

भारत सरकार Government of India विद्युत मंत्रालय Ministry of Power **पूर्वी क्षेत्रीय विद्युत समिति** 

Eastern Regional Power Committee

14, गोल्फ क्लब रोड, टालीगंज, कोलकाता-700033

14 Golf Club Road, Tollygunj, Kolkata-700033





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No. ERPC/TCC& ERPC/2022/1167

Date: 12/12/2022

To:

As per List

Sub: Minutes of 47th ERPC Meeting held on 25.11.2022 at Kolkata-reg

Sir/Madam,

The minutes of 47<sup>th</sup> ERPCC Meeting held on 25.11.2022(Friday) at Hotel Taj City Centre, Kolkata has been issued and uploaded on ERPC Website(<u>www.erpc.gov.in</u>). As per the decision of ERPC, distribution of the hard copies of the minutes of the meeting has been discontinued as Go-green initiative.

Encl:As above

Yours faithfully, 00

(N.S. Mondal) Member Secretary

#### **Distribution: ERPC Members**

- 1. Chairperson, ERPC & Chairman-cum-Managing Director, Jharkhand Urja Vikas Nigam Limited, Engineering Building, HEC, Dhurwa, Ranchi-834004.
- 2. Chairman-cum-Managing Director, Jharkhand Urja Utpadan Nigam Limited, Engineering Building, HEC, Dhurwa, Ranchi-834004.
- 3. Managing Director, Jharkhand Urja Sancharan Nigam Limited, Engineering Building, HEC, Dhurwa, Ranchi-834004.
- 4. Managing Director, Jharkhand Bijli Vitaran Nigam Limited, Engineering Building, HEC, Dhurwa, Ranchi-834004.
- 5. Managing Director, Tenughat Vidyut Nigam Ltd., Hinoo, Doranda, Ranchi-834002
- 6. Chairman-cum- Managing Director, Bihar State Power Holding Company Ltd., Vidyut Bhavan, Bailey Road, Patna-800001.
- 7. Managing Director, Bihar State Power Transmission Company Limited, Vidyut Bhavan, Bailey Road, Patna- 800001.
- 8. Managing Director, South Bihar Power Distribution Company Limited, Vidyut Bhavan, Bailey Road, Patna- 800001.
- Chairman & Managing Director, West Bengal State Electricity Distribution Company Ltd., Vidyut Bhavan, 7<sup>th</sup> Floor, Block-DJ, Sector-II, Bidhannagar, Kolkata-700091.
- 10. Managing Director, West Bengal State Electricity Transmission Company Ltd., Vidyut Bhavan, 8<sup>th</sup> Floor, Block- DJ, Sector-II, Bidhannagar, Kolkata-700091.
- 11. Chairman & Managing Director, West Bengal Power Development Corporation Ltd., Bidyut Unnayan Bhavan, 3/C, Block LA, Sector-III, Bidhannagar, Kolkata-700098.
- 12. Managing Director, Durgapur Projects Ltd., Administrative Building, Durgapur-713201, West Bengal.
- 13. Principal Chief Engineer-cum-Secretary, Energy & Power Department, Govt. of Sikkim, Kazi Road, Gangtok 737101, Sikkim.
- 14. Chairman-cum-Managing Director, Odisha Power Transmission Corporation Ltd., Janpath, Bhubaneswar-751022.
- 15. Chairman, GRIDCO Ltd., Janpath, Bhubaneshwar-751022.
- 16. Chairman-cum-Managing Director, OHPC Ltd., Orissa State Police Housing & Welfare Corporation Bldg. Vanivihar, Janpath, Bhubaneswar- 751022.
- 17. Managing Director, OPGC Ltd., Zone-A, 7<sup>th</sup> Floor, Fortune Towers, Chandrasekharpur, Bhubaneswar-751023.
- 18. Chairman, Damodar Valley Corporation, DVC Towers, VIP Road, Kolkata -700054.
- 19. Member (GO&D), Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
- 20. Director (Commercial), NTPC Ltd., Core-7, SCOPE Complex, Lodhi Road, New Delhi -110003.
- 21. Director (Technical), NHPC Ltd., NHPC Office Complex, Sector-33, Faridabad, Haryana-121003.
- 22. Director (Operations), Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon-122001.
- 23. COO, CTUIL, Saudamini, 1st Floor, Plot-1, Sector-29, Gurgaon-122001
- 24. Executive Director, ERLDC, POSOCO, 14 Golf Club Road, Tollygunge, Kolkata 700033.
- 25. Chairman-cum- Managing Director, POSOCO, B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110016
- 26. Director (C&O), PTC India Ltd., 2nd floor, NBCC Tower, 15 Bhikaji Cama Place, New Delhi- 110066.
- 27. Chief Executive Officer, NTPC Vidyut Vyapar Nigam Limited, SCOPE Complex, Core-3, 7th Floor, Lodhi Road, New Delhi-110003.
- Managing Director, Tata Power Trading Company Limited, B12/13, 2nd Floor, Shatabdi Bhavan, Sector-4, Noida-201301, Uttar Pradesh.
- 29. Managing Director (Generation), CESC Ltd., CESC House, 1 Chowringhee Square, Kolkata- 700001.
- 30. Chief Executive Officer, Maithon Power Ltd., Village-Dambhui, P.O. Barbindia, Dist.-Dhanbad, Jharkhand- 828205.
- 31. VP(Plant Head), GMR Kamalanga Energy Ltd., AT/PO-Kamalanga, PS-Kantabania, Via- Meramundali, Dist.- Dhenkanal, Odisha-759121.
- 32. Chief Executive Officer, Jindal India Thermal Power Limited, Plot No-12, Sector-B1, Local Shopping Complex, Vasant Kunj, New Delhi-110070.
- 33. Managing Director, Teesta Urja Limited, 2nd Floor, Vijaya Building, 17 Barakhamba Road, New Delhi-110001.
- 34. CEO, Alipurdar Transmission Limited, 101, Part-III, G.I.D.C Estate, Gandhinagar, Gujrat-382028
- 35.CEO, BRBCL, Nabinagar, Dist- Aurangabad, Bihar-82430
- 36. Head (Procurement & Sale), IPCL, Salt Lake, Kolkata-700091
- 37. Managing Director (Generation), Haldia Energy Limited

#### **Distribution: TCC Members**

- 1. Chairperson, TCC & Managing Director, Jharkhand Urja Sancharan Nigam Limited, Engineering Building, HEC, Dhurwa, Ranchi-834004.
- Executive Director (Tech),, Jharkhand Urja Utpadan Nigam Limited, Engineering Building, HEC, Dhurwa, Ranchi-834004.
- 3. Director (Project), Jharkhand Urja Sancharan Nigam Limited, Engineering Building, HEC, Dhurwa, Ranchi-834004.
- 4. Chief Engineer (S&D-JBVNL), Jharkhand Urja Vikas Nigam Limited, Engineering Building, HEC, Dhurwa, Ranchi-834004.
- 5. Chief Engineer (S&D), Jharkhand Bijli Vitaran Nigam Limited, Engineering Building, HEC, Dhurwa, Ranchi-834004.
- 6. General Manager, Tenughat TPS, Lalpania, Dist-Bokaro, Jharkhand-829149.
- 7. Director (Tech.), Bihar State Power Generation Company Limited, Vidyut Bhavan, Bailey Road, Patna-800001.
- 8. Chief Engineer (Commercial), Bihar State Power Holding Company Ltd., Vidyut Bhavan, Bailey Road, Patna-800001.
- 9. Director (Project), South Bihar Power Distribution Company Limited, Vidyut Bhavan, Bailey Road, Patna-800001.
- 10. Director (Operations), West Bengal State Electricity Transmission Company Ltd., Vidyut Bhavan, 8th Floor, Block-DJ, Sector-II, Bidhannagar, Kolkata-700091.
- 11. Director (R&T), West Bengal State Electricity Distribution Company Ltd., Vidyut Bhavan, 7th Floor, Block- DJ, Sector-II, Bidhannagar, Kolkata-700091.
- 12. Director (O&M), WBPDCL, Bidyut Unnayan Bhavan, 3C, Block-LA, Sector-III, Bidhannagar, Kolkata- 700098.
- 12.General Manager (Technical), Durgapur Projects Ltd., Administrative Building, Durgapur, West Bengal- 713201.
- 13. Principal Chief Engineer-II, Energy & Power Dept., Govt. of Sikkim, Kazi Road, Gangtok-737101.
- 14. Director (Operation), Odisha Power Transmission Corporation Ltd., Janpath, Bhubaneswar 751022.
- 15. Managing Director, GRIDCO Ltd., Janpath, Bhubaneswar-751022.
- 16. Director (Operation), Orissa Power Generation Corporation Ltd, Zone-A, 7th floor, Fortune Towers, Chandrasekharpur, Bhubaneswar-751023.
- 17. Director (Operation), Orissa Hydro Power Corporation Ltd, Orissa State Police Housing & Welfare Corporation Building, Vanivihar Chowk, Janpath, Bhubaneswar-751022.
- 18. Executive Director (Commercial), Damodar Valley Corporation, DVC Tower, VIP Road, Kolkata-700054.
- 19. Chief Engineer (GM), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.
- 20. Regional Executive Director (ER-I), NTPC Ltd., 2nd floor, Lok Nayak Jai Prakash Bhawan, Dak Bunglow Chowk, Patna-800001.
- Regional Executive Director (ER-II), NTPC Ltd., 3rd Floor, OLIC Building, Plot No.N-17/2, Nayapalli, Bhubaneswar-751012.
- 22. COO, CTUIL, Saudamini, 1st Floor, Plot-1, Sector-29, Gurgaon-122001
- 23. Executive Director (O&M), NHPC Ltd., NHPC Office Complex, Sector-33, Faridabad-121003, Haryana.
- 24. Executive Director (ER-I), Power Grid Corporation of India Ltd, Board Colony, Shastri Nagar, Patna- 800023.
- 25. Executive Director (ER-II), Power Grid Corporation of India Ltd, CF-17, Action Area-I, Newtown, Rajarhat, Near Axis Mall, Kolkata-700091.
- 26. Executive Director (Odisha Project), Power Grid Corporation of India Ltd, Plot No-4, Unit 41, Niladri Vihar, Chandrasekharpur, Bhubaneswar, Odisha-751021.
- 27. Executive Director, ERLDC, POSOCO, 14 Golf Club Road, Kolkata -700 033.
- Executive Director, National Load Dispatch Center, POSOCO, B-9 Qutab Institutional Area, Katwaria Sarai, New Delhi-110016.
- 29. Executive Director (Marketing), PTC India Ltd., NBCC Tower, 15 Bhikaji Cama Place, New Delhi-110066.
- 30. Chief General Manager, NTPC Vidyut Vyapar Nigam Limited, SCOPE Complex, Core-3, 7th Floor, Lodhi Road, New Delhi-110003.
- Head (Marketing), Tata Power Trading Company Limited, B-12/13, 2nd Floor, Shatabdi Bhavan, Sector-4, Noida-201301, Uttar Pradesh.
- 32. Vice President (System Operation), CESC Ltd, CESC House, 1 Chowringhee Square, Kolkata-700001.
- 33. Station Head & General Manager (O&M), Maithon Power Ltd., Village-Dambhui, P.O. Barbindia, Dist.- Dhanbad, Jharkhand-828205.
- 34. GM (Head-Electrical
- GMR Kamalanga Energy Ltd., AT/PO-Kamalanga, PS-Kantabania, Via-Meramundali, Dist.- Dhenkanal, Odisha-759121.
- Chief Operating Officer, Jindal India Thermal Power Limited, Plot No-12, Sector-B1, Local Shopping Complex, Vasant Kunj, New Delhi-110070.
- 37. Managing Director, Teesta Urja Limited, 2nd Floor, Vijaya Building, 17 Barakhamba Road, New Delhi-110001.
- 38. CEO, Alipurdar Transmission Limited, 101, Part-III, G.I.D.C Estate, Gandhinagar, Gujrat-382028
- 39. Head (Comml), IPCL, Salt Lake, Kolkata-700091
- 40. Managing Director (Generation), Haldia Energy Limited

#### **Distribution: Others**

- 1. Member Secretary, NRPC, New Delhi-110016.
- 2. Member Secretary, WRPC, Mumbai-400093
- 3. Member Secretary, SRPC, Bangalore-560009
- 4. Member Secretary, NERPC, Shillong-793006
- 5. Member Secretary, NPC, CEA, New Delhi- 110066.
- 6. Chief Engineer, TPRM Division, CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066
- 7. Chief Engineer, IT Division, CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066
- 8. Director, Ministry of Coal, Govt. of India, New Delhi
- 9. Director (Marketing), Coal India Limited, Coal Bhawan, Kolkata-700156
- 10. Director General, Department of Hydropower & Power Systems, Ministry of Economic Affairs, Post Box No.106, Thimpu, Bhutan
- 11. Managing Director, DGPC, Thimpu, Bhutan
- 12. Managing Director, DANS Energy Pvt Ltd, DLF Cyber City, Phase-II, GURGAON 122 002
- 13. Director, Shiga Energy Pvt. Ltd., 5th Floor, DLF Building No. 8, Tower-C, DLF Cyber City, Phase-II, Gurgaon 122002
- 14. CEO, Sneha Kinetic Power Projects Pvt.Ltd. #31 -A, National Highway, Behind SNOD building, Deorali, Gangtok, Sikkim-737102
- 15. CEO, Rongnichu HEP, MBPCL, Sikkim-737102
- 16. CEO, DMTCL, Sekura Energy Limited, Mumbai-400098
- 17. Senior Vice President, Teesta Valley Power Transmission Limited, New Delhi-110066
- 18. CEO, IndiGrid Limited, Mumbai-400079
- 19. CEO, Cross Boarder Power Transmission Limited, Ambience Mall Complex, Gurgaon, Haryana-122001
- 20. CEO, Powerlinks Transmission Limited
- 21. Managing Director, Adhunik Power & Natural Resources Ltd., Lansdowne Towers, 5th Floor, 2/1A Sarat Bose Road, Kolkata-700020.



## Minutes

## of

# 47<sup>th</sup> Meeting of

# EASTERN REGIONAL POWER COMMITTEE

Date: 25th November, 2022

Time: 10:30 Hrs

Taj City Centre, New Town, Kolkata

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#### EASTERN REGIONAL POWER COMMITTEE, KOLKATA MINUTES OF 47<sup>th</sup> ERPC MEETING

#### Date: 25<sup>th</sup> Nov, 2022(Friday), at 10:30 Hrs

#### Taj City Centre New Town, Kolkata

In Chair: Shri Avinash Kumar, IAS, CMD, JUVNL & Chairperson, ERPC

List of participants is attached **at Annexure-A**.

Member Secretary, ERPC in his welcome address expressed his gratitude to Shri Avinash Kumar, IAS, CMD, JUVNL for sparing his valuable time for being present in the meeting despite his busy schedule. He also thanked other ERPC Members, TCC members and other participants present in the meeting. He further apprised that according to CEA's forecast in coming April 2023 the country would likely to face shortage of power to the tune of about 12000 MW and planned shut down of Thermal units to be avoided and requested NTPC to expedite commissioning of on-going thermal units namely Barh unit #2, North Karanpura unit#1 by this financial year. The ER is also likely to face power shortage within 2 to 3 years to the tune of about 5000 MW hence, commissioning of other on-going projects need to be expedited.

Shri Avinash Kumar, IAS, CMD, JUVNL in his opening address highlighted the importance of ERPC forum wherein all the members have equal rights to place their issues and discuss. Critical techno-commercial issues pertaining to Power Sector are discussed and resolved amicably.

He also emphasized on the diverse nature of ER grid mentioning the key issues like loading pattern, seasonal variation, paying capacity of consumers etc. having conflicting interest of various stake holders which need to be addressed. He stated that detailed deliberations on several key issues had already been taken place in the TCC meeting held on 24.11.2022 and expected that issues taken for decision in the ERPC meeting is going to be discussed in a fruitful manner.

With permission of the Chair the Agenda of the meeting was taken up.

ITEM NO.A1:	CONFIRMATION OF THE MINUTES OF 46 <sup>th</sup> ERPC MEETING

The minutes of the 46<sup>th</sup> ERPC meeting held on 06<sup>th</sup> August, 2022 at Siliguri, West Bengal was circulated vide letter no. ERPC/TCC&COMMITTEE/2022/726 dated 05.09.2022.

Members may confirm the minutes of 46<sup>th</sup> ERPC meeting.

Since no comments was received the minutes of 46<sup>th</sup> ERPC Meeting was confirmed.

#### PART B: ITEMS FOR DISCUSSION

#### ITEM NO. B1: Issues referred to ERPC by TCC in its 47<sup>th</sup> Meeting held on 24.11.2022

The issues referred to ERPC by the TCC are placed below:

#### B1.1. Implementation of ULDC SCADA Phase-III by Powergrid

In the 45<sup>th</sup> ERPC meeting, implementation of Upgradation of ULDC SCADA System (Phase-III) by Powergrid for all the constituents in Eastern Region except Jharkhand (JUSNL) was approved. It was also decided that Powergrid will fund the project and the cost will be recovered through tariff as determined by CERC. The scheme shall become part of existing ULDC agreement.

Based on the meeting held between Powergrid & POSOCO dtd 08.09.2022(MoM Attached at **Annexure-B1.1**, it was decided that Powergrid will be implementing the ULDC Phase-III SCADA/EMS upgradation project for entire Eastern Region including ERLDC.

Confirmation is required from Jharkhand SLDC (JUSNL) for:

- a) Inclusion of JUSNL in the ULDC Ph-III SCADA/EMS upgradation project by Powergrid.
- b) Confirmation regarding execution of the project on tariff mode as approved for other constituents.

#### Deliberation in the 47<sup>th</sup> TCC meeting:

Member from Jharkhand informed that consent had already been given for executing the said project on tariff mode by Powergrid as approved for other constituents.

TCC concurred and referred it to ERPC for further approval.

#### **Deliberation in the 47th ERPC meeting:**

ERPC approved.

### B1.2. Revised connectivity for Laxmikantpur 400/132 KV S/s and split bus arrangement at Laxmikantpur S/s.

In the 12<sup>th</sup> CMETS-ER held on 28.10.2022 the following deliberations took place:

- 1. HEL mentioned that they are yet to receive all the requisite inputs from WBSETCL to carry out necessary studies, and have discussion with their OEM on the subject matter. Accordingly, they mentioned that they may need some more time and would submit their observations before the next CMETS-ER.
- 2. On enquiry regarding outcome of joint meeting between HEL & WBSETCL and any alternate proposal for establishment of New Laxmikantpur S/s as agreed in the 11th CMETS-ER, HEL informed that no meeting has been convened with WBSETCL till date. Accordingly, no alternate proposals have been discussed in this regard.
- 3. ERLDC re-iterated that the transmission system for establishment of 400/132kV New Laxmikantpur substation through LILO of Subashgram (POWERGRID) –Haldia 400kV D/c line at New Laxmikantpur S/s, had already been discussed and agreed in the 2nd meeting of erstwhile ERSCT held on 05-07-2019 after detailed studies. As there is no major development in the transmission system in the nearby area of Subashgram / Haldia for the last 3 years, it might not require much time to do additional studies, if any. Further, the condition would

become critical in future if the decision for implementation of New Laxmikantpur substation is further delayed. CTU & ERPC agreed to the same and requested HEL to resolve the matter at the earliest.

- 4. CTU informed that in the 2nd meeting of erstwhile ERSCT held on 05-07-2019, the scope of works for establishment of 400/132kV New Laxmikantpur substation through LILO of Subashgram (POWERGRID) Haldia 400kV D/c line at New Laxmikantpur S/s under intrastate has already been approved on technical grounds by all the stakeholders including HEL and CESC (also recorded in the minutes of the meeting). HEL was requested to provide go ahead on the said scope before the next CEMTS-ER as further delays in implementation of New Laxmikantpur S/s may jeopardise reliability of power supply in Kolkata area.
- 5. WBSECTL was also requested to coordinate with HEL for early resolution of the matter as reliability of power supply to capital city of Kolkata is at stake.
- 6. After detailed deliberation, it was decided that WBSETCL and HEL would meet and jointly finalise requirement of the additional data and carry out necessary system studies at the earliest. It was also decided that a separate meeting may be convened at ERPC level of all concerned for deliberation and early resolution of the issue. WBSETCL also mentioned that if the matter is not resolved by the next CMETS-ER, they would come up with alternate proposal for establishment of New Laxmikantpur S/s.
- 7. In the 2nd meeting of ERSCT held on 05-07-2019, CTU informed that the scope of works for establishment of 400/132kV New Laxmikantpur substation through LILO of Subhashgram (POWERGRID) Haldia 400kV D/c line at New Laxmikantpur S/s under intra-state has already been approved on technical grounds by all the stakeholders including HEL and CESC (also recorded in the minutes of the meeting). HEL was requested to provide go ahead on the said scope before the next CEMTS-ER as further delays in implementation of New Laxmikantpur S/s may jeopardise reliability of power supply in Kolkata area.
- 8. WBSECTL was also requested to coordinate with HEL for early resolution of the matter as reliability of power supply to capital city of Kolkata is at stake.
- 9. After detailed deliberation, it was decided that WBSETCL and HEL would meet and jointly finalise requirement of the additional data and carry out necessary system studies at the earliest. It was also decided that a separate meeting may be convened at ERPC level of all concerned for deliberation and early resolution of the issue. WBSETCL also mentioned that if the matter is not resolved by the next CMETS-ER, they would come up with alternate proposal for establishment of New Laxmikantpur S/s.

In 197<sup>th</sup> OCC Meeting held on 17.11.2022, the matter was discussed in detail. However, no fruitful decision could be arrived at, and OCC referred the issue to TCC for further deliberation/decision.

#### **Deliberation in the 47<sup>th</sup> TCC meeting:**

Member from HEL informed that the data/information required for carrying out detailed transient study has been received from WBSETCL. The study report by the consultant would be submitted by Dec'22 and thereafter the report would be shared with OEM of HEL Units for their feedback/consent. He further added that since the line is a dedicated evacuation path for HEL project and the same is owned by HEL, LILO of the line at state grid substation might raise some commercial and regulatory issues.

Representative of WBSETCL raised their concern for delay in implementing the scheme and suggested for an additional transmission connectivity arrangement to proposed Laxmikantpur S/s by LILO of one circuit of 400 kV New Jeerat-Subhasgram line.

CTU also stated that S/s and LILO of ISTS line can be taken as an ISTS project for an early commissioning.

Representative of WBSEDCL apprised the forum that the proposed substation at Laxmikantpur S/s is critical for meeting existing & growing demand in the district of South 24 Parganas district. Any delay in finalizing the connectivity arrangement would adversely affect the reliability of power supply in Laxmikantpur & adjoining area.

TCC advised HEL to expedite the process in completing the study report and further consultation with the OEM for getting their feedback/consent. In the meantime, TCC suggested that the proposal of WBSETCL regarding an additional connectivity arrangement may be forwarded to CTU for their comment/consideration.

TCC also suggested that a committee may be formed under chairmanship of Director (Op) WBSETCL with members from the concerned wings of WBSETCL, HEL & ERLDC to fortnightly monitor & discuss the progress with regard to the above matter and submit to ERPC.

#### **Deliberation in the 47th ERPC meeting:**

Keeping in view the growing demand in South 24 Parganas, the planning for connectivity of New Laxmikantpur S/s either by LILO of 400kV Haldia-Subhasgram D/C or LILO of S/C 400kV New Jeerat-Subhasgram D/C at New Laxmikantpur S/s to be finalized by January'2023.

#### B1.3. Issues related to OPGW installation in Teesta III – Kishanganj Line

Powergrid is implementing OPGW on Teesta III-Kishanganj TL under Fiber Optic Expansion Package (Additional Requirement). Out of total 215 Km, 168 Km work has been completed however following issues are causing hindrance towards completion of the work.

- **A. Non-availability of A/R in non-auto mode:** A/R permission were not provided due to high hydro season. Therefore, work is kept on hold since July 2022.
- B. ROW issues / Old compensation issues: During erection of OPGW, work had been stopped at various locations due to ROW issues/Old compensation issues. In all locations, local villagers are demanding payment of old pending compensation or compensation for shifting of houses due to induction. ROW issues occurred till date is detailed as under:

SI. No.	ROW Tower No.	ROW affected Drum No.	ROW creator details	ROW issue
1	Tower No. 144/1	20	Name of the landowner: Krishna Bahadur Manger (Mob: 7872607153) Village: Chisopani PW.	Landowner claims that M/s TPTL had damaged land and cultivation during

		1		
			PS: Jorethang	construction and a wall
			PO: Jorethang	had been promised
			Dist.: South Sikkim	which hasn't been
				erected till date along
				with pending
				compensation issue.
				*Resolved by
				POWERGRID*
			Name of the person: Didn't	Pending
	Tower No.		disclose.	Compensation Issues
2		19	Village: Samsibung	
2	137/0 & 138/0	10	PS: Namchi	
	101/0 0 100/0		PO: Namchi.	
			Dist.: South Sikkim	
			Name of the landowner:	Landowner claims
	<b>_</b>		Shyam Kumar Rai	house falling under
_	Tower No.		(Mob: 9609875663)	corridor. Demands
3		18	Village: Kamrang	compensation from for
	126/0 & 127/0		PS: Namchi	shifting of same.
			PO: Namchi	
			Dist.: South Sikkim	
			Name of the landowner:	Landowner along with
			K B Rai (+5 Brothers)	his 5 brothers are
	Tower No.		(Mob: 9083071127)	claiming compensation
4	133/0 to 136/0	18	Village: Denchung	for houses falling under
			PS: Namchi	corridor.
			PO: Namchi	
			Dist.: South Sikkim	
			Name of the landowner:	Boulders kept near wall
			Gajendra Chettri	of landowner which
	Tower No.		(Mob: 8436105960).	hadn't been removed.
5		17	Village: Mamley	
	115/0		PS: Namchi	Induction related
			PO: Namchi	problems faced by
			Dist.: South Sikkim	landowner
			1) Mani Kumar Rai	
			(Mob: 6294716006)	
			Village: Lower Jaubari	
6			(Chiyadara)	
			PS: Namchi	
			PO: Namchi	
	Tower No. 119	16A	Dist.: South Sikkim	
	to 122		2) Suk Dhan Rai	
			Village: Lower Jaubari	
7			(Chiyadara)	
r			PS: Namchi	Landslides due to
			PO: Namchi	damage to trees and
			Dist.: South Sikkim	crops during
8			3) Aita Raj Rai	construction have

			Village: Lower Jaubari	caused loss to villagers
			(Chiyadara)	and locals for which
			PS: Namchi	compensation demand
			PO: Namchi	has been made for
			Dist.: South Sikkim	which bills prepared
	-		4) Ratan Bdr. Thapa	but payment pending
			Village: Lower Jaubari	till date as per
			(Chiyadara)	landowners
9			PS: Namchi	
			PO: Namchi	
			Dist.: South Sikkim	
	-		5) L. B Thapa	
			Village: Lower Jaubari	
			(Chiyadara)	
10			PS: Namchi	
			PO: Namchi	
			Dist.: South Sikkim	_
			6) San Chay Rai (Mob:	
			7076885910)	
			Village: Lower Jaubari	
11			(Chiyadara)	
			PS: Namchi	
			PO: Namchi	
			Dist.: South Sikkim	
			7) Purna Bahadur Rai	
			(Mob: 9593739944)	Induction related
			Village: Lower Tingrithang	issues. Land owner
12	Tower No. 122	16B	PW	claims wires too close
12	to 126	100	PS: Namchi	to house and therefore
			PO: Namchi	claims compensation
			Dist.: South Sikkim	for housing property.
			Pin: 737126	
			8) Phal Bahadur	
			(Mob:	
			8001630095/9647872113)	
13	Tower No 55 to	9	Village: Tumin & Kokaley	
	60		P.S: Singtam	
			P.O: Tumin	
			Dist: East Sikkim	Previous
			9) Person didn't disclose	Compensation related
			name	issues during
	Tower No		Village: Singbel	Construction
14	68 to 74	11	P.S: Singtam	
			P.O: Makha	
			Dist.: East Sikkim	
			10) Person didn't disclose	-
	Tower No.		name	
15	74 to 81	12		
	141001		Village: Ralap	
			P.S: Singtam	

	T		P.O: Makha Dist.: East Sikkim	
16	Tower No. 195-197/1	27B	11) Satish Pokhrun	
17	Tower No. 197/1 -201/1	28	( <b>Mob.: 7872446069)</b> Village:Relling P.S: Relling	Previous Compensation related
18	Tower No. 201/1 -209/1	29	Dist.: Darjeeling	issues during Construction

Several Meetings has been done with district administration for resolving the above issues. However, it is requested that, M/s TPTL (being owner of the line) may provide necessary support for resolving the ROW issue.

Powergrid may explain. TPTL may update.

#### Deliberation in the 47<sup>th</sup> TCC meeting:

Representative of TUL on behalf of TPTL informed that even after several efforts from their end, ROW issue is persisting.

He further suggested that TPTL and Powergrid may coordinate with local District Administration for resolution of the issue.

TCC requested Sikkim to extend their cooperation in getting the above issue resolved. Sikkim agreed for the same.

TCC referred the issue to ERPC for resolution.

#### Deliberation in the 47<sup>th</sup> ERPC meeting:

ERPC observed that RoW issue should be addressed considering the socio-political context in the concerned area. ERPC opined that the matter should be taken up by Powergrid with the appropriate authority at the highest level in order to resolve the issue. Sikkim and TUL was requested to render all assistance to resolve the issue.

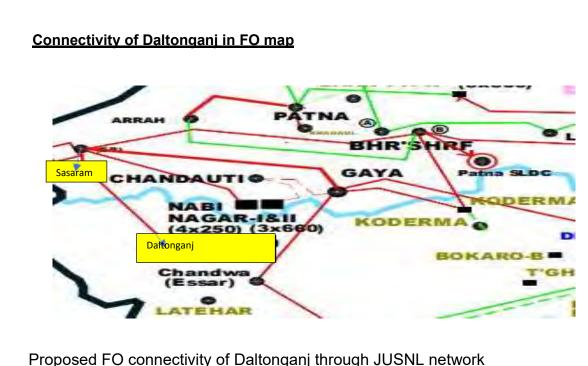
#### B1.4. OPGW connectivity of radial nodes to redundant path in Eastern Region

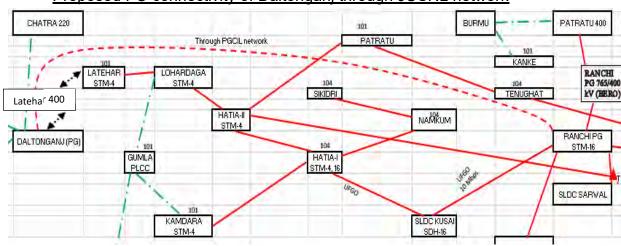
#### A) Daltonganj (PG)

Daltonganj is connected with single fiber path through Daltonganj-Sasaram link at present.

Second path connectivity is to be planned by utilizing the state network of Daltonganj to Latehar line.

Powergrid/ERLDC stated that OPGW laying from Daltonganj (PG) to Latehar (PG) (400kV) is under implementation. However, OPGW connectivity from Latehar (PG) (400kV) to Latehar(132kV) need to be confirmed from JUSNL. Further, OPGW connectivity from Latehar (132kV) to Ranchi via state links Hatia-II – Hatia-I – SLDC – Ranchi PG already exists and may be utilized for redundant path for Daltonganj (PG).





: existing OPGW

: Proposed connectivity of Daltonganj through JUSNL network.

#### **Deliberation in the 47th TCC meeting:**

Member from JUSNL informed that the OPGW connectivity from Latehar(PG)400kV to Latehar(132kV) would be completed by December'2022.

After commissioning of Latehar PG to Latehar 132kV JUSNL link, it shall also be utilized for redundant path for Daltonganj(PG). Redundant path would be Daltonganj(PG)- Latehar 400kV via Latehar132kV to Ranchi via state links Hatia II -Hatia I-SLDC-Ranchi PG.

#### **Deliberation in the 47th ERPC meeting:**

ERPC noted.

#### B) Teesta-III Node

Presently, Teesta III is connected through Teesta III - Rangpo PLCC link. First Fiber path is under implementation through Teesta III- Rangpo circuit#1. Teests-III-Rangpo#2 is LILOed at Dikchu. The Redundant Fiber path for Teesta-III may be planned through LILO of Teesta III-Rangpo #2. For redundant fiber path, OPGW may be laid on Teesta III- Dikchu portion (approx. 26 kms line length) of Teesta III - Rangpo#2.

OPGW is already planned on Dikchu -Rangpo portion of Teesta III - Rangpo#2.

The detailed scheme is attached at **Annexure-1.4B**.

12<sup>th</sup> TeST Committee accorded the scheme and referred it to TCC for further approval.

#### **Deliberation in the 47th TCC meeting:**

TCC concurred and referred it to ERPC for approval.

#### **Deliberation in the 47th ERPC meeting:**

#### ERPC approved.

### B1.5. Upgradation of OPGW network in DVC for strengthening and redundancy of communication network in DVC sector.

DVC intends for strengthening of communication network of DVC through laying of OPGW based communication system for following major purposes:

- a) In the present communication network of DVC, there are some nodes having single connectivity. For redundant connectivity, OPGW connectivity for the stations is to be established in redundant paths.
- b) Strengthening of the existing communication network will enable reliable real-time data transfer for smooth grid operations.
- c) OPGW connectivity is required for establishment of DTPC in some lines.

d)

Following is the list of links where OPGW laying along with terminal equipment is proposed:

S/n	Name of Link	Voltage Level	Approx. Length (Km)
1	BokaroA-Koderma	400kV	105
2	Dhanbad-Patherdih	132kV	22
3	CTPS-Kalyaneswari LILO at RTPS	220kV	125
4	Parulia-Bardhaman	220kV	90
5	DTPS-Parulia (LILO at DSPTS) LILO part	220kV	8
	(48F)		
6	BokaroA-Jamshedpur (DVC)	220kV	155
7	Joda-Jamshedpur (DVC)	220kV	140
8	MejiaA-Ramgarh220	220kV	155
9	BTPSA-BTPS B (UGFO)	UG	5
	•	Total	805

Further details are attached at Annexure-B1.5

DVC intends to execute the implementation of OPGW laying in the above-mentioned links of total 805 Km through Powergrid.

Powergrid is agree to execute the OPGW laying in the above-mentioned links of total 805 Km on tariff route (RTM Mechanism). Estimated cost for this work will be approx. 32 Crs. Powergrid will fund the project and the cost will be recovered through tariff as decided by CERC as per earlier ULDC schemes.

12th TeST Committee agreed to the proposal of Powergrid and referred it to CCM for further concurrence.

In 47th CCM meeting, Powergrid representative submitted that they would execute the OPGW laying work and the tariff would be recovered as decided by CERC as per earlier ULDC schemes. Upon deliberation, it emerged that only one line i.e., Joda-Jamshedpur (DVC), is natural ISTS line and the rest of the lines are part of DVC system. Further, Powergrid informed that the approximate cost of OPGW laying work would be Rs. 4 Lakhs/Km.

CCM approved the cost of Joda-Jamshedpur (DVC) line (140 Km) at Rs. 4 Lakhs/Km and the referred the same to upcoming TCC/ERPC for further concurrence.

Powergrid was advised to make separate bilateral agreement with DVC regarding cost recovery of other intra state lines.

#### **Deliberation in the 47th TCC meeting:**

CTU stated that BokaroA-Kodarma line is an ISTS link owned by Powergrid. Hence for implementation of OPGW on this line, the view of ERPC needs to be submitted to CTU.

CTU also stated that, the OPGW installation on the remaining links (SI. No 2-9) shall be implemented by their owner/s. However, the owner/s can get the implementation work done by any other agency/utility by their consent.

ERPC secretariat representative informed that Joda-Jamshedpur (DVC) line is a tie line between DVC & Odisha and ownership of line lies with DVC and Odisha. The approximate cost of OPGW laying work in this line would be Rs 5.6 crores.

After detail deliberation, TCC opined that for Joda – Jamshedpur line, the cost of OPGW laying work may be recovered from DVC and Odisha proportionately. For BokaroA-Koderma line, Powergrid would execute the OPGW laying project on tariff mode, whereas for the remaining lines TCC advised Powergrid to make a separate agreement with DVC.

TCC referred to ERPC for its approval.

#### **Deliberation in the 47<sup>th</sup> ERPC meeting:**

ERPC approved.

## B1.6. Support Service for the project "Creation & Maintaining a web based Protection database and desktop based Protection setting calculation tool for Eastern Regional Grid"

The PSDF funded project of ERPC "Creation & Maintaining a web-based Protection database and Desktop based Protection Setting calculation tool for Eastern Regional Grid" was implemented and declared Go-line on 31.10.2017. As per the contract of the project, the support service would be provided for 5 yrs after declaration of the Go-Live of the project which was till 31.10.2022.

The online database (PDMS) as well as the offline PSCT tool are being utilized by all utilities of ER for analysing the grid disturbances, carrying out various studies i.e. load flow, short circuit, relay coordination, DR analysis etc., sharing the disturbance report/DR/EL through online portal for compliance etc. 44<sup>th</sup> ERPC authorized ERPC Secretariat to prepare a DPR for support service for future updation of the Protection Database for another 5 years and place it for PSDF funding. In 45th ERPC meeting, it was noted that the DPR for additional MiP-PSCT licenses was submitted to nodal agency on 22.03.2022 for PSDF funding. The techno-economic subgroup (TESG) of PSDF discussed the DPR in its 63<sup>rd</sup> meeting held on 10.06.2022 & 67<sup>th</sup> meeting held on 12.10.2022. The minutes of the 67<sup>th</sup> TESG meeting is yet to be issued by Nodal agency, PSDF.

As the existing support service period was completed on 31.10.2022 & presently the system is being operated without any AMC, it is proposed that support service with existing vendor may be continued for an interim period of one year or till the time a final decision may be made on the funding mechanism of support service for the Protection database system, whichever is earlier.

In this regard, the vendor M/s PRDC has been approached and they have submitted an estimate amount of Rs. 50 lakh(including GST) as charges for one year support service.

Activities	Description	Cost(INR) per year
Software resource support at Bangalore	Software upgrades, trouble- shooting, Bug fixing within specified time frame(for PSCT & PDMS)	18,00,000
Hardware AMC Support	Hardware AMC renewal and Support	4,50,000
3 Onsite Support Consite Support 3 Onsite Support 3 One dedicated Resource deputation at ERPC premises for Protection suite data updation and other protection related activities of		24,00,000
	Grand Total without tax	42,00,000
	U	7,56,000 49,56,000
	Software resource support at Bangalore Hardware AMC Support	Software resource support at BangaloreSoftware upgrades, trouble- shooting, Bug fixing within specified time frame(for PSCT & PDMS)Hardware AMC SupportHardware AMC renewal and SupportOnsite SupportOne dedicated Resource deputation at ERPC premises for Protection suite data updation and other protection related activities of ERPC(Including PCC support)

#### Deliberation in the 47<sup>th</sup> TCC meeting:

Member Secretary ERPC briefed the issue and stated that as the decision of TESG committee of PSDF with regard to funding of the support service of Protection Database Project is yet to come; support service for an interim period is necessitated to maintain and update the protection database till the time the decision on PSDF funding gets finalized. He further highlighted the importance of the protection database system in analysing the grid disturbances and carrying relay coordination studies in order to maintain proper protection coordination in the ER grid.

TCC recommended for the support service of the Protection Database with the original vendor for an interim period till the time the decision on PSDF funding gets finalized. The support service is to be executed with the estimated cost of Rs. 50 lakh (including GST) for one year support service charges. The expenditure would be met from ERPC Establishment Fund.

TCC referred the matter to ERPC for consideration and approval.

#### Deliberation in the 47<sup>th</sup> ERPC meeting:

Member Secretary briefed the matter and stated that support service is very much necessary to maintain a reliable & up-to-date protection database. He clarified that the proposal under discussion is for an interim period till the time the outcome of PSDF decision on funding of support service is known. After the final decision of PSDF on funding of the DPR, the matter will be again placed before ERPC to decide further course of action.

ERPC approved the proposal with the estimated cost of Rs 50 lakh (including GST) per annum.

#### B1.7. Proposal for Renewal of AMR Phase-3 AMC of 249 nos. of SEM in ER.

The original LOA for AMR phase-3 was awarded to M/S TCS in Oct-2016. Scope was Supply, Installation, Commissioning of AMR system with one year warranty and 4 years comprehensive AMC. The total Qty. of SEM considered in this scope was: 249.

Supply, Installation and One year warranty was completed in Aug-2018, and from 01-Sep-2018 AMC was started. 04 years comprehensive AMC has been completed on 31-Aug-2022. From 01- Sep-2022 onwards, all these 249 SEM Meters are out of AMC support.

Renewal of AMC support is required to continue the AMR operation and ensure SEM data availability to ERLDC for weekly billing. Under proposed AMC period, it is envisaged up to the period of March-2026, such that AMC of Phase-3 could be concurrent with Phase-1/2.

The AMC renewal will be from 01-Sep-2022 till 31-Mar-2026 (43 months). Being OEM the AMC support required to be placed to M/S. TCS only on ST basis. As per budgetary offer the AMC value comes to around Rs. 1.24 Cr (Excluding GST) for 249 SEM for 43 Month time period. M/S TCS is continuing the AMC support now, and we requested them to continue the AMC support also till finalization of the proposed AMC. Members may please discuss.

In the 195<sup>th</sup> OCC Meeting, Powergrid representative submitted that M/s TCS has submitted a cost estimate of Rs. 1.24 Crores for the renewal of AMC of Phase-3 AMR of 249 nos. of SEMs. The AMC period will be from 01-Sep-2022 till 31-Mar-2026 i.e., for 43 months such that AMC of Phase-3 could be concurrent with Phase-1 & 2. They are in the process of negotiation with M/s TCS for further reduction of AMC cost of phase-3.

Also, the AMC of 254 meters (Phase-4) which is valid up to June 2026 would be preponed to March 2026 so that AMC of all the phases could be started afresh concurrently.

OCC agreed to the above proposal and referred it to the CCM meeting for further approval.

In 47<sup>th</sup> CCM meeting, Powergrid representative submitted that M/s TCS has submitted a cost estimate of Rs. 1.24 Crores for the renewal of AMC of Phase-3 AMR of 249 nos. of SEMs. They are in the process of negotiation with M/s TCS for cost reduction for Phase-3 AMR. The AMC would be valid from 01-Sep-2022 till 31-Mar-2026. Further, the AMC of 254 meters of Phase-4 would be preponed to March 2026 such that the AMC for all the meters could be started afresh. CCM approved the above proposal and advised Powergrid to submit the negotiated price of AMC of phase-3 AMR to ERPC Secretariat and referred it to the upcoming TCC/ERPC meeting.

#### **Deliberation in the 47th TCC meeting:**

Powergrid representative submitted that the negotiated price of AMC of phase-3 AMR of 249 nos of SEM is Rs 11946647/-. The AMC would be valid from 01-Sep-2022 till 31-Mar-2026.

After detailed deliberation, TCC approved the cost of Rs 11946647/- excluding GST for AMC of phase-3 AMR and referred to ERPC for further approval.

#### Deliberation in the 47<sup>th</sup> ERPC meeting:

ERPC approved.

#### **B1.8. Procurement of New Energy Meter**

In Eastern Region, no of spare meters as informed by PGCIL is around 410 nos. Keeping in view of the upcoming requirement of meters in new projects and replacement of heavily time drifted (L&T make) meters, members may discuss the requirement of new energy meters.

In 47<sup>th</sup> CCM meeting, ERLDC representative submitted that out of total 587 L&T meters, 271 meters are heavily time drifted (>10minutes). Further, on a yearly basis 50 nos. of meters are coming in the category of heavily time drifted.

It was submitted that 410 meters are currently available with Powergrid as spare meters. Further, situation of unexpected requirement of meters may also arise.

The Committee observed that the heavily time drifted SEMs may have huge financial implications on all the utilities under the existing as well as new DSM regime. Since all the L&T make meters (587 nos.) are integrated with AMR, time drift correction using DCD is not possible. It was also discussed that calibration of these meters is due and the cost of calibration is equivalent to that of a new meter which is unjustifiable. Hence, after detailed deliberation, CCM recommended for procurement of additional 325 nos. of SEMs and advised Powergrid to initiate the replacement of heavily time drifted meters by utilizing the existing stock of 410 nos. of meters in co-ordination with ERLDC and concerned utilities.

Powergrid representative submitted that the meters would be provided by them and the concerned utilities shall be responsible for replacement of meters at their respective end. If any utility desires to get the meters replaced by Powergrid then it would be on chargeable basis. Further, Powergrid was also advised to submit a proposal for the procurement of additional 325 nos. of meters.

The issue is referred to upcoming TCC/ERPC.

#### **Deliberation in the 47th TCC meeting:**

After detailed deliberation, TCC agreed to the proposal for procurement of additional 325 nos. of SEMs and advised CTU to go ahead with the procurement. CTU representative submitted that they would authorise Powergrid to procure the additional 325 nos. of SEMs. Powergrid agreed.

TCC observed that in view of stringent provisions in new DSM regulations, the heavily time drifted L&T make SEMs need to be replaced on priority basis. Accordingly, Powergrid was advised to replace the heavily time drifted meters on priority basis in co-ordination with ERLDC and concerned utilities by utilizing its existing stock of 410 meters and the details of replaced meters may be shared by Powergrid in the monthly OCC Meetings.

TCC referred the issue to ERPC for approval.

#### **Deliberation in the 47th ERPC meeting:**

ERPC approved the proposal for procurement of 325 nos. of SEMs & advised Powergrid to expedite the replacement of heavily time-drifted L&T make SEMs on priority basis in coordination with ERLDC & concerned utilities.

#### ITEM NO. B2: Details of Pool Account

#### A. Deviation/Reactive Pool Account

The details of major defaulters as on 01.11.2022 considering the bill up to 16.10.2022 are tabulated below:

#### **Bihar:**

	BSPTCL
DSM (in lakhs)	10491.82522
Reactive (in lakhs)	46.19824
LC	LC opened for 213.53049 /- Lakhs (Partial)
Due date of expiry Of	
LC	12-11-2023

#### Jharkhand:

	JUVNL
DSM (in lakhs)	10711.92055/-
Reactive (in lakhs)	403.89584/-

LC	LC opened for 68.73783 /- Lakhs(Partial)
Due date of expiry Of LC	22-11-2022

Sikkim:

	Sikkim
DSM (in lakhs)	554.63523
Reactive (in lakhs)	0
LC	No Valid LC
Due date of expiry Of LC	NA

Further, the details of other pool members are enclosed as **Annexure-B2**.

BSPHCL, JUVNL, & SIKKIM may confirm the program for payment of outstanding dues.

#### **Deliberation in the 47th ERPC Meeting:**

ERPC advised all the concerned constituents to liquidate their outstanding dues at the earliest.

#### B. Interest due to delayed payment of deviation charges/RRAS

Due to the delayed payment of deviation charges in the DSM Pool interest was computed for all the DSM Pool Members for FY 2020-21. The current outstanding of GMR and OPGC are ₹173.96 lakh and ₹0.24 lakhs respectively.

GMR and OPGC may update the status of the same.

#### Deliberation in the 47<sup>th</sup> ERPC meeting:

ERPC advised all the concerned constituents to liquidate their outstanding dues at the earliest.

#### ITEM NO. B3: Opening of LC by ER constituents for DSM payments

Clause 10 (4) of CERC Deviation Settlement Mechanism and related matters Regulations, 2014 vide notification No. L-1/132/2013/CERC dated 6<sup>th</sup> January, 2014 to be implemented from 17.02.2014 is reproduced below:

Quote....

All regional entities which had at any time during the previous financial year failed to make payment of Charges for Deviation including Additional Deviation Charges for Deviation within the time specified in this regulations shall be required to open a Letter of Credit (LC) equal to 110% of its average payable weekly liability for Deviations in the previous financial year, in favour of the concerned RLDC within a fortnight from the date these Regulations come into force.....

.....Provided further that LC amount shall be increased to 110% of the payable weekly liability in any week during the year, if it exceeds the previous LC amount by more than 50%.

....Unquote

The details of LC amount required to be opened in 2021-22 by ER constituents is given in table below-

	ER	LC Amount (110% of		
SI No	Constituents	AverageweeklyDeviationChargeliability)	Due date of expiry	Remarks
1	BSPTCL	451.01566	12-11-2023	LC opened for 213.53049 /- Lakhs
2	JUVNL	159.48276	22-11-2022	LC opened for 68.73783 /- Lakhs
3	Sikkim	57.64962	No Valid LC	
4	APNRL	6.82984	No Valid LC	
5	CHUZACHEN	0.71196	No Valid LC	
6	GMR	0.89615	No Valid LC	
7	JITPL	25.43147	No Valid LC	
8	JLHEP	21.56162	No Valid LC	
9	PGCIL- Alipurduar	0.86763	31-12-2022	LC opened fro 0.14629/- Lakhs
10	Tashiding HEP	16.70240	No Valid LC	
11	NPGC	12.85864	03-02-2023	LC opened for 47.36890 /-
12	NPGC infirm	24.36413	03-02-2023	47.30090 /- Lakhs
13	RONGNICHU HEP	2.34742	No Valid LC	

Opening of LC is the regulatory requirement as per provision of CERC DSM regulations for defaulting members. Defaulting members may please intimate the latest status of opening of LC

#### **Deliberation in the 47<sup>th</sup> ERPC Meeting:**

ERPC advised all the concerned constituents to open requisite amount of LC as per prevailing DSM Regulation.

#### ITEM NO. B4: Draft ERPC(Conduct of Business Rules) 2022

As per decision taken in the 46<sup>th</sup> ERPC meeting held on 06th August 2022, the draft ERPC (Conduct of Business Rules) 2022 has been prepared. The draft CBR along with comparison of existing with proposed amendments **(Annexure-B3)** had been shared with TCC and ERPC members vide mail dated 16.11.2022 for comments. However, no comments have been received till date.

The draft CBR is placed in 47<sup>th</sup> ERPC meeting for approval of ERPC forum.

ERPC may approve.

#### Deliberation in the 47<sup>th</sup> ERPC meeting:

Members noted the changes made in existing CBR and unanimously approved the draft ERPC(Conduct of Business Rules) 2022 & other associated regulations.

#### ITEM NO. B5: Proposal for sponsorship in National Workshop on "Pumped Storage (Hydro) Plant-Enabling Energy Transition" in association with ERPC from 2-3 March 2023 at Purulia (West Bengal)

Pumped Hydro Storage is an established, proven and cost-effective technology for storing electricity at times of high generation and/or low demand, which then can be released into peak demand periods. There is some 140GW of PHS capacity installed globally providing well over 95% of global electricity storage capacity. PHS has a round trip efficiency of 70-80% depending upon the distance and gradient separating upper and lower reservoirs. PHS is designed to time-shift electricity to periods of peak demand so that power is stored when it is least expensive and then used during peak demand when prices are highest. With its almost instantaneous start capacity, PHS is ideal for meeting evening peaks as well as providing grid frequency stabilization services. Where and when alternative water demands allow, PHS can also provide longer duration supply - a capacity that lithium-ion batteries are not well suited for.

Keeping the above in view, NPTI Durgapur has proposed to organize a National Workshop(Residential) on "Pumped Storage(Hydro) Plant Enabling Energy Transition" In association with ERPC from 2-3 March 2023 at Purulia (West Bengal) near to PPSP. The total expected delegates in residential mode may be 80 (Eighty), out of which 40 delegates from different constituents of Eastern Region may be sponsored by ERPC and rest 40 delegates may be invited from other related organizations outside Eastern Region. Delegates may be offered accommodation along with food arrangements for 2 days and pickup/drop facilities from Ranchi Airport and Dhanbad/Purulia Railway station. In this regard, NPTI has submitted an estimated Delegate fee @ Rs 56,480/- per participant keeping in view all the arrangements to be made due to remoteness of the location. A Draft Brochure containing brief information about the Workshop is attached at **Annexure-B4**.

The total sponsorship amount for 40 delegates will be Rs 22,59,200/- (Rs Twenty- two lakhs fifty-nine thousand and two hundred only).

ERPC may discuss and approve.

#### Deliberation in the 47<sup>th</sup> ERPC meeting:

ERPC approved the proposal with the estimated cost of Rs 22,59,200/- (Rs Twenty- two lakhs fifty-nine thousand and two hundred only) for sponsorship of 40 delegates.

#### ITEM NO. B6: Capacity Building of Eastern Region funded through PSDF

Ministry of Power, GOI had granted a sanction from PSDF fund for the following capacity building programs for the Eastern Region:

- 1) Training for Power System Engineers
- 2) Training on Power Market Trading at NORD POOL Academy for Power System Engineers of Eastern Regional Constituents

Subsequently, Agreement with Nodal Agency (i.e. NLDC have been signed for both the projects in September, 2018 and both the projects are being executed by ERPC Secretariat.

#### A. Training for Power System Engineers of various constituents of Eastern Region.

This program is basically meant for young entry level engineers working in State Load Despatch centres, State Transmission Utilities, State Gencos, ISGS, DISCOMS & others in Eastern Region, ERLDC, ERPC, CEA, MoP. A sanction of Rs. 61 lacs has been granted from PSDF for this project.

Total 8 nos. of programs each consisting of five days are to be conducted during the duration of two years. Each batch will comprise of 30-40 nos. of participants

The program is to be executed by Eastern Regional Power Committee (ERPC) in consultation with Asia Institute of Power Management (AIPM), CESC Ltd.

Training program No.	Training module name	Schedule	Venue	No. of participants
Batch-1	Power System protection	22nd to 26th July, 2019	AIPM, CESC	41
Batch-2	Latest Developments in Commercial Aspects of Power Management	Developments 18th to 22nd AIPM, CESC ommercial November, 2019 cts of Power		36
Batch-3	Challenges and improvement areas in Transmission & Distribution Sector	13th to 17th January, 2020	AIPM, CESC	29
Batch-4	Ensuring Safe and Secure Power System Operation	2 <sup>nd</sup> to 6 <sup>th</sup> March, 2020	AIPM, CESC	31
Batch-5	Resource Optimization & Efficiency Improvement in Power System Operation	4 <sup>th</sup> to 8 <sup>th</sup> July 2022	AIPM, CESC	12
Batch-6	Advance Distribution Practices with an Approach to Smart Grid	19 <sup>th</sup> to 23 <sup>rd</sup> September 2022	AIPM, CESC	20

The following training program has been conducted under this project:

ERPC may note.

**Deliberation in the 47th ERPC meeting:** 

ERPC noted.

#### B. Training on power market trading at NORD POOL Academy for Power System Engineers of Eastern Regional Constituents

This capacity building program was meant to contribute towards capacity building and assist the development of a commercially viable and vibrant power market in India. It will also give an unique opportunity to the Indian participants to learn from the best industry practices and most enriching experiences of Nordic countries in running one of the most successful power exchanges in the world. It would benefit the participants from the State Transmission Utilities (STUs), Distribution Companies, State Load Despatch Centres (SLDCs), Generators (including ISGS), ISTS Licensees in Eastern Region, Power System Operation Corporation (POSOCO) and Eastern Regional Power Committee (ERPC) Secretariat. Participation from Central Electricity Authority (CEA), Ministry of Power, Gol has also been envisaged. A sanction of Rs. 5.46 Crore has been granted from PSDF for this project.

The program is to be executed by Eastern Regional Power Committee (ERPC) in consultation with partner M/s PTC and Nord Pool Consulting.

The detailed list of constituent-wise participants was approved in 39<sup>th</sup> ERPC. As per the decision of various ERPC meetings, ERPC Secretariat has completed the followings:

- i) The 1<sup>st</sup> training program was conducted for senior executives from 17<sup>th</sup> to 21<sup>st</sup> June, 2019 at Nord Pool, Norway.
- ii) The 2<sup>nd</sup> training program was conducted for mid-level executives from 19<sup>th</sup> to 23<sup>rd</sup> August, 2019 at Nord Pool, Norway.
- iii) Subsequently in view of Covid-19 pandemic and consolidated travel advisory dated 06.03.2020 issued by GoI to avoid travelling to the countries affected by Covid-19, the study program of 3<sup>rd</sup> batch was postponed with the approval of chairperson, ERPC.
- iv) The 3<sup>rd</sup> training program was conducted for mid-level executives from 12<sup>th</sup> to 16<sup>th</sup> September, 2022 at Nord Pool, Norway.

ERPC may note.

#### **Deliberation in the 47th ERPC meeting:**

ERPC noted.

## ITEM NO. B7: Scheme for National level optimization of surplus generation capacity in the country and Development of online Portal for the same

CEA vide letter no-CEA-GO-15-14/1/2021-NPC Division/537-534 dated 24.11.2022 has communicated the approval of Honourable Minister of Power & NRE of the Scheme for National level optimization of surplus generation capacity in the country and Development of online Portal for the same. The scheme is attached at **Annexure-B6**.

ERPC may note.

#### Deliberation in the 47<sup>th</sup> ERPC meeting:

ERPC noted.

#### ITEM NO. B8: Strengthening of State Load Despatch Centers (SLDC)

In the 46th ERPC meeting, the necessity of strengthening of State Load despatch Centres (SLDC) was emphasised through induction of appropriate manpower in line with CABIL recommendations. The need for strengthening SLDCs was appreciated by most members, and it was agreed that all States including DVC would do the needful in this direction.

It was also mentioned that the mechanism of Scheduling, Accounting, Metering and Settlement system would be in place with SAMAST implementation. Bihar has already completed while West Bengal / Odisha are in various phases of execution. Recently DVC has shown intent in implementing SAMAST while Jharkhand/Sikkim are yet to submit DPR for PSDF funding.

All the states are requested to update the status of manpower strengthening in the respective LDCs (format given below) and SAMAST implementation.

Recourse Area	Activity	Manpow er in place	Manpower as per CABIL recommendation (Large/Medium/ Emerging LDC)
Head LDC			1/1/1
System Operation	Real Time Operation, GridManagement Forecasting		24/17/11
Market Operation	Metering, Accounting Settlement, Open Access		16/11/6
Information Technology	IT Hardware/Software, Website, Communication		15/10/4
Law and Regulatory Affairs	Policy & Regulatory Affairs,Petitions etc		7/5/3
HR & Administration	HR, HRD, Administration, Recruitment etc		15/10/3
Finance &Accounts			17/12/3
Infrastructure Services			10/6/3
Decision Support	SCADA/EMS, WAMS		14/10/5
Contracts	C&M activities		6/4/2
Total			125/86/41

Large LDC: West Bengal Medium LDC: Bihar, Odisha, Jharkhand, DVC Emerging LDC: Sikkim

ERPC may discuss.

#### **Deliberation in the 47th ERPC meeting:**

ED ERLDC highlighted the need of adequate manpower at SLDCs in line with CABIL recommendations to enable the SLDCs to discharge their roles and responsibilities effectively. He added that the matter was discussed at length in the 46th ERPC meeting also but some SLDCs were still running short of manpower.

MS ERPC stressed on the need of furnishing details by each SLDC regarding manpower put in place against different departments/functionalities. He stated that this would enable the proper assessment and further action.

Chairperson ERPC stated that the role of all load despatch centres right from NLDC to RLDC & SLDC was crucial more so in view of enhanced complexities in the grid and felt that LDCs across the country should be under the same umbrella for effective functioning. ED ERLDC clarified that the constitution, function, role and responsibilities of NLDC, RLDC, and SLDC have been spelled out in Electricity Act & IEGC and strengthening of SLDCs would be in the interest of states only.

Odisha and Bihar representatives seconded the need of strengthening of SLDCs and stated that they were taking necessary actions.

DVC representative agreed to the need of strengthening but stated that the numbers stipulated in CABIL was on the higher side.

The need of developing a cadre for SLDCs was also discussed with the need for continuance of an incumbent at SLDC at least for 5-10 years.

Chairperson ERPC approved the formation of a committee comprising members from all SLDCs and representatives from ERPC & ERLDC with terms of reference as below:

- Analysing the existing manpower strength of each SLDC and working out the number required in line with CABIL recommendations.
- Explore the possibilities of maintaining dedicated cadres for SLDC Operation.
- Examine the need for training of personnel in activities like real-time grid operation, IT cyber security, post-despatch analysis, outage coordination analysis, forecasting, operational feedback, Market operation, Big Data Analytics, etc.
- Any other related point.

Constitution of Committee: Head of SLDC: West Bengal, Bihar, Odisha, Jharkhand, Sikkim, DVC EPRC, ERLDC representatives.

The committee will submit its report to the ERPC secretariat within 2 months for taking up in the next TCC/ERPC meeting.

#### ITEM NO. B9: Finalisation of dates and venue for the next ERPC & TCC meetings.

SI. No	Host Organization
	SIKKIM
1	- hosted 29 <sup>th</sup> ERPC Mtg. on 14.02.2015
<u> </u>	ODISHA
2	- hosted 31 <sup>st</sup> ERPC Mtg. on 14.11.2015
2	JHARKHAND
3	- hosted 32 <sup>nd</sup> ERPC Mtg. on 20.02.2016
4	BIHAR
4	- hosted 33 <sup>rd</sup> ERPC Mtg. on 25.06.2016
r.	CESC
5	- hosted 34 <sup>th</sup> ERPC Mtg. on 19.11.2016
	TPTCL
6	- hosted 35 <sup>th</sup> ERPC Mtg. jointly on 25.02.2017
	MPL
7	- hosted 35 <sup>th</sup> ERPC Mtg. jointly on 25.02.2017
1	- hosted 35 <sup>th</sup> ERPC Mig. jointly on 25.02.2017
	GMRKEL
8	-hosted 36 <sup>th</sup> ERPC Mtg. on 26.08.2017
0	POWERGRID
9	- hosted 37 <sup>th</sup> ERPC Mtg. on 17.06.2018
10	DVC
	-hosted 38 <sup>th</sup> ERPC Mtg. on 30.06.2018
11	NVVN
	- hosted 39 <sup>th</sup> ERPC Mtg. Om 17.11.2018
12	NHPC
12	- hosted 40 <sup>th</sup> ERPC Mtg. on 16.03.2019
13	NTPC
15	- hosted 41 <sup>st</sup> ERPC Mtg. on 27.03.2019
14	PTC
	- hosting42 <sup>nd</sup> ERPC Mtg. on 13.12.2019
15	WEST BENGAL -hosted 46 <sup>th</sup> ERPC Mtg. on 06.08.2022
10	
16	JITPL
	- yet to host ERPC Mtg.
17	Teesta Urja Ltd.
	- yet to host ERPC Mtg.

The roster for hosting of ERPC meetings is given below:

Members may discuss and finalize.

#### Deliberation in the 47<sup>th</sup> ERPC meeting:

*Teesta Urja Limited(TUL) proposed to host the 48<sup>th</sup> TCC & ERPC meeting in association with Energy & Power Dept, Govt of Sikkim.* 

ERPC agreed to it and it was decided that the next TCC & ERPC meeting would be hosted by TUL tentatively in the month of March-23.

#### PART C: ITEMS FOR INFORMATION

#### The following items are placed before ERPC for noting and compliance:

#### ITEM NO. C1 : DMTCL's unrecovered Transmission Charges of INR 2,65,75,819/- from Bihar Power Utilities for the Period 31.03.2017 to 15.04.2017

"DMTCL unrecovered Transmission Charges of INR 2,65,75,819/- from Bihar Power Utilities for the Period 31.03.2017 to 15.04.2017 billed by CTU bill dated 17<sup>th</sup> June 2020 as per ERPC RTA dated 05th June 2020 along with applicable Late Payment Surcharge (LPS)."

#### Background:

This is in reference to the till date outstanding transmission charges Bill dated 17<sup>th</sup> June 2020 issued by CTU as per ERPC RTA dated 05<sup>th</sup> June 2020 for the recovery of DMTCL unrecovered transmission charges of ₹ 2,65,75,819/- for the period from 31.03.2017 to 15.04.2017. The said claim of DMTCL unrecovered transmission charges was also reviewed by NLDC in discharging its function of Implementing Agency and subsequently approved & issued by ERPC through RTA of June-20 month as part of standard procedure.

The matter was deliberated in 43<sup>rd</sup> TCC meeting dated 26<sup>th</sup> March 2021 and TCC opined that the said payment is to be paid by Bihar. The conclusion arrived by 43<sup>rd</sup> ERPC TCC Meeting held at Kolkata, dated 26<sup>th</sup> March 2021, under the Agenda Item no. B28.3, is in the following manner:

#### "B28.3:- RTA(Rev-1) dated 05-06-2020 for the month of May-20 issued by ERPC

#### Deliberation in the TCC meeting:

.....

After deliberation TCC opined that the said payment has to be liquidated by Bihar in line with CERC order dated 04.01.2017 in petition no. 155/MP/2016. However, as this is an internal matter of Bihar State, TCC advised ERPC Secretariat to convene a separate meeting among BSPHCL, BSPTCL, Discoms of Bihar, NLDC, CTU and DMTCL to resolve the issue."

In line with TCC advise in 43<sup>rd</sup> ERPC TCC meeting, a joint discussion was held on 21<sup>st</sup> June 2021 in the presence of ERPC Secretariat, representatives of BSPHCL, BSPTCL, Discoms of Bihar, NLDC, CTU and DMTCL through MS Teams online meeting platform. The said meeting however remained inconclusive since the stakeholders of Bihar Power Companies (BSPHCL, NBPDCL & SBPDCL) were still having difference in opinion regarding the applicability of *CERC order dated 04.01.2017 in petition no. 155/MP/ on Bihar Discoms*. Hence, despite of deliberation at 43<sup>rd</sup> TCC level and validation of this matter by TCC forum, the DMTCL transmission charges claim remained unpaid.

Subsequently, the matter was again raised at ERPC level vide our letter dated 25.06.2021 and it was communicated to DMTCL that this matter shall be clarified by taking guidance from CERC in the upcoming meeting with CERC.

During the 45<sup>th</sup> ERPC TCC held on 26<sup>th</sup> March 2022 under the Agenda Item no. C. 23, the ERPC Secretariat conveyed about 03<sup>rd</sup> interaction of Hon'ble Central Electricity Regulatory Commission (CERC) with Chairpersons and Member Secretaries of RPCs, which was also Minuted vide dated 04<sup>th</sup> Jan 2022

Under the Formal **Agenda point no. 29** of the interaction minutes dated 04<sup>th</sup> Jan 2022, the Member Secretary (ERPC) requested to Hon'ble CERC "For the Interpretation of CERC Order **dated 04.01.2017 and 06.03.2017 in Petition No. 155/MP/2016**", which is being referred as a precedence/ base case in the existing DMTCL RTA claim matter. In response, the Hon'ble CERC affirmed that the party which is causing delay in commissioning of transmission system, would be liable to pay the transmission charges to Transmission Licensee, till the commissioning of downstream system of the State. The relevant extract of the deliberation recorded as part of Minutes dated 04<sup>th</sup> Jan 2022 is provided as below:

### *"29. Interpretation of order dated 04.01.2017 and 06.03.2017 in Petition No. 155/MP/2016*

**a)** Member Secretary (ERPC) stated that for delay (beyond control) in commissioning of transmission lines by transmission licensees, they are being compensated. However, when the downstream network of State is delayed, owing to law and order situation, they are not being compensated and rather they are made liable to pay the transmission charges for transmission licensees, till the commissioning of downstream system of the State.

b) <u>Member (ISJ), CERC observed that the liability for the payment in</u> <u>the event of delay in commissioning the transmission system does not</u> <u>go away</u>. For example, if the generating station has been commissioned and the transmission system has not come, the transmission licensee may get extension in COD, but it remains liable to pay compensation to such generating station.

## c) Chairperson, CERC stated that CERC has taken a fair and consistent approach in its orders. <u>The party which is causing delay is liable to pay the compensation</u>."

As per above, it was suitably made clear by the Hon'ble Member CERC that if the transmission licensee (DMTCL) was ready for commissioning, however, could not initiated flow of power owing to non-readiness of Bihar downstream transmission system, then in such case the DMTCL transmission element was deemed available from the day it declared its readiness and accordingly is qualified to collect the revenue for the said dates. Hence, this understanding and the above claim has been validated, approved by ERPC and further has been affirmed by Hon'ble Commission through the Interaction Minutes dated 04<sup>th</sup> Jan 2022.

The said recovery of DMTCL transmission charges is still pending for a prolonged period of more than 2 years despite multitude of discussions at various forum, ample clarifications already provided and clear guidance from various authorities.

Because of such prolonged delay in receiving this legitimate compensation at no fault of DMTCL has adverse financial implications on DMTCL and therefore requested to disburse this payment at the earliest along with the necessary applicable Late Payment Surcharge (LPS) as per below:

Sr.	Particulars	UOM	Quantum
1	DMTCL Total claim as per RTA dt. 05 <sup>th</sup> June 2020	INR	2,65,75,819
2	*Total LPS (17-08-2020 to 15-11-2022)	INR	1,07,16,699
	Grand Total outstanding as on 15-11-2022	INR	3,72,92,519

The particular of the pending outstanding amount as on 15<sup>th</sup> Nov 2022:

\*The LPS computations has been done as per applicable CERC Sharing Regulations time to time.

Bihar may update.

#### **Deliberation in the 47th TCC meeting:**

DMTCL representative informed that DMTCL is yet to recover the Transmission Charges of INR 2,65,75,819/- from Bihar Power Utilities along with applicable Late Payment Surcharge (LPS) of DMTCL for the period from 31.03.2017 to 15.04.2017 due to delay in commissioning of downstream network by Bihar. Further he informed that, the issue has already been discussed in the several ERPC meetings and in the 3<sup>rd</sup> meeting of the Member Secretaries with Hon'ble CERC dated 17.11.2021 under the agenda "For the Interpretation of CERC Order dated 04.01.2017 and 06.03.2017 in Petition No. 155/MP/2016" it was recorded that "Chairperson, CERC stated that CERC has taken a fair and consistent approach in its orders. The party which is causing delay is liable to pay the compensation."

Bihar representative informed that the defaulted party due to which the so-called delay has been claimed is not identified or adjudicated by CERC in petition no. 238/MP/2017. Therefore, the direction of CERC in its order dated 04.01.2017 in petition no. 155/MP/2017 cannot be applied in the instant matter.

After detailed deliberation, TCC opined that since no consensus could be arrived at, the affected party may file a petition before Hon'ble CERC.

This is for information to ERPC.

#### Deliberation in the 47<sup>th</sup> ERPC meeting:

ERPC noted.

#### ITEM NO. C2 : Outage planning & ATC-TTC declaration

Central Electricity Regulatory Commission (Connectivity and General Network Access to the inter-State Transmission System) Regulations, 2022, T-GNA can be applied for any period from 1 (one) time block and up to 11 (eleven) months. Accordingly Total Transfer Capability (TTC), Available Transfer Capability (ATC) and Transmission Reliability Margin (TRM) of the individual control/bid areas need to be declared on rolling basis for at least 11 months in advance incorporating the LGBR.

Thus, following inputs are required for calculation:

- Transmission outage planning for 12 months in advance by transmission utilities
- Generation outage planning for 12 months in advance by GENCO's

• State ATC/TTC from SLDC for 12 months in advance incorporating state embedded transmission and generation outage and LGBR

One month margin is kept for calculations.

Presently, outage planning is done on month ahead basis in RPC forum for both generation and transmission elements. Further, considering the last six-month data, roughly the average approved shutdown of transmission elements was around 700 numbers in ER, out of which only 1/3rd i.e 33% shutdown was availed despite the flexibility of choosing a date. This shows absence of proper planning on the part of utilities which with the implementation of upcoming T-GNA regulation may have commercial well as operational consequences. Hence all the utilities are advised to properly plan their outage schedule well in advance and stick to the schedule.

ERPC may note.

#### **Deliberation in the 47th ERPC meeting:**

ERPC noted.

#### ITEM NO. C3 : Upcoming regulations/concept papers of CEA/CERC/MoP

- Central Electricity Regulatory Commission (**Deviation Settlement Mechanism and Related Matters**) Regulations, 2022 shall come into force with effect from 05.12.2022.
- Central Electricity Regulatory Commission (**Ancillary Services**) Regulations, 2022 except the parts of Regulation pertaining to TRAS shall come into force with effect from 05.12.2022.
- Central Electricity Regulatory Commission (Connectivity and General Network Access to the inter-State Transmission System) Regulations, 2022 has come into effect from 15.10.2022 except the provisions of Regulations 23 to 24, 26 to 36, 37.9, 38,40, and 43, whose date of commencement shall be notified separately.
- Draft Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2022 has been issued on 07<sup>th</sup> June,2022. The tentative date of notification of Grid code is 30.11.2022 and the tentative date of coming into effect is 01.02.2023.
- Central Electricity Authority published 20<sup>th</sup> Electric Power Survey of India(vol-1) in fulfilment of CEA's obligation under section 73A of the Electricity Act 2003.
- MoP vide letter dated 15.11.2022 published concept note on pooling of tariff of 25 years plus Thermal/Gas Generating Stations for public comments by 6<sup>th</sup> December'2022.

Members may take note and prepare accordingly.

#### **Deliberation in the 47th ERPC meeting:**

ERPC noted.

#### ITEM NO. C4 : Final quantity of OPGW links executed under the project – "Package- I: Fiber optic expansion project (Additional requirement)"

Please find below final executed quantity of links executed under project mentioned.

S/n	Name of link	Voltage	Approved	•	Actual link
		level	in ERPC	per ERPC	length executed
				approval	
1	Ranchi-Maithon	400KV	32 <sup>nd</sup> ERPC	188 Km	188 Km
	Right Bank				
2	Barh-Gorakhpur	400KV	33 <sup>rd</sup> ERPC	354 Km	370.768 Km
3	Patna-Kishanganj	400KV	36 <sup>th</sup> ERPC	347 Km	364.018 Km

This is information to all and record in TCC/ERPC meeting.

ERPC may note.

#### **Deliberation in the 47<sup>th</sup> ERPC meeting:**

ERPC noted.

Meeting ended with Vote of Thanks.

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Participants in 47th ERPC Meeting

N

Annexure-A

Vei	ue: Taj City Centre, New Tow	n , Kolkata	Tim	ie: 10:30 Hrs.	Date: 25	5.11.2022 (Friday)
SI. No.	Name	Designation	Organisation	Contact No.	E-mail Id	Signature
1	Mr. Avinash Kumar	CMD	JUVNL			$\left \right.\right\rangle$
2	Mr. Sanjay Mittal	Director(Powersales and Regulatory)	JITPL	9701008282	Vijayabhaskar.d@Jindalgroup.com	- And
3	Mr. Shubhang Nandan	Head(Powersales and Regulatory)	JITPL	8102699777	head.powersales@Jindalgroup.com	Supage
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7	Mr. Kausik Datta	Executive Director(OS)	WBPDCL	8336903895	kdatta@wbpdcl.co.in	1 astillas
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12	Mr. Rajesh Sharma	Executive Director (O&M)	NHPC Ltd.	9958633778	rajeshsharma@nhpc.nic.in	Ryun-
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14	Mr. Pradeep Kumar Mahapatra	General Manager	OPGC	9338715401	pradeep.mahapatra@opgc.co.in	Nyahapah
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6	Mr. Anil Kumar Sharma	Managing Director	TVNL	9031051155	conil. sharma@trhl. in	Anona stiller
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9	Mr. Kumud Ranjan Sinha	GM (Technical)	JUUNL	8210263836	cegenjuunl@gmail.com	let
0	Mr Avinash Shukla	Sr Manager	BRBCL	9453017986 / 7753021564	avinashshukla@ntpc.co.in	Aluntet.

3)

Ven	ue: Taj City Centre, New Town	, Kolkata	Time	e: 10:30 Hrs.	Date: 25.	.11.2022 (Friday)
SI. No.	Name	Designation	Organisation	Contact No.	E-mail Id	Signature
21	Mr. DSGSS Babji	RED(ER-I)	NTPC Ltd.	9445869057	DSGSSBABJI@NTPC.CO.IN +	
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25	Mr. G C Mohapatra	AGM(Comml)	NTPC Ltd.	9437049372	GCMOHAPATRA@ntpc.co.in	Schapthe
26	Mr. Prassana Kumar Sahu	DGM(OS)	NTPC Ltd.	9437962430	PRASANNASAHOO@ntpc.co.in	3
27	Mr.A.K.Pandey	Dir (R&T)	WBSEDCL			
28	Mr. Santanu Sarkar	CE,PTP	WBSEDCL			
29	Mr. Preetam Banerjee	SE/PTP	WBSEDCL	7003871189 / 9432140/65	preeban72@gmail.com	1-2-1
30	Mr. R.N.Sinha	ACE,PTP	WBSEDCL		•	
31	Ms. Sreyasi Mondol	ACE,PTP	WBSEDCL	9432329748	sreyasét23 Ggmaile con	chrondal
32	Mr. Manojit Dutta	SE/PTP	WBSEDCL	9163271007	monojit. dutze Whisedch in	C
33	Mr. N.N.Barik	DE/PTP	WBSEDCL	9830631073	nabinbasik @ gmant. com,	AST .
34	Mr. Harish Saran	Executive Director	PTC INDIA LIMITED	9810394429	harishsaran@ptcindia.com	Ann
35	Ms. Nandita Chakraborty	RM(ER & NER)	PTC INDIA LIMITED	9831630072	noudità. Olhamaberty@pteindia.	can the
36	Mr. Manoj Kumar	ESE (PMC)	BSPHCL	9262398388	Pour moneyentalle guil. on	25/11/22
37	Mr. Zafir Ahmed	EEE (PMC)	BSPHCL	7260803013	powermangenetal co 120 gm	
38	Mr. Rishi Nandan	GM(Commercial)	JBVNL	9431708983	cecn 2018 C.J C-	
39	Mr. V P Dubey	GM(IAFM)	JBVNL	9431135525	FMJBrML & gymon 1 Ceu	h
40	Mr. P.K.Das	CGM (PP)	GRIDCO	9438907408	prashootk_das @ yahao-co. 00	la

Ven	ue: Taj City Centre, New Tow	vn , Kolkata	Time	: 10:30 Hrs.	Date: 25.	11.2022 (Friday)
SI. No.	Name	Designation	Organisation	Contact No.	E-mail Id	Signature
41	Mr. B B Mehta	Director(Sldc)	SLDC, Odisha	9438907008/9879200736	dir.sldc@optcl.co.in	
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46	Mr. Uttam Kumar	Director (Op)	BSPTCL	9264477220	dir. op 62 Pter Qgu	10 am
47	Mr. H R Panday	Director(P)	BSPTCL	7763817709	dir. pooj. bsptcl @gonail.com	(A)
48	Mr. A K Chaudhary	C.E (SO)	BSPTCL	7763817733	Cersysop Qgmail, com	Olly
49	Mr. D. K. Jha	CE (Planning and Engineering)	BSPTCL	7763817730	ceptanningenys @ ganaition	And
50	Mr. Kumar Manish	Dy Mgr.	ATL/NKTL	9334689726	Kuman manish Codomi . Co	~ K.M.
51	Mr. Nimish Sheth	COO	DMTCL	7042879619	Mimia. shek @ Selura in	1 20 15
52	Mr. Avinash Rao	CEO	DMTCL	7400054387	Kvinuth. Rao @ Sekura. in	Me
53	Mr. V Srinivas	CGM(Commercial)	CTUIL	8130990575	Vernivas & powegig."	p gr
54	Mr. Shiv Kumar Gupta	DGM	CTUIL	7007496879	SHIVKUMARQ POWERGRID.IN	RU
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58	Mr. Sonam Wangdi	Chief Engineer	Mangdechhu Hydro Power Authority,	-17624843	swangdice.mhpa@gmail.com	Santo en Si
59	Mr. Chophel	Chief Engineer	Bhutan Power Corporation	-17622317	chophel@bpc.bt	Mul C
60	Mr. A P GANGADHARAN	ED(AM)	POWERGRID	9910378122.	apganga Planngpidinte	and

Venue: Taj City Centre, New Town, Kolkata			Time:	10:30 Hrs.	Date: 25.11.2022 (Friday)		
SI. No.	Name	Designation	Organisation	Contact No.	E-mail Id	Signature	
61	Mr. Vishal Singh	GM(GA&C)	POWERGRID	9650080965	Vishelsinghe Pohikkykin:	M. FRANKE	
62	Mr. Partha Ghosh	Chief Manager	POWERGRID	9434748263	0	- toppo	
63	Mr. Namgyal Tashi	Executive Engineer (SLDC)	Sikkim	7797672743	Mangy allastie V@ quer	. Od	
64	Sonam Ongchuk Lepcha	Assistant Engineer (EHV)	Sikkim	7548917326	conamwongetwb@pm.me	601	
65	Mr. Ashish Lamichaney	Assistant Engineer (EHV)	Sikkim	9615878284	alani cheney @ gmail. com	2 unichigh	
66	Mr. Sudipta Mukherjee	ED	HEL	9831378601	sudip to muchingle Orpsg.	in the i	
67	Mr. Chiranjib Bhowmick	GM	HEL				
68	Mr. Goutam Biswas	MD	DPL	9434706553			
69	Mr. Partha Pratim Roy	GM(Comml)	DPL	9434706349	P. roy@dpl.net. in	Ben_	
70	Shri Bilash Achari	DGM, SO	ERLDC	7003472016	bilash. achani@ posoce. in	TR. SMAT WY	
71	Shri Saugato Mondal	DGM, SO	ERLDC	9433041885	sangato@ posoco.in	2/17/5	
72	Shri Rajib Sutradhar	ED	ERLDC	9436302714	onlibenhalle @ posoco.in	anto	
73	Shri Amaresh Mallick	CGM, MO	ERLDC	9123648898	amarish mallicke	अम्मरेय	
74	Shri Shyamal Konar	GM, SO	ERLDC	9436335370	Konars @ posoco in	Slover	
75	Shri Debabrata Biswas	DGM, SCADA	ERLDC	9434740041	d bismolfosoco, in	à	
76	Shri Ankit Jain	CM, MO	ERLDC	7005631857	anktjaneposoco.n	31AFE	
77	Shri Saibal Ghosh	Manager, SO	ERLDC	8584072079	Saibal@posoco.in	Sculal Comm	
78	Mr. Rajdeep Bhattacharjee	Resident Engineer	BSPHCL	9477345084	rekollosphel 2 gmaile com	No 1.	
79	Sri Sabyasachi Roy	Director(Operations)	WBSETCL	9432316727	Sabya_60@yahoo.com	A CONTRACTOR	
80	Sri Dilip Das	C.E., CTD	WBSETCL	9434910028	cectdwbsetcl@gmail.com	Shlar	

Venue: Taj City Centre, New Town, Kolkata			Time	: 10:30 Hrs.	Date: 25.11.2022 (Friday)		
SI. No.	Name	Designation	Organisation	Contact No.	E-mail Id	Signature	
81	Sri Debashis Chaki	C.E., CPD	WBSETCL	9434910019	cpd.wbsetcl@gmail.com	Mychon	
82	Sri Goutam Nayak	C.E., SLDC	WBSETCL	9434910030	ce.wbsldc@gmail.com	Lestupon	
83	Mr. Arup Sarkar	Member (Finance)	DVC	9428294115	memberfinara Que.	tractor	
84	Mr. Asim Nandy	Executive Director(Commercial)	DVC	9432165236	asim. nand you dre. gov. in	- Ch-	
85	Mr. Subrata Ghosal	PCE(Commercial)	DVC	9432677003	Subrate ground & dree gan	Slehms	
86	Mr. Sandip Pal	Chief Engineer(System)	DVC	7332901432	Sandip. pal & dive. gov. in	Clark	
87	Mr. Debi Prasad Puitandi	Chief Engineer(SLDC)	DVC	9434745905	deliprosal puitandi dire	Amp	
88	Mr. Sandip Pal	Vice President (SO)	CESC Limited	9831054651	sandip.pal@rpsg.in	Aã	
89	Mr. Arunava Sen Gupta	General Manager (SO)	CESC Limited	9831802682	arunava.gupta@rpsg.in		
90	Mr. Indu Bhusan Chakraborty	Head(PM&C)	India Power	9836384567		1924-	
91	Mr. Amit Prakash	Head(Comml)	India Power	9350582606	amit . poural @ infra	ower be	
92	Mr. NS Mondal	Member Secretary	ERPC		here and here	m	
	Mr. S Kejriwal	Superintending Engineer	ERPC			Shig-	
<b>Q</b> 4	Mr. S Roy	Superintending Engineer	ERPC				
95	Mr. A De	Executive Engineer	ERPC			OS Q _	
96	Mr. P P Jena	Executive Engineer	ERPC			Duing.	
97	Mr. S Sarvesh	Assistant Executive Engineer	ERPC			J. Jarvesh	
98	Mr. S K Pradhan	Assistant Executive Engineer	ERPC	\$249244719	Sk. pradhan 50 gov. in		
99	Mr. S R Swain	Assistant Engineer	ERPC			Salwart	
100	Mr. K Satyam	Assistant Engineer	ERPC			kna seten	

Ven	ue: Taj City Centre, New Town	, Kolkata	Time	: 10:30 Hrs.	Date: 25.	11.2022 (Friday)
SI. No.	Name	Designation	Organisation	Contact No.	E-mail Id	Signature
107	Hemanta Kiomas Chik	L.O. GRADCO	GRIDCO	8917347112	hemont as a proil in	Az
102	SANTANU ROY	SE/PTP	WBSEDCL	9733256232		
103	IRSHAD ARCHTAR	EEE(Com)	SBPDCL	7763814050		11/2
104	Tayant to. Duley	ESE (EA)	NORPOCL	7320920591	dubey. jayant@gmail .	der .
105	R. R. ahosh	Advisor FRD	TACL	98363-765	18 ptc. ghash & outap	un.con Allh
106	S.K. Das	DGM	OPTCL	9438907366	ele. santorn don O optice	the
107	DK Javen <sup>o</sup>	CCM-ER2	Pacil		javeri Powerford in	3 BL
108	A-K. Maib	80, BR-2	pGCLL	943434026	akmait Comorgist. is	Rant
109	RAJESH WADHWA	CGM-ERI	POWERGENS	9873549053	Lwadhere "	R
110	ANOJAN NR. DAS	GM BOWBRARD	PAUL	9434740029	sufferndes @ powergrid.	in grater
111	Salipta Mitra	Dec, System, DVC	/	8210222861	sendipta. mitma@dve.gov,	
112					¢ (	
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		And the second				

### 'Upcoming Replacement/Upgradation of SCADA/EMS System' -Minutes of Meeting between POWERGRID and POSOCO

Venue: Corporate Center (Gurgaon). POWERGRID Date : 08 Sep 2022 Time : 03:00 PM

A meeting was held between CMD, POWERGRID and CMD, POSOCO along with the team members to discuss upcoming replacement/upgradation of SCADA/EMS

The list of participants is attached at Annex - I.

- 1. Upgradation/replacement of SCADA/EMS system at various RLDCs: Considering the expiry of existing AMC of SCADA/EMS system by 2025, the awarding process for the upgradation of all LDCs need to be expedited. During the meeting, different type of implementation models like TOTEX, ownership of projects, segregation of implementation and coordination of tendering process etc. were discussed and following are the broad points agreed upon:
  - a. Support Service: Considering the present support service problems faced at the control centres, cyber security concerns, replacement/upgraded items handling, suitable provisions should be incorporated in TS/Contract documents.
  - b. One Region One Tender: There will be one tender for all states in a Region. As discussed, NR & ER will be taken up by POWERGRID while SR & WR will be taken up by POSOCO. NER is yet to decide and will be decided subsequently.
  - c. Mode of Implementation: POWERGRID shall be implementing NR & ER through tariff mode and POSOCO shall be implementing SR & WR through funding by the respective utilities. For, NRLDC and ERLDC, the implementation will be done by POWERGRID on consultancy basis. It was discussed and decided that 10% consultancy fee shall be charged for the same.
    - i. In case the tendering process for [harkhand and Himachal Pradesh (HP) will be taken up by POWERGRID, the utilities to agree for implementation through tariff mode. POSOCO shall pursue with both utilities for the same. If HP and/or lharkhand arrange self-funding, POWERGRID shall execute their works on consultancy basis with 10% consultancy charges.
  - d. Uniformity of Tender Document and other documents: To ensure uniformity and ease of implementation, technical specification and QR shall be jointly finalized and adopted by both the organization. The commercial clauses, GCC & SCC etc. shall be as per respective organization who is doing procurement i.e POWERGRID/POSOCO. Post finalization of these documents, the tendering and other post award activities including signing of MoU with the respective states, shall be handled by POWERGRID and POSOCO respectively for their respective Regions.
  - e. Staggered tendering approach: It was agreed to have around 4 weeks between floating of tenders for respective region. The indicative staggered tendering will be NR  $(POWERGRID) \rightarrow SR (POSOCO) \rightarrow ER (POWERGRID) \rightarrow WR (POSOCO) \rightarrow NER (to be$ decided).

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Page 1 of 3

f. Make in India: Both POWERGRID and POSOCO shall approach MoP/DoT individually for the exemption from Make in India (MII) clause related to exemption of procurement of EMS/SCADA and cyber security equipment.

The meeting ended with thanks to all the participants.

Signed by:

(POWERGRID) (Y.K.DIXIT) ED (IB, BDD, SARC)

(POSOCO) 14/9/22 CK Musalikrishna) ED(corp. Engineering)

Annex – I:

### **List of Participants**

#### POWERGRID

- Sh K Sreekant, CMD, POWERGRID
- Sh R K Tyagi, Director, Operations
- Sh Sunil Agrawal, ED, CP
- Sh Y K Dixit, ED, GA&C
- Sh B Anantha Sarma, ED, CS
- Sh K K Gupta. CGM. CS
- Dr. Sunita Chohan, CGM, LD&C
- Smt. Sruti Mishra, Sr GM, CMD Coord Cell
- Sh A K Singh, Sr GM, LD&C
- Sh Vikas Kumar, CM, CMD Coord Cell
- Sh B B Singh, CM, D(O) Cell

#### POSOCO

- Sh S R Narasimhan, CMD, POSOCO
- Sh Debasis De, ED, NLDC
- Sh K Murali Krishna ED, Engineering
- Sh Manoj Kumar Agrawal, CGM
- Sh Sajan George, Sr GM
- Sh Harish Kumar Rathour. G!
- Sh Rakesh Kumar, CM, CMD Cell

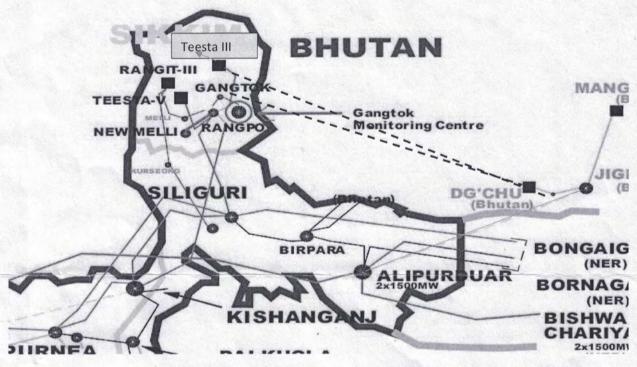
# Connectivity of Teesta III to ISTS Fibre communication network

S. No.	Items	Details				
1.	Name of Scheme	Connectivity of Teesta III(Teesta Urja Ltd.) to ISTS communication network				
2.	Scope of the scheme	The OPGW installation on Teesta III- Dg'chu portion (approx. 26 kms line length) of 400kV Teesta III – Rangpo#2(TPTL line).				
3.	Depiction of the scheme on FO Map	Exhibit-I				
4.	Objective / Justification	Presently, Teesta III is connected through Teesta III - Rangpo PLCC link.				
		First Fiber path is under implementation through Teesta III- Rangpo circuit#1.				
		Teests-III-Rangpo#2 is LILOed at Dg'chu. The Redundant Fiber path for Teesta-III may be planned through LILO of Teesta III-Rangpo #2. For redundant fiber path, OPGW may be laid on Teesta III- Dg'chu portion (approx. 26 kms line length) of Teesta III – Rangpo#2.				
		OPGW is already planned on Dg'chu -Rangpo portion Teesta III – Rangpo#2.				
5.	Estimated Cost	Rs. 1.167 Crore (approx.)				
6.	Implementation time frame	21 months from Gazette notification.				

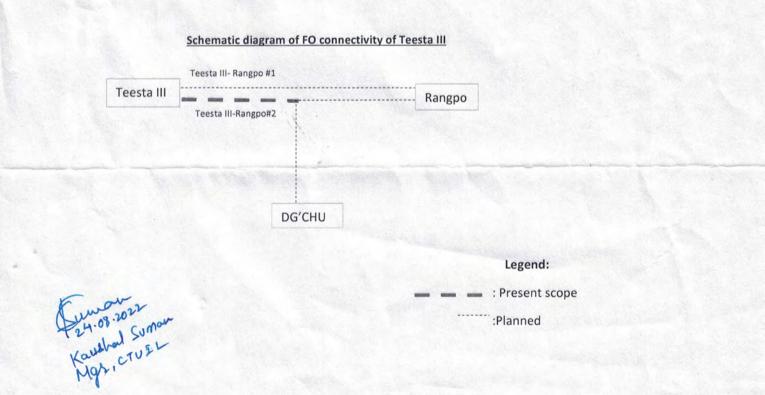
Koushal Suman Norager, CTUEL

#### Exhibit-l

#### FO connectivity of Teesta III in Map



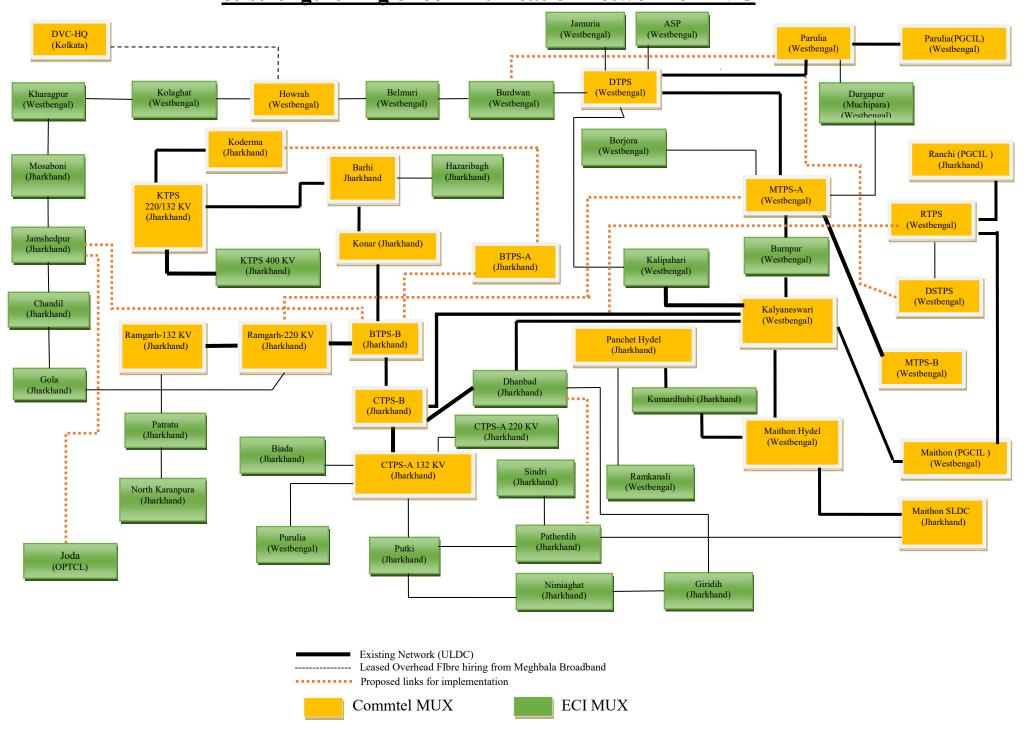




# <u>Proposed List of links for OPGW laying in DVC Sector for redundancy</u> <u>& strengthening of communication network of DVC</u>

S/n	Name of Link	Voltage	Approx.	Remarks
		Level	Length (Km)	
1	BokaroA-Koderma	400KV	105	Redundant connectivity for both BokaroA & Koderma
2	Dhanbad-Patherdih	132KV	22	For better redundancy of Dhanbad with SLDC, implementation of DTPC & strengthening of
				communication network.
3	CTPS-Kalyaneshwary LILO at RTPS	220KV	125	For redundant connectivity of RTPS & implementation of DTPC
4	Parulia-Bardhaman	220KV	90	For redundant connectivity of Parulia
5	DTPS-Parulia (LILO at DSPTS) LILO part (48F)	220KV	8	For redundant connectivity of DSTPS
6	BokaroB-Jamshedpur (DVC)	220KV	155	For better redundancy of Jamshedpur &
				strengthening of communication network. DVC-OPTCL connectivity.
7	Joda-Jamshedpur(DVC)	400KV	140	DVC-OPTCL connectivity, implementation of DTPC & strengthening of communication network.
8	MejiaA-Ramgarh220	220KV	155	For redundant connectivity of Ramgarh, implementation of DTPC & Strengthening of communication network.
9	BTPSA-BTPSB (UGFO)	UG	5	For redundant connectivity of BTPS-A
	Total		<mark>805</mark>	

# <u>Proposed List of links for OPGW laying in DVC Sector for redundancy</u> & strengthening of communication network of DVC



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#### SUMMARY OF DEVIATION CHARGE RECEIPT AND PAYMENT STATUS

#### BILL UPTO 16-10-2022 (W-29 of 2022-2023) Last Payment Disbursement Date - 01-11-2022

Last Payment Disbursement Date - 01-11-2022 Figures in Rs. Lakhs							
CONSTITUENTS	Net outstanding for 2021-22	Receivable	Received	Payable	Paid	Outstanding for 2022-23	Total Outstanding
BSPTCL	0.00000	16,226.50793	546.03092	5,188.65179	0.00000	10,491.82522	10,491.82522
JUVNL	0.00000	11,766.11809	420.78070	633.41684	0.00000	10,711.92055	10,711.92055
DVC	0.00000	7,211.84605	7,417.40721	906.89269	1,309.63872	197.18487	197.18487
GRIDCO	6.42843	27,199.05695	25,417.09092	3,448.21868	3,540.69735	1,874.44470	1,880.87313
WBSETCL	82.45475	20,237.93909	20,168.86138	2,325.47492	2,348.34341	91.94620	174.40095
Sikkim	456.99860	844.03770	0.00000	746.40107	0.00000	97.63663	554.63523
NTPC	0.00000	11,437.73732	11,054.84399	24.44012	24.48653	382.93974	382.93974
NHPC	0.00000	0.00000	0.00000	1,549.31800	1,549.31800	0.00000	0.00000
MPL	0.00000	104.83023	104.83023	591.20505	591.20505	0.00000	0.00000
APNRL	0.00000	799.82517	511.06072	95.72776	95.72776	288.76445	288.76445
CHUZACHEN	0.00000	55.58589	55.58589	151.74629	151.74629	0.00000	0.00000
NVVN-BD	0.00000	23.36139	23.36139	531.14566	531.14566	0.00000	0.00000
GMR	0.00000	517.65715	322.74292	216.53049	216.95089	195.33463	195.33463
JITPL	0.00000	1,046.47024	1,035.80834	119.87725	119.87725	10.66190	10.66190
TPTCL (Dagachu)	0.00000	3,312.37867	3,266.08433	0.00000	0.00000	46.29434	46.29434
JLHEP	0.00000	1,172.32873	1,128.45854	0.00000	0.00000	43.87019	43.87019
NVVN-NEPAL	0.00000	6,018.80423	6,018.80423	1,019.10229	1,019.10229	0.00000	0.00000
IBEUL	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
BRBCL	0.00000	674.14065	637.09702	92.97842	92.97842	37.04363	37.04363
PGCIL SASARAM	0.00000	22.44037	22.43064	38.16229	38.16229	0.00973	0.00973
TUL (Teesta-III)	-0.02372	923.01837	922.99465	90.00523	90.00523	0.02372	0.00000
NERLDC	-411.85650	1,18,588.51844	1,17,079.72788	21,452.14110	21,452.14110	1,508.79056	1,096.93406
WRLDC	-42.74324	0.00000	0.00000	6,09,666.37508	6,09,666.39986	0.02478	-42.71846
NRLDC	-4,591.25039	1,47,310.76685	1,73,848.87507	9,028.70567	9,028.70567	-26,538.10822	-31,129.35861
SRLDC	-335.82650	3,24,076.52945	3,05,193.84999	0.00000	0.00000	18,882.67946	18,546.85296
VAE	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Dikchu	0.00000	70.76512	70.76512	204.19152	204.48244	0.29092	0.29092
PGCIL-Alipurduar	0.00000	13.37830	9.33411	5.70548	5.70548	4.04419	4.04419
Tashiding(THEP)	0.00000	391.31736	388.92466	103.14677	103.14677	2.39270	2.39270
OPGC	0.00000	8.21880	0.00000	0.00000	0.00000	8.21880	8.21880
KBUNL	0.00000	322.85495	322.85531	35.85888	35.85888	-0.00036	-0.00036
NPGC	0.00000	741.08458	741.08458	181.29066	181.29066	0.00000	0.00000
NPGC-Infirm	0.00000	298.01341	298.01341	1,006.41355	1,006.41355	0.00000	0.00000
RONGNICHU	0.00000	20.68357	20.68357	337.64995	337.64995	0.00000	0.00000
BRBCL U4 Infirm	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
PTC Bhutan	0.00000	0.00000	0.00000	141.54024	141.54024	0.00000	0.00000
Total	-4,835.81857	7,01,436.21505	6,77,048.38772	6,59,932.31374	6,53,882.71974	18,338.23333	13,502.41476

Receivable:	Receivable by El	R Payable:	Payable by ER POOL
Received:	Received by ER	P Paid:	Paid by ER POOL
'- ve' Payable b	y ER pool	'+ ve' Receivat	ole by ER pool

STATUS OF REACTIVE CHARGES						
		AS OI	N 01.11.22			
Name of Parties	Receivable Amount by pool	Received Amount by pool	Payable Amount by pool	Paid Amount by pool	Outstanding Amount Receivable(+Ve) / Payable by pool(-Ve)	
BSPHCL	4,61,21,706	3,32,50,493	1,79,63,568	97,12,179	46,19,824	
JUVNL	8,90,10,509	4,86,20,925	0	0	4,03,89,584	
DVC	3,46,78,692	3,39,12,260	18,38,832	18,38,832	7,66,432	
GRIDCO	2,68,96,394	2,40,94,858	18,07,808	18,07,808	28,01,536	
SIKKIM	51,50,571	48,00,000	6,07,920	2,57,349	0	
WBSETCL	3,79,74,057	3,48,19,857	71,09,216	40,41,768	86,752	

Receivable:	Receivable b	y ER Payable:	Payable by ER POOL
Received:	Received by	ER P Paid:	Paid by ER POOL
'- ve' Payable by	y ER pool	'+ ve' Receiv	vable by ER pool

Sl. No.	Details	Existing Provisions	Proposed Amendment in ERPC CBR 2022	Remarks
ERPC (O	CONDUCT OF B	USINESS RULES), 20	22	
1.	Definitions		New Definitions added CTU, NCT, NLDC, NPC, TeST Sub-Committee, Transmission Planning Sub-Committee. Deleted Standing Committee	
2.	Periodicity of ERPC Meeting	At least once in 6 months	At least once in a month	As per MoP Resolution dated 03.12.2021 and subsequent Corrigendum dated 17.12.2021
3.	Membership of ERPC		<ul> <li>New Members added</li> <li>1. Central Government Owned Transmission Company</li> <li>2. A representative of one private transmission licensee, nominated by Central Government, operating the Inter State Transmission System, by alphabetical rotation out of such Transmission Licensee operating in the region.</li> <li>3. A representative each of every Nodal Agency appointed by the</li> </ul>	As per MoP Resolution dated 03.12.2021 and subsequent Corrigendum dated 17.12.2021
			Government of India for coordinating cross-border power transactions with the countries having electrical inter-connection	

			with the region.	
4.	Functions of ERPC		1. To provide views on the inter-state transmission system planned by CTU within 45 days of the receipt of the proposal by the concerned RPC. The views of RPC will be considered by National Committee on Transmission for sending their recommendation to Ministry of Power for approval of new inter- state transmission system.	As per MoP Resolution dated 03.12.2021 and subsequent Corrigendum dated 17.12.2021
5.	Sub Committees of ERPC		Newly Added Sub-Committee         1. Telecommunication,         SCADA & Telemetry         Sub-Committee (TeST)         2. Transmission Planning         Sub-Committee (TPC-ER)         Deleted         1. System Study Sub-	
6.	Functions&dutiesofERPCSecretariat		Committee New Commercial Accounts added Ramping Certificate, Declared Capacity (DC) Certificate, Security Constraint Economic Despatch Account (SCED)	
ERPC (	(TECHNICAL CO	-ORDINATION SUB-	COMMITTEE) REGULATIONS, 20	)22
7.	Presiding Authority and the Convener of TCC Meeting	Member Secretary, ERPC shall convene the meeting.	<ol> <li>Member Secretary, ERPC shall be the Co- Chairperson of TCC.</li> <li>Superintending Engineer, ERPC shall be the convener of the meeting.</li> </ol>	

8.	Hosting the	The OCC, CCM,	In general, The OCC, CCM, PCC,	
0.	OCC, CCM, PCC, TeST, TPC-ER Meetings	PCC meeting shall be hosted at ERPC Secretariat, Kolkata. The expenditure for hosting the meeting will be met from ''ERPC Fund''.	TeST, TPC-ER meetings shall be hosted by ERPC Secretariat. However, in special cases the same may be hosted by any other constituents of ER.	
ERPC	(ESTABLISHME)	NT FUND) REGULAT	TIONS,2022	
9.	Contribution	All members of ERPC	1. All members and non-	
		except CEA, NLDC and ERLDC shall	regular members of ERPC	
		contribute	except CEA, NLDC and	
		equal amount on annual basis as per	ERLDC shall contribute on	
		the decision of ERPC.	annual basis as per the	
		Members of ERPC shall send their	decision of ERPC.	
		contribution by	Contribution shall be sent	
		demand draft/ pay order/ cheque drawn	through any electronic	
		in favour of "ERPC	mode.	
		Establishment Fund" payable in Kolkata.		
10.	Operation	The fund shall be	1. The fund shall be	
		operated by a group of three officers	operated by a group of	
		from member	three officers from	
		constituents of	member constituents of	
		ERPC posted in Kolkata as	ERPC, preferably posted	
		nominated by	in Kolkata as nominated	
		Member Secretary, ERPC. Bank	by Member Secretary,	
		account shall be	ERPC. Bank account shall	
		opened in the name		
		of the fund in a scheduled bank and	be opened in the name of	
		officers	the fund in a scheduled	
		nominated as above		

	shall be given the cheque drawing authority.	
11 Budget Expendit		<ol> <li>ERPC Secretariat shall place the head wise budget estimate for the next financial year before the ERPC forum in the last ERPC meeting of the current financial year for its approval.</li> <li>Expenditure against approved budget, as per para (6), can be made with the approval of Member Secretary, ERPC.</li> <li>To meet petty Miscellaneous Expenditure, a revolving fund of Rs 25000/- shall be maintained by an officer nominated by Member Secretary, ERPC. The total Expenditure during a Financial Year shall be restricted to Rs 100000/- under this head.</li> </ol>
12. Audit ERPC	of Yearly statement of receipt &	

Establishmen Fund	fund shall be placed before the ERPC. The accounts of the fund shall be got audited by two officers, one officer nominated by incumbent Chairperson from his own organisation and the other nominated by the Chairperson of previous year from his own organisation. The officers nominated as above shall be other than the officers	<ul> <li>three officers; one officer nominated by incumbent Chairperson from his own organization &amp; Second officer nominated by the Chairperson of previous year from his own organization and third officer nominated by Member Secretary, ERPC. The officers nominated as above shall be other than the officers nominated as per para-4 above. The Member Secretary, ERPC will approve the statement of the fund before placing the same to auditor.</li> <li>2. The fund shall be got audited every year by a Chartered Accountant</li> </ul>	
	nominated as per para-4 above.	<ul> <li>3. Audited yearly statement(s) of the fund shall be adopted at the ERPC on consensus.</li> </ul>	
ERPC FUND REGULA	All members of ERPC except CEA, NLDC and ERLDC shall contribute equal amount on annual basis as per the decision of ERPC. Members of ERPC shall send their contribution by demand draft/ pay order/ cheque drawn in favour of "ERPC	members of ERPC except CEA <u>NLDC and ERLDC</u> shall contribute on annual basis as per the decision of ERPC. Contribution shall be sent through	

	1	Fund" novable in		
		Fund" payable in		
14.	Operation	Kolkata. The fund shall be operated by a group of three officers from member constituents of ERPC posted in Kolkata as nominated by Member Secretary, ERPC. Bank account shall be opened in the name of the fund in a scheduled bank and officers nominated as above shall be given the cheque drawing authority.	1. The fund shall be operated by a group of three officers from member constituents of ERPC preferably posted in Kolkata as nominated by Member Secretary, ERPC. Bank account shall be opened in the name of the fund in a scheduled bank and officers nominated as above shall be given the cheque drawing authority. The tenure of each nominated officer will be three years which can be further extended up to two years at the sole discretion of Member Secretary, ERPC.	
15	Budget & Expenditure	Cheques can be drawn on this account only against expenses approved by Member Secretary, ERPC.	<ol> <li>Expenditure from ERPC Fund can be made with the approval of Member Secretary, ERPC.</li> <li>To meet petty Miscellaneous Expenditure, a revolving fund of Rs 10000/- shall be maintained by an officer nominated by Member Secretary, ERPC. The total Expenditure during a Financial Year shall be restricted to Rs 50000/- under this head.</li> </ol>	
16.	Audit of ERPC Fund	Yearly statement of receipt & expenditure of the fund shall be placed before the ERPC.	<ol> <li>The statement(s) of the fund shall be verified by three officers; one officer nominated by incumbent Chairperson from his own organization &amp; Second</li> </ol>	

The accounts of the officer nominated by the	
fund shall be got Chairperson of previous	
audited by two year from his own	
officers, one officer organization and third	
nominated by officer nominated by	
incumbent Member Secretary, ERPC.	
Chairperson from The officers nominated as	
his own above shall be other than	
organisation and the the officers nominated as	
other nominated by per para-4 above. The	
the Chairperson of Member Secretary, ERPC	
previous will approve the statement	
year from his own of the fund before placing	
organisation. the same to auditor.	
The officers	
nominated as above 2. The fund shall be got	
shall be other than audited every year by a	
the officers Chartered Accountant	
1	
para-4 above.	
3. Audited yearly	
statement(s) of the fund	
shall be adopted at the	
ERPC on consensus.	

# EASTERN REGIONAL POWER COMMITTEE



ERPC (CONDUCT OF BUSINESS RULES), 2022

ERPC (TECHNICAL CO-ORDINATION SUB-COMMITTEE) REGULATIONS, 2022

ERPC (OPERATION CO-ORDINATION SUB-COMMITTEE) REGULATIONS, 2022

ERPC (COMMERCIAL SUB-COMMITTEE) REGULATIONS, 2022

ERPC (PROTECTION SUB-COMMITTEE) REGULATIONS, 2022

ERPC (TELECOMMUNICATION, SCADA AND TELEMETRY SUBCOMMITTEE) REGULATIONS, 2022

ERPC (TRANSMISSION PLANNING SUB-COMMITTEE REGULATIONS),2022

ERPC (ESTABLISHMENT FUND) REGULATIONS, 2022

ERPC FUND REGULATIONS, 2022

KOLKATA

NOVEMBER 2022

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### **Eastern Regional Power Committee**

(Conduct of Business) Rules, 2022

#### CHAPTER-I GENERAL

[Dated: 25<sup>th</sup> November 2022]

#### 1. Short title and commencement

- 1.1. Government of India, under the provision of Sub-Section 55 of Section 2 of the Electricity Act 2003 vide Resolution F.No. 23/21/2021-R&R dated 03<sup>rd</sup> December'2021 and subsequent Corrigendum dated 17<sup>th</sup> December'2021 published in the Gazette of India (herein after referred to as 'GoI Resolution', attached at Annexure-A) has established the Eastern Regional Power Committee (hereinafter referred to as 'ERPC') comprising of States of West Bengal, Bihar, Orissa, Jharkhand and Sikkim for facilitating the integrated operation of the power systems in the Region.
- 1.2. Drawing powers from the para (9) of the aforesaid GoI Resolution, the ERPC hereby makes the following rules called "Eastern Regional Power Committee (Conduct of Business) Rules,2022" (hereinafter referred to as 'CBR').
- 1.3. These rules shall come into force from the date of its approval by the ERPC and shall remain in force unless otherwise modified and shall supersede "Eastern Regional Power Committee (Conduct of Business) Rules, 2011".

#### 2. Definitions:

- 2.1 In these Rules unless the context otherwise requires:
  - a) 'Act' means the Electricity Act, 2003.
  - b) 'Agenda' means the list of business items proposed to be transacted at a meeting of the Committee or Sub-Committee.
  - c) 'Authority' means Central Electricity Authority (CEA)

- d) 'CBR' means 'Eastern Regional Power Committee (Conduct of Business) Rules, 2022'
- e) 'Commercial Sub-Committee (CC)' means a sub-committee constituted by the ERPC to consider commercial related issues.
- f) 'Commission' means the Central Electricity Regulatory Commission (CERC).
- g) 'Committee' means the Eastern Regional Power Committee (ERPC) constituted by the Central Government under Sub-Section (55) of Section 2 of the Act.
- h) 'CTU' means Central Transmission Utility.
- i) 'ERLDC' means Eastern Regional Load Despatch Centre.
- j) 'IEGC' means the Indian Electricity Grid Code regulations by CERC.
- k) 'Meeting' means a meeting of the Committee or Sub-Committee convened by the Head of the Secretariat or any member authorized to convene a meeting in the absence of the Head of Secretariat.
- 1) 'Member' means the member of the ERPC as per GoI Resolution.
- m) 'NCT' means National Committee on Transmission
- n) 'NLDC' means National Load Despatch Centre.
- o) "Non Regular Member" means members, except those as per GoI Resolution, who are participating in the meetings of ERPC paying Participation fees.
- p) 'NPC' means National Power Committee constituted by MoP, GoI to resolve the issues among RPCs.
- q) 'Operation Coordination Sub-Committee (OCC)' means a sub-committee constituted by the ERPC to consider all issues related to operation of the regional grid.
- r) 'POSOCO' means Power System Operation Corporation Limited.
- s) 'Protection Sub-Committee (PC)' means a sub-committee constituted by the ERPC to consider all power system protection related issues.
- t) 'Sub-Committee' means the sub-committee constituted by ERPC to guide and assist it in conducting the functions assigned to it.
- u) 'System Study Sub-Committee' means a sub-committee constituted by ERPC to carry out the system studies.

#### ERPC CBR-2022

- v) 'Technical Coordination Sub-Committee (TCC)' means a sub-committee constituted by the ERPC to assist the ERPC on all technical, commercial and other matters.
- w) 'TeST Sub-Committee' means a sub-committee constituted by ERPC to consider all issues related to Telecommunication, SCADA and Telemetry.
- x) "Transmission Planning Sub-Committee" means a sub-committee constituted by ERPC to study and give suggestions on the intra-state transmission planning proposals submitted by the state transmission utilities including DVC.
- y) "Year" means a financial year.
- 2.2 The words and expression used and not defined in these Rules shall be construed as having the same meaning as defined in the Act.

#### 3. Functions of ERPC

- 3.1 Clause 29 (4) of the Act provides that "the Regional Power Committee in the region may, from time to time; agree on matters concerning the stability and smooth operation of the integrated grid and economy and efficiency in the operation of the power system in that region."
- 3.2 As per Clause-6 of the MoP Resolution dated 3rd December 2021 ERPC shall carry out following functions:
  - (1) To undertake Regional Level operation analysis for improving grid performance.
  - (2) To facilitate inter-state/inter-regional transfer of power.
  - (3) To facilitate all functions of planning relating to inter-state/intra state transmission system with CTU / STU.

(3A) To provide views on the inter-state transmission system planned by CTU within 45 days of the receipt of the proposal by the concerned RPC. The views of RPC will be considered by National Committee on Transmission for

sending their recommendation to Ministry of Power for approval of new interstate transmission system.

- (4) To coordinate planning of maintenance of generating machines of various generating companies of the region including those of inter- state generating companies supplying electricity to the Region on annual basis and also to undertake review of maintenance programme on monthly basis.
- (5) To undertake planning of outage of transmission system on monthly basis.
- (6) To undertake operational planning studies including protection studies for stable operation of the grid.
- (7) To undertake planning for maintaining proper voltage through review of reactive compensation requirement through system study committee and monitoring of installed capacitors.
- (8) To evolve consensus on all issues relating to economy and efficiency in the operation of power system in the region.
- 3.3 ERPC shall discharge the functions envisaged in Regulations, IEGC and orders of CERC, CEA Regulations, Orders of MoP, GoI Resolution issued from time to time.
- 3.4 ERPC may decide any function for itself, from time to time.

#### 4. Chairperson of ERPC

4.1 Para (4) of the GoI Resolution provides:

"Chairperson of the ERPC would represent the States of the region by rotation in alphabetical order. Members of the ERPC from the particular State would nominate the Chairperson of ERPC from amongst themselves. The term of the Chairperson would be for a period of one year."

4.2 In the last ERPC meeting of each year, the members of the ERPC belonging to the concerned State shall nominate the Chairperson of the ERPC for the ensuing year, who shall take over the charge w.e.f. 1st April.

- 4.3 In the event, Chairperson ceases to be a member of the ERPC, and he/she is from a particular State having two or more members, members of ERPC from that State shall consult each other and communicate their nomination for Chairperson of ERPC.
- 4.4 As per MoP order No. A-60016/59/2005 Adm-I dated 23.02.2006, Member Secretary, ERPC will be under the administrative and financial control of the Chairperson, ERPC.
- 4.5 The Chairperson, ERPC shall preside over the ERPC meeting.

#### 5. Secretariat of ERPC

- 5.1 Clause-8 of MoP Resolution dated 3<sup>rd</sup> December 2021 specifies that: "The Committee shall have a Secretariat of its own which will be headed by the Member Secretary of the Committee. The Member Secretary as well as other staff for the Secretariat shall be provided by the Central Electricity Authority in the manner as was being provided to the erstwhile Eastern Regional Electricity Board."
- 5.2 The Secretariat shall be the nodal point for all communications with ERPC.
- 5.3 The Secretariat shall assist ERPC for discharging all the functions of ERPC.
- 5.4 The Secretariat shall also discharge functions assigned to it by MoP, CEA and CERC.
- 5.5 The detailed functions and duties of the Secretariat are appended at Annexure-I.

#### 5.6 Manpower

5.6.1 As per GoI Resolution, "The Committee shall have a secretariat of its own which will be headed by the Member Secretary of the Committee. The Member Secretary as well as other staff for the secretariat shall be provided by the Central Electricity Authority in the manner as was being provided to the erstwhile Eastern Regional Electricity Board".

- 5.6.2 However, in order to help discharge the duties of ERPC Secretariat, as and when required, officers from State Utilities of ER may be deputed to ERPC Secretariat on loan basis with consent of ERPC Forum.
- 5.6.3 However, in order to help discharge the duties of ERPC Secretariat, as and when required, Group "C" officials may be outsourced with consent of ERPC Forum.
- 5.6.4 Member Secretary is also empowered to hire services of personnel as and when required on short-term basis. The same shall be vetted by ERPC Forum in due course.
- 5.6.5 ERPC may hire experts or consultants for specific assignments. For this purpose, ERPC shall make regulation determining the terms and conditions.

#### 6. Constituents' obligation to furnish data / information to the Secretariat of ERPC

- 6.1 As per CEA Regulations Grid Standard 2010, clause (15)
  - (a) All real time operational data as required by the Appropriate Load Despatch Center shall be furnished by the Entities.
  - (b) All data required by Regional Power Committee, in discharge of the responsibilities assigned to it, shall be furnished by Regional Load Despatch Centre (RLDC).
  - (c) All operational data, including disturbance recorder and event logger reports, for analyzing the grid incidents and grid disturbance and any other data which in its view can be of help for analyzing grid incident or grid disturbance shall be furnished by all the Entities within twenty-four hours to the Regional Load Despatch Centre and concerned Regional Power Committee.
  - (d) All equipment such as disturbance recorders and event loggers shall be kept in healthy condition, so that under no condition such important data is lost.
  - (e) A real time operation display of the grid position shall also be made available to the Regional Power Committee by Regional Load Dispatch Centre.

- (f) Regional Load Dispatch Centre shall classify the grid incidents and grid disturbances according to regulation 11, analyse them and furnish periodic reports of grid incidents and grid disturbances to the Regional Power Committee which shall recommend remedial measures to be taken on the Report of Regional Load Despatch Centre to prevent recurrences of such grid incidents and grid disturbances.
- 6.2 The constituents of the region shall make available to the Secretariat all the data / information required by the Secretariat to discharge all its functions or to carry out any other responsibility/function assigned to it by the Authority/Commission/Committee

#### 7. Website of ERPC

The ERPC website shall be maintained by ERPC Secretariat.

#### **CHAPTER - II**

#### **METHODOLOGY TO DISCHARGE THE FUNCTIONS**

- 8. All decisions shall be taken during a meeting of the constituent members called 'ERPC Meeting'. All decisions of ERPC shall be by consensus. Chapter-III deals with the procedure for conducting ERPC Meeting as well as all other Sub-Committee meetings of ERPC.
- **9.** Para (10) of GoI Resolution dated 03.12.2021 and subsequent Corrigendeum dated 17.12.2021 provides:

"The Committee may constitute its Sub-Committees, Task Forces, Ad-hoc Committees and Standing Committees, as deemed necessary for efficient functioning. It may also set up, if required, Groups/ Committees of eminent experts to advise it on issues of specific nature. The level of the representative to the Sub-Committees etc. would depend on the nature of the issue concerned."

- **10.** Wherever a Sub-Committee is constituted to discharge the functions of ERPC on a regular basis, ERPC shall constitute such sub-committee(s) by making a separate regulation.
- 11. Wherever, Sub-Committees, Task Forces, Ad-hoc Committees and Standing Committees or Committee, Groups/ Committees of eminent experts is constituted to discharge a one-time job; ERPC or Sub-Committee constituted by it, shall constitute it through a resolution passed respectively in ERPC meeting or Sub-Committee meeting.

#### **CHAPTER-III**

#### PROCEDURE FOR CONDUCTING ERPC MEETING

#### 12. Periodicity, Place and date of ERPC Meeting

- 12.1 The ERPC shall meet at least once in a month, as per Clause-11 of MoP Resolution dated 3<sup>rd</sup> December 2021 and subsequent Corrigendum dated 17.12.2021.
- 12.2 Member Secretary, ERPC on its own or a matter referred by CEA/GOI or on a matter proposed by any constituents may convene a meeting on short notice on any urgent matter in consultation with The decision of Member Secretary and Chairperson with regard to degree of urgency shall be binding on all parties concerned.
- 12.3 The date of the meeting will be decided by Member Secretary, ERPC in consultation with Chairperson, ERPC as well as the host organisation. The place will be decided by Member Secretary, ERPC in consultation with the host organisation.
- 12.4 In case the situations are not conducive for physical meetings, the meetings may be conducted through Video Conferencing or Hybrid mode( physically as well as virtually).

#### 13. Hosting the ERPC meeting

- 13.1 Meeting will be hosted by member organizations as per the roster finalized by ERPC. The host member organisation shall incur its expenditure
- 13.2 ERPC shall determine the terms and procedure for maintaining the roster. The regulations on hosting of ERPC meetings are appended at Annexure-II.

#### 14. Re-scheduling / Cancellation of Meeting

14.1 If a meeting is required to be rescheduled or cancelled, the same shall be intimated to the members at the earliest by telephone/ e-mail and also posted on ERPC Website.

#### 15. Notice for the Committee meeting and Agenda

- 15.1 Notice for the Committee meeting shall be issued by Member Secretary, ERPC at least three weeks in advance in consultation with Chairperson, ERPC. For urgent meeting (refer 12.2) notice of one week may be given.
- 15.2 Agenda for Committee meeting shall be put up after discussions in TCC. Every constituent should ensure that it places its agenda item in time. For agenda of TCC meeting, refer the related regulations.
- 15.3 Agenda pertaining to ERPC Secretariat shall be placed directly before the Committee.
- 15.4 Member Secretary, ERPC may also put any agenda involving urgent matter/ policy issue directly before the Committee in consultation with Chairperson, ERPC.
- 15.5 Normally, ERPC shall meet to discuss the agenda related to transmission planning submitted by CTU on monthly basis. Discussions other than those related to transmission planning shall generally be put up after discussions in Technical Coordination Sub-Committee (TCC)

#### 16. Effect of Non-receipt of Notice of Meeting by a Member

16.1 The non-receipt of notice by any member of ERPC or Sub-Committees shall not invalidate the proceeding of the meeting or any decision taken in the meeting.

#### 17. Quorum of ERPC Meeting

- 17.1 The Quorum of the meeting shall be 50% of its members or the person authorized by the member.
- 17.2 Only members of ERPC accompanied by not more than two representatives of concerned organization shall participate in the meeting. Additional representatives may participate with prior permission of the Member Secretary.
- 17.3 Special Invitees by Member Secretary may also attend the meeting

#### 18. Decision making and implementation

- 18.1 All decisions shall be taken during a meeting of the constituent members called 'ERPC Meeting'. All decisions of ERPC shall be by consensus.
- 18.2 As per Clause-7 of MoP Resolution dated 3<sup>rd</sup> December 2021 and subsequent Corrigendum dated 17.12.2021, the decision of the ERPC arrived at for Operation of the Regional Grid and Scheduling and dispatch of Electricity shall be followed by Eastern Regional Load Despatch Centre (ERLDC) subject to the directions of regulations of the Central Commission, if any.
- 18.3 Each constituent shall follow the decision of ERPC and convey to the ERPC Secretariat the follow up action taken on the decision(s) taken in the previous meeting(s). ERPC Secretariat shall compile the follow up action on the decision(s) and place it before the ERPC. Follow up action shall be omitted for those decisions which have been completely implemented.

#### **19.** Presiding Authority and the Convener

- 19.1 The Chairperson, ERPC shall preside over the meeting of ERPC.
- 19.2 The Member Secretary, ERPC shall convene the meeting.

- 19.3 If the Chairperson is unable to be present at the meeting for any reason, ex-Chairperson of the previous year shall preside over the meeting. If ex-Chairperson is not present, then the ERPC members from State Utilities may decide among themselves who will preside over the meeting.
- 19.4 If the Member Secretary is unable to be present at the meeting for any reason, the next senior most officer of the ERPC Secretariat shall convene the meeting.

#### 20. Recording and finalization of the minutes

- 20.1 The host organisation shall get the proceedings of the meeting electronically recorded and handover its copy to the Secretariat. The Secretariat shall keep it as record until the minutes of the meeting get confirmed.
- 20.2 The minutes of the meeting shall be finalized after due approval of Chairperson, ERPC and circulated to all its members by ERPC Secretariat within 15 working days from the date of this meeting. The minutes shall also be posted on the website of ERPC.

#### 21. Confirmation of the Minutes

Minutes of the ERPC meeting shall be placed in the next meeting for getting confirmed. In case of minutes pertaining to urgent matters, it may be got confirmed by circulation among the members.

#### **CHAPTER-IV**

#### **COMPOSITION AND FUNCTIONS OF SUB-COMMITTEE OF ERPC**

#### 22. Constitution of Sub-Committee of ERPC

- 22.1 Following Sub-Committees have been constituted by ERPC to assist it in conducting the functions assigned to it in their respective Regulations:
  - 22.1.1 Technical Co-ordination Sub-Committee (TCC)
  - 22.1.2 Operation Co-ordination Sub-Committee (OCC)
  - 22.1.3 Commercial Sub-Committee (CC)
  - 22.1.4 Protection Co-ordination Sub-Committee (PCC)
  - 22.1.5 Telecommunication, SCADA & Telemetry Sub-Committee (TeST)
  - 22.1.6 Transmission Planning Sub-Committee ER(TPC-ER)
- 22.2 Each Sub-Committee shall make a regulation for the procedure for conducting its meetings and get it approved from ERPC. Each Sub- Committee may amend its procedure as and when it requires and get the amendment approved from ERPC.
- 22.3 Any of these sub-committees can be discontinued through a Resolution of ERPC.
- 22.4 ERPC may constitute any other sub-committee that it may deem fit through its Resolution.
- 22.5 TCC Meeting shall be hosted by member organization as per the roster finalized for ERPC meeting. Special TCC meeting, if any, shall be hosted separately by ERPC Secretariat.

#### **CHAPTER-V**

#### **EXPENDITURE OF ERPC**

- 23. MoP communication to CEA vide letter no. A-60016/59/2005 Adm-I dated 23<sup>rd</sup> February 2006 stipulates "The activities of the Regional Power Committees (RPCs) will be fully financed by the constituent Members with effect from 01.04.2006 and the Central Electricity Authority will take immediate steps in this regard."
- 24. MoP communication to CEA vide letter no. F.No.6/10/90-Trans dated 3rd April 2006 stipulates "For a transition period of six months the establishment expenditure of RPC would be met out of the budget of the CEA and the same will be reimbursed by the constituent members of the RPCs. Meanwhile, the constituents of RPCs will finalise the share of expenditure to be borne by the constituents of RPCs so that the RPCs become self-financing. The expenditure meted out from the budget and contribution of share by the constituent members will be reviewed by the Ministry of Power, every quarter."

Unquote (for para 23 & 24): All activities to be self-financed. All expenditures met out of the Central budget shall be reimbursed by the constituent members of ERPC. Any other Establishment related expenditure shall be financed by constituent members of ERPC.

- **25.** For the purpose of reimbursement of expenditures met out of Central Budget to the consolidated fund of GoI, and all other Establishment related expenditure a fund named "ERPC ESTABLISHMENT FUND" has been created and is being maintained by ERPC. Out of this fund, a cheque shall be issued and got deposited to the consolidated fund of GoI for an amount equal to the quarterly bill amount, within the period specified on the bill.
- **26.** As and when CEA/Central Government discontinue the practice of first spending from central budget and getting reimbursement, the all the establishment related expenditure of the ERPC Secretariat shall be met out of "ERPC Establishment Fund".
- 27. ERPC shall make regulations on "ERPC Establishment Fund".

- **28.** The expenses related to ERPC meeting shall be borne by each constituent in respect of the meeting hosted by it (on the basis of roster on its turn).
- **29.** Expenses related to sub-committee meetings and any other meetings/workshops/seminar hosted by ERPC Secretariat shall be met out of the fund named "ERPC FUND", which shall be maintained by ERPC for this purpose. ERPC shall make regulations on "ERPC Fund".
- **30.** Expenses related to activities as a consequence of functions entrusted under IEGC, other regulations / orders of CERC/MoP/CEA shall be met out of the "ERPC Fund" mentioned in para-(29) above.

### **MEMBER, MEMBER BY ROTATION & CONTRIBUTION**

#### **31.** Members of ERPC

GoI Resolution dated 03.12.2021 provides for permanent membership and membership of one year by rotation. As per the GoI Resolution the following organisations shall be permanent member of ERPC:

- (i) Member (Grid Operation & Distribution), Central Electricity Authority (CEA).
- One representative each of Central Generating Companies, Central Transmission Utility (CTU), Central Government owned Transmission Company, National Load Despatch Centre (NLDC) and the Eastern Regional Load Despatch Centre (ERLDC).
- (iii) From each of the States in the region, the State Generating Company, State Transmission Utility (STU), State Load Despatch Centre (SLDC), one of the State owned distribution companies as nominated by the State Government.
- (iv) A representative each of every generating company (other than central generating companies or State Government owned generating companies) having more than 1000 MW installed capacity in the region.

- (v) A representative each of every Nodal Agency appointed by the Government of India for coordinating cross-border power transactions with the countries having electrical inter-connection with the region.
- (vi) Member Secretary, ERPC Convenor

The representative from respective organizations should be either the head of the organization or at least a person not below the rank of a Director on the Board of the company / corporate entity except for Central Public Sector Undertaking (CPSUs) where representative could also be at the level of Executive Director.

#### **32.** Members of ERPC by rotation

The GoI Resolution also provides for membership of ERPC by rotation. The following organizations shall be member of ERPC by rotation for a period of one year.

- (i) One distribution company by alphabetical rotation out of the private distribution companies functioning in the region.
- (ii) A representative of the generating companies having power plants in the region [not covered in para 3(ii) to 3(iv) of GoI] by alphabetical rotation.
   A representative of one private transmission licensee, nominated by Central Government, operating the Inter State Transmission System, by alphabetical rotation out of such Transmission Licensee operating in the region.
- (iii) One member representing the electricity traders in the region by alphabetical rotation, which have trading volume of more than 500 million units during the previous financial year.

Wherever a member is represented by rotation, the nomination would be for a period of one year. The level of representation shall be same as is applicable for permanent members.

#### **33.** Non-regular Members of ERPC

As per the decision of 33<sup>rd</sup> ERPC Meeting, members, except those as per GoI Resolution, are Non-regular Members of ERPC.

### 34. Contribution

- (i) All members except CEA, NLDC and ERLDC shall contribute to 'ERPC Establishment Fund', 'ERPC Fund' and any other fund created by ERPC as per the regulations of respective funds.
- (ii) Contributions to the funds for the following year shall be decided by ERPC in its last meeting of the financial year and this decision shall be communicated to all members by ERPC Secretariat.
- (iii) All members shall send their contributions in one installment to the ERPC Secretariat within 30 days from the date of communication by ERPC Secretariat failing of which may attract penalty
- (iv) All contributions shall be made through any electronic mode.
- (v) The contribution of the constituents shall be kept in funds as 'Trustee' until the money is spent for the purpose.
- (vi) ERPC shall decide on the deployment of surplus funds from time to time. For this purpose ERPC shall constitute a group of at least three experts in the field of finance and audit from the constituents.
- (vii) Contribution by non-regular member organizations shall be decided by ERPC in its last meeting of the financial year and this decision shall be communicated to all members by ERPC Secretariat.

# CHAPTER-VI

# **REPORTS BY ERPC**

# SECRETARIAT

# **35.** The following reports shall be prepared and circulated.

Sl. No	Name of the report	Periodicity
1	Monthly Progress Report of Eastern Regional Grid/Operational Data	Monthly
2	Annual Report of ERPC	Annual
3.	Regional Load Generation Balance Reports	Annual + Mid-term
5.	Major Grid incident report	As and when required

### **CHAPTER-VII**

#### **MISCELLANEOUS**

### 36. Saving of inherent Power of the ERPC.

- (a) Nothing in these Rules shall bar the ERPC from adopting in conformity with the Act a procedure that is at variance with provisions in these Rules, if the ERPC in view of the special circumstances of a matter or class of matters deem it necessary or expedient to deal with such a matter or class of matters.
- (b) Nothing in these Rules shall expressly or by implication, bar the ERPC to deal with any matter or exercise any power under the Act for which no Rules have been framed and ERPC may deal with such matters and functions in a manner it thinks fit.

#### Annexure-I

#### **FUNCTIONS & DUTIES OF ERPC SECRETARIAT**

#### 1. The Secretariat shall perform the following duties namely:

- (i) Keep custody of records of proceedings of the Committee, Sub-Committees, Task Force and Working Groups of the ERPC.
- (ii) Prepare agenda for the Committee and Sub-Committee meetings.
- (iii) Prepare minutes of Committee and Sub-Committee meetings.
- (iv) Monitor follow-up action on the decision taken in the Committee & Sub-Committee meeting.
- (v) Maintain archive of data and information pertaining to operating parameters, protection system and communication system of the regional power system.
- (vi) Collect from the constituent members or other offices, companies, firms or any other party as may be directed by Committee, such information as may be considered useful in the efficient discharge of functions of the Committee under the Resolution and place the information before the Committee and its Sub-Committees.
- The duties and responsibility envisaged under Indian Electricity Grid Code Regulations (IEGC), other Regulations/Orders of MoP, CEA, CERC Regulations, ERPC Resolutions, GoI Resolution from time to time shall be carried out by the ERPC Secretariat.
- **3.** The functions envisaged for ERPC Secretariat in IEGC Regulations 2010 and subsequent amendments are given below:
  - (i) Compliance Oversight: The RPC in the region shall also continuously monitor the instances of non-compliance of the provisions of IEGC and try to sort out all operational issues and deliberate on the ways in which such cases of noncompliance are prevented in future by building consensus. The Member Secretary RPC may also report any issue that cannot be sorted out at the RPC forum to the Commission. The RPC shall also file monthly reports on
    - a. Status of UI payment

- b. Installation of capacitors by states vis-à-vis the requirement/targets, as decided in the RPC.
- (ii) Reactive Power Compensation: The person already connected to the grid shall also provide additional reactive compensation as per the quantum and time frame decided by respective RPC in consultation with RLDC. The Users and STUs shall provide information to RPC and RLDC regarding the installation and healthiness of the reactive compensation equipment on regular basis. RPC shall regularly monitor the status in this regard.
- (iii) System Security Aspects: Any prolonged outage of power system elements of any User/CTU/STU, which is causing or likely to cause danger to the grid or sub-optimal operation of the grid, shall regularly be monitored by RLDC. RLDC shall report such outages to RPC. RPC shall finalize action plan and give instructions to restore such elements in a specified time period.
- (iv) Power System Stabilizer: Power System Stabilizers (PSS) in AVRs of generating units (wherever provided), shall be got properly tuned by the respective generating unit owner as per a plan prepared for the purpose by the CTU/RPC from time to time.

CTU /RPC will be allowed to carry out checking of PSS and further tuning it, wherever considered necessary.

(v) Automatic Under Frequency Relay and df/dt relay: RPC shall decide and intimate the action required by SEB, distribution licensee and STUs to get required load relief from Under Frequency and Df/Dt relays. All SEB, distribution licensee and STUs shall abide by these decisions.

RLDC shall keep a comparative record of expected load relief and actual load relief obtained in Real time system operation. A monthly report on expected load relief vis-a- vis actual load relief shall be sent to the RPC and the CERC.

RLDC shall inform RPC Secretariat about instances when the desired load relief is not obtained through these relays in real time operation.

SLDC shall furnish monthly report of UFR and df/dt relay operation in their respective system to the respective RPC.

RPC Secretariat shall carry out periodic inspection of the underfrequency relays and maintain proper records of the inspection.

- (vi) System Protection Schemes (SPS): Such schemes would be finalized by the concerned RPC forum and shall always be kept in service.
- (vii) Voltage Control Measures: All Users, CTU and STUs shall provide adequate voltage control measures through voltage relay as finalized by RPC, to prevent voltage collapse.
- (viii) **Procedure for Operational Liaison:** Forced outages of important network elements in the grid shall be closely monitored at the RPC level.

RPC shall send a monthly report of prolonged outage of generators or transmission facilities to the Commission.

(ix) Outage Planning Process: The RPC Secretariat shall be primarily responsible for finalization of the annual outage plan for the following financial year by 31st January of each year.

All SEBs/STUs, transmission licensees, CTU, ISGS IPPs, MPPs and other generating stations shall provide RPC Secretariat their proposed outage programme in writing for the next financial year by 30<sup>th</sup> November of each year.

RPCs shall submit quarterly, half-yearly reports to the Commission indicating deviation in outages from the plan along with reasons .These reports shall also be put up on the RPC website.

(x) Demarcation of responsibilities: RLDC shall periodically review the actual deviation from the dispatch and net drawal schedules being issued, to check whether any of the regional entities are indulging in unfair gaming or collusion.

In case any such practice is detected, the matter shall be reported to the Member Secretary, RPC for further investigation/action.

- (xi) Preparation of various Accounts : RPC Secretariat or any other person as notified by the Commission from time to time, shall prepare monthly Regional Energy Account, Regional Transmission Account, Regional Transmission Deviation Account, Compensation account, Ramping certificate, DC certificate, Security Contraint Economic Despatch account, weekly Deviation Settlement Mechanism account, ancillary services accounts, Reactive Energy account, URS Account and congestion charge account, based on data provided by RLDC/NLDC/ISGS and renewable regulatory charge account based on data provided by SLDC/ RLDC of the State/ Region in which wind generator is located and any other charges specified by the Commission for the purpose of billing and payments of various charges.
- (xii) Transmission System Availability Certificate: Member Secretary, ERPC shall certify transmission system availability factor for regional AC and HVDC transmission systems separately for the purpose of payment of transmission charges.

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#### Annexure-II

### **REGULATIONS ON HOSTING OF ERPC MEETINGS**

- 1. As per Clause-11 of MoP Resolution dated 3rd December 2021 and subsequent Corrigendum dated 17.12.2021, ERPC shall meet at least once in a month.
- Members of ERPC who are members by rotation for a year as per GoI Resolution will not be required to host ERPC meeting [ e.g. Member-Trader, Member-IPP (≤1000 MW installed capacity) and Member-Private-DISCOM].
- **3.** The roster for hosting the ERPC meetings shall be in the order as was decided in the 1st meeting of ERPC.

Final host for a meeting will be decided by Member Secretary, ERPC in consultation with Chairperson, ERPC and shall be announced at the previous meeting. However, Member Secretary, ERPC is empowered to swap the order between two consecutive parties in the list. The roster is as under:

Sl.	Host Organization	
No.		
1.	West Bengal	
2.	DVC	
3.	NHPC	
4.	Power Grid	
5.	Sikkim	
6.	PTC	
7.	Orissa	
8.	Jharkhand	
9.	Bihar	
10.	NTPC	
11.	CESC	
12.	APNRL	
13.	MPL	
14.	JITPL	
15.	GMRKEL	
16.	TPTCL	
17.	Teesta Urja Limited	
18.	BRBCL	
19.	NPGC	

- 4. When the turn for hosting ERPC meeting comes to a State as per above roster, existing members of ERPC from that State (excluding IPPs in the State) shall decide amongst themselves as to who will host the meeting or whether the meeting will be hosted jointly by all members from that State or a group of members.
- 5. The host organisation shall communicate to the Secretariat about venue, nodal officer, contact telephone no, e-mail id etc.
- 6. The name of new member of ERPC will be appended to the roster.

### **Eastern Regional Power Committee**

### (Technical Co-ordination Sub-Committee) Regulations 2022

[Dated: 25<sup>th</sup> November 2022]

#### **General**

Drawing powers from the para (10) of the GoI Resolution dated 03.12.2021 and subsequent Corrigendum dated 17.12.2021, ERPC hereby makes the following Sub-Committee called "Technical Co-ordination Sub-Committee" (hereinafter referred to as 'TCC').

### 1. Functions of TCC:

TCC shall consider issues referred to it by the

- (a) Operation Co-ordination Sub-Committee
- (b) Commercial Sub-Committee
- (c) Protection Co-ordination Sub-Committee
- (d) Telecommunication, SCADA & Telemetry Sub-Committee (TeST)
- (e) Transmission Planning Sub-Committee ER(TPC-ER)
- (f) Other groups/committees/task force constituted by ERPC
- (g) Agenda points proposed by the constituents concerning operation of regional grid, commercial aspects, inter-state/inter- regional transfer of power, grid stability etc. leading to economy and efficiency in the operation of power system in the region.

TCC shall consider the matters/issues referred to it by CTU on transmission planning of Eastern Region.

TCC shall also consider the matters/issues referred to it by ERPC.

TCC shall assist to implement the decision of the ERPC and provide guidance on formulation of policy matters on regional grid operation, grid security and commercial matters.

### 2. Composition of TCC:

2.1 TCC shall comprise of one technical person from each of the ERPC member organizations.

- 2.2 The TCC members shall be at the level of Member/ Director in State Utilities, and Executive Director/ General Manager in CPSUs, Technical Head of Distribution Company/ Traders/ IPPs, Heads of NLDC & ERLDC, Chief Engineer of CEA and Member Secretary of ERPC.
- 2.3 Chairperson of TCC shall be nominated by Chairperson, ERPC and shall be from the State, the Chairperson, ERPC represents, for a period concurrent with his/her tenure.
- 2.4 In the event Chairperson, TCC ceases to be a member of TCC, then Chairperson, ERPC will nominate a new Chairperson.
- 2.5 In the event of change in the Chairperson, ERPC during a year, the incumbent Chairperson, TCC shall continue.

### PROCEDURE FOR CONDUCTING TCC MEETING

### 3. Periodicity and date of TCC Meeting

- 3.1 TCC shall normally meet a day before the ERPC meeting.
- 3.2 TCC may meet separately also as and when needed to address urgent matter which shall be called a special TCC meeting.
- 3.3 The date of Special TCC meeting will be decided by Member Secretary, ERPC in consultation with Chairperson, TCC.

### 4. Hosting the TCC meeting

TCC Meeting will be hosted by member organization as per the roster finalized for ERPC meeting. Special TCC meeting shall be hosted by ERPC Secretariat.

### 5. Re-scheduling / Cancellation of Meeting

If a meeting is required to be cancelled or rescheduled, the same shall be intimated to the members at the earliest by telephone / e-mail and also posted on ERPC website.

### 6. Notice for the Committee meeting and Agenda

- 6.1 Notice for the TCC meeting shall be issued by Member Secretary, ERPC at least three weeks in advance. Member Secretary, ERPC may convene a Special TCC meeting on short notice on any urgent matter in consultation with Chairperson, TCC.
- 6.2 Agenda for TCC meeting shall include issues referred to it by various subcommittees, other groups/committees/task force constituted by ERPC, agenda points proposed by constituents, matters/issues referred by CTU.
- 6.3 Notice may also be issued to non-regular Member organizations of ER to participate in the TCC meeting.
- 6.4 The agenda points proposed by the constituents for the meeting should reach ERPC Secretariat at least 15 days in advance of the meeting.
- 6.5 The Member Secretary, ERPC shall finalize the agenda in consultation with Chairperson, TCC and get it posted on the ERPC Website at least 7 days in advance and shall also circulate the agenda to all of its members. Agenda submitted beyond cut-off time as specified shall be posed to Chairperson, TCC for his/her permission. If permitted, it shall be taken up as additional agenda. Agenda submitted after the commencement of the meeting shall not be permitted.
- 6.6 Member Secretary, ERPC may also put any agenda involving urgent matter/ policy issue directly in consultation with Chairperson, TCC.

### 7. Effect of Non-receipt of Notice of Meeting by a Member

The non-receipt of notice by any member of TCC or Sub-Committees shall not invalidate the proceeding of the meeting or any decision taken in the meeting.

### 8. Quorum of TCC Meeting

The Quorum of the meeting shall be 50% of its members or the persons authorized by the members.

#### 9. Decision making and implementation

- 9.1 All decisions in the TCC shall be taken by consensus. TCC shall decide whether its recommendations will be placed before ERPC for approval or information or refer its decisions to sub-committee(s) for implementation.
- 9.2 ERLDC shall follow the decision of the TCC concerning scheduling, despatch and operation of the regional grid, provided it is consistent with CERC Regulations/orders.
- 9.3 Each constituent must ensure the implementation of decision taken in the meeting.
- 9.4 Each constituent should furnish its "action taken report" on the decision taken by TCC in its next meeting as also in subsequent meeting(s) as per requirement.

#### 10. Presiding Authority and the Convener

- 10.1 The Chairperson, TCC shall preside over the meeting.
- 10.2 Member Secretary, ERPC shall be the Co-Chairperson of TCC.
- 10.3 Superintending Engineer, ERPC shall be the convener of the meeting.
- 10.4 If the Chairperson is unable to be present at the meeting for any reason, Co-Chairperson of TCC shall preside over the meeting. If Co-Chairperson is not present then the members present shall choose a person among themselves, who shall preside over the meeting.

### 11. Recording of the minutes

- 11.1 The host organisation shall get the proceedings of the meeting electronically recorded and handover its copy to the Secretariat. The Secretariat shall keep it as record until the minutes of the meeting are got confirmed.
- 11.2 The minutes of the meeting shall be finalized in consultation with Chairperson, TCC and circulated to all its members by ERPC Secretariat within 15 working days from the date of this meeting. The minutes shall also be posted on the website of ERPC.

### 12. Confirmation of the minutes

Minutes of the TCC meeting shall be placed in the next meeting for confirmation. In case of minutes pertaining to urgent matters, it may be got confirmed by circulation.

#### **Eastern Regional Power Committee**

### (Operation Co-ordination Sub-Committee) Regulations 2022

[Dated: 25<sup>th</sup> November 2022]

### General

Drawing powers from the para (10) of the GoI Resolution dated 03.12.2021 and subsequent Corrigendum dated 17.12.2021, ERPC hereby makes the following Sub-Committee called "**Operation Co-ordination Sub-Committee**" (herein after referred to as '**OCC**')

### 1. Functions of OCC:

- 1.1 OCC shall discus all issues related to operation of the regional grid, power supply position of the region, maintenance schedule for generating units and major transmission lines, operation discipline, operation of Automatic Under-Frequency Relays, grid incidents/disturbances, and the status of implementation of the recommendations of the Inquiry Committees, etc.
- 1.2 OCC shall also discuss any other operational issues as specified in Indian Electricity Grid Code (IEGC) and other CERC regulations.
- 1.3 OCC shall also deliberate upon any matter as referred by TCC or ERPC.

### 2. Members of OCC:

- 2.1 OCC shall comprise of one technical person from each of the member organisation of ERPC. The OCC members shall be at the level of Chief Engineer or equivalent.
- 2.2 Member Secretary, ERPC shall be the Chairperson of OCC.
- 2.3 Superintending Engineer (Operation) of Secretariat shall be the convener of OCC.
- 2.4 Member Secretary, ERPC may co-opt any other person/entity in OCC as special invitee.

### PROCEDURE FOR CONDUCTING OCC MEETING

### 3. Periodicity, Place and date of OCC Meeting

- 3.1 The meeting will be held at regular interval of about 4 weeks or earlier, as required.
- 3.2 The place and date of the meeting will be decided by Member Secretary, ERPC.

### 4. Hosting the OCC meeting

In general, The OCC meeting shall be hosted by ERPC Secretariat., However, in special cases the same may be hosted by any other constituents of ER.

### 5. Re-scheduling / Cancellation of Meeting

If a meeting is required to be cancelled or rescheduled, the same shall be intimated to the members at the earliest by telephone /e-mail and also posted on ERPC Website.

#### 6. Notice for the Committee meeting and Agenda

- 6.1 Notice for the Committee meeting shall be issued by Convener at least 10 days in advance.
- 6.2 The agenda points proposed by the constituents for the meeting should reach ERPC Secretariat at least 7 days in advance of the meeting. ERPC Secretariat shall finalize the agenda and get it posted on the ERPC Website at least 3 days in advance. Agenda submitted beyond cut-off time as specified shall be posed to Chairperson for his/her permission. If permitted, it shall be taken up as additional agenda. Agenda submitted after the commencement of the meeting shall not be permitted.
- 6.3 Member Secretary, ERPC may also put any agenda involving urgent matter/policy issue directly.
- 6.4 Notice may also be issued to non-regular Member organizations of ER to participate in the OCC meeting.

### 7. Effect of Non-receipt of Notice of Meeting by a Member

The non-receipt of notice by any member of OCC or Sub-Committees shall not invalidate the proceeding of the meeting or any decision taken in the meeting.

### 8. Quorum of OCC Meeting

- 8.1. The Quorum of the meeting shall be 50% of its members or the persons authorized by the members.
- 8.2. Special invitees by Member Secretary may also attend the meeting.

### 9. Decision making and implementation

- 9.1. All decisions in the OCC shall be taken by consensus.
- 9.2. Each constituent must ensure the implementation of the decisions taken in the meeting.

### 10. Presiding Authority and the Convener

- 10.1. Member Secretary, ERPC shall preside over the meeting.
- 10.2. Superintending Engineer ERPC shall convene the meeting.
- 10.3. If Member Secretary is unable to be present at the meeting for any reason, the next senior most officer of the ERPC Secretariat shall preside over the meeting.

### 11. Recording of the minutes

The minutes of the meeting shall be finalized and circulated to all its members by ERPC Secretariat within 10 working days from the date of the meeting. The minutes shall also be posted on the website of ERPC.

### 12. Confirmation of the Minutes

Minutes of the OCC meeting shall be placed in the next meeting for confirmation. However, in case of any urgency, the minutes may be confirmed by circulation to the members.

ERPC CBR-2022

# Eastern Regional Power Committee (Commercial Sub-Committee) Regulations, 2022

[Dated: 25<sup>th</sup> November 2022]

#### General

Drawing powers from the para (10) of the GoI Resolution dated 03.12.2021 and subsequent Corrigendum dated 17.12.2021, ERPC hereby makes the following Sub-Committee called "Commercial Sub-Committee" (herein after referred to as 'CC').

### 1. Functions of CC:

Commercial Sub-Committee(CC) shall discuss all commercial related issues viz. energy accounting, schemes required for inclusion in the Bulk Power Transmission Agreements, requirement of power from the new projects, installation of special energy meters and its cost sharing, etc., metering aspects, reviewing of the payments towards DSM charges, treatment of transmission losses, commercial declaration of lines/substation, on request from CTUs, commercial issues in interstate an inter-regional exchange of power, issues concerning settlement of payments among constituents, if any, etc. and any other matter referred by the TCC/ERPC.

#### 2. Composition of Commercial Sub-Committee (CC):

- 2.1. Commercial Sub-Committee shall comprise of one person (dealing with commercial matters) each from the constituent organisation of ERPC. The CC members shall be at the level of Chief Engineer or equivalent.
- 2.2. Member Secretary, ERPC shall be Chairperson of the CC.
- 2.3. Superintending Engineer, ERPC shall be the Convener of the CC.

### PROCEDURE FOR CONDUCTING CC MEETING

### 3. Periodicity, Place and date of CC Meeting

- 3.1. The meeting will be held at regular interval of about 4 months or earlier, if required.
- 3.2. The place and date of the meeting will be decided by Member Secretary, ERPC.

### 4. Hosting the CC meeting

In general, The CC meeting shall be hosted by ERPC Secretariat. However, in special cases the same may be hosted by any other constituents of ER.

#### 5. Re-scheduling / Cancellation of Meeting

If a meeting is required to be cancelled or rescheduled, the same shall be intimated to the members at the earliest by telephone / e-mail and also posted on ERPC Website.

#### 6. Notice for the Committee meeting and Agenda

- 6.1. Notice for the Committee meeting shall be issued by Member Secretary, ERPC at least 15 days in advance.
- 6.2. The agenda points proposed by the constituents for the meeting should reach ERPC Secretariat at least 10 days in advance of the meeting. ERPC Secretariat shall finalize the agenda and get it posted on the ERPC Website at least 7 days in advance, and shall also circulate the agenda to all of its members. Agenda submitted beyond cut-off time as specified shall be posed to Chairperson for his/her permission. If permitted, it shall be taken up as additional agenda. Agenda submitted after the commencement of the meeting shall not be permitted.
- 6.3. Member Secretary, ERPC may also put any agenda involving urgent matter/ policy issue directly.
- 6.4. Member Secretary, ERPC may convene a meeting on short notice on any urgent matter.

6.5. Notice may also be issued to non-regular Member organizations of ER to participate in the CC meeting.

### 7. Effect of Non-receipt of Notice of Meeting by a Member

The non-receipt of notice by any member of CC or Sub-Committees shall not invalidate the proceeding of the meeting or any decision taken in the meeting.

### 8. Quorum of CC Meeting

- 8.1. The Quorum of the meeting shall be 50% of its members or the persons authorized by the members.
- 8.2. Special Invitees by Member Secretary may also attend the meeting.

### 9. Decision making and implementation

- 9.1. All decision in the CC shall be taken by consensus.
- 9.2. ERLDC shall follow the decision of the CC concerning scheduling, despatch and operation of the Regional Grid, provided it is consistent with CERC Regulations/ orders.
- 9.3. Each constituent must ensure the implementation of the decisions taken in the meeting.
- 9.4. Each constituent should furnish its "action taken report" on the decisions taken by CC in its next meeting as also subsequent meeting(s) as per requirement.

#### 10. Presiding Authority and the Convener

- 10.1. Member Secretary, ERPC shall preside over the meeting.
- 10.2. Superintending Engineer, ERPC shall convene the meeting.
- 10.3. If Member Secretary is unable to be present at the meeting for any reason, the next senior most officer of the ERPC Secretariat shall preside over the meeting.

### 11. Recording of the minutes

The minutes of the meeting shall be finalized and circulated to all its members by ERPC Secretariat within 10 working days from the date of this meeting. The minutes shall also be posted on the website of ERPC.

### 12. Confirmation of the Minutes

Minutes of the CC meeting shall be placed in the next meeting for confirmation. However, in case of any urgency, the minutes may be confirmed by circulation to the members.

# **Eastern Regional Power Committee**

#### (Protection Co-ordination Sub-Committee) Regulations 2022

[Dated: 25<sup>th</sup> November 2022]

#### General

Drawing powers from the para (10) of the GoI Resolution dated 03.12.2021 and subsequent Corrigendum dated 17.12.2021, ERPC hereby makes the following Sub-Committee called "**Protection Co-ordination Sub-Committee**" (herein after referred to as '**PCC**').

### **1. Functions of PCC:**

Protection Co-ordination Sub-Committee (PCC) shall discuss all power system protection related issues viz. analysis of system disturbances in the region, review of protective relaying schemes, relay co-ordination islanding schemes, automatic under frequency, load shedding schemes, review of the implementation of recommendation made by the Inquiry Committee of the grid disturbance in the region concerning the above matters, etc. and any other matter referred by the TCC/ERPC.

#### 2. Composition of Protection Co-ordination Sub-Committee

- 2.1. Protection Co-ordination Sub-Committee shall comprise of one person each from the constituent organisation of ERPC. The PCC members shall be at the level of Chief Engineer or equivalent and dealing with power system protection / testing.
- 2.2. Member Secretary, ERPC shall be Chairperson of the PCC.
- 2.3. Superintending Engineer, ERPC shall be convener of the PCC.

#### PROCEDURE FOR CONDUCTING PC MEETING

#### 3. Periodicity, Place and date of PC Meeting

- 3.1. The meeting will be held at regular interval of about 4 weeks or earlier, as required
- 3.2. The place and date of the meeting will be decided by Member Secretary, ERPC.

#### 4. Hosting the PCC meeting

In general, The PCC meeting shall be hosted by ERPC Secretariat. However, in special cases the same may be hosted by any other constituents of ER.

### 5. Re-scheduling / Cancellation of Meeting

If a meeting is required to be cancelled or rescheduled, the same shall be intimated to the members at the earliest by telephone / e-mail and also posted on ERPC Website immediately.

### 6. Notice for the Committee meeting and Agenda

- 6.1. Notice for the Committee meeting shall be issued by Member Secretary, ERPC at least15 days in advance.
- 6.2. The agenda points proposed by the constituents for the meeting should reach ERPC Secretariat at least 10 days in advance of the meeting. ERPC Secretariat shall finalize the agenda and get it posted on the ERPC Website at least 5 days in advance, and shall also circulate the agenda to all of its members. Agenda submitted beyond cut-off time as specified shall be posed to Chairperson for his/her permission. If permitted, it shall be taken up as additional agenda. Agenda submitted after the commencement of the meeting shall not be permitted.
- 6.3. Member Secretary, ERPC may also put any agenda involving urgent matter/ policy issue directly.
- 6.4. Member Secretary, ERPC may convene a meeting on short notice on any urgent matter.
- 6.5. Notice may also be issued to non-regular Member organizations of ER to participate in the PCC meeting, as and when required.

### 7. Effect of Non-receipt of Notice of Meeting by a Member

The non-receipt of notice by any member of PC shall not invalidate the proceeding of the meeting or any decision taken in the meeting.

### 8. Quorum of PCC Meeting

- 8.1. The Quorum of the meeting shall be 50% of its members or the persons authorized by the members.
- 8.2. Special Invitees by Member Secretary may also attend the meeting.

### 9. Decision making and implementation

- 9.1. All decisions in the PCC shall be taken by consensus.
- 9.2. ERLDC shall follow the decisions of the PC concerning Protection Coordination, Analysis of grid incidences and Disturbance report preparation, etc. of the Regional Grid, provided it is consistent with CERC Regulations/orders.
- 9.3. Each constituent should ensure the implementation of the decisions taken in the meeting.
- 9.4. Each constituent should furnish its "action taken report" on the decision taken by PC in its next meeting, as also subsequent meeting(s) as per requirement.

### 10. Presiding Authority and the Convener

- 10.1. Member Secretary, ERPC shall preside over the meeting.
- 10.2. Superintending Engineer, ERPC shall convene the meeting.
- 10.3. If Member Secretary is unable to be present at the meeting for any reason, the next senior most officer of the ERPC Secretariat shall preside over the meeting.

### 11. Recording of the minutes

The minutes of the meeting shall be finalized and circulated to all its members by ERPC Secretariat within 15 working days from the date of this meeting. The minutes shall also be posted on the website of ERPC.

# 12. Confirmation of the Minutes

Minutes of the PC meeting shall be placed in the next meeting for confirmation. However, in case of urgency the minutes may be confirmed by circulation to the members.

# **Eastern Regional Power Committee**

### (Telecommunication, SCADA & Telemetry Sub-Committee) Regulations 2022

[Dated: 25<sup>th</sup> November 2022]

#### General

Drawing powers from the para (10) of the GoI Resolution dated 03.12.2021 and subsequent Corrigendum dated 17.12.2021, ERPC hereby makes the following Sub-Committee called "Telecommunication, SCADA & Telemetry Sub-Committee" (herein after referred to as 'TeST').

### 1. Functions of TeST:

TeST Sub-Committee shall meet to deliberate upon Telecommunication, SCADA and Telemetry schemes of ER and issues thereon in accordance with the provisions of Indian Electricity Grid Code.

#### 2. Composition of Telecommunication, SCADA & Telemetry Sub-Committee:

- 2.1. Telecommunication, SCADA & Telemetry Sub-Committee shall comprise of one person each from the constituent organisation of ERPC. The TeST members shall be at the level of Chief Engineer or equivalent and conversant with Telecommunication, SCADA & Telemetry in the region.
- 2.2. Member Secretary, ERPC shall be Chairperson of the TeST.
- 2.3. Superintending Engineer of Secretariat shall be convener of the TeST.

#### PROCEDURE FOR CONDUCTING TeST MEETING

#### 3. Periodicity, Place and date of TeST Meeting

- 3.1. The meeting will be held at regular interval of about 4 months or earlier, if required.
- 3.2. The place and date of the meeting will be decided by Member Secretary, ERPC.

#### 4. Hosting the TeST meeting

In general, The TeST meeting shall be hosted by ERPC Secretariat. However, in special cases the same may be hosted by any other constituents of ER.

### 5. Re-scheduling / Cancellation of Meeting

If a meeting is required to be cancelled or rescheduled, the same shall be intimated to the members at the earliest by telephone / e-mail and also posted on ERPC Website immediately.

### 6. Notice for the Committee meeting and Agenda

- 6.1. Notice for the Committee meeting shall be issued by Member Secretary, ERPC at least 15 days in advance.
- 6.2. The agenda points proposed by the constituents for the meeting should reach ERPC Secretariat at least 10 days in advance of the meeting. ERPC Secretariat shall finalize the agenda and get it posted on the ERPC Website at least 5 days in advance and shall also circulate the agenda to all of its members. Agenda submitted beyond cut-off time as specified shall be posed to Chairperson for his/her permission. If permitted, it shall be taken up as additional agenda. Agenda submitted after the commencement of the meeting shall not be permitted.
- 6.3. Member Secretary, ERPC may also put any agenda involving urgent matter/policy issue directly.
- 6.4. Member Secretary, ERPC may convene a meeting on short notice on any urgent matter.
- 6.5. Notice may also be issued to non-regular Member organizations of ER to participate in the TeST meeting, as and when required.

### 7. Effect of Non-receipt of Notice of Meeting by a Member

The non-receipt of notice by any member of TeST shall not invalidate the proceeding of the meeting or any decision taken in the meeting.

### 8. Quorum of TeST Meeting

- 8.1. The Quorum of the meeting shall be 50% of its members or the persons authorized by the members.
- 8.2. Special Invitees by Member Secretary may also attend the meeting.

### 9. Decision making and implementation

- 9.1. All decisions in the TeST shall be taken by consensus.
- 9.2. ERLDC shall follow the decisions of the TeST, provided it is consistent with CERC Regulations/orders.
- 9.3. Each constituent should ensure the implementation of the decisions taken in the meeting.
- 9.4. Each constituent should furnish its "action taken report" on the decision taken by TeST in its next meeting, as also subsequent meeting(s) as per requirement.

#### 10. Presiding Authority and the Convener

- 10.1. Member Secretary, ERPC shall preside over the meeting.
- 10.2. Superintending Engineer, ERPC shall convene the meeting.
- 10.3. If Member Secretary is unable to be present at the meeting for any reason, the next senior most officer of the ERPC Secretariat shall preside over the meeting.

### 11. Recording of the minutes

The minutes of the meeting shall be finalized and circulated to all its members by ERPC Secretariat within 15 working days from the date of this meeting. The minutes shall also be posted on the website of ERPC.

# 12. Confirmation of the Minutes

Minutes of the TeST meeting shall be placed in the next meeting for confirmation. However, in case of urgency, the minutes may be confirmed by circulation to the member

# **Eastern Regional Power Committee**

### (Transmission Planning Sub-Committee-ER) Regulations 2022

[Dated: 25<sup>th</sup> November 2022]

### General

Drawing powers from the para (10) of the GoI Resolution dated 03.12.2021 and subsequent Corrigendum dated 17.12.2021, ERPC hereby makes the following Sub-Committee called "Transmission Planning Sub-Committee-ER" (herein after referred to as 'TPC-ER').

### 1. Functions of TPC-ER:

Transmission Planning Sub-Committee (TPC-ER) shall study and give suggestions on the intra-state transmission planning proposals submitted by the state transmission utilities including DVC.

### 2. Composition of Transmission Planning Sub-Committee (TPC-ER) Sub-Committee:

- 2.1. Transmission Planning Sub-Committee shall comprise of members from each of the state transmission utilities, SLDCs, DVC, CTU, ERLDC & ERPC Secretariat. The TPC-ER members shall be at the level of Chief Engineer or equivalent.
- 2.2. Member Secretary, ERPC shall be Chairperson of the TPC-ER.
- 2.3. Superintending Engineer, ERPC shall be convener of the TPC-ER.

### **PROCEDURE FOR CONDUCTING TPC-ER MEETING**

### 3. Periodicity, Place and date of TPC-ER Meeting

- 3.1. The meeting will be held as and when required.
- 3.2. The place and date of the meeting will be decided by Member Secretary, ERPC.

### 4. Hosting the TPC-ER meeting

In general, The TPC-ER meeting shall be hosted by ERPC Secretariat. However, in special cases the same may be hosted by any other constituents of ER.

ERPC CBR-2022

### 5. Re-scheduling / Cancellation of Meeting

If a meeting is required to be cancelled or rescheduled, the same shall be intimated to the members at the earliest by telephone / e-mail and also posted on ERPC Website immediately.

### 6. Notice for the Committee meeting and Agenda

- 6.1. Notice for the Committee meeting shall be issued by Member Secretary, ERPC at least 15 days in advance.
- 6.2. The agenda points proposed by the constituents for the meeting should reach ERPC Secretariat at least 10 days in advance of the meeting. ERPC Secretariat shall finalize the agenda and get it posted on the ERPC Website at least 5 days in advance and shall also circulate the agenda to all of its members. Agenda submitted beyond cut-off time as specified shall be posed to Chairperson for his/her permission. If permitted, it shall be taken up as additional agenda.
- 6.3. Agenda submitted after the commencement of the meeting shall not be permitted.
- 6.4. Member Secretary, ERPC may also put any agenda involving urgent matter/ policy issue directly.
- 6.5. Member Secretary, ERPC may convene a meeting on short notice on any urgent matter.
- 6.6. Notice may also be issued to non-regular Member organizations of ER to participate in the TPC-ER meeting, as and when required.

### 7. Effect of Non-receipt of Notice of Meeting by a Member

The non-receipt of notice by any member of TPC-ER shall not invalidate the proceeding of the meeting or any decision taken in the meeting.

### 8. Quorum of TPC-ER Meeting

- 8.1. The Quorum of the meeting shall be 50% of its members or the persons authorized by the members.
- 8.2. Special Invitees by Member Secretary may also attend the meeting.

### 9. Decision making and implementation

- 9.1. All decisions in the TPC-ER shall be taken by consensus.
- 9.2. Each concerned constituent should ensure the implementation of the decisions taken in the meeting.
- 9.3. Each concerned constituent should furnish its "action taken report" on the decision taken by TPC-ER in its next meeting, as also subsequent meeting(s) as per requirement.

#### 10. Presiding Authority and the Convener

- 10.1. Member Secretary, ERPC shall preside over the meeting.
- 10.2. Superintending Engineer, ERPC shall convene the meeting.
- 10.3. If Member Secretary is unable to be present at the meeting for any reason, the next senior most officer of the ERPC Secretariat shall preside over the meeting.

### 11. Recording of the minutes

The minutes of the meeting shall be finalized and circulated to all its members by ERPC Secretariat within 15 working days from the date of this meeting. The minutes shall also be posted on the website of ERPC.

### 12. Confirmation of the Minutes

Minutes of the TPC-ER meeting shall be placed in the next meeting for confirmation. However, in case of urgency, the minutes may be confirmed by circulation to the members

### **ERPC (ESTABLISHMENT FUND) REGULATIONS-2022**

[Dated: 25<sup>th</sup> November 2022]

Drawing power from section 25(d) of 'Eastern Regional Power Committee (Conduct of Business) Rules, 2022', ERPC hereby makes the following regulations called "ERPC (Establishment Fund) Regulations 2022".

- 1. Name: The name of the fund shall be "ERPC Establishment Fund".
- 2. Objective: The fund shall be utilized for meeting reimbursement of expenditure met out of Central Budget to the consolidated fund of GoI, and all other Establishment related expenditure approved by ERPC.
- **3. Contribution:** All members and non-regular members of ERPC except CEA, NLDC and ERLDC shall contribute on annual basis as per the decision of ERPC. Contribution shall be sent through any electronic mode.
- 4. **Operation:** The fund shall be operated by a group of three officers from member constituents of ERPC, preferably posted in Kolkata as nominated by Member Secretary, ERPC. Bank account shall be opened in the name of the fund in a scheduled bank and officers nominated as above shall be given the cheque drawing authority. The tenure of each nominated officer will be three years which can be further extended up to two years at the sole discretion of Member Secretary, ERPC.
- 5. The actual expenditure met out of Central Budget for the relevant period as approved by Member Secretary, ERPC shall be reimbursed to the consolidated fund of GoI by cheque drawn in favor of 'DDO, ERPC, Kolkata'.
- 6. ERPC Secretariat shall place the head wise budget estimate for the next financial year before the ERPC forum in the last ERPC meeting of the current financial year for its approval.

- 7. Expenditure against approved budget, as per para (6), can be made with the approval of Member Secretary, ERPC.
- 8. To meet petty Miscellaneous Expenditure, a revolving fund of Rs 25000/- shall be maintained by an officer nominated by Member Secretary, ERPC. The total Expenditure during a Financial Year shall be restricted to Rs 100000/- under this head.
- **9.** The statement(s) of the fund shall be verified by three officers; one officer nominated by incumbent Chairperson from his own organization & Second officer nominated by the Chairperson of previous year from his own organization and third officer nominated by Member Secretary, ERPC. The officers nominated as above shall be other than the officers nominated as per para-4 above. The Member Secretary, ERPC will approve the statement of the fund before placing the same to auditor.
- 10. The fund shall be got audited every year by a Chartered Accountant Firm.
- **11.** Audited yearly statement(s) of the fund shall be adopted at the ERPC on consensus.
- 12. ERPC, if desires, may constitute a Sub-Committee, comprising of at least three experts in the field of Finance and Audit from the constituents to discuss/ settle/ recommend on various issues related to this fund.
- 13. Management of surplus fund shall be at the sole discretion of ERPC.

#### **ERPC FUND REGULATIONS-2022**

[Dated: 25<sup>th</sup> November 2022]

Drawing power from section 28 of 'Eastern Regional Power Committee (Conduct of Business) Rules, 2022', ERPC hereby makes the following regulations called "**ERPC Fund Regulations** 2022".

- 1. Name: The name of the fund shall be "ERPC Fund".
- 2. Objective: The fund shall be utilized by ERPC for
  - (i) Expenses related to meetings, workshops, seminars etc.
  - (ii) Expenses related to hospitality extended to officials of constituents and other guests.
  - (iii) Expenses related to printing and binding works for flex/banner, publication of reports etc.
  - (iv) Expenses related to discharge of any other functions deemed fit by ERPC.
- **3.** Contribution: All members and non-regular members of ERPC except CEA shall contribute on annual basis as per the decision of ERPC. Contribution shall be sent through any electronic mode.
- 4. **Operation:** The fund shall be operated by a group of three officers from member constituents of ERPC preferably posted in Kolkata as nominated by Member Secretary, ERPC. Bank account shall be opened in the name of the fund in a scheduled bank and officers nominated as above shall be given the cheque drawing authority. The tenure of each nominated officer will be three years which can be further extended up to two years at the sole discretion of Member Secretary, ERPC.
- 5. Expenditure from ERPC Fund can be made with the approval of Member Secretary, ERPC.
- 6. To meet petty Miscellaneous Expenditure, a revolving fund of Rs 10000/- shall be maintained by an officer nominated by Member Secretary, ERPC. The total Expenditure during a Financial Year shall be restricted to Rs 50000/- under this head.

- 7. The statement(s) of the fund shall be verified by three officers; one officer nominated by incumbent Chairperson from his own organization & Second officer nominated by the Chairperson of previous year from his own organization and third officer nominated by Member Secretary, ERPC. The officers nominated as above shall be other than the officers nominated as per para-4 above. The Member Secretary, ERPC will approve the statement of the fund before placing the same to auditor.
- 8. The fund shall be got audited every year by a Chartered Accountant Firm.
- 9. Audited yearly statement(s) of the fund shall be adopted at the ERPC on consensus.
- **10.** ERPC, if desires, may constitute a Sub-Committee, comprising of at least three experts in the field of Finance and Audit from the constituents to discuss/ settle/ recommend on various issues related to this fund.
- 11. Management of surplus fund shall be at the sole discretion of ERPC.

\*\*\*\*\*\*

# Pumped Storage (Hydro) Plants -Enabling Energy Transition 2-3 March 2023

Venue

Kushal Pallí Resorts Ajodhya Hill Top, Purulia West Bengal

## Organized by



National Power Training Institute (Ministry of Power, Govt. of India) Eastern Region: Durgapur-713216(W.B.)



Eastern Regional Power Committee (Central Electricity Authority, Ministry of Power, Govt. of India)

### SUPPORTED BY (Tentative)-















In Association with









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Dr. Tripta Thakur, Director General, NPTI

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- Sh. R.N. Singh, Chairman, Damodar Valley Corporation
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- Sh. N.L. Sharma, CMD, SJVN Limited
- Sh. M. A. K. P. Singh, Member (Hydro), CEA

#### Chairperson

Sh. N.S. Mondal, Member Secretary, ERPC, CEA

#### **Advisory Committee**

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- Sh. Parth Pramim Mukherjee, Director (Distribution), WBSEDCL
- Sh. J. Bandyopadhyay, Advisor (Engg.), WBERC
- Sh. Rajib Sutradhar, Executive Director, ERLDC, POSOCO
- Dr. P. K. Mohanty, Director (HR), OHPC Ltd.
- Dr. Sanjay Kumar Jain, Scientist "G", NIH, Roorkee
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- Sh. Sanjiv Arora, Jt. Secretary (HR), MPPGCL
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#### **Theme of the Workshop**

Power infrastructure is one of the most critical components for prosperity and economic growth of country. With the increase in economic activity, the demand for power is also increasing. India has witnessed electricity demand increase of around 4.1 % during the last decade and it is projected that the increase in electricity demand is likely to be 6 % per year for next decade.

Pumped Hydro Storage (PHS) is an established, proven, and cost-effective technology for storing electricity at times of high generation and/or low demand, which can then be released into peak demand periods. There is some 140GW of PHS capacity installed globally providing well over 95% of global electricity storage capacity. PHS has a round trip efficiency of 70-80% (meaning 20-30% of electricity is lost), depending upon the distance and gradient separating upper and lower reservoirs. PHS is designed to time-shift electricity to periods of peak demand so that power is stored when it is least expensive and then used during peak demand when prices are highest. With its almost instantaneous start capacity, PHS is ideal for meeting evening peaks as well as providing grid frequency stabilisation services. Where and when alternative water demands allow, PHS can also provide longer duration supply - a capacity that lithium-ion batteries are not well suited for.

PHS can play an immensely important role in facilitating India's improved energy security and transition to a lower cost, low carbon electricity market that will require flexible, dispatchable, as well as peak power capacity, especially until battery storage becomes cost competitive.

As per the Draft National Electricity Plan, A PSP based storage capacity of 6.81 GW is required to meet the projected peak electricity demand and energy requirement in 2026-27. A PSP based capacity of 18.82 GW and 5-hour BESS capacity of 51.56 GW is likely to be required to meet the peak electricity demand and energy requirement in 2031-32.

#### Workshop Coverage-Salient Points

Day-1[Technical Sessions]

- Govt. initiatives and basic objectives of Pumped storage power plants.
- Contribution of Pumped Storage Power Plants in Renewable Energy Generation.
- Major components, technical features, and design aspects of Pumped Storage Power Plants.
- Regulatory and market facets of Pumped Storage Power Plants.
- Cost benefit analysis of pumped storage power plants & Tariff calculations
- Environmental impacts of pumped storage power plants.
- Best O&M practices of pumped storage power plants.
- Case Study.
- Day-2[Visit to Purulia Pumped Storage Project (PPSP) 225MWx4=900MW]
- Visit to Upper & Lower water Reservoirs
- Visit to Power house (under ground).
- Visit to Balance of Plant (BoP).

#### **Call for Papers**

Papers on the above theme are invited from interested professionals, organizations, manufacturers, institutions, agencies etc. for presentation in the Workshop. Authors are requested to send abstract & full text of their paper (hard copy as well as soft copy) for presentation in 12 points in Times New Roman font with single line spacing. The e-mail address of the corresponding author shall be provided for future contact.

#### Methodology

The technical sessions will be devoted to key note lectures from experts on the theme, presentation of technical papers by various eminent personalities from relevant fields and discussions. The concluding session will be a panel discussion. Paper accepted for presentation in the Workshop will be published (abstract only) in a Souvenir to be released during the Workshop. Authors interested in presenting their papers on the theme may please send an extended abstract to durgapur.nptier@gmail.com

#### **Speakers**

Eminent and distinguished professionals from Hydro Power Plant & Regulatory Areas will be delivering invited lectures. The Workshop would be providing an interactive environment for useful discussions.



#### **The Workshop Venue**

Kushal Palli Resorts, Ajodhya Hill Top, Purulia, West Bengal



#### **Dates & Deadlines**

Submission of Abstract Provisional acceptance Submission of full text Final acceptance



Advertisement Rate for Souvenir "Back Cover Page: Rs. 100000.00 "Color full page: Rs. 50000.00 Advertisement Rate is Exclusive of GST @ 18%

#### Sponsorship

Platinum Sponsorship: Rs.10.00 Lakhs + GST @ 18% (10 delegates free of Cost)Golden Sponsorship: Rs.5.00 Lakhs + GST @ 18% (5 delegates free of Cost)Silver Sponsorship: Rs.3.00 Lakhs + GST @ 18% (3 delegates free of Cost)Bronze Sponsorship: Rs. 1.00 Lakh + GST @ 18% (1 delegates free of Cost)

Plus highlighting the sponsor in prominent places & one special full-page Advertisement in the souvenir. All sponsored delegates will be provided Lodging & Boarding facilities in an Executive Room.

#### **Delegate Fee (Residential) for Participant**

Rs. 56,480/- (Rupees Fifty Six thousand four hundred eighty only)

: February10, 2023

: February 14, 2023

: February 22, 2023

: February 24, 2023

- \* GST @18% will be extra on Delegate Fee
- \* Pick-up & drop facility shall be available at Ranchi Airport & Dhanbad / Purulia Railway Stations
- \* Cultural & other related activities shall be arranged during the event.
- \* The delegate fee includes accomodation & fooding facility from 1st March 2023 (from1 P.M.) to 3rd March 2023 up to (1P.M.).

#### **Mode of Payment**

All payments should be made through Demand Draft drawn in favour of "**National Power Training Institute**" payable at **Durgapur** on any nationalized bank. Payment can also be done through ECS. Details

Name of Bank : State Bank of India	Branch : City Centre, Durgapur-16
Account No. : 10306801182	IFS Code: SBIN0006152
MICR No. : 713002207	GSTIN : 19AACAN2698A1ZK

Correspondence All correspondence should be addressed to S.K. SRIVASTAVA

#### DIRECTOR

National Power Training Institute (ER) City Centre, Durgapur-713216 (W.B.) Tel: 03432546237(O)/2545888(O), e-mail : durgapur.nptier@gmail.com

#### Contact

D. Pandit

Dy. Director, NPTI (ER) Mobile : +91 9732254926 e-mail : dipak.npti@gov.in **Dr. C. Bhattacharya** Dy. Director, NPTI (ER) Mobile : +91 9474546284 e-mail : cbhattacharya.npti@gov.in A. Indira Dy. Director, NPTI (ER) Mobile : +91 9932271423 e-mail : indira.npti@gmail.com Alik De

Executive Engineer, ERPC-CEA Mobile : +91 9681932906 e-mail : alik.erpc@gov.in

Website : Latest information of the Workshop shall be posted at : http//: www.nptidurgapur.co.in, http//: www.erpc.gov.in



### भारत सरकार/Government of India विद्युत मंत्रालय/Ministry of Power केन्द्रीय विद्युत प्राधिकरण/Central Electricity Authority एन.पी.सी. प्रभाग/National Power Committee Division Ist Floor, Wing-5, West Block-II, RK Puram, New Delhi-66

No.CEA-GO-15-14/1/2021-NPC Division/ 537-544

Date: 24.11.2022

То

- 1. Member Secretary, NRPC, New Delhi.
- 2. Member Secretary, WRPC, Mumbai.
- 3. Member Secretary, SRPC, Bengaluru.
- 4. Member Secretary, ERPC, Kolkata.
- 5. Member Secretary, NERPC, Shillong.

Subject: Scheme for National level optimization of surplus generation capacity and Development of online portal for the same- reg.

MoP vide letter F.No.23/01/2022-RCM dated 19.11.2022 has communicated the approved Scheme for National level optimization of surplus generation capacity and Development of online portal for the same. The scheme as approved by Hon'ble Minister of Power & NRE is enclosed herewith for your information please.

\*\*\*\*\*

Yours faithfully,

Enclosure: As above

24/11/22.

(ऋषिका शरण/Rishika Sharan)

मुख्य अभियन्ता एवं सदस्य सचिव,रा.वि.स / Chief Engineer & Member Secretary, NPC /Member Convener of Committee

Copy for information to: 1. Chair person, CEA 2. Member (GO&D), CEA 3. Ghief Engineer (GM'Division), CEA

#### F. No. 23/01/2022-RCM Government of India Ministry of Power

2nd Floor, F Wing, Nirman Bhawan New Delhi 19th November, 2022

То

#### The Chairperson, CEA

## Subject: Scheme for National level optimization of surplus generation capacity in the country and Development of online Portal for the same-reg.

Sir,

I am directed to refer to CEA letter dated 31.10.2022 on the subject noted above and to convey approval for issue of the revised Scheme **as per Annexure**.

2. This issues with the approval of Hon'ble Minister of Power & NRE.

Yours faithfully

Q" d Grit

(Nishat Kumar) Under Secretary to the Government of India Tel: 011-23062451 e-mail: nishat.kumar@nic.in

Copy for information to:

- 1. PS to Hon'ble Minister of Power & NRE
- 2. APS to Hon'ble Minister of State for Power
- 3. Sr. PPS to Secretary, Ministry of power
- 4. PPS to JS (R&R)/PSO to CE (R&R)/ PPS to Director (RCM), MoP.

#### ANNEXURE

#### **Central Electricity Authority**

#### Scheme for National Level Optimization of surplus Generation Capacity

#### A. Background

- 1. The generation capacity in the country may be categorized as under:
  - i. State owned generating capacity
  - ii. Central Generating Stations
  - iii. Private Sector: IPPs
  - iv. Captive generating Stations
- 2. Because of the present system of one to one PPA, the generating capacities are not being optimally utilized. Every year difficulties are observed in meeting the demand and some states do resort to power cuts. Especially during the April, May, September and October months the crisis is observed. The capacity is available in the country but due to one to one agreement constraint, even when the generating capacity is idle it cannot be utilized by the entity which needs power. There are States which do have surplus power and continue to bear the fixed charge burden without using it. This leads to high cost of power to the consumers.
- 3. The Distribution licensees tie up power from above generating sources mainly under following routes:
  - i. At regulated tariff determined by the Appropriate Commission under section 62 of the Electricity Act 2003.
  - ii. At bid tariff adopted by the Appropriate Commission under section 63 of the EA 2003.
  - iii. Banking of Power

#### State owned Generating Capacity

4. State owned generating companies supply power to Distribution companies of the same State and also supply seasonal surpluses to some other states under banking arrangements among such distribution companies.

#### **Central Generating Stations**

5. Central Generating companies supply power to the States under the allocation made by the Central Government. Some power which has been surrendered by the States have been reallocated to the other needy States. Some States have exited from the PPA after completion of 25 years, and such power is available for merchant sale as well.

- 6. The allocation of power is generally done to the states within the regions. There are five regions in the country i.e. Eastern, Western, Southern, Northern and North Eastern regions. Accordingly, the scheduling is also done among the beneficiaries of the region or the Power Purchase Agreement (PPA) holders from such power plant. In case there is un-requisitioned power within the region, it is available to only the original beneficiary of that power plant which means such power remains concentrated in the respective region only. There are following concerns:
  - i. Generally, there are similar demand pattern in the region and hence if demand is low, then some of the generating stations in the merit order dispatch has surplus capacity as they are not scheduled. As a result, most of the time, due to overall requisition being less than technical minimum (TM), the plant(s) do not generate and go under Reserve Shut Down (RSD). There are two consequences of this:
    - a. The plant is out of bar and is not available in the grid. Hence they cannot serve the grid under any contingencies or be used for Ancillary Services (Reserves).
    - b. Even the states who has power allocation and need power from such plant are deprived of the generation, as due to not attaining the TM, the plant is not generating and remains under reserve shutdown.
  - ii. The demand in some other region may be high or the states who do not have allocation from such power plants may be needing the power due to increased demand. Eg. Peak in Northern region is during summer whereas Peak in Southern region is during winter. Similarly, there is diversity in the time at which the peak occurs in the States.
- 7. At present, to facilitate use of surplus power by the constituents of the region, a portal is operational in Western Region (WR) and Eastern Region (ER). In order to have national level optimization, it is being proposed to have a national level mechanism and portal so that any state / Discom can use the surplus power from central generating stations of any region.

#### Private Sector: IPPs

8. Besides PPA holders, they may sell their surplus power in the power exchanges or sell in Term Ahead Market (TAM) or Day Ahead Market (DAM) or Real Time Market (RTM) or through DEEP e-portal.

#### **Captive Generating Stations**

- 9. They can sell their surplus power after meeting their own requirement.
- B. The Scheme

1.1 In the proposed scheme, a National portal would be created where temporary allocation of power from surplus (Seller) entity to deficit (buyer) entity would be made online amongst constituents in the country. In the proposed scheme none of the existing arrangements shall be disturbed, rather an additional avenue shall be provided to stakeholders for optimal use of surplus power. The proposed scheme envisages paperless working; and is subject to willingness of seller and buyer, confirmation of transmission corridor by NLDC and payment security by the seller before scheduling of such power. The Scheme shall be implemented with details as under:

- i. For surplus power with Central Generating Station (CGS):
  - a. Flexibility to use surplus power on day ahead basis (D-1) by all constituents in the country and;
  - b. Use of longer duration for surplus power
- ii. For surplus power with Inter- State Generating Stations (ISGS) (excluding CGS)
- iii. For surplus power with the States/ Distribution companies (whether State owned or Private)
- iv. For surplus power with IPPs and Captive Generating Stations

1.2 The power shall be bought / sold at the tariff as determined by the Appropriate Commission.

1.3 The transmission charges shall also be paid as applicable to the concerned transmission service providers (CTU or STU or as the case may be).

1.4 Payment security mechanism shall be maintained as per the mutually agreed terms and the same would be confirmed by the seller and the buyer on the portal. POSOCO to verify before actual despatch of power.

# 2.1 Standard operating Procedure (SOP) for flexibility to use the surplus power of CGS by all the States / Discoms irrespective of the original beneficiary of the region

#### Temporary Allocation on Day Ahead (D-1) basis

2.1.1 The original beneficiary of CGS shall submit through web-based National portal the surrendered quantum (MW), duration (block-wise). The tariff (as determined by the Appropriate Commission) shall be updated in advance at the portal by the concerned CGS. However, the tariff will be subject to any changes made by the Appropriate Commission.

2.1.2 The willing new beneficiary shall submit its requisition online for availing the surplus power through web-based National portal. The quantum and time period

shall be specified along with acceptance to pay the tariff as determined by the Appropriate Commission. The requisitions can be beyond MoP allocation.

2.1.3 CGS shall be permitted to revise its schedule for surplus power from its original beneficiary to any other beneficiary. The new beneficiary shall be liable to pay both variable charge (VC) and fixed cost (FC) for full requisition and original beneficiary shall have no right to recall as entire FC liability is shifted to the new beneficiary because power being temporarily reallocated to him. The financial liability of new beneficiary shall be limited to quantum of temporarily allocated power.

2.1.4 The payment shall be secured through suitable payment security mechanism e.g. letter of credit (LC) or advance payment or any other mutually agreed payment security mechanism.

2.1.5 Consent and details of surrender and requisition of surplus power of the original beneficiary and the new beneficiary respectively shall be confirmed by CGS w.r.t. to availability of units during period of requisition on the portal for further processing to the National Power Committee (NPC)/CEA.

2.1.6 NPC/CEA shall allocate surplus power on portal to willing new beneficiaries based on following criteria, and communicate to NLDC.

- i. First preference shall be given to co-beneficiaries of the CGS.
- ii. In case multiple beneficiaries seek to avail surplus power from a CGS, the surplus power allocation will be on first come first serve basis.
- iii. In case, multiple beneficiaries request simultaneously (in the same time block) and the sum of their requisitioned power exceeds the available surplus power, then the surplus shall be apportioned & scheduled pro-rata in the ratio of the respective requisitions (in MW) made by the buyers.

2.1.7 NLDC shall check availability of margins in the transmission network and seek confirmation of payment security from the CGS on the portal for the allocated capacity.

2.1.8 Based on CGS confirmation of payment security, NLDC shall finalise on the portal the allocation of surplus power and communicate to the CGS, concerned beneficiaries, respective RLDCs/RPCs and NPC/CEA.

2.1.9 The concerned RLDC shall schedule the surplus power as per the requisition within the time blocks stipulated in IEGC.

2.1.10 The portal would be linked to Web based energy schedule (WBES) software of NLDC/ RLDCs through Application program Interface (API) for outputs/inputs.

2.1.11 Payment settlement will be as per the REAs (Regional Energy Accounts) prepared by the concerned RPC. This will be binding on all the buyers of power from CGS.

2.1.12 For smooth implementation, NLDC shall bring out a detailed timelines.

#### <u>Temporary Allocation of Power for longer duration (more than one day- eg</u> <u>week, fortnight, month, guarter or any period mutually convenient to seller and</u> <u>buyer)</u>

2.1.13 For temporary allocation of power for longer duration i.e. more than one day, the original beneficiary may also provide standing consent to the CGS specifying quantum and time period. The duration could be for a week, fortnight, month, quarter, annual or any duration assessed by the seller or buyer. For allocation of power, similar procedure as given in para 2.1.1 to 2.1.11 above shall be adopted except in case desired duration exceeds STOA duration limit then CTU shall confirm availability of transmission network by following extant regulations.

2.1.14 To revive coal based units under Reserve Shut Down (RSD), maximum of around 36 hrs are required for cold start. CGS/Seller shall always keep updated status of generating units under reserve shutdown and planned shutdown at the portal so that buyers may submit their requisition accordingly.

# 2.2 Standard operating Procedure (SOP) for flexibility to use the surplus power of ISGS (other than CGS) by all the States / Discoms irrespective of the original beneficiaries of the region

2.2.1 Similar procedure as stated above i.e. clause 2.1.1 to 2.1.4 and 2.1.7 to 2.1.1 shall be adopted for ISGS as well.

2.2.2 Consent and details of surrender and requisition of surplus power of the original beneficiary and the new beneficiary respectively shall be confirmed by ISGS (other than CGS) w.r.t. to availability of units during period of requisition on the portal for further processing to the National Load Despatch Centre or Regional Load Despatch Centre, as the case may be.

# 2.3 Standard operating Procedure (SOP) for flexibility to use the Surplus power with the States / Distribution companies (whether State owned or Private) by the other States / Discoms

2.3.1 At present some of the distribution companies are giving the surplus power to some other states through banking process and take back the power when they need it as per the mutual agreement.

2.3.2 It is also observed that due to the diverse nature of demand in different states at different time, there is a possibility of optimum utilization of resources.

2.3.3 Many times it is seen that the States which are surplus during some period of time are keeping their own generating stations under reserve Shutdown. But there are other states which are facing crisis. However, in the absence of any mechanism, the resources even though available in the country but is not used to meet the overall demand in the country and there are load shedding. As per proposed scheme, states can temporarily transact. As a result, the State generating companies can also improve their plant load Factor and the effective overall per unit cost of generation of such generating companies can also be reduced.

2.3.4 In regard to option of the states selling surplus power in the power exchanges, it is experienced that the states prefer to keep their units under reserve shutdown. Further, the state owned generating companies do not take risk of selling their power in the power exchanges mainly due to uncertainty of the Market clearing price.

2.3.5 Thus, if the tariff is assured by some other states, the generating stations will come on bar and generate power. This will also reduce the burden of fixed cost to the Discoms and the retail tariff will also reduce, thereby benefitting the consumers. The buying State / discoms shall also bear the transmission charges as applicable.

2.3.6 Willing States/Discoms may use National Portal to sell/buy surplus power subject to payment confirmation by seller and transmission availability by NLDC. Accordingly, the procedure similar to ISGS may be adopted for States/Discoms.

2.3.7 The concerned SLDC (State Load Despatch Centre) shall accordingly coordinate with the RLDC/ NLDC if the buyer is from other than the same State.

## 2.4 Standard operating Procedure (SOP) for flexibility to use the Surplus power with the IPP and CPP

2.4.1 Based on mutually agreed terms, willing IPPs/CPPs may use the National Portal to sell their surplus power subject to confirmation of transmission availability by NLDC.

2.4.2 The portal will also have similar features to facilitate the use of surplus power with the IPPs and CPP.

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