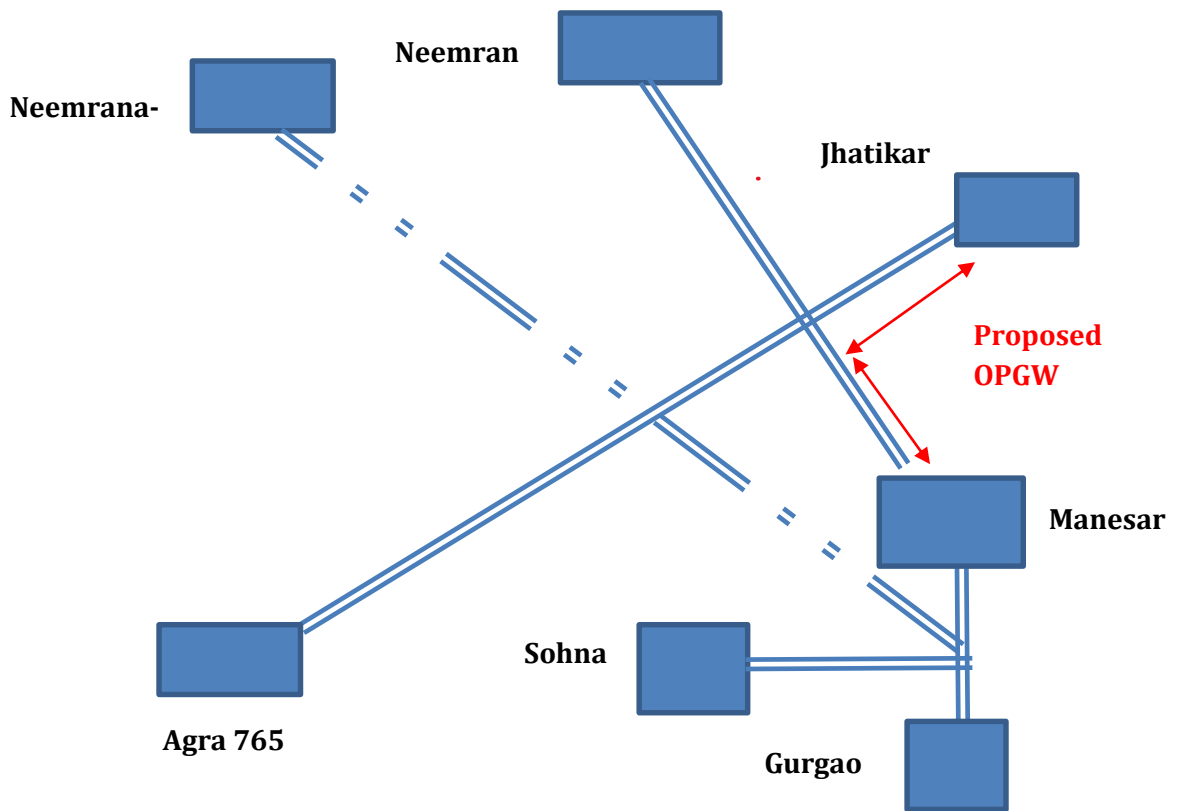


Figure-1

AA.2.6 Line length of proposed OPGW installation is 35 kms. with cost estimate of approx. Rs. 1.75 Crs. including terminal equipment. After approval this work shall be awarded to owner of the asset in RTM mode with completion schedule of 18 months from the date of allocation.

Members may kindly deliberate.

AA.3 Redundant communication for Narora (NAPP) (NPCIL) (Agenda by CTUIL)

AA.3.1 Redundant communication for Narora (NAPP) (NPCIL) was deliberated in the 2nd ISTS planning meeting of NR also in 20th TesT meeting of NRPC.

AA.3.2 The agenda was also discussed in the 3rd Meeting of CTUIL for Planning of Communication System for Inter-State Transmission system (ISTS) in Northern Region held on 17.02.2023, wherein UPPTCL informed that they have included NAPP – Atrauli link (38 kms.) in their proposed OPGW package awarded to TCIL. Using NAPP – Atrauli link data of NAPP may be routed through following links upto ISTS node:

“Narora (NAPP) – Atrauli – Aligarh (400) – Sikandara Rao – Kasganj- Etah – Mainpuri (UP) – Mainpuri (PG) -> NRLDC”

AA.3.3 It is proposed that alternate path may be explored with lesser hops e.g. Narora – Sibhauri UPPTCL link, where OPGW needs to be installed on Narora – Sibhauri (UPPTCL) line which is around 88 kms. Sibhauri is already connected with ISTS communication network.

AA.3.4 UPPTCL informed that they shall revert back after checking amendment feasibility in the awarded tender.

Members may kindly deliberate.

AA.4 Redundant connectivity between Aulsteng (JKPTCL) and Drass (POWERGRID) (Agenda by UT of Ladakh)

AA.4.1 UT of Ladakh has submitted that it is connected to rest of the Grid through 220kV SLTS Line between Aulsteng (JKPTCL) and Drass (POWERGRID). During peak winter when temperature is below -40 Degree, only source of power supply to Ladakh area is above Transmission Line and outage of above line results in power crisis in UT of Ladakh as the discharges in the Hydel Power Stations are also very

low and not able to meet the load demand which is at annual peak due to heating load. In addition to meeting load requirement of Ladakh area in peak winter, this link also evacuates power generated in Alchi and Chutak Hydro stations of NHPC in Ladakh area to rest of the GRID.

AA.4.2 As per CEA manual of transmission planning criteria Jan '2013, "All the equipment in the transmission system shall remain within their normal thermal and voltage ratings after a disturbance involving loss of any one of the elements (called single contingency or 'N-1' condition), but without load shedding / rescheduling of generation".

AA.4.3 In view of above, providing redundant connectivity at 220kV level, connecting UT of Ladakh with rest of the GRID may please be reviewed in compliance to CEA manual of transmission planning criteria Jan '2013, so as to provide stable/reliable connectivity to UT of Ladakh. Moreover, there will be no generation loss due to outage of one link.

Members may kindly deliberate.

AA.5 Replacement of two 132 kV transmission lines of PTCUL (Agenda by PTCUL)

AA.5.1 PTCUL has submitted that there are mainly two sources of power in Kumaon region one is from 400 kV PGCIL Lines connected to 400 kV S/s Kashipur and the other is 220 kV Pantnagar –Bareilly Line which is connected to 220 kV Pantnagar S/s. PGCIL lines cater approximately 60 % load of Kumaon and partial load of Garhwal region also. Due to exponential growth in power demand of Kichha and ELDECO Sitarganj region, the existing Line is unable to cater power demand of above region. It is also to be noted that there is no possibility of erecting new line due to non-availability of ROW (Right of Way).

AA.5.2 Therefore, replacement of ACSR Panther conductor in 132KV Sitarganj (PGCIL)-ELDECO Sitarganj single circuit line (22.0 Kms) and 132 KV Sitarganj –Kichha line (31.5Kms) with HTLS conductor is the only possible option to reduce the over loading of existing line and also to improve the reliability of the evacuation of power to cater the increased load demand in Kichha, ELDECO and nearby area through 132 KV Substation, Kichha and ELDECO. This Line is the only gateway of power from 220kV PGCIL substation Sitarganj thereby it justifies the existence of 220 kV PGCIL S/s and provides stability to the grid by evacuating power from aforementioned PGCIL S/s.

AA.5.3 The above proposal is eligible for 100 % funding from PSDF for which load flow analysis report of aforementioned lines is required for submission to central PSDF. PTCUL has the great opportunity of system strengthening. Hence, load flow analysis for replacement of 132KV Sitarganj (PGCIL)-ELDECO Sitarganj single circuit line (22.0 Kms) and 132 KV Sitarganj –Kichha line (31.5Kms) is proposed.

Members may kindly deliberate.
