



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 (58वीं)/2022/9218-9264

दिनांक: 27.09.2022

सेवा में / To,

उ.क्षे.वि.स. के सभी सदस्य (संलग्न सूचीनुसार)
Members of NRPC (As per List)

विषय: उत्तर क्षेत्रीय विद्युत समिति की 58^{वीं} बैठक की कार्यसूची ।

Subject: Agenda for 58th meeting of Northern Regional Power Committee-reg

महोदय / Sir,

उत्तर क्षेत्रीय विद्युत समिति की 58^{वीं} बैठक दिनांक **30 सितम्बर, 2022** को **1100** बजे विडियो कॉन्फ्रेंसिंग के माध्यम से आयोजित की जाएगी । बैठक की कार्यसूची संलग्न है। बैठक का लिंक एवं पासवर्ड नियत समय पर ईमेल द्वारा उपलब्ध करा दिया जायेगा ।

The 58th meeting of Northern Regional Power Committee (NRPC) will be held at **1100 Hrs** on **30th September 2022** via video conferencing. Agenda for the same is attached. The link and password for joining the meeting shall be sent in due course of time.

भवदीय

Yours faithfully,

(नरेश भंडारी) 27/9/22

(Naresh Bhandari)

सदस्य सचिव

Member Secretary

Contents

A.1	Approval of MoM of 57 th NRPC meeting.....	1
A.2	ULDC Phase-III SCADA/EMS System (agenda by POWERGRID).....	1
A.3	Provision of Phasor measurement units (PMUs) at POI in RE feeders in Rajasthan (agenda by POWERGRID)	1
A.4	UPPCL request for review of SRPC methodology in view of issue of calculation of transmission charges for UPPCL share in UCH Stage-II (132 MW), UCH Stage-III (66 MW) (Agenda by NRPC Sectt.).....	2
A.5	Change of line name for NROSS (AGC) scheme, approved in 48th NRPC: OPGW installation on 220kV Anta (NTPC) - RAPP 'C' line (87.5km) in lieu of Anta (RVPNL)-Kota line (91.5km) (agenda by CTU).....	3
A.6	OPGW installation on 220kV Anta (NTPC) - Bhilwara Line (agenda by CTU).....	4
A.7	OPGW Installation on 220kV GNDTP Bhatinda - Mukhtsar (3rd circuit) to provide data & voice connectivity to LILO sub-stations at Badal & Malout (PSTCL) – (Agenda by CTU for PSTCL).....	5
A.8	Replacement of existing old OPGW (agenda by CTU).....	6
A.9	Redundant communication system for Bhinmal (POWERGRID) & Kankroli (POWERGRID) S/s: Sharing of 3 pair of fibers in existing RVPNL OPGW network, installation of OPGW on Jodhpur (Surpura) – Bhadla (5 kms) (upto LILO point in Jodhpur (Surpura) – Merta section) and additional STM-16 FOTE at intermediate nodes (agenda by CTU)	11

उत्तरी क्षेत्रीय विद्युत समिति की 58^{वीं} बैठक

58th MEETING OF NORTHERN REGIONAL POWER COMMITTEE

Time & Date of NRPC meeting: 11:00 HRS; 30th September, 2022

Venue: Video Conferencing

AGENDA

A.1 Approval of MoM of 57th NRPC meeting

A.1.1 Minutes of 57th NRPC meeting has been issued on 27.09.2022. No comment has been received till the date.

Members may kindly approve.

A.2 ULDC Phase-III SCADA/EMS System (agenda by POWERGRID)

A.2.1 POWERGRID vide mail dtd. 27.09.2022 has requested for discussion on following points:

- (i) Information to all constituents of implementation of NR ULDC-III SCADA/EMS system by POWERGRID.
- (ii) Modalities for 7year AMC of the SCADA/EMS system.
- (iii) Implementation of Cyber Security measures in SCADA/EMS – Centralized Patch management/Security controls.
- (iv) Backup Control centers- Operations and Readiness philosophy.
- (v) Upgradation of SCADA project is likely to be commissioned from January, 2025 to June, 2025 in phased manner. Accordingly, RLDCs/State utilities may extend their ongoing AMC contract for a period of two years as per provisions of AMC contracts.

Members may kindly deliberate.

A.3 Provision of Phasor measurement units (PMUs) at POI in RE feeders in Rajasthan (agenda by POWERGRID)

A.3.1 In the wake of recent grid disturbances in Northern region (RE complex in Rajasthan), a meeting of various stakeholders was convened by POSOCO on 21st Dec'22 to discuss the relevant issues. The issue of lack of oscillography data at Inverter terminals and POI was discussed during the meeting. In this context, POSOCO requested POWERGRID to make provision for phasor measurement units (PMUs) at Point of

interconnection (POI) i.e. POWERGRID bus and integrate the same in NRLDC system for capturing data during such events.

- A.3.2 A list of RE feeders (including upcoming RE generators) terminating at various pooling stations of POWERGRID in Rajasthan is as below (List attached as **Annexure-I**):

S. N.	POWERGRID pooling substation	No. of RE feeders (nos.)
1	765/400/220kV Fatehgarh-2 substation	23
2	765/400/220kV Bhadla substation	14
3	765/400/220kV Bhadla-II substation	18
4	765/400/220kV Bikaner substation	8
		63

- A.3.3 On the request of POSOCO, it is proposed to install PMUs in above mentioned 63 nos. feeders connected to RE generators for improved dynamic snapshot of the system during grid events/disturbances. The total estimated cost of installation of PMUs in 63 nos. feeders is Rs. ~14.0 Cr.

Members may kindly deliberate.

- A.4 UPPCL request for review of SRPC methodology in view of issue of calculation of transmission charges for UPPCL share in UCH Stage-II (132 MW), UCH Stage-III (66 MW) (Agenda by NRPC Sectt.)**

- A.4.1 The issue was discussed in 57th NRPC meeting wherein it was decided that the issue may be discussed separately at NRPC Secretariat.

- A.4.2 A separate meeting was held on 23.09.2022 at NRPC Sectt., New Delhi, wherein, the issue was discussed (MoM attached as **Annexure-II**) and it was concluded that:

- (i) As per SRPC methodology, UP's request for exemption in transmission charges in case of UCH-II, & UCH-III is not tenable as STU network is not sufficient to evacuate its share.
- (ii) As per UP's request, SRPC methodology may be scrutinized at NRPC forum level.

- A.4.3 Therefore, decision on request of UP for review of SRPC methodology may be taken.

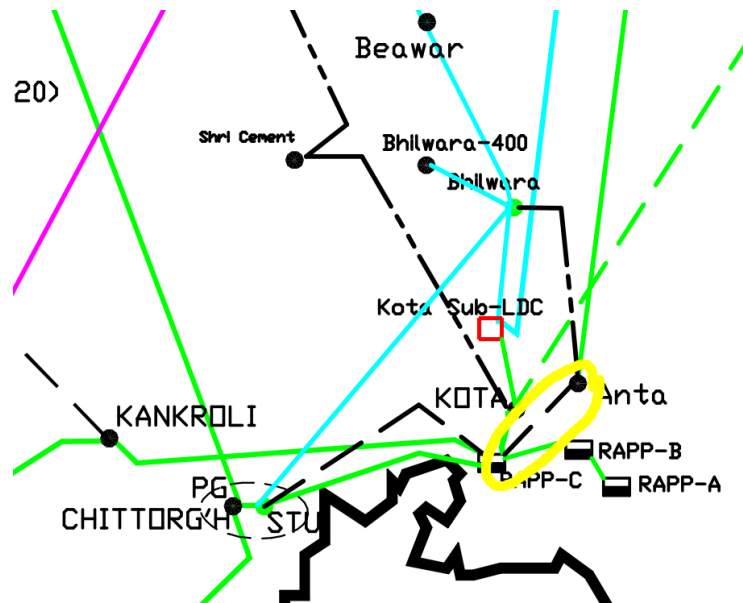
- A.4.4 SRPC methodology finalized by LTA Sub Group comprising the Members from CTUIL, NLDC, SRLDC and SLDCs/STUs of Southern Region and approved in

39th meetings of TCC (03.12.2021) & SRPC (06.12.2021) is attached as **Annexure-III.**

Members may kindly deliberate.

A.5 Change of line name for NROSS (AGC) scheme, approved in 48th NRPC: OPGW installation on 220kV Anta (NTPC) - RAPP 'C' line (87.5km) in lieu of Anta (RVPNL)-Kota line (91.5km) (agenda by CTU)

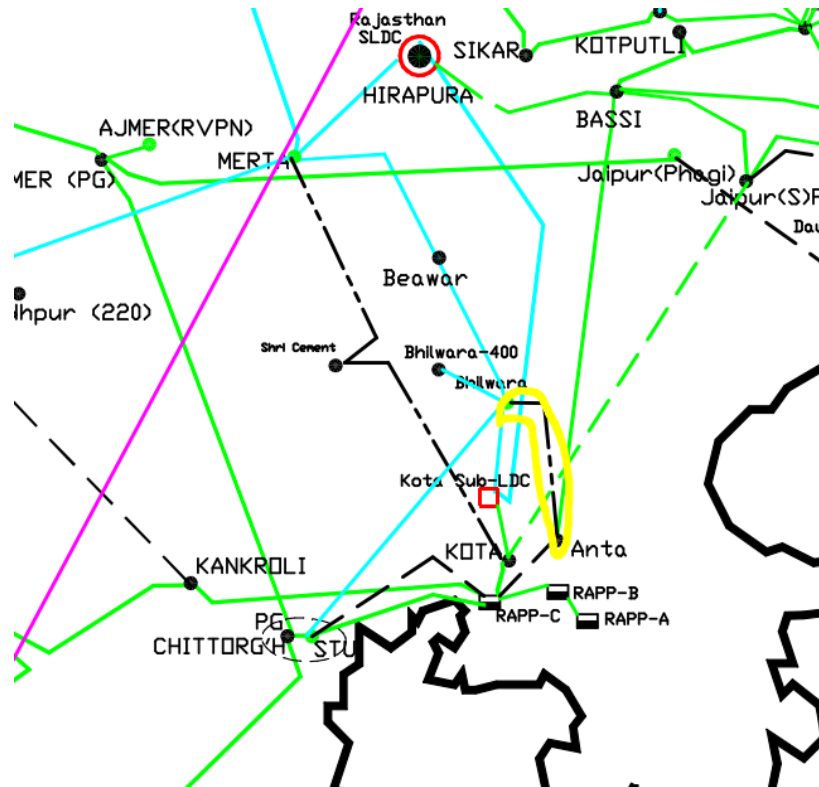
- A.5.1 OPGW installation on 400kV Anta-Kota line (91.5km approx.) was approved as part of NROSS scheme in 48th NRPC for redundant communication connectivity for AGC at Anta (NTPC) generating station. It was observed during survey that Anta-Kota line is originating from Anta (RVPNL) and not from Anta (NTPC). OPGW requirement on said line will not cater the data connectivity for Anta (NTPC).
- A.5.2 Matter was informed to 2nd ISTS Communication Planning Committee Meeting for NR held on 25.07.2022. POSOCO emphasized that for AGC implementation redundant OPGW connectivity is required at the earliest for Anta (NTPC).
- A.5.3 Following ISTS lines are connecting Anta (NTPC) with Northern Region grid:
- (i) Anta (NTPC) - RAPP 'C' (87.5km)
 - (ii) Anta (NTPC) - Bhilwara (187km)
 - (iii) Anta (NTPC) - Bassi (250km)
- A.5.4 RAPP 'C' is nearest wideband node to Anta (NTPC). In view of same, it is proposed to approve actual link name as Anta (NTPC) - RAPP'C' (approx. 87.5km) for installation of OPGW as part of Northern Region OPGW Strengthening Scheme (NROSS) for AGC. Cost of OPGW installation on 220kV Anta (NTPC) - RAPP 'C' line is estimated around ₹ 4.38 Crore which is less compared to previous approval (₹ 5 Crore).
- A.5.5 OPGW requirement on 220kV Anta (NTPC) - Rapp 'C' line (87.5km) of POWERGRID was deliberated in 20th NR-TeST meeting held on 09.09.2022 and recommended for NRPC approval.



Members may kindly deliberate

A.6 OPGW installation on 220kV Anta (NTPC) - Bhilwara Line (agenda by CTU)

- A.6.1 During 2nd ISTS Communication Planning Meeting for Northern Region held on 25.07.2022, issues regarding reliable communication for Anta (NTPC) was deliberated.
- A.6.2 One 220kV line is existing between Anta (NTPC) & Bhilwara substation. As Bhilwara is an existing wideband node in NR, it is proposed to install OPGW on 220kV Anta (NTPC) - Bhilwara line i.e. 187km. This will provide a reliable communication data connectivity to Anta (NTPC). Cost of OPGW installation on Anta - Bhilwara line comes around ₹ 9.35 Crore.
- A.6.3 OPGW requirement on 220kV Anta (NTPC) - Bhilwara line (187km) of POWERGRID was deliberated in 20th NR-TeST meeting and recommended for NRPC approval. Above OPGW requirement may be implemented under ongoing NROSS project for AGC.

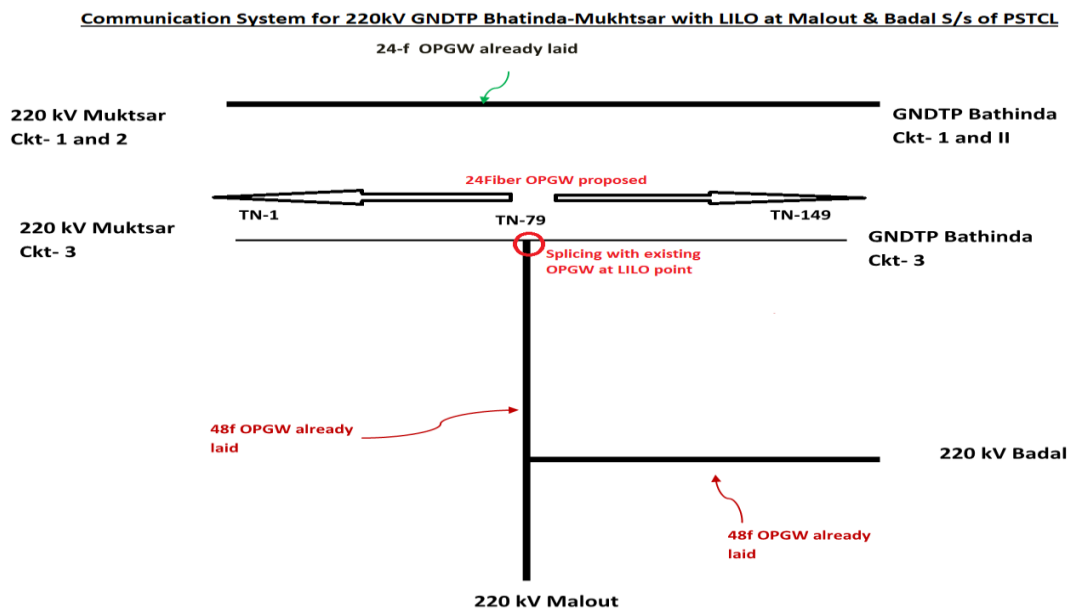


Members may kindly deliberate

A.7 OPGW Installation on 220kV GNDTP Bhatinda - Mukhtsar (3rd circuit) to provide data & voice connectivity to LILO sub-stations at Badal & Malout (PSTCL) – (Agenda by CTU for PSTCL)

A.7.1 There are 3 circuits of 220kV GNDTP Bhatinda-Mukhtsar line. Circuit-1 & circuit-2 are on 220kV double circuit towers and circuit-3 is on separate double circuit towers. Circuit-3 is LILOed at Malout S/s & Badal S/s. 48Fiber OPGW is installed on the LILO sections of circuit-3 at Malout S/s & Badal S/s. As circuit-3 of GNDTP Bhatinda-Mukhtsar line is not having OPGW, to provide data & voice connectivity to LILO sub-stations i.e. Malout & Badal OPGW is required to install on the 3rd Circuit of 220kV GNDTP Bhatinda-Mukhtsar line.

A.7.2 Single Line diagram for GNDTP Bhatinda-Mukhtsar is enclosed for ready reference.



A.7.3 In the 20th NR-TeST meeting, PSTCL proposed for OPGW installation on circuit-3 of 220kV GNDTP Bathinda – Mukhtsar (length- 51km) & splicing with existing OPGW on LILO sections at Malout & Badal under any of the ongoing projects. Cost for above OPGW requirement is estimated around ₹ 3 Crore. PSTCL proposed that investment for OPGW installation on circuit-3 of GNDTP Bhatinda-Mukhtsar shall be shared by PSTCL with POWERGRID as per CERC notification and scheme shall become part of existing ULDC schemes. This proposal was deliberated and approved in 20th NR-TeST meeting held on 09.09.2022 and recommended for NRPC approval.

Members may kindly deliberate

A.8 Replacement of existing old OPGW (agenda by CTU)

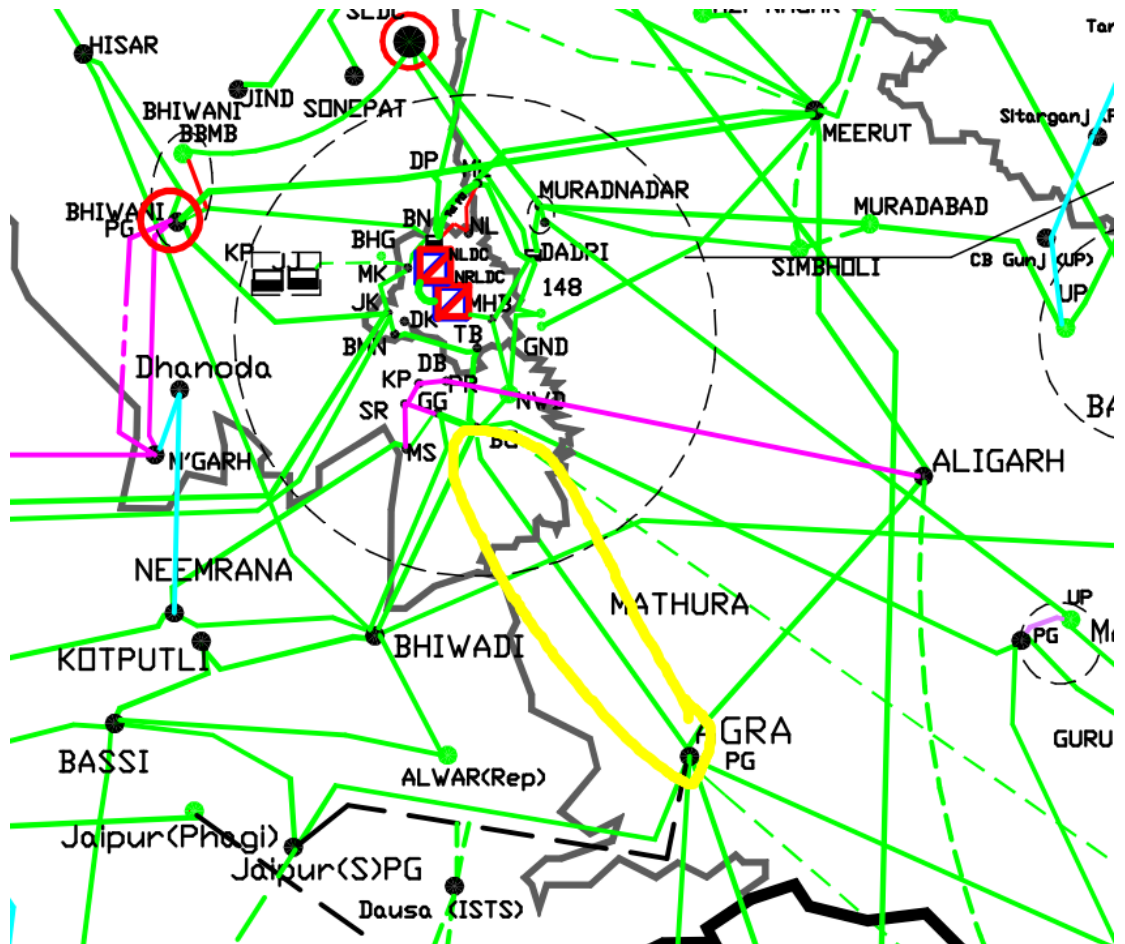
A.8.1 CTU vide mail dtd. 27.09.2022 has submitted proposal as below:

(a) OPGW Replacement on 400kV Agra – Ballabhgarh (Length:181km)

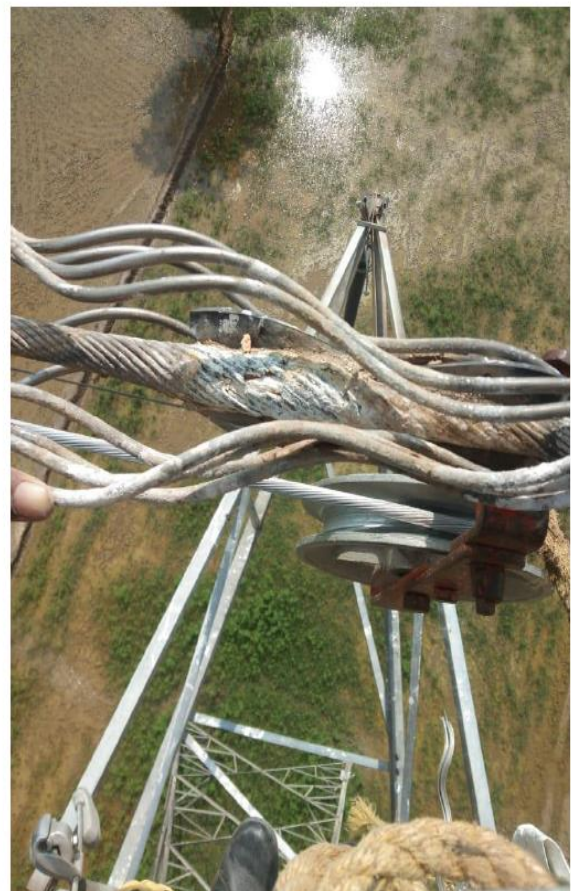
- (i) OPGW on 400kV Agra-Ballabhgarh line is an important ISTS communication link for northern region as well inter-regional data traffic coming from WR, SR, ER, NER to NR onwards to NLDC/NRLDC.
- (ii) OPGW on Agra-Ballabhgarh was commissioned in 2004 & has completed its useful life of 15 years.
- (iii) This line is crossing through industrial corridor in Agra-Mathura-Delhi NCR region. Higher deposition of pollutants/contaminants has caused rusting of OPGW, hardware fittings and vibration dampers.
- (iv) Corrosion of ACS strands of OPGW & hardware fittings has increased the OPGW downtime. Corrosion has also exposed the fiber optic tube to

atmosphere and has reduced tensile strength of OPGW leading to frequent failures. Pictures from site are enclosed for ready reference.

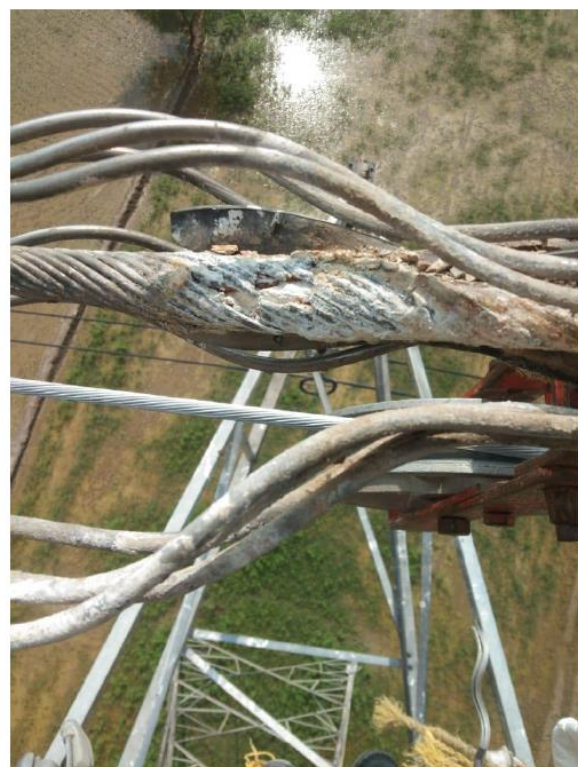
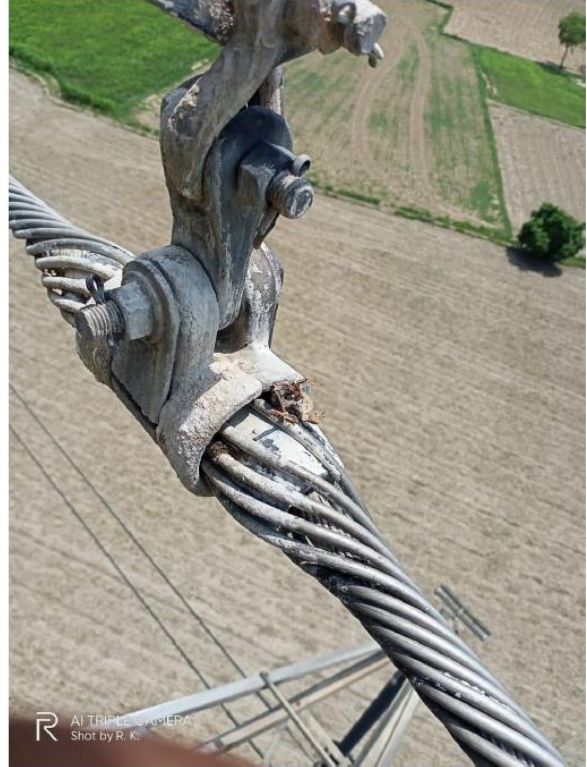
- (v) To maintain availability of Agra-Ballabgarh link. One signal amplifier has also been installed near Mathura section. Link quality is still deteriorating, and any further outage will impact grid management. Further, POWERGRID informed that in every rainy season, water ingress in the aluminum optical tube, resulting outage of OPGW links for longer period (15-20 days) and complete OPGW section needs replacement. They are facing this issue since 3-4 seasons and every time OPGW drum are being replaced for restoration of above critical OPGW link.
- (vi) In view of above constraints, it is proposed to replace the old OPGW on 400kV Agra-Ballabgarh line with new OPGW.



Fault on OPGW Cable in Agra- Ballabhgarh Link



Fault on OPGW Cable in Agra- Ballabgarh Link



(b) OPGW Replacement on 400kV Kishenpur – Wagoora line (Length:183km)

- (i) OPGW on 400kV Kishenpur- Wagoora Line (183km) was commissioned in 2005 & has completed its useful life of 15 years. Design system Attenuation of this link was $\leq 45.91\text{dB}$ whereas attenuation presently is around $\geq 80\text{dB}$. This

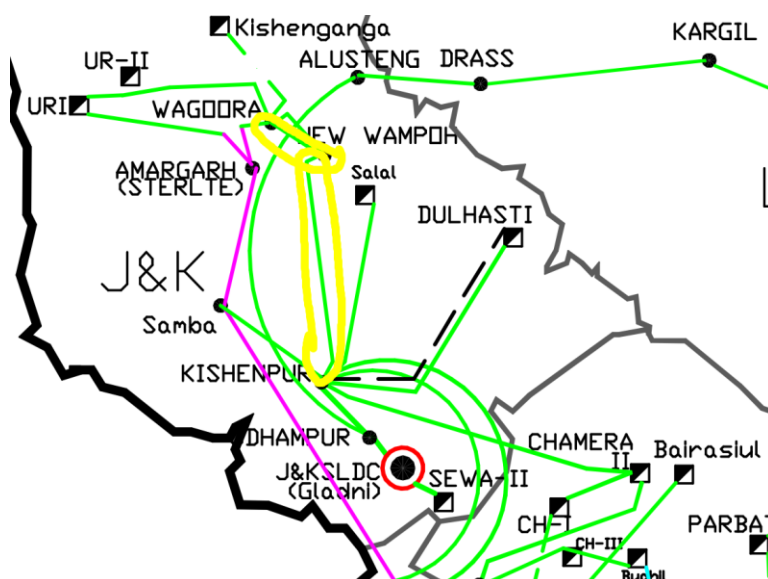
line is further LILoed at New Wanpoh therefore link become Kishenpur-New Wanpoh-Wagoora. OPGW on LILo portion is installed in 2015 (around 3 kms.)

- (ii) Kishenpur-New Wanpoh-Wagoora link provides backbone connectivity to important hydro stations and several sub-station of J&K to SLDC/NRLDC/NLDC such as Uri-1, Uri-2, Kishenganga HEP, Baglihar HEP, Amargarh, Wagoora Ramban, New Wanpoh, Alsuteng-Leh Transmission shall provide connectivity to upcoming SLDC at Ladakh with NRLDC/NLDC.
- (iii) 400kV Kishenpur- New Wanpoh - Wagoora link also serves as backup link to 400kV Kishenpur-New Wanpoh CKT-3 & 4 link. In winters Kishenpur-New Wanpoh experiences heavy snowfall (up to 50mm ice) in some stretches. Rectification works in affected OPGW sections is very difficult as the site is unapproachable due to heavy snowfall in the valley.
- (iv) In view of above constraints and critical nature of the link, it is proposed for replacement of old OPGW on 400kV Kishenpur-Wagoora line with new OPGW except LILo portion at New Wanpoh (3kms.)

A.8.2 Total Cost of OPGW replacement for above two lines mentioned at (a) & (b) (181+183=364km) is estimated to approximately ₹ 18.20 crores.

A.8.3 Replacement of old OPGW on 400kV Agra-Ballabgarh (181km) & 400kV Kishenpur-New Wanpoh-Wagoora line (183km) of POWERGRID was deliberated and approved in 20th NR-TeST meeting and recommended for NRPC approval.

A.8.4 It is proposed to implement OPGW replacement work under any of the ongoing schemes in Northern region such as Reliable Communication Project or NROSS project or any upcoming project.



Members may kindly deliberate

A.9 Redundant communication system for Bhinmal (POWERGRID) & Kankroli (POWERGRID) S/s: Sharing of 3 pair of fibers in existing RVPNL OPGW network, installation of OPGW on Jodhpur (Surpura) – Bhadla (5 kms) (upto LILO point in Jodhpur (Surpura) – Merta section) and additional STM-16 FOTE at intermediate nodes (agenda by CTU)

A.9.1 Bhinmal (PG) station is presently connected with Kankroli and Zerda S/s. However, OPGW on Zerda-Ranchhodpura line is under implementation. From this line second path will be commissioned through WR network.

A.9.2 Presently, Bhinmal & Kankroli substations are not connected on redundant communication paths.

A.9.3 As Bhinmal is also connected with RVPNL power network and OPGW is available on the following RVPNL lines:

- (i) Bhinmal (PG) – Barmer
- (ii) Barmer - Jaisalmer -II
- (iii) Jaisalmer -II – Jodhpur (Kankani)
- (iv) Jodhpur (Kankani) – Jodhpur (Surpura)

A.9.4 For establishing the redundant communication path, 03 pairs of optical fiber from existing OPGW on RVPNL network are to be shared on (a), (b) & (c).

(a) Bhinmal (PG) → Barmer → Jaisalmer-II → Jodhpur (Kankani) → Jodhpur

(Surpura) → Merta → Ratangarh → Sikar

(b) Merta-Beawar- Bhilwara

(c) Merta – Heerapura

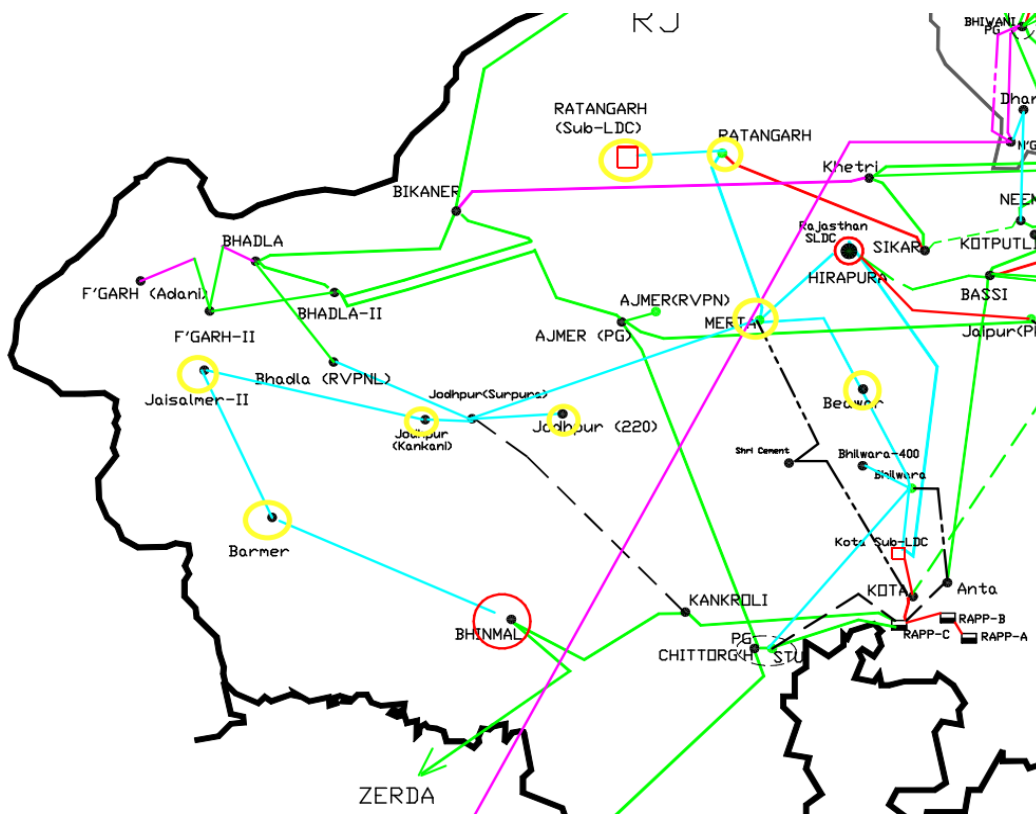
A.9.5 During the 2nd ISTS Communication Planning meeting for Northern Region held on 25.07.2022, it was proposed by CTU to install additional STM-16 FOTE at below mentioned substations. It will also create additional ring protection for NR and WR.

- (i) Barmer
- (ii) Jaisalmer-II
- (iii) Jodhpur (Kankani)
- (iv) Jodhpur 220
- (v) Merta
- (vi) Ratangarh
- (vii) Ratangarh Sub-LDC
- (viii) Beawar

A communication network in this regard is enclosed at **Exhibit-1**.

- A.9.6 It may also be mentioned that OPGW is proposed on the 400kV Kankroli – Jodhpur (Surpura) S/c line alongwith reconductoring work on this line. Agenda for the same has already been sent to NCT after seeking views of NRPC by CTU.
- A.9.7 This will create additional ring protection to important ISTS stations as well as redundant communication path for Kankroli substation and one more protection path to WR network. Additional FOTE mentioned as above shall also be required to create these ring protection and redundant paths through 400kV Kankroli – Jodhpur (Surpura) link.
- A.9.8 RVPNL proposed requirement of OPGW on Jodhpur (Surpura) – Bhadla section (approx. 05 km up to LILO point in Jodhpur (Surpura) – Merta line) for optical connectivity with another node at Bhadla. Further FOTE requirement of at Jodhpur (220) & Ratangarh (SLDC) of RVPNL nodes were requested by RVPNL to be included in the above scheme. Same was deliberated and agreed during the meeting. Cost for 5km of OPGW requirement and above mentioned additional 8 nos. STM-16 Communication Equipment and amplifiers are estimated around ₹ 2.55 Crore.
- A.9.9 Above scheme for Redundant communication system for Bhinmal (POWERGRID) & Kankroli (POWERGRID) S/s was deliberated in 20th NR-TeST meeting and was recommended for NRPC approval.

Exhibit-1





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 (57^{वीं})/2022/9212-9215

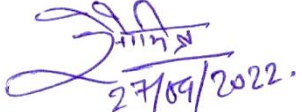
दिनांक: 27.09.2022

सेवा में,

1. COO, CTUIL, August Kranti Marg, Sector 29, Gurugram, Haryana 122001
2. Director (Planning and Commercial), UPPCL, Shakti Bhawan 14 Ashok Marg, Lucknow, Uttar Pradesh, 226001
3. Director (SLDC), UP SLDC, Vibhav Khand, Gomti Nagar, Lucknow, Uttar Pradesh 226010
4. CGM (In charge), NRLDC, 18-A, SJS Marg, Katwaria Sarai, New Delhi - 110016

विषय: Issue of inclusion of LTA quantum for calculation of transmission charges for UPPCL share in UCH Stage-II (132 MW) and UCH Stage-III (66 MW) – reg.

Please find the attached Minutes of Meeting held on 23.09.2022 at NRPC, New Delhi to deliberate on issue of inclusion of LTA quantum for calculation of transmission charges for UPPCL share in UCH Stage-II (132 MW), UCH Stage-III (66 MW).


27/09/2022
(सौमित्र मजूमदार)
अधीक्षण अभियंता

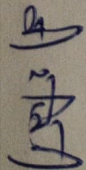
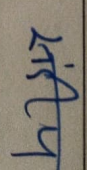
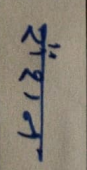
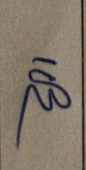
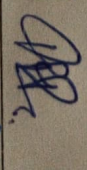
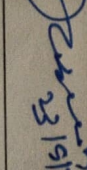
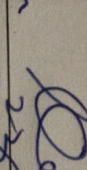
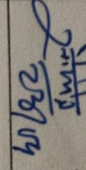
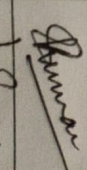
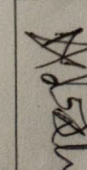
**Minutes of the meeting held on 23.09.2022 for discussing issue of inclusion of
LTA quantum for calculation of transmission charges for UPPCL share in UCH
Stage-II (132 MW), UCH Stage-III (66 MW)**

MS, NRPC welcomed the participants from UPPCL, UPSLDC, CTU and NRLDC.

1. EE (O), NRPC apprised that the issue has already been discussed in NRPC meetings; however, consensus between UP and CTU has not materialized regarding UCH-II, and UCH-III. Hence, as per decision of 57th meeting of NRPC, this meeting is being held to discuss and resolve the issue. He requested UP and CTU to present their studies conducted.
2. CTU presented their study results and apprised members that as per SRPC methodology (endorsed by the central Commission) if STU is meeting all requirements as per transmission planning criteria to evacuate their share, then the quantum may be considered for exemption in the computation of sharing of transmission charges. However, as per latest ATC/TTC all India peak base case, studies have been conducted and it has been found that STU network is not sufficient for evacuation of their share from UCH-II, & UCH-III in N-1 condition (as per the existing transmission planning criteria).
3. UP presented its study results and stated that high loading is due to the load centre at Raebareilly, which has grown over the period. UP mentioned that ISTS system itself is not sufficient to evacuate the ISTS power and UP system is also being utilized for evacuation of ISTS power. UP requested that a study may be conducted by taking out all STU network to check whether ISTS network can evacuate power excluding UP's share.
4. CTU stated that UP's above request for study of power flow by taking out STU network is not in line with SRPC methodology.
5. SE, NRPC highlighted that any deviation from set guidelines i.e., SRPC methodology may need deliberation at NRPC forum level as its repercussions may be at already settled cases in the region and across the country.
6. CTU highlighted that GNA regulation is already set to be implemented soon then such issues will get automatically disappeared.
7. MS, NRPC mentioned that SRPC methodology is a well-settled methodology and the central Commission has also endorsed it. Any deviation from the same, may need thorough scrutiny.
8. After deliberation, following was concluded:
 - i. As per SRPC methodology, UP's request for exemption in transmission charges in case of UCH-II, & UCH-III is not tenable as STU network is not sufficient to evacuate its share.
 - ii. As per UP's request, SRPC methodology may be scrutinized at NRPC forum level.

List of participants for the meeting to discuss regarding Issue of inclusion of LTA quantum for calculation of transmission charges for UPPCL share in UCH Stage-II (132 MW) and UCH Stage-III (66 MW).

Date: 23.09.2022

Sl No	Name	Designation	Organization	Tel. No. / Mobile No.	E-mail	Signature
1	Hari Sahu Verada	manager	CTU	9303090819	haris.verada@powergrid.in	
2	Sandeep Kumar	Ch. Ingr	CTU	9650293192	sandeepk@powergrid.in	
3	Roushan Kumar	Engineers	CTU	754607539	roushan.k@powergrid.in	
4	Kashish Bhambhani	GM	CTU	9971899117	kashish@powergrid.in	
5	Kaushik Paulitara	AEE	NRPC	9869081439	kaushik.paulitara@gov.in	
6	Rakesh Pandey	XEN/04	NRPC	9211807447	pandeyr.ce@gov.in	
7	Narek Bhambhani	MS	NRPC	9889081445	narek.bhambhani@gmail.com	
8	S. Mazumdar	SE	NRPC	9829481936	seo-nprc@nic.in	
9	Satyendra Kumar	EE	UPPTCL	9415902886	sethpes@gmail.com	
10	Mohini Khan	AE	UPSLDC	8004949277	bea@upslc.org	

Sl No	Name	Designation	Organization	Tel. No. / Mobile No.	E-mail	Signature
11	Alok Meherota	S.E.	UPPC	9415099257	seejfelro@gmail.com	Alok 23/01/22
12	S. C. Joshi	SE	UPPC	945230188	spadvide2010@gmail.com	SC
13	Alok Kumar	GM	NREDC	999903331	alok.kumar@pssc.co.in	Alok
14	P. Karthik	GM	NREDC	8527568957	P.karthik@pssc.co.in	P.Karthik
15	Gaurav Singh	M	NREDC	901519422	gauravsingh@pssc.co.in	G
16						
17						
18						
19						
20						
21						
22						

single part tariff. He requested NPCIL to elaborate if there is any methodology being followed by NPCIL for deriving the capacity charges from the tariff of their generators. If there is no such methodology available, a technical sub-group may be formed to find out the capacity charges from NPCIL generators. The same methodology may be recommended to NPCIL for the purpose of passing on the rebate to Discoms by NPCIL stations.

ii. ***It was noted that there is no representation from NPCIL in the meeting.***

iii. SRPC noted that the reply from NPCIL for the letters addressed by MS, SRPC and TANGEDCO in this regard is awaited.

4.9 Decision/Recommendation

NPCIL to expedite the matter of passing on rebate to DISCOMs as announced by Government of India.

C.5 Issues Regarding Calculation of Inter State Transmission Charges for TANGEDCO by NLDC

- 5.1 Central Transmission Utility of India Limited (CTUIL) vide letter dated 24th September 2021 had intimated that they were in receipt of letter from MoP dated 17.09.2021 enclosing D.O letter dated 21.08.2021 from TANGEDCO regarding computation of ISTS charges for TANGEDCO by NLDC and requested that a special SRPC meeting may be convened to deliberate on the issues raised by TANGEDCO with respect to MAPS, NLC TS- II, Kudankulam NPP and NTECL Vallur. In this regard, a copy of CMD, TANGEDCO letter dated 07.10.2021 with request to convene a meeting with all stakeholders had been received.
- 5.2 A Special Meeting of TCC was held on 18th October 2021 through VC to discuss on the issues raised by TANGEDCO w.r.t. sharing of ISTS charges/computation of LTA of the central generating stations located in Tamil Nadu (MoM is at **Annexure- C.5.2**) wherein it was decided that a Sub-Group would be formed under SRPC Secretariat with representatives from CTUIL, NLDC, SRLDC and SLDCs of SR to formulate an Objective Methodology/ General Philosophy to be adopted for determining LTA/MTOA corresponding to capacity connected to ISTS in case of Generating Stations connected to both ISTS and intra-State transmission system and submit its recommendations to TCC within one month.
- 5.3 Accordingly, a Sub-Group (*LTA-Sub Group*) comprising the Members from CTUIL, NLDC, SRLDC and SLDCs/STUs of Southern Region has been constituted. So far, LTA-Sub Group has conducted one meeting and a joint study meeting.
- 5.4 Second meeting of the LTA Sub Group for formulating an objective methodology to be adopted for determining Long Term Access and Medium Term Open Access corresponding to capacity connected to ISTS in case of Generating Stations connected to both ISTS and intra-State transmission system (for which LTA was not granted by the CTU) was held on 22.11.2021 through VC. Record Notes of the Meeting is at **Annexure-C.5.4**.

5.5 Recommendation of the LTA Sub-Group:

a) Following methodology was agreed in principle by the Sub-Group for ascertaining the adequacy of intra-STU Network to evacuate their share from a GS connected to both STU system & ISTS:

- i) The intra-STU network planned and implemented at the time of commissioning of the concerned Central Generating Station (CGS) only to be considered.
- ii) ISTS Network connected to CGS may be taken out of service and CGS may be left connected with intra-state transmission system (STU network) of home state. If the home state STU system is meeting the all the criteria as per the transmission planning criteria to evacuate their share, then that quantum may be considered for exemption in the computation of sharing of transmission charges.
- iii) Latest ATC/TTC All India Peak Base Case may be used for this purpose.
- iv) Ex-Bus Firm + Un-allocated quantum of the beneficiaries (i.e., 100% of CGS net capacity) to be considered to evaluate whether the home state STU system is capable of evacuating their share.

However, TANGEDCO has expressed the concern on considering only the originally approved transmission system and opined that it may be appropriate to consider the present Intra-State Transmission system connected to the Generating Station for evaluation of the capacity to be evacuated through Intra-State Transmission system for LTA exemption.

b) Following Generating Stations of SR connected to both ISTS and intra-State Transmission System have been considered and concluded as below:

SN	Generating Station	Observation	Conclusion/ Recommendation
1.	NTPC Kudgi STPS	LTA was granted by CTU	These Generating Stations have not been considered by the Sub-Group for ascertaining the adequacy of intra-STU Network to evacuate their share from GS.
2	Neyveli New Thermal Power Station (NNTPS)	LTA was granted by CTU	
3	NTPC Simhadri STPS Stage I	CERC vide Order 30.03.2017 in Petition No. 291/MP/2015 has exempted LTA.	
4	UPCL	LTA was granted by CTU	
5	NTPC Ramagundam STPS Stage I & II	In line with the agreed methodology, TSTRANSCO system is capable of evacuating Telangana share.	LTA may be exempted for Telangana for the quantum of its share from Ramagundam STPS Stage-I & II.
6	NTPC Ramagundam STPS Stage III	RSTPS Stage III was planned to evacuate fully through the ISTS.	LTA exemption may not be considered .

7	NLC TPS II Stage I	In line with the agreed methodology, TANTRANSCO system is capable of evacuating Tamil Nadu share.	LTA may be exempted for Tamil Nadu for the quantum of its share from NLC TPS II Stage I.
8	NLC TPS II Stage II	<ul style="list-style-type: none"> ✓ 400kV lines were identified for evacuation of power from NLC TPS II Stage II. ✓ However, TANGEDCO submitted that the entire Tamil Nadu share from NLC TPS II Stage I & Stage II can be evacuated through their intra-state transmission system. 	LTA exemption for Tamil Nadu may not be considered .
9	NTECL, Vallur TPS	<p>There was divergence of views as below:</p> <p>TANGEDCO: The interconnecting line (400 kV Vallur TPS – NCTPS St II D/c line) was considered for evacuation of power from NTECL as well as the reliability.</p> <p>CTUIL: The interconnecting line was planned as the ATS of NCTPS St-II and not in the evacuation scheme of NTECL Vallur TPS.</p>	Case may be considered by TCC/SRPC.
10	NPCIL, KKNPP	KKNPP was planned to be evacuated fully through the ISTS.	LTA exemption for Tamil Nadu may not be considered .
11	NPCIL, Kaiga GS Stage-I & II	400 kV ISTS were planned for evacuation of both the stages and no intra-State transmission system was considered for evacuation.	LTA exemption for Karnataka may not be considered .

c) NPCIL MAPS Kalpakkam: Case may be considered by TCC/SRPC.

5.6 TCC Deliberation:

- i. SRPC secretariat informed that the Sub-Group has finalized the methodology for ascertaining the adequacy of intra-STU Network to evacuate their share from Generating Station (CGS) connected to both STU system & ISTS. Sub-Group has analysed all the generating stations connected to both ISTS and STU network which fall under Regulation 13 (11) of CERC Sharing Regulations 2020 (where LTA has not been granted by CTUIL) based on the agreed methodology. After analysis and studies, the Sub-Group concluded that LTA may be exempted for Telangana for the quantum of its share from Ramagundam STPS Stage-I & II, and for Tamil Nadu for the quantum of its share from

NLC TPS II Stage-I. In case of NTECL Vallur TPS, Sub-Group could not conclude due to divergence of views by members in respect of 400 kV Vallur TPS – NCTPS St II D/c interconnecting line as to whether the said line has been planned under evacuation system of Vallur TPS or NCTPS St-II and recommended that the case of NTECL Vallur TPS would be put up to TCC for conclusion. MAPS, Kalpakkam was also not considered by the Sub-group since MAPS is connected to only STU network (TANTRANSO) and no ISTS is being used for evacuation. Hence MAPS case was also recommended to be put up to TCC.

SRPC Secretariat further informed that in the third CERC interaction meeting with RPCs held on 17.11.2021, CERC had stated that a Committee at national level comprising members from NLDC/POSOCO, CTUIL, RPCs etc. would be formed to address the issues raised by the stake holders in respect of Sharing Regulations 2020.

- ii. TANGEDCO stated that as per the MoM of the Standing Committee for Power System Planning in SR (SCPSPSR), 400 kV Vallur TPS - NCTPS II D/c line would also be used for evacuation from NTECL Vallur TPS and 50% of the transmission charges for this line would be pooled in the SR pool. Hence it may be treated as part of the evacuation system of NTECL Vallur TPS. As per the CERC Sharing Regulations 2020, ISTS transmission charges of the states majorly depend on the LTA quantum, hence it is requested that LTA quantum of TN share from NTECL Vallur TPS shall be exempted by considering the Vallur TPS - NCTPS II D/c line as evacuation system of NTECL Vallur TPS.
- iii. SRPC secretariat stated that generic issue of the treatment to be given for the Cases where a generator is connected to both STU System and ISTS system has been dealt with by CERC in its Order dated 09.03.2018 in Petition no. 20/MP/2017. However, it was also understood from the Order that the treatment is meant for the cases where LTA has been granted by CTU. It was also noted that from various related CERC orders that the STU network to be considered for ascertaining adequacy of evacuation is the originally planned network. This was also brought out quite clearly vide CERC Order dated 04.05.2018 in Petition No. 126/MP/2017 in Jhajjar TPS Case - which is a CGS having no LTA in place, but connected to both ISTS and intra-STS, and its case has been dealt with by applying the above generic treatment.
- iv. CTUIL informed that NTECL Vallur TPS transmission system came in two parts - one for 2x500 MW, and the other for 1 x 500 MW as expansion. For 2 x500 MW Vallur TPS, the transmission system had been approved in the 24th SCPSPSR wherein LILO of 400 kV Almathy- Sriperumbudur D/c line at Vallur TPS was agreed. For the third 500 MW unit, a supplementary transmission scheme had been deliberated in the 25th, 26th & 27th meetings of SCPSPSR. In the 26th SCPSPSR, GM, NTPC had suggested that the two projects Vallur TPS & NCTPS St-II might be interconnected by 400 kV D/c line for reliability purpose. It was decided that PGCIL would built the said line and agreed that transmission charges would be shared between NTECL and TNEB in the ratio of 50:50. However, the transmission schemes for NTECL Vallur TPS (400 kV Vallur- Almathi D/c line, 400 kV Vallur- Melakottaiyur D/c line & 400 kV Tiruvalam- Chittor D/c quad line)

was finalized in the 27th SCSPSR. In the same meeting, the transmission system for NCTPS St-II was finalized in which 400 kV Vallur TPS - NCTPS II D/c inter connecting line had been identified as a part of ATS for North Chennai TPS-II. It was decided that this line would be built and owned by TNEB. As this line is also to be used for evacuation and reliability of Vallur TPS, 50% of the transmission charges for this line would be pooled in the SR pool and paid to TNEB. In view of the above, CTU is of the opinion that NTECL Vallur TPS does not qualify for LTA exemption under Regulation 13 (11) of Sharing Regulations 2020.

CTUIL stated that there has to be a standard methodology which could be applied on pan-India basis. It would lead to complications if diversions are taken from the standard methodology for specific generator cases. LTA Sub-Group has finalized the methodology which has also been agreed to by SR constituents and the same can be applied on pan India basis. CTU has had discussion about this methodology internally and also interacted with CERC staff. CTU informed that the methodology is in agreement by all and felt that this would be implemented on Pan-India basis as a standard methodology for ascertaining the adequacy of intra-STU Network to evacuate their share from a GS connected to both STU system & ISTS.

CTUIL also stated that MAPS is a state embedded Central Generating Station which does not fall under Regulation 13(11) and hence TCC may take a call in MAPS case.

- v. After deliberation, TCC agreed that NTECL Vallur TPS may not be considered under Regulation 13(11) of sharing Regulations 2020 for exemption of LTA. TANGEDCO may approach CERC for the relief as envisaged in the MoM of Standing Committee. It was also decided that the findings/ suggestions of TCC/ SRPC, along with the recommendations of the LTA Sub-Group w.r.t. CGS/ ISGS in SR would be submitted to NLDC & CTU for consideration and to the Committee to be formed by CERC at National level.
- vi. APTRANSCO informed that they are agreeable to the recommendations of the LTA Sub-Group/ TCC decisions and the same may be put up to NLDC/ CTU/ CERC for implementation.
- vii. TSTRANSCO informed that they are also agreeable to the Sub-Group Recommendations/ TCC decisions.
- viii. Director (Generation-Electrical), KSEBL stated that they have apprehensions in this regard as LTA exemption to states needs to be finalized by CERC. The recommendations of the Sub-Group may not be concluded and as decided the same may be submitted to CERC committee being constituted at national level to deliberate on various issues in respect of CERC Sharing Regulations 2020. They would like to submit their views to CERC Committee.
- ix. PCKL informed that regarding UPCL, a petition in APTEL had been filed by them in the regime of CERC Sharing Regulations 2010 and is pending. PCKL requested to consider the case of UPCL as per the present Regulations, i.e., Sharing Regulations 2020. LTA

Sub-Group was also requested to consider UPCL case under Regulation 13(11). In case of Kaiga GS & Kudgi STPS, KPTCL would submit the issues.

- x. SRPC secretariat clarified that UPCL & Kudgi STPS were not considered by the LTA Sub-Group since the LTA for both UPCL and Kudgi STPS was granted by CTU. LTA Sub-Group did not consider the Generating Stations for analysis where LTA had been granted to them by CTU. Kaiga GS was not eligible for LTA exemption as per the agreed methodology (400 kV ISTS system has been planned for evacuation of both the stages of Kaiga GS and no intra-State transmission system has been considered for evacuation). In case of any apprehension in this regard, PCKL may take up the issue appropriately.
- xi. Superintending Engineer-cum-HOD, Puducherry ED informed that they are in agreement with the recommendations of the LTA Sub-Group/ TCC decisions.
- xii. TANGEDCO stated that in case of MAPS, no ISTS is connected and its evacuation is through only TN STU network. MAPS case is similar to Simhadri Stage-I for which CERC has exempted LTA for Andhra Pradesh through specific Order. In the CERC Order dated 09.03.2018 in Petition no. 20/MP/2017, CERC has clearly come out with the procedure to be followed for such cases. There is no question of deemed LTA. TANGEDCO requested the forum to recommend the LTA exemption for Tamil Nadu for its share from MAPS to NLDC/ CERC along with the other recommendations of the LTA Sub-Group.
- xiii. SRPC secretariat pointed out that there may be similarly placed generators like MAPS, but there are also specific CERC Orders like that in case of Simhadri St-I. Further, CERC had not mentioned about the generic treatment to be given for the cases where the generating stations are exclusively connected with intra-STS network. Hence TANGEDCO may approach CERC for LTA exemption in case of MAPS.
- xiv. MS, SRPC stated that since TANTRANSCO lines are used for evacuation of CGS (i.e MAPS), Tamil Nadu may approach CERC with a petition for considering these lines as deemed ISTS lines so that the transmission charges for these line can be claimed by Tamil Nadu from the pool.
- xv. TANGEDCO reiterated that MAPS case is similar to Simhadri St-I case and there should not be different treatment for similarly placed generators. Hence it was requested to consider LTA exemption for MAPS in line with the CERC Order of LTA exemption for Simhadri St-I (CERC Order dated 30.03.2017 in Petition No. 291/MP/2015) since Sharing Regulations 2020 do not mandate any specific Order from CERC. If there is any issue with the implementation of the Regulations, Implementing Agency shall take up with CERC for clarification. When LTA is exempted for the quantum of power being drawn through intra-State transmission system as per the Regulation, LTA shall also be excluded for the power being drawn exclusively through intra-State Transmission system in case of MAPS.
- xvi. MS, SRPC suggested that MAPS case may be taken up with NLDC by SRPC to consider LTA exemption of Tamil Nadu in line with the CERC orders of similarly placed generators.

- xvii. CTUIL informed that TANGEDCO is holding around Rs 45 Crores every month on the bills raised by CTU as per Regional Transmission Account (RTA). CTU requested TANGEDCO to release the payments since the issue may take more time for resolution. RTAs would be revised subsequent to the resolution of these issues and the same would be credited to TANGEDCO. Surcharge is getting accumulated on TANGEDCO due to withholding of the payments.
- xviii. Director (Generation-Electrical), KSEBL stated that they would study the financial impact on KSEBL w.r.t. exemption of LTA for Tamil Nadu in case of MAPS and revert back.

5.7 TCC Recommendations

- i. The findings/ suggestions of TCC/ SRPC along with the recommendations of the LTA Sub-Group w.r.t. CGS/ ISGS in SR would be submitted to the Committee to be formed by CERC at National level.
- ii. MS, SRPC to address a letter to Implementing Agency (NLDC) and CTUIL conveying the recommendations of the LTA Sub-Group/ TCC decisions for consideration. NLDC may also be requested to consider LTA exemption of Tamil Nadu for its share from MAPS in line with the CERC orders of similarly placed generators.

5.8 SRPC Deliberation

- i. NLDC informed that they had taken up the matter with CERC on the concerns of TANGEDCO long back in 2018 and had again taken up with CERC on receipt of the letter from TANGEDCO in March 2021. CERC replied vide letter dated 11.08.2021 stating that TANGEDCO may approach CERC if the issue is not resolved after taking up with CTU and the same has been conveyed to TANGEDCO. It is not a regional issue, it is a national issue and SRPC is not the forum to take decision in this matter. Even if this forum takes a decision, implementing agency is not in a position to implement the same unless approved by the Commission since it would impact all other DICs at National level. Hence NLDC requested TANGEDCO to kindly take up the matter with CERC through a petition.
- ii. Chairperson, SRPC & CMD, TANGEDCO expressed concern on the NLDC remarks. All the issues need not be required to be taken up with CERC through petition and some issues can be resolved in the RPC forums, for which purpose also they are meant for. If the Implementing Agency implemented the Regulations incorrectly due to misinterpretation of the Regulations and CTUIL was billing accordingly, states are not in a position to pay the same. Those errors needed to be corrected after arriving consensus in the Regional forums. Ramagundam Stage-I & II and NLC TS II Stage-I /MAPS cases are crystal clear, and require LTA exemption for Telangana and Tamil Nadu respectively. NLDC and CTU should come forward and correct the errors made by them.
- iii. SRPC secretariat informed that based on the CERC letter, TANGEDCO had taken up the matter with CTUIL for exemption of LTA for certain CGS. Subsequently, CTUIL has

requested SRPC to conduct a special SRPC meeting in this regard. Accordingly, a special TCC meeting was held on 18.10.2021 wherein it was decided to constitute a Sub-Group to formulate an Objective Methodology/ General Philosophy to be adopted for determining LTA/MTOA corresponding to capacity connected to ISTS in case of Generating Stations connected to both ISTS and intra-State transmission system. In the meeting, SRPC Secretariat remarked that since the issue is having ramifications at national level, the issue may be better be addressed by CTU & NLDC at national level by involving representatives from all regions. However, considering the CTU's opinion that since the methodology to be finalized is a generic one, and it can be better discussed in a forum with active contribution from the members such as in SR, TCC recommended for forming the above Sub-Group. Hence, NLDC shall not see the constitution of the Sub-Group and its recommendations as an attempt made in isolation, but as part of the process that has been initiated in pursuance of CERC letter dated 11.08.2021. In the 3rd CERC interaction meeting with RPCs held on 17.11.2021, Commission was apprised about the Sub-Group constituted in SR. CERC taking cognizance of the same, had asked to continue with the work, and the Sub-Group's findings could be suitably considered by the national level committee, which they are proposing to constitute to address the issues in respect of Sharing Regulations 2020.

- iv. MS, SRPC stated that the issue needs to be addressed, and corrected by the Implementing Agency immediately. He would address a letter to NLDC & CTUIL conveying the recommendations/ findings of LTA Sub-Group and the decisions of TCC/ SRPC with a copy to Chairperson, SRPC & Secretary, CERC.
- v. CTUIL stated that as informed in earlier meetings that they had a difficulty in converting Central Generating Stations (CGS) allocation into LTA to be apportioned between ISTS & STU system for the home state. There is no procedure for the same. The LTA details of states for CGS/ ISGS where CTU has granted LTA is being shared to Implementing Agency and are billed based on the information available with CTU. In SR, a methodology has been evolved and the same would be followed by CTU, if approved. CTUIL has taken the views of experts in this regard and the general opinion was that Intra-State Transmission system at the time of planning the evacuation system for the CGS may be considered for working out LTA exemption to be given to the home state.
- vi. Managing Director, PCKL stated that by giving LTA exemption to TANGEDCO, Karnataka would be burdened with around Rs. 40 crores per month towards the ISTS transmission charges. Hence TANGEDCO may approach CERC for LTA exemption. PCKL requested that similar to the recommendation of LTA exemption to Tamil Nadu & Telangana, UPCL case shall also be recommended by SRPC for LTA exemption under Regulation 13 (11) of Sharing Regulations.
- vii. CMD, TANGEDCO pointed out that the total savings for Tamil Nadu if LTA is exempted, works out to be around Rs. 20 crores per month and the same would be shared among all the DICs at National level. The impact on each DIC will be minor and hence the

impact of Rs. 40 crores per month on Karnataka needs a relook. He stated that the impact shall not be viewed independently when there is an agreement in line with the intent/ principle of the Regulations. In one case, PGCIL wanted to make a huge investment on one transmission scheme, and TANGEDCO only objected it and brought down the investment to the level of Rs. 1500 Crores. Karnataka has benefited hugely in that case along with other SR states.

- viii. KSEBL stated that they were not acceptable to the recommendations in respect of LTA exemptions to the states since there would be huge impact on Kerala towards the transmission charges. Concerned states may approach CERC for LTA exemption.
- ix. ED, NLDC opined that a letter from Ms, SRPC may addressed to CERC with a copy to NLDC since NLDC had already taken up with CERC the case in respect of 29 nos of generators.
- x. CMD, TANGEDCO pointed out if NLDC is not agreeable to the recommendations of the forum in line with the principles of the Regulations, NLDC/ CTU shall at least exempt / stop billing the disputed amounts till the decision of CERC. After the CERC decision, NLDC/CTU can charge the same, if required.
- xi. ED, NLDC stated the being a computation authority and implementing agency, they cannot exempt any charges to anybody unless there are specific CERC Orders. The same was clarified in earlier SRPC meetings also; a clarification/ Order from CERC is required to resolve the issue of all the 29 such cases.
- xii. MS, SRPC opined that the Sharing Regulations 2020 have been under implementation w.e.f November 2020 only, and if there are any issues in implementation, such issued needed to be addressed to NLDC only. NLDC in the capacity of Implementing Agency of the Sharing Regulations may in turn seek clarification from CERC. It is not required to file petition in CERC since the origin of issue lies in the proper interpretation of Regulations.
- xiii. ED, NLDC agreed to take up the case with CERC after receipt of the request letter from SRPC, and assured that they would seek clarification from CERC. Once the clarification is received from CERC, the same would be implemented by NLDC.
- xiv. CTUIL informed that TANGEDCO is holding around Rs. 45 Crores every month on the bills raised by CTU towards transmission charges. Already around Rs. 200 Crores had been withheld by TANGEDCO. CTU requested TANGEDCO to clear the payments since the issue may take more time for resolution. Surcharge is also getting accumulated on TANGEDCO. RTAs would be revised subsequent to the resolution of these issues and the same would be credited to TANGEDCO in the following month.
- xv. CMD, TANGEDCO said that they were withholding certain amounts due to unfair billing. He stated that MAPS and NLC TS II are clear cases for exemption of deemed LTA, hence they would continue to hold the payments for the same. However they would consider releasing payments for other two cases of NTECL Vallur TPS and NPCIL KKNPP based on the deliberations of this meeting.

5.9 Decision/ Recommendation

- i) The findings/ suggestions of TCC/ SRPC along with the recommendations of the LTA Sub-Group w.r.t. CGS/ ISGS in SR would be submitted to the Committee to be formed by CERC at National level.
- ii) MS, SRPC to address a letter to Implementing Agency (NLDC) and CTUIL conveying the recommendations of the LTA Sub-Group and TCC/ SRPC decisions for consideration. NLDC may also be requested to consider LTA exemption of Tamil Nadu for its share from MAPS in line with the CERC orders of similarly placed generators.
- iii) NLDC to seek the clarification from CERC on the request/ recommendations of SRPC.

C.6 KSEBL Agenda Items for Update

Proposed by: KSEBL vide letter dated 22.07.2021(*refer Annexure-O.19.1*)

6.1 DAE Tariff notification of Kudankulam Station

6.1.1 The Department of Atomic Energy (DAE) has not released the tariff notification of Kudankulam Nuclear Power Plant of NPCIL. The bills are being raised with provisional tariff, as per Clause 7.4 of the PPA. Hence the supplementary bills such as tax on Return on Equity due to revision of tax rate etc. could not be admitted.

6.1.2 In 39th TCC Meeting held on 22.12.2020, NPCIL had stated that the concern of KSEBL would be taken up appropriately for the needful.

6.1.3 TCC Deliberation:

NPCIL informed that they have referred the matter to their Finance department to do the needful.

SRPC Noted the above

6.2 Transmission charges / sharing related issues

Background:

a) Subsequent to 37th Meeting of SRPC (01.02.2020), Chairperson, SRPC vide letter dated 02.06.2020 had taken up the issue with Secretary(P) to declare Raigarh (Chhatisgarh)-Pugalur (TN) HVDC & Pugalur (TN) – Trissur (KER) HVDC system as national and strategic projects and the cost could be shared by all the DICs.

b) In 37th meeting of TCC (28.10.2020), the forum had agreed in principle for declaring the whole assets of Raigarh (Chhatisgarh)-Pugalur (TN) HVDC & Pugalur (TN) – Trissur (KER) HVDC system as national and strategic projects/components and accordingly CERC may be approached.

c) In 38th Meeting of TCC (22.12.2020), all the states had requested CTU to come up with action plan for beneficial utilization of the corridor without any additional investment for