सत्यमेव जयते

भारत सरकार

Government of India

विद्युत् मंत्रालय

Ministry of Power

पूर्वी क्षेत्रीय विद्युत् समिति

Eastern Regional Power Committee

सं /NO. ERPC/TCC& ERPC Committee/2025/ 808 दिनांक / DATE: 18/7/2025

सेवा में /To,

संलग्न सूची के अनुसार /As per list enclosed.

विषय : 24.06.2025 (मंगलवार) को ताज फिशरमैन कोव, चेन्नई में आयोजित 54वीं टीसीसी बैठक का कार्यवृत्त-संबंध में।

Subject: Minutes of 54th ERPC Meeting held on 24.06.2025 (Tuesday) at TAJ Fisherman Cove, Chennai -regd.

महोदय/ महोदया,
Sir/Madam,

कृपया अपनी जानकारी और आवश्यक कार्रवाई के लिए 24 जून 2025 (मंगलवार) को ताज फिशरमैन कोव, चेन्नई में आयोजित 54वीं टीसीसी बैठक का संलग्न कार्यवृत्त देखें। यह ईआरपीसी वेबसाइट (www.erpc.gov.in) पर भी उपलब्ध है।

Please find enclosed Minutes of 54th TCC Meeting held on 24.06.2025 (Tuesday) at Taj Fisherman Cove, Chennai at 10:30 hrs for your kind information and necessary action. The same is also available at ERPC website (www.erpc.gov.in).

इसे सदस्य सचिव के अनुमोदन से जारी किया जाता है।
This issues with the approval of Chairperson ERPC.

भवदीय /Yours faithfully

अनुप दास 18.7.2025

(अनुप दास/ (Anup Das)

सहायक सचिव/Assistant Secretary

ERPC Members

1. **Chairperson ERPC & CMD, West Bengal State Electricity Distribution Company Ltd.,** Vidyut Bhavan, 7th Floor, Block-DJ, Sector-II, Bidhannagar, Kolkata-700091.
2. Managing Director, West Bengal State Electricity Transmission Company Ltd., Vidyut Bhavan, 8th Floor, Block- DJ, Sector-II, Bidhannagar, Kolkata-700091.
3. Chairman & Managing Director, West Bengal Power Development Corporation Ltd., Bidyut Unnayan Bhavan, 3/C, Block LA, Sector-III, Bidhannagar, Kolkata-700098.
4. Principal Chief Engineer-cum-Secretary, Energy & Power Department, Govt. of Sikkim, Kazi Road, Gangtok – 737101, Sikkim.
5. Member (GO&D), Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
6. Chairman, GRIDCO Ltd., Janpath, Bhubaneshwar-751022.
7. Chairman-cum-Managing Director, Odisha Power Transmission Corporation Ltd., Janpath, Bhubaneswar- 751022.
8. Chairman-cum-Managing Director, OHPC Ltd., Orissa State Police Housing & Welfare Corporation Bldg. Vanivihar, Janpath, Bhubaneswar- 751022.
9. Managing Director, OPGC Ltd., Zone-A, 7th Floor, Fortune Towers, Chandrasekharpur, Bhubaneswar-751023.
10. Chairman-cum-Managing Director, Jharkhand Urja Vikas Nigam Limited, Engineering Building, HEC, Dhurwa, Ranchi-834004.
11. Chairman-cum-Managing Director, Jharkhand Urja Utpadan Nigam Limited, Engineering Building, HEC, Dhurwa, Ranchi-834004.
12. Managing Director, Jharkhand Urja Sancharan Nigam Limited, Engineering Building, HEC, Dhurwa, Ranchi-834004.
13. Managing Director, Jharkhand Bijli Vitaran Nigam Limited, Engineering Building, HEC, Dhurwa, Ranchi- 834004.
14. Managing Director, Tenughat Vidyut Nigam Ltd., Hinoo, Doranda, Ranchi – 834002
15. Chairman-cum- Managing Director, Bihar State Power Holding Company Ltd., Vidyut Bhavan, Bailey Road, Patna-800001.
16. Managing Director, Bihar State Power Transmission Company Limited, Vidyut Bhavan, Bailey Road, Patna- 800001.
17. Managing Director, North Bihar Power Distribution Company Limited, Vidyut Bhavan, Bailey Road, Patna- 800001.
18. Chairman, Damodar Valley Corporation, DVC Towers, VIP Road, Kolkata -700054.
19. Director (Finance), NTPC Ltd., Core-7, SCOPE Complex, Lodhi Road, New Delhi -110003.
20. Director (Technical), NHPC Ltd., NHPC Office Complex, Sector-33, Faridabad, Haryana-121003.
21. Director (Operations), Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon-122001.
22. Executive Director, ERLDC, GRID-INDIA, 14 Golf Club Road, Tollygunge, Kolkata – 700033.
23. Director(SO), GRID-INDIA, B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110016
24. COO, CTUIL, Saudamini, 1st Floor, Plot-1, Sector-29, Gurgaon-122001
25. Director (C&O), PTC India Ltd., 2nd floor, NBCC Tower,15 Bhikaji Cama Place, New Delhi-110066.
26. Managing Director (Generation), CESC Ltd., CESC House, 1 Chowringhee Square, Kolkata-700001.
27. Chief Executive Officer, Maithon Power Ltd., Village-Dambhui, P.O. Barbindia, Dist.-Dhanbad, Jharkhand- 828205.
28. V.P (Plant Head), GMR Kamalanga Energy Ltd., AT/PO-Kamalanga, PS-Kantabania, Via-Meramundali, Dist.- Dhenkanal, Odisha-759121.
29. Chief Executive Officer, Jindal India Thermal Power Limited, Plot No-12, Sector-B1, Local Shopping Complex, Vasant Kunj, New Delhi-110070.

30. Managing Director, Sikkim Urja Limited, 2nd Floor, Vijaya Building, 17 Barakhamba Road, New Delhi- 110001.
31. CEO, BRBCL, Nabinagar, Dist- Aurangabad, Bihar-824303.
32. CEO, NTPC Vidyut Vyapar Nigam Ltd., Scope Complex, Core-5, 1st and 2nd Floor, Lodhi Road, New Delhi-110003.
33. Director, JSW (Utkal) Ltd., at-Sahajbahal, P.O-Charpali-Barpali, Via-Bandhabahal, Dist: Jharsuguda, Odisha-768211.
34. COO, East North Interconnection Co. Ltd. (Indi Grid), 101, Windsor, CST Raod, Santacurz East, Mumbai-400098. sanil.namboodiripad@indigrid.com.

TCC Members

1. **Chairperson TCC & Director (R&T), West Bengal State Electricity Distribution Company Ltd.,** Vidyut Bhavan, 7th Floor, Block- DJ, Sector-II, Bidhannagar, Kolkata-700091.
2. Director (Operations), West Bengal State Electricity Transmission Company Ltd., Vidyut Bhavan, 8th Floor, Block-DJ, Sector-II, Bidhannagar, Kolkata-700091.
3. Director (O&M), WBPDCL, Bidyut Unnayan Bhavan, 3C, Block-LA, Sector-III, Bidhannagar, Kolkata- 700098.
4. Principal Chief Engineer-II, Energy & Power Dept., Govt. of Sikkim, Kazi Road, Gangtok-737101.
5. Chief Engineer (GM), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.
6. Managing Director, GRIDCO Ltd., Janpath, Bhubaneswar-751022.
7. Director (Operation), Odisha Power Transmission Corporation Ltd., Janpath, Bhubaneswar - 751022.
8. Director (Operation), Orissa Power Generation Corporation Ltd, Zone-A, 7th floor, Fortune Towers, Chandrasekharpur, Bhubaneswar-751023.
9. Director (Operation), Orissa Hydro Power Corporation Ltd, Orissa State Police Housing & Welfare Corporation Building, Vanivihar Chowk, Janpath, Bhubaneswar-751022.
10. Executive Director (Tech),, Jharkhand Urja Utpadan Nigam Limited, Engineering Building, HEC, Dhurwa, Ranchi-834004.
11. Director (Project), Jharkhand Urja Sancharan Nigam Limited, Engineering Building, HEC, Dhurwa, Ranchi- 834004.
12. Chief Engineer (S&D-JBVNL), Jharkhand Urja Vikas Nigam Limited, Engineering Building, HEC, Dhurwa, Ranchi-834004.
13. Chief Engineer (S&D), Jharkhand Bijli Vitaran Nigam Limited, Engineering Building, HEC, Dhurwa, Ranchi-834004.
14. General Manager, Tenughat TPS, Lalpania, Dist- Bokaro, Jharkhand-829149.
15. Chief Engineer (Commercial), Bihar State Power Holding Company Ltd., Vidyut Bhavan, Bailey Road, Patna-800001.
16. Director (Project), South Bihar Power Distribution Company Limited, Vidyut Bhavan, Bailey Road, Patna-800001.
17. Executive Director (Commercial), Damodar Valley Corporation, DVC Tower, VIP Road, Kolkata-700054.
18. Regional Executive Director (ER-I), NTPC Ltd., ER-I Head Quarter, Near Urja Auditorium, Shastri Nagar, Patna-800023.
19. Regional Executive Director (ER-II), NTPC Ltd., 3rd Floor, OLIC Building, Plot No.N-17/2, Nayapalli, Bhubaneswar-751012.
20. HOD (O&M), NHPC Ltd., NHPC Office Complex, Sector-33, Faridabad-121003, Haryana.
21. Executive Director (ER-I), Power Grid Corporation of India Ltd, Board Colony, Shastri Nagar, Patna- 800023.
22. Executive Director (ER-II), Power Grid Corporation of India Ltd, CF-17, Action Area-I, Newtown, Rajarhat, Near Axis Mall, Kolkata-700091.
23. Executive Director (Odisha Project), Power Grid Corporation of India Ltd, Plot No-4, Unit 41, Niladri Vihar, Chandrasekharpur, Bhubaneswar, Odisha-751021.
24. Executive Director, ERLDC, GRID-INDIA, 14 Golf Club Road, Kolkata –700 033.
25. Head, National Load Dispatch Center, GRID-INDIA, B-9 Qutab Institutional Area, Katwaria Sarai,New Delhi-110016.
26. COO, CTUIL, Saudamini, 1st Floor, Plot-1, Sector-29, Gurgaon-122001.
27. Director (Marketing), PTC India Ltd., NBCC Tower, 15 Bhikaji Cama Place, New Delhi-110066.
28. Vice President (System Operation), CESC Ltd, CESC House, 1 Chowringhee Square, Kolkata-700001.
29. Station Head & General Manager (O&M), Maithon Power Ltd., Village-Dambhui, P.O. Barbindia, Dist.- Dhanbad, Jharkhand-828205.

30. GM (Head-Electrical), GMR Kamalanga Energy Ltd., AT/PO-Kamalanga, PS-Kantabania, Via-Meramundali, Dist.- Dhenkanal, Odisha-759121.
31. Chief Operating Officer, Jindal India Power Limited, Plot No-12, Sector-B1, Local Shopping Complex, Vasant Kunj, New Delhi-110070.
32. Managing Director, Sikkim Urja Limited, 2nd Floor, Vijaya Building, 17 Barakhamba Road, New Delhi- 110001.
33. CEO, BRBCL, Nabinagar, Dist- Aurangabad, Bihar-824303.
34. Chief General Manager, NTPC Vidyut Vyapar Nigam Limited, SCOPE Complex, Core-3, 7th Floor, Lodhi Road, New Delhi-110003
35. Head Regulatory, East North Interconnection Co. Ltd. (Indi Grid), 101, Windsor, CST Raod, Santacurz East, Mumbai-400098. Alokendra.ranawat@indigrid.com
36. Director, JSW (Utkal) Ltd., at-Sahajbahal, P.O-Charpali-Barpali, Via-Bandhabahal, Dist: Jharsuguda, Odisha-768211

Non-Member Participants

1. Managing Director, DANS Energy Pvt Ltd, DLF Cyber City, Phase-II, Gurgaon – 122 002

2. Director, Shiga Energy Pvt. Ltd., 5th Floor, DLF Building No. 8, Tower-C, DLF Cyber City, Phase-II, Gurgaon – 122002

3. Vice President, Greenko Energies Pvt. Ltd. Greenko Hub, 13, Hitech City, Madhapur, Hyderabad-500081. (For Sneha Kinetic PPL and GI Hydro Pvt. Ltd.)

4. CEO, Rongnichu HEP, MBPCL, Sikkim-737102.

5. Managing Director, Adhunik Power & Natural Resources Ltd., Lansdowne Towers, 5th Floor, 2/1A Sarat Bose Road, Kolkata-700020.

6. Senior Vice President, Sikkim Power Transmission Limited, New Delhi-110066

7. CEO, Alipurduar Transmission Limited, 101, Part-III, G.I.D.C Estate, Gandhinagar, Gujarat-382028.

8. Vice President, North Karanpura Trasnmission Ltd., Adani Corporate House, 3rd Floor, South Wing, Shantigram, SG Highway, Near Vasihnodevi Circle, Ahmedabad-382421.

9. CEO, SJVN Thermal Pvt Ltd, 169. Pataliputra Colony, Patna-800013

10. CEO, JSW Ind-Bharath Energy (Utkal) Ltd, Jharsguda, Odisha-768211

11. Managing Director (Generation), Haldia Energy Limited, 2A, Lord Sinha Road, First Floor, Kolkata - 700 071

12. Managing Director, India Power Corp. Ltd., Plot No. X1- 2 & 3, Block-EP, Sector – V, Salt Lake City, Kolkata – 700 091

13. CEO, Cross Boarder Power Transmission Limited, Ambience Mall Complex, Gurgaon, Haryana-122001

14. MD, Tata Steel UISL, Jamshedpur, Jharkhand-831001

15. The Head Power Transmission Darbhanga Motihari Transmission Co. Ltd. Essel Infraproject Ltd., 6th Floor, Plot No.19, Noida-201301, U.P.

16. Project Director-O&M/AM, Odisha Generation Ph-II Transmission Ltd., O&M Head office, Tulip-634, New Minal Residency, J.K.Road, Near Ayodha Bypass, Bhopal-462023, M.P.

17. Head (Asset Management/O&M), Purulia & Kharagpur Transmission Co. Ltd., Tulip-634, New Minal Residency, J.K.Road, Near Ayodhya Bypass, Bhopal-462023, M.P.

GOVERNMENT OF INDIA

MINISTRY OF POWER

Eastern Regional Power Committee

MINUTES

OF

54th MEETING OF

EASTERN REGIONAL POWER COMMITTEE

Date: 24.06.2025

Time: 09:30 Hrs

Chennai, Tamil Nadu

Contents

Eastern regional Power Committee, Kolkata

MINUTES OF 54th MEETING OF EASTERN REGIONAL POWER COMMITTEE

Date: 24th June, 2025 (Tuesday) at 09:30 Hrs **Chennai, Tamil Nadu**

- **In Chair: Shri Santanu Basu (IAS) Chairperson, ERPC &CMD, WBSEDCL (West Bengal Power Distribution Company Limited)**

- **Host: Power Grid Corporation of India Limited(POWERGRID).**
- *Meeting was convened physically at Chennai, Tamil Nadu.*
- *List of participants is attached at **Annexure-A.***

***Member Secretary, ERPC** in his inaugural address expressed his gratitude to Shri Santanu Basu(IAS), Chairperson ERPC & CMD WBSEDCL for sparing his valuable time and for being present in the meeting despite his busy schedule. He welcomed other ERPC Members, TCC members, Special Invitees and other participants present in the meeting. He also thanked entire team of Powergrid for making nice arrangements for the meeting.*

***Director(Operation), Powergrid** expressed their happiness in hosting 54th meeting of TCC & ERPC at Chennai and extended warm welcome to all SRPC and TCC members and delegates from various utilities who had come to attend the meeting.*

He highlighted Powergrid's achievements which includes operation of 283 substations, 1,500 transmission lines of 1.8 lakh ckm of network, and over 5 lakh MVA transformation capacity.

Recent additions include 28 high-voltage lines, over 4,000 MVA capacity, 4 new substations, and a 765 kV process-based substation at Navsari. Powergrid maintains 99.82% availability with just 0.27% outage.

In the Easter Region, He mentioned that four ERS sets are being procured, to be located at Berhampur, Ranchi, Patna, and Rengali. Lastly, he stressed on the importance of cyber security for power sector utilities.

***Shri Santanu Basu(IAS), Chairperson, ERPC** in his keynote address welcomed all the delegates to the 54th Meeting of the Eastern Regional Power Committee. He further extended his sincere gratitude to all the participants for their valuable contributions towards the development of power sector in the Eastern region. He highlighted the importance of ERPC forum in resolving various techno-commercial issues among the members of forum amicably. He stated that the strength of the committee lies in bringing together various state utilities, central agencies, transmission and generating entities and private players under one umbrella of collective decision making. He stated that detailed deliberations on several key issues had already been taken place in the TCC meeting held on 23.06.2025 and expected that issues taken for decision in the ERPC meeting are going to be discussed in a fruitful manner.*

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

An brief presentation on implementation of Automatic Meter Reading(AMR) system in Eastern region was made by TCS/ Powergrid. The PPT is enclosed at **Annexure-B**.

PART-A: Confirmation of Minutes

A1. Confirmation of Minutes of 53rd ERPC Meeting held on 11th February 2025 at Gopalpur, Odisha

The minutes of 53rd ERPC meeting held on 11.02.2025 at Gopalpur Odisha was circulated vide letter no. ERPC/ TCC & ERPC COMMITTEE/2025/2096 dated 17.03.2025.

Deliberation in 54th ERPC Meeting

Members confirmed the minutes of 53rd ERPC meeting.

1. PART-B: ITEMS FOR DISCUSSION

B.1: Issues referred to ERPC during its TCC meeting held on 23.06.2025

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

B1.1: Provision of Reliable Power Evacuation from NKSTPP

Vide 227th OCC dated 26.05.25

- Presently, only the 400 KV D/C Chandwa line is available for power evacuation from NKSTPP, as the 400 KV NKSTPP–Gaya D/C line is still under construction.
- As per the system study conducted by ERLDC for power evacuation, in the scenario where all three units at NKSTPP are operational, stable operation is possible only up to 1700 MW in the event of a trip or shutdown of one circuit of the 400 kV D/C Chandwa line.
- The second evacuation corridor, i.e., the 400 kV NKSTPP–Gaya D/C line, is under construction and is being expedited by M/s NKTL.

i) OCC advised NKTL to expedite the construction of 400 KV DC NKSTPP Gaya Transmission lines.

ii) ERLDC was advised to design an SPS for reliable evacuation of power from NKSTPP through existing 400 KV NKSTPP Chandwa line.

iii) NTPC was advised to implement the SPS within a week of the finalization of same.

iv) OCC opined that Forest clearance and Land related issues come within purview of state govt.

Joint meeting was held with all stakeholders on 27-05-25 and SPS quantum was finalized in this meeting.

In 228th OCC Meeting held on 17.06.25, ERLDC informed that SPS has been implemented successfully.

NTPC updated that erection work of double ckt 400 KV NKSTPP Gaya lines going on in which 95 % & 75 % work has been completed in Bihar & Jharkhand respectively.

NTPC further updated that foundation work of 197 out of 207 towers and stringing work in 10 KM out of 71 KM is finished in Jharkhand.

Deliberation in the 54th TCC meeting:

- *NTPC updated that 5 foundations and 20 tower erections are yet to be completed and the work is expected to be completed by Dec, 2025.*
- *TCC opined that in case of delay in bringing the line into operation, such project could attract Commercial implication on NKTL.*
- *Since there was no representative from NKTL, the forum advised ERPC Secretariat to issue a letter to NKTL for regular updation of the status of the transmission line and requested all the concern utilities viz. Jharkhand & Bihar to facilitate for addressing issues regarding RoW & forest clearance.*

Deliberation in 54th ERPC Meeting

ERPC advised secretariat to monitor the progress of the 400 kV NKSTPP- Gaya D/C line periodically in OCC Forum. A letter may be issued to NKTL to submit progress report fortnightly and advised NKTL for early commissioning of the line.

B1.2: Power Evacuation of Buxar Thermal Power Plant of SJVN Thermal Pvt Ltd.

Following Intra-state scheme in Bihar for evacuation of power from Buxar TPS was agreed in the 1st Meeting of Eastern Region Power Committee (Transmission Planning) held on 14.02.2020:
Buxar TPS-Naubatpur 400 kV D/C (Twin Moose)
Buxar TPS-Dumraon (New) 220 kV D/C (Twin Moose)
Buxar TPS-Karmnasa (New) 220 kV D/c (Twin Moose)
Buxar TPS-Dehri 220 kV D/c (single Zebra)
2X500 MVA, 400/220kVICT

In Current Situation, 400 KV Naubatpur bay and 220 KV Dumraon Bay is not ready from BSPTCL end.
STPL was connected at 400 kV Naubatpur as a temporary measure to facilitate the drawl of start-up power. However, the dedicated bay at Naubatpur GIS is still under construction and remains non-operational as of date.
ERPC in 206th OCC meeting held on 31.08.2023 had granted consent to provide start up power to 2x660 MW Buxar Thermal Power Project, Chausa, Buxar as temporary arrangement at 400 KV level Naubatpur GIS to draw up Start-up Power only and not for evacuation purpose. STPL has earlier requested in ERPC forum to allow to evacuate the power through the line.

Unit #1 of BTPP, with a capacity of 660 MW, is scheduled to be synchronized with the grid on 15th July 2025 and Unit#2 is scheduled to synchronized with the Grid on October,25.

In this context, it is imperative for STPL to assess the grid readiness and transmission system strength to ensure the safe evacuation of power from Unit #1 and Unit#2 during initial synchronization and commissioning and further Commercial Operation.

In view of the current transmission system configuration and incomplete bay arrangement, the matter is placed before the TCC forum for deliberation. STPL seeks guidance and clarity from SLDC Bihar and ERLDC on the following points:

Whether the power from Unit #1 can be evacuated safely and reliably under an N-1 contingency condition, in the absence of the dedicated Naubatpur bay and the temporary nature of the current connection.

Whether power flow between 400 KV and 220 KV will create any network congestion for evacuation of the Power in this current situation.

MoP communicated the approval of allocation of 85% power to State of Bihar, generated from Buxar Thermal Power Station (2x660 MW). Balance 15% of generation capacity from the plant remained earmarked as "unallocated power" and on declaration of commercial operation, will be added in the ER Power pool and allocated to the states as per the provisions of existing guidelines of allocation of unallocated power as approved by the Ministry of Power from time to time.

Accordingly, the states of ER also have to initiate appropriate measures to avail the share of 15% unallocated power of BTPP at their end.

Deliberation in the 54th TCC Meeting:

i. *Director(Op), BSPTCL informed the forum that a meeting held among SJVN, SLDC Bihar & BSPTCL on 18.06.2025 regarding adequacy of transmission line for evacuation of power from one unit of Buxar TPP fulfilling (n-1) criteria with the existing lines.*

He informed that GIS Bay at Naubatpur end will be completed by Aug,2025 whereas Buxar TPS-Dumraon (New) 220 kV D/C (Twin Moose) will be ready by Oct,2025.

ii. *SJVN Buxar has updated that unit#1 will be synchronized with Grid by 15.07.2025 and CoD by 15th August 2025.*

iii. *It was informed by ERPC Secretariat that a letter has been issued to ER beneficiaries to convey their consent regarding availing the share under unallocated quota. However, no response has been received so far.*

TCC advised ER Beneficiaries to intimate their willingness at the earliest.

TCC referred the matter to ERPC.

Deliberation in 54th ERPC Meeting

ERPC advised ER beneficiaries of Buxar TPP to intimate their consent within a week to avail the power from Buxar TPP under unallocated quota so that the share allocation of Buxar TPP can be finalized before anticipated COD of 1st unit by 15th Aug-25.

Based on the intimation received from beneficiaries, ERPC Secretariat would take up with CEA/MoP for final allocation of the unallocated power in case of any surrender of unallocated quota by any beneficiaries.

B1.3: Issues related to Patratu TPS:PVUNL

85% power of PTPS was allocated to Jharkhand. Balance 15% "unallocated power" will be added in the Eastern Regional Power Pool and distributed among the existing beneficiaries of Eastern Regional Power Pool in accordance with the percentage of unallocated power allocated to the states.

As per the ATS of Patratu TPS, it will be connected only with the state grid of Jharkhand through the following lines:

i) 400 KV Quad Moose PVUNL - Katia (Patratu)

ii) 400 KV D/C PVUNL – Koderma

iii) 400 KV D/C PVUNL – Chandil

iv) 400 KV D/C Patratu – Ranchi (PG 765/400 KV)

v) 400 KV Twin Moose Katia (Patratu) – Latehar

vi) 400 KV Quad Moose Latehar – Chandwa

In 53rd CCM Meeting,

ERPC clarified that formal share allocation for the UA power of Patratu TPS is not yet issued from their end. Only the concerned authorities were apprised in advance to initiate appropriate measures to avail the share of 15% UA power of PTPS.

PVUNL mentioned that they placed the agenda in CCM to apprise the members of the committee. and informed that they are in the process of sorting out various issues with JUSNL/JBVNL.

West Bengal raised their concern on state transmission charges & losses payable for availing any UA power from the PTPS and requested to resolve the issue before signing of any PPA.

MS, ERPC requested Jharkhand to consider the feasibility of waiving of the state transmission charges for PTPS.

The issue was referred to TCC for deliberation on various issues faced by Patratu TPS as well as the concern of the utilities viz West Bengal.

A communication has been received from JUSNL vide letter No. GM/SLDC/Ranchi/309/2024 dated 18.06.2025 addressed to PVUNL communicating No Objection of SLDC Jharkhand for:

(i) As an interim arrangement, ERLDC may carry out the scheduling and accounting function of PVUNL till December 2025 and afterwards SLDC, Jharkhand will do the job or till the SAMAST get operative.

(ii) PVUNL may approach Hon'ble CERC to seek the necessary regulatory directions for the same.

Deliberation in the 54th TCC Meeting:

- *JUSNL updated that erection of 2 towers & stringing work for 1.5 KM of 400 KV PVUNL - Katia (Patratu) D/C line are yet to be completed and the line shall be ready without differential protection by 15.07.2025.*
- *JUSNL further updated that the SAMAST project will be completed by Dec-25.*

- *It was informed that PUVNL has approached CERC to get the consent for the scheduling by ERLDC.*
- *CTUIL informed that PVUNL needs to apply for injection GNA for 15 % unallocated power.*
- *JUSNL informed that the transmission charges shall be levied at the prevailing transmission tariff of the state which is presently of the order of 38 paise/unit.*
- *It was intimated by ERPC Secretariat that Sikkim has already conveyed their unwillingness to avail the power.*
- *Odisha informed that they do not intend to avail this power.*
- *Issue of waiver off of state transmission charges & losses was requested by beneficiaries.*

TCC Decision:

TCC requested other ER beneficiaries to convey their willingness for availing the power within 15 days.

It is understood that for other such kind of project namely Telengana STPP in Telengana, Telengana State has waived off the transmission charges & losses for the power scheduled to other beneficiaries. In similar line, Jharkhand may waive off the transmission charges & losses.

TCC also requested Jharkhand to waive off transmission charges and transmission loss for power allocated to other beneficiaries of PVUNL.

TCC referred to ERPC for further deliberation.

Deliberation in 54th ERPC Meeting

Several states requested Jharkhand for consideration of waiving off of the state transmission charges & losses in line with similar cases prevailing in other region.

Jharkhand representative informed that as per prevailing JERC regulation, the intrastate transmission charges & losses will be applicable for the power scheduled to other beneficiaries of PVUNL outside of Jharkhand. They are not in a position to waive off the transmission charges & losses. Further it was intimated that as per prevailing tariff of JUSNL, charges of 38 paisa per unit is levied for transmission charges.

ERPC advised Bihar & West Bengal to intimate their willingness to avail the power from PVUNL under unallocated quota within a week to ERPC Secretariat.

Based on the intimation received from beneficiaries, ERPC Secretariat would take up with CEA/MoP for final allocation of the unallocated power.

DVC representative intimated that they need power to meet the demand of their control area and requested for allocation of the untied unallocated power from PVUNL. ERPC advised DVC to approach CEA/MoP at the earliest in this regard.

B1.4: Finalization regarding fixation of methodology against 500 MVA ICT-7 (Interim) of Subhasgram SS and termination of Baruipur TL-II and Installation of 125 MVAR Bus Reactor:Powergrid ER II

As per special meeting dated 25.08.23, chaired by Secretary Power, GoWB and subsequent 51st ERPC meeting, available spare 500 MVA of ER-II, located at Maithon SS (As cold spare), diverted to Subhasgram SS and further commissioned at Subhasgram ss on 22.06.2024 as ICT-7 (Interim).

Subject 500 MVA ICT is originally envisaged as Regional spare and accordingly capitalized as regional spare in Dec-23. Post diversion of the ICT does not involved any change in commercial activities whatsoever. Further, to accommodate 7th ICT, 125 MVAR Bus Reactor & 220 KV Subhasgram-Baruipur-II line also has to be sacrificed.

6th ICT of Subhasgram, of CESC (500 MVA) is under transportation and soon it will be commissioned.

However, considering continuous load growth of Kolkata and surrounding area, and also, delay in commissioning of proposed 400 KV Laxmikantpur SS of WBSETCL, probably the loading at Subhasgram ICTs will have no relief in near future. Moreover, considering summer of 2026 will be of assembly election period, criticality around Subhasgram will have no respite.

Considering all such typical aspects, and also requirement of 220 KV Subhasgram-Baruipur-II is also imminent, it is proposed to consider as follows: -

a. Only Spare bay (217) at 220 KV at Subhasgram SS is available beside existing ICT-7 Bay (216). As bay construction work related to 6th ICT is ongoing, it will be prudent to finalize the location of 220 KV Baruipur-II feeder. If it is terminated at bay No-217, it will be very easy to terminate the same (Only Cable termination assembly need to be shifted , but no additional 220 KV HV cable is required). Considering, 220KV Cable already terminated within the switchyard for feasibility of connection, 217 Bay may be considered. Complete 220KV Bay with Main Bus-I/II/Transfer Bus Extension required to be constructed for termination of Baruipur-II bay. By this activity, 220 KV Subhasgram-Baruipur-D/C link will be reestablished and loading of 220 KV Subhasgram-Subhasgram-D/C, will be reduced accordingly.
b. 400KV, 125MVAR Bus Reactor is available at Subhasgram SS that was opened for commissioning of ICT-7. Considering, the voltage profile during winter lean period it may be prudent to install the 125MVAR Bus Reactor in the available Dia of ICT-6 which is under construction. Future Bay is available in the said Dia of ICT-6 and with new foundation and corresponding CRP, 125 MVAR Bus Reactor-1, could be reinstated at Future Bay (Bay No-419) of Subhasgram SS.
c. Considering, the load profile already detailed above the methodology of consideration of 500MVA ICT-7 (Interim) to be considered as a permanent asset under RTM. Accordingly, the same shall be deleted from spare list and new procurement will be done to replenish the spare.

Based upon finalization commercial implications shall be taken up accordingly as per prevailing regulatory guidelines.

Deliberation in the 54th TCC meeting:

- *Powergrid insisted that the 7th ICT needs to be capitalized at the earliest and the 125 MVAR bus reactor needs to be put in operation. ERLDC also stressed the requirement of Bus reactor at Subhasgram for voltage regulation.*

- *Powergrid also proposed to terminate 220 kV Baruipur-Subhasgram-II at Bay 217.*

- *Direcor(Op), WBSETCL informed that earlier to accommodate the 7th ICT, as temporary*

measure WBSETCL had to construct a bay at Subhasgram(WBSETCL) S/s to use this 220 kV Baruipur-Subhasgram-II line and hence the bay no 217 is not required by them at present. However, this particular space may be kept for WBSETCL to use the bay in future and cable laying for 6th ICT(for CESC) at Subhasgram should be done to keep this option open for WBSETCL for future use.

- *TCC agreed to the proposal of capitalization of 7th ICT and putting the 125 MVAR reactor in service. TCC also agreed to maintain the status quo of Bay 217 for future use by WBSETCL.*

TCC referred to ERPC for concurrence

Deliberation in 54th ERPC Meeting

ERPC appreciated the effort put by Powergrid in diverting the 7th ICT from Maithon to Subhasgram and commissioning the ICT at earliest possible time to ensure the reliability in power supply to Kolkata in spite of various hurdles during its transportation.

ERPC concurred with the proposal of capitalization of 7th ICT and putting the 125 MVAR bus Reactor in service at Subhasgram(PG) S/s. The status quo of bay 217 will be maintained for future use by WBSETCL.

B1.5: Diversion of 315 MVA Spare ICT from Jamshedpur to Subhasgram: Powergrid ER II

In recent past it is observed that due to unprecedented loading and adjoining affects, accelerated ageing is observed in existing 315 MVA ICT-I of Subhasgram SS.
At present there is no 315 MVA spare available at POWERGRID-ER-II and in case of any contingency it will be very difficult to handle the crisis as transportation to Subhasgram is a very big challenge always. POWERGRID has proposed for a fresh 315 MVA spare for ER-II but in earlier references (ERPC meeting), the same was denied and as such at present, to handle the contingency it is planned to bring the available 315 MVA spare of Jamshedpur to Subhasgram SS. The spare will be available at Subhasgram SS and in case of any problem in any existing asset of POWERGRID, the same shall be used.
Considering the criticality of the transportation following points was raised by Powergrid in the 227th OCC for discussion and approval:

- ☐ In principle approval for diversion of existing 315 MVA spare of Jamshedpur to Subhasgram SS.
- ☐ All necessary transportation and storing cost for relocation of spare will be booked in original project cost for further capitalization.

227th OCC technically agreed with proposal of Powergrid. However, Powergrid was advised to place the proposal in the next CCM along with cost estimate and views of WB SLDC.

In 53rd CCM,

WBSETCL stressed upon the fact that considering the criticality & loading of Subhasgram SS, it is prudent that the spare under discussion for Subhasgram, must be a new/Fresh ICT, like spare ICT at Jamshedpur and not the refurbished one, like as available in Durgapur.

The matter was deliberated regarding the relocation of available Regional spare 400/220KV,315MVA ICT from Jamshedpur to Subhasgram SS. PG informed that the transformer will be kept under cold spare.
The criticality of transportation was discussed and as informed by POWERGRID estimated cost for multi-modal transportation of the said ICT shall be around Rs. 4 crore approx.
The required transportation cost shall be capitalized suitably in original Spare ICT package and will be recovered as per prevailing guidelines.
Member Secretary stressed for maintaining stock of spare transformers at state level also following the CEA guidelines.
CCM Forum in principally agreed and recommended for consideration and approval of 54th TCC.

Deliberation in the 54th TCC Meeting:

Director Operation, WBSETCL requested Powergrid to reassess the transportation cost.

TCC agreed for transportation of regional spare of 315 MVA ICT from Jamshedpur to Subhasgram and advised Powergrid to reassess the transportation cost. TCC referred ERPC for approval.

Deliberation in 54th ERPC Meeting

ERPC approved the proposal for diversion of spare 315 MVA ICT from Jamshedpur to Subhasgram(PG) S/s which shall be kept over there as a regional spare and Powergrid was advised to reassess the transportation cost.

After detail deliberations and explanations from POWERGRID regarding, criticality of ROW involved in and around Subhasgram, ERPC agreed for capitalization of actual Transportation cost in existing Spare ICT project.

B1.6: Requirement of one 315MVA ICT on Loan basis from regional pool of spares: DVC

One no. 400/220/33 KV,315MVA ICT got damaged at Koderma Thermal Power Station, DVC on 02.06.2025. Due to this outage, DVC is facing difficulties in managing power flow of that area.

In this context a special meeting under the chairmanship of MS, ERPC was conducted on 06.06.2025.

During the meeting, DVC informed that of the two nos. of 315 MVA ICTs at Koderma TPS one ICT caught fire and got damaged on the early morning of 02.06.2025. Importance of the Koderma switchyard was apprised as it is connected to both the PowerGrid network at 400 kV level and internal DVC grid at both 220 kV and 132 kV level and that it is supplying power to JVVNL and other industrial consumers. In view of the above, DVC is seeking for one 315 MVA ICT on loan basis urgently.

After detailed deliberation, the following decisions were arrived at during the meeting:

All ER utilities were advised to adhere to CEA guidelines for availability of spares and inventories as well as to ensure N-1 redundancy.

✓ DVC may inspect the 315 MVA spare ICT being made available by PowerGrid at 400 kV Durgapur S/S and upon satisfactory test results, the same may be deployed at Koderma TPS. As informed later, DVC has already carried out inspection of spare 315 MVA ICT.

Recently an inquiry committee has been formed by CEA to analyse root causes that led to the burn out of the ICT.

In 228th OCC,

i. DVC intimated that the ICT at Durgapur is not suitable for KTPS due to mismatch in layout of the transformer and proposed for use of spare 315 MVA 400/220 kV Transformer available at Muzaffarpur(PG) S/s.

ii. OCC agreed with the proposal of DVC for use of spare 315MVA 400/220/33kV Transformer from PGCIL Muzaffarpur S/s at Koderma TPS of DVC.

iii. OCC advised DVC to carry out necessary testing and healthiness check of the Transformer and arrange for its transportation to Koderma.

iv. OCC advised Powergrid to extend all possible co-operation in this regard.

v. OCC referred the issue to TCC/ERPC for post facto approval.

Deliberation in the 54th TCC Meeting:

TCC agreed with the proposal and advised DVC to expedite transportation of the ICT from Powergrid Muzaffarpur to Koderma after conducting the necessary tests to ascertain its healthiness. The issue was referred to ERPC for approval.

Deliberation in 54th ERPC Meeting

ERPC agreed with the request of DVC to divert regional spare 315 MVA ICT available at Muzaffarpur(PG) S/s to KTPS, DVC as an interim arrangement. Powergrid requested the forum for its replenishment at the earliest.

DVC stated that they will take decision on its financial arrangement to avail the service of the said ICT at the earliest. However, in the meantime all the expenditure of testing and transportation in this regard shall be borne by DVC.

B1.7: Provision of Hot Spare Line reactor for 765 kV Sundargarh-Raipur#1&2 Lines at Sundargarh Substation: Powergrid Odisha

- 765 kV Sundargarh-Raipur#1&2 along with their respective 240 MVR (3x80MVAR) switchable Line Reactors were commissioned on 29th & 30th March 2019
- The Reactors were supplied under the package :RT01 (under TBCB):- for (I) (a) 6x80MVAR, 765kV Shunt Reactor at Jharsuguda S/S , (b) 6x80MVAR, 765kV Shunt Reactor at Raipur Pooling S/S under Odisha Phase-II (DPR-2) and (II) 2x80MVAR, 400kV Shunt Reactor with 400 ohm NGR at Kishanganj GIS S/S under HEP's in Bhutan under POWERGRID works associated TBCB line under Common Transmission System for Phase-II Generation Projects in Odisha.
- Presently there is no provision for Hot Spare for Switchable Line Reactors of 765 kV Sundargarh-Raipur #1 & 2. However, Hot Spare of Line reactors is available at Raipur end for the same line.

- The existing 80 MVAr Hot Spare of 765 kV Bus Reactors and Line Reactors of all four 765 kV Angul Lines is connected to 765 kV Bus#2 and positioned 400m apart from Raipur LRs. Line Reactors of Raipur Lines are connected to 765 kV Bus#1. Being physically positioned apart, there is no possibility for electrical connectivity of Raipur Line Reactors with the existing Hot Spare Unit to meet any type of exigency condition.
- It is noteworthy to mention that there is repetitive switching of Line Reactors of Raipur Lines for Voltage Regulation and These Line reactors are being taken into service as Bus Reactors based on the System conditions as per the instruction of ERLDC.
- Being an oil filled equipment and exposed to higher switching surges in 765 kV system,requirement of hot spare is very much important for grid reliability. The availability of spare unit shall ensure quick restoration of these reactors in case of any major breakdown issue in any of the unit.
- Therefore, it is felt prudent to provide spare Reactor for these Line Reactors for smooth, reliable and flexible system operation with minimum outage to Line.

- As per the site condition there is availability of space in proximity to B-Ph unit of Raipur#1 Line Reactor.
- Auxiliary Bus and Neutral Bus for Spare rotation is already available at site as part of the above-mentioned Package considering future provision for accommodating spare unit.
- Based on the above, requirement of Hot spare for Line reactors of 765 kV Sundargarh-Raipur #1 & 2 may kindly be considered.

In 228th OCC Meeting, it was observed that the proposed Reactor was not envisaged in the original scope of work during the planning stage. However, the same might be required at present scenario. Accordingly, OCC advised that the matter may be referred to CMETS to establish its present requirement.

Deliberation in the 54th TCC meeting:

Powergrid informed that the bay & line reactors are under RTM and not part of TBCB. OPTCL informed that they are agreeable to the above proposal of Powergrid.

TCC Decision:

TCC agreed with proposal of the Powergrid Odisha for requirement of hot spare for Line Reactor of 765 kV Sundargarh-Raipur #1 & 2. However, consent of CMETS-ER may be obtained.

The issue was referred to ERPC for its concurrence.

Deliberation in 54th ERPC Meeting

ERPC concurred the above proposal of Powergrid however the matter may be flagged in CMETS-ER meeting.

B1.8: Sharing AMR system application web client access with Utilities-pilot testing / roll out for WBSETCL Utility: POWERGRID ER- II

In the present landscape of AMR system in ER, all SEM data from different utilities reports to the central AMR system at ERLDC. This data transmission happens over secure LAN based channel.

The AMR application operates at ERLDC, and the GUI of the application is accessible only for ERLDC users. However, there have been multiple discussions happened on sharing the application access of AMR to the SLDC.

Sharing of AMR system access outside of ERLDC network requires certain network level upgradation for strengthening the security. Upgradation of AMR network to Layer3/Layer4 project was ongoing since Jan-25 and the same has completed now for all the SLDCs. Hence, in the present network setup, the AMR data sharing with other SLDC may be envisaged.

For a pilot testing & rollout, AMR data sharing will be done for WBSETCL Meters. At present, 59 number of Meters (at 20 Sub stations) are connected to AMR system for WB utility. To provide the GUI access for end users at SLDC-Howrah location, a separate customized AMR application will be developed. This application will be hosted at central server of ERLDC, and the web client access will be provided over the exiting LAN setup and the already installed router at SLDC station.

System/Desktop at SLDC location needs to be arranged by the respective utility.

The initial planning has been done for WB utility due to better connectivity and local presence of delivery center. As this will be for the first time, multiple testing and Application Development Life Cycle phases to be designed/implemented for a hassle-free rollout.

The first level of development/roll-out for WB has been planned as a pilot basis mode. An optimized and a minimal effort has been considered for optimal cost adjustment.

Once successful completion and go-live of the project for WB utility happens, the same will be planned for other 04 SLDC users (SIKKIM, Odisha, Bihar and Jharkhand) & DVC and system upgradation will be done accordingly. Additional Servers and licenses to be procured for the next phase of development along with necessary application module implementation. Additional hardware is required to physically isolate the SLDC application and database from the existing setup of the ERLDC to avoid any un-precedent scenarios.

For the initial pilot rollout for WB, this will be done in the existing system/servers at ERLDC. However, when the development will start for other 4 SLDC & DVC, application for WB will be migrated to the new Servers/System.

Tentative expenditure will be around Rs. 1,25,66,848 without taxes. (22,59,420 INR will be for additional Hardware/Software and 1,03,07,428 INR will be for new Application development for 05 SLDC and DVC users).

Timeline for this job completion will be total 09 months (First 03 months for WB, next 06 months for other utilities) from the date of order.

This will be onetime cost for the development and roll-out. PGCIL will discuss with M/S TCS for carrying out this job based upon approval.

Deliberation in the 53rd CCM meeting

POWERGRID considered to take up the project after repeated request by some of the SLDCs in various forum of ERPC for viewing AMR data at various SLDC level.

POWERGRID had assured to carry out the same after completion of Network Upgradation (From Layer-2 to Layer-3/4). As the network upgradation works are already completed, now, as per commitment, POWERGRID proposed for the implementation of instant feature at the SLDC level of ER.

The data sharing of existing AMR system will be planned for 05 SLDC (West Bengal, Sikkim, Odisha, Bihar and Jharkhand) and DVC as well. The mechanism and development process will be same as mentioned in the CCM agenda. Forum agreed for pilot implementation at West Bengal SLDC.

Timeline for this job completion will be 09 months total. (First 03 months for WB, next 06 months for other utilities). The total cost of ownership for the job will be **Rs. 1,25,66,848/- without taxes**. (Rs. 22,59,420/- will be for additional Hardware/Software and Rs. 1,03,07,428/- will be for new Application development for 05 SLDC and DVC users).

As the original system is designed & maintained by M/S. TCS, POWERGRID proposed to carry out the implementation through M/S. TCS on nomination basis and entire job will be implemented on consultancy mode by POWERGRID. Post completion, POWERGRID shall charge prevailing consultancy charges (15%) like other projects, and after execution exact cost implications shall be intimated.

Forum agreed with the proposal as it will enable various SLDC's to view Energy data as presently viewed by ERLDC. Further, on query of West Bengal, POWERGRID clarified that, entire scheme will be implemented on secured LAN only and no public IP will be used as per prevailing IT policy.

CCM Forum in principally agreed with the proposal in view of upgradation of feature and recommended for consideration and approval of 54th TCC.

Deliberation in the 54th TCC meeting :

Powergrid apprised that AMR network of ER has been successfully updated to layer3/layer 4 and project has gone live on 18.06.2025. It was further informed that pilot testing of AMR data sharing for 59 meters in WB control area shall be carried out and subsequently the same shall be done for other state SLDCs as well.

The total cost of the completion of this project is Rs. 1,03,07,428/- the excluding taxes and including HW/SW and application development.

Further proposed that powegrid should charge 15% consultancy charges post completion of the project.

TCC Decision:

i. *TCC appreciated the effort of Powergrid as it will enable state SLDCs to access real time SEM data and manage the drawal deviations effectively.*

ii. *TCC concurred the proposal of Powergrid with the cost implications of 1,03,07,428 without taxes and consultation charges of 15% will be implied after completion.*

iii. *TCC directed the Powergrid to complete the Pilot testing for WB system.*

Matter is referred to ERPC for its concurrence.

Deliberation in 54th ERPC Meeting

ERPC approved the proposal of Powergrid with the cost implications of Rs.1,03,07,428 /- (without taxes). The consultancy charges will be paid separately.

B1.9: Cost recovery against AMR expenditures in ER from 01.07.2023 to 31.03.2025 for various phases of implementation and associated activities pertaining to Software/Hardware refreshment and upgradation of AMR: Powergrid ER II

POWERGRID is entrusted for implementation and subsequent maintenance/troubleshooting of AMR system in entire Eastern Region. For implementation of various phases of AMR and further H/W software refreshment program and migration from GPRS to LAN as per cyber security guidelines, multiple LOAs placed by POWERGRID. On 19.06.2023, updated AMR system with Software/Hardware refreshment, done completely with all necessary cyber security compliances. Moreover, now all concerned sites are connected with LAN only which is as per cyber security guideline. In Mar-24, AMR Phase5 LOA was awarded to integrated new SEMs with the existing AMR system and automate the Meter data over LAN network.

As POWERGRID has already incurred the expenditures or provisioned for subject heads (LOA placed and liability created), entire amounts required to be recovered for budget balancing.

As per minutes of 50th CCM, 51st TCC & 51st ERPC Meeting, the last approved value of AMR expenditure was Rs. 7,87,31,547/-. The period of this approved cost was considered from Mar-2019 till Jun-2023.

Now for balance expenditure done in between 01.07.2023 to 31.03.2025 are reproduced below for reference, which will be recovered along with associated consultancy fees and applicable GST.

Details of expenditures from 01-Jul-23 till 31-Mar-25 in phased manner are given below:

Project	**LOA#/ SAP PO**	**Total Expenditure (from 01-Jul-23 till 31-Mar-25)**
AMR Phase-4 (AMC Contract)	ER-II/KOL/CS/I-2446/P-2420/1929 Dated: 20-Jul-2020, ER-II/KOL/CS/I-2446/P-2420/AMENDII/4374 Dated: 05-Jul-2021/ER-II/KOL/CS/I-2446/P-2420/AMEND-III/6493 Dated: 07-Jun-2022 **(SAP PO- 5100032889)**	41,09,767.72
AMR Phase-1&2 AMC renewal	ER-II/KOL/CS/I-2724/P-2702/4285 Dated: 02-Jun-2021 (**SAP PO- 5100035446**)	1,85,40,957.68
AMR Phase-3 AMC renewal for 249 SEM	ER2/NT/SAMC/DOM/E00/22/00692/1000000986/I-3645/P-3556/8045 **Dated** 29.12.2022 **(SAP PO- 5200059035)**	67,94,673.64
AMR Phase-5 for 320 SEM	ER2/NT/W-MISC / DOM /E00 /24 /03816 /1000022907/I-4329/P-4156/9801 Dated 14.03.2024 (**SAP PO- 6800012472**)	2,40,24,045.96
TOTAL		5,34,69,445
Consultancy Fees @ 15%		80,20,417
GST on Consultancy Fees @ 18%		14,43,675
Grand Total		**6,29,33,537**

As per above list, total Rs. 6,29,33,537/- (Rs. Six crores twenty-nine lacs thirty-three thousand five hundred thirty-seven only) required to be recovered from ER constituents against expenditure done from 01-Jul-2023 till 31.03.2025.

During claiming of bill/invoicing to respective constituents, POWERGRID will provide, necessary auditor certificates.

In 53rd CCM, Powergrid informed that further, add to above, unrecovered AMR related expenditures of amount Rs. 30,76,130/- (Including all), vide 41st TCC Meeting, also to be added to the total cost. As per proposed methodology, in 40th CCM, IPP cost to be recovered against ex-bus generation, however, the same could not be finalized due to shortage of data at that period and now, it is proposed to add the same in the main cost for recovery purpose.

Considering all, total recovery cost comes to **Rs. 6,60,09,667/-** (including the unrecovered Rs. 30,76,130/-).

Further Forum also agreed to recover the same from concerned beneficiaries (DIC's) w.r.t RTA billing for the month of July-2025.

CCM Forum in principally agreed and recommended for consideration and approval of 54th TCC.

***Deliberation in 54th TCC Meeting*:**

- *TCC concurred the total recovery cost of ₹ 6,60,09,667/- (including ₹ 30,76,130/-, in respect of IPPs) against expenditures of various phases of AMR implementation in ER from 01.07.2023 to 31.03.2025.*
- *TCC agreed with the proposal for the recovery of above cost from concerned beneficiaries (DIC's) w.r.t RTA billing for the month of July-2025.*

TCC referred the matter to ERPC for approval.

Deliberation in 54th ERPC Meeting

ERPC approved the total cost recovery of ₹ 6,60,09,667/- (including ₹ 30,76,130/-, in respect of IPPs) against expenditures of various phases of AMR implementation in ER from 01.07.2023 to 31.03.2025. The cost will be recovered from the concerned DICs w.r.t. RTA billing for the month of July-25.

B1.10: Planning of a Disaster Recovery (DR) site for AMR system in Eastern Region: Powergrid ER II

The present AMR system is getting operated from ERLDC central location. The data centre setup along with necessary hardware/software are installed at ERLDC location. The SEM data is very crucial for carrying out the accounting and settlement on weekly basis.

To improve the system redundancy, it is recommended to have a Disaster Recovery (DR) centre for AMR system. The DR site will be installed at Malda-PG station. This location will be a different seismic zone and 300km away from the Data Centre. Data replication between the DC and DR will be happening over the existing LAN/FO setup. If there is any unprecedent issue takes place at DC site of AMR, the web client access of end users will be redirected to the DR site and the AMR application can be accessed which operates at DR sites. All the data dumping process will be carried out from the DR location until the DC gets live. The DR site will be working as a child node of the

Data Centre on normal condition. Required network level security mechanism will be applied to ensure that there is no data communication happened from the DR to DC (it will always be DC to DR). The SOP for DR operation (drills, Audit, Failover Testing, Performance Monitoring etc.) will be decided later with ERLDC and ERPC.

Following activities will be done for the DR site implementation at Malda-PG

- Installation of Firewall and other required Networking Devices
- Installation of Rack Servers and Other required software licenses
- Installation of AMR application for ERLDC
- Installation of AMR application for SLDC users
- Configuration and tuning of the application/database to be in synch with the Data Center System over LAN.
- Impose of network level security and hardening of system
- Testing of AMR application (at DR) accessibility from ERLDC location.
- Monitoring and Maintenance
- Periodic failover drill assessment between DC & DR

In 53rd CCM, Powergrid informed that in line with above, to maintain proper data back up and business continuity, DR site of entire AMR receiving infrastructure was proposed. Also, as per defined policy of keeping DR site in different seismic zone than of DC, POWERGRID proposed to keep the same at POWERGRID/Malda SS.

On enquiry from West Bengal, POWERGRID responded that data backup is not an option in today's IT environment rather it is mandatory for maintaining transparency and keeping ready the system for any eventuality (Like Fire hazard or massive earth quake, etc).

Project timeline will be total of 04 years. 06 months implementation, 06 months warranty and 03 years AMC support.

Total cost of ownership will be: Rs. 1,65,37,163/- (without GST). Rs. 76,09,991/- for hardware supply, Rs. 29,91,379/- for implementation and warranty Services and Rs. 59,35,793/- for 36 months AMC support.

As the original system is designed & maintained by M/S. TCS, POWERGRID proposed to carry out the implementation through M/S. TCS on nomination basis and entire job will be implemented on consultancy mode by POWERGRID. Post completion, POWERGRID shall charge prevailing consultancy charges (15%) over and above to actual project cost, like other projects in ER executed for AMR, and after execution exact cost implications shall be intimated to forum with required auditor certificates.

CCM Forum in principally agreed with the proposal in view of upgradation of feature and recommended for consideration and approval of 54th TCC.

***Deliberation in 54th TCC Meeting*:**

TCC agreed with the proposal of proposal of establishment of DR center for AMR system at Malda Substation with Rs. 1,65,37,163/- (without GST) in addition to consultancy charges (15%).

TCC referred the matter to ERPC for approval.

Deliberation in 54th ERPC Meeting

ERPC approved the proposal of Powergrid for establishment of DR center for AMR system at Malda Substation with a cost estimate of Rs. 1,65,37,163/- without GST. Powergrid will be paid consultancy charges @ 15 % over and above the actual project cost.

B1.11: Supply & Installation of Bus-Bar Protection Panels including Bus Differential Protection in different 220 kV & 400 kV Sub• stations of WBSETCL: WBSETCL

To enhance capacity of existing network with an objective to maintain N-1 contingency and to improve reliability and voltage profile in the State as well as National Grid, one proposal amounting to Rs. 55.41 Crore has been submitted to the PSDF authority. Accordingly, the proposal was also discussed in the meeting of the Techno-Economic Subgroup (TESG) held on 25.08.2023.

OCC is requested to grant consent to the proposal to achieve reliable and economic power transmission system with highest system availability within the state of West Bengal.

In 227th OCC meeting WBSETCL updated that TESG had principally approved their proposal. OCC agreed with the proposal of WBSETCL and referred to ERPC for concurrence.

Deliberation in 54th TCC Meeting

TCC consented with the proposal of WBSETCL for Supply & Installation of Bus-Bar Protection Panels including Bus Differential Protection in different 220 kV & 400 kV Sub• stations of WBSETCL.

Matter has been referred to ERPC for approval for PSDF funding.

Deliberation in 54th ERPC Meeting

ERPC recommended the proposal of WBSETCL for Supply & Installation of Bus-Bar Protection Panels including Bus Differential Protection in different 220 kV & 400 kV Sub-stations of WBSETCL under PSDF.

B1.12: Status of DTL for Ind Barath TPP

Due to delay in completion of DTL, presently Ind-Barath TPP is connected to ISTS through an interim arrangement viz. connection of one circuit of OPGC –Sundargarh 400 kV D/c ISTS line at suitable cross over point of IBEUL –Sundargarh (Jharsuguda) 400 kV D/c line so as to form OPGC – Ind-Barath –Sundargarh 400 kV S/c line.

In 228th OCC meeting during discussion of challenges in intra-state network in Odisha system, Odisha representative highlighted the delay in DTL of Ind-Barath TPP and advised for early completion of the line.

Deliberation in 54th TCC meeting

JSW informed that the original proposal of 4 towers has been modified to one having 12 towers due to objections from MCL. The revised proposal has been agreed upon by MCL and is forwarded to

Ministry of Coal for approval. Once approval will be granted, JSW has assured that the construction of the transmission line will be completed within 3 to 4 months.

TCC Decision:

TCC advised JSW for expediting the construction of the transmission line and has referred the matter to ERPC for information.

Deliberation in 54th ERPC Meeting

Representative of JSWEUL stated that they are pursing with authorities of MCL & Ministry of Coal for approval of the revised proposal for diversion of the line with 12 new towers. Once approval will be granted, the construction of the transmission line will be completed within 3 to 4 months.

Director(SLDC), Odisha stated that nowhere in the country such type of LILO arrangement exists where a line connecting to an existing thermal power plant have been LILOed for power evacuation of another thermal power plant of capacity 700 MW. He further stated that though with the help of ERLDC they are managing the real time grid operation, but continuation of this arrangement poses threat to grid security & grid operation. He submitted that till completion of the DTL, JSWEUL shall run only one unit of their plant for secure operation of the grid.

MS, ERPC informed that the matter is being continuously monitored by CEA/MoP, and a meeting in this regard is scheduled shortly under chairmanship of Chairperson, CEA.

ERPC advised JSWEUL to expedite the process for getting approval from MCL and completion of the line construction work with shortest possible time.

B1.13: Request for Clarification on Continuous Imposition of Ancillary Charges despite High Grid Frequency Conditions: WBSEDCL

In accordance with the latest DSM regulations, the computation of DSM charges is considered incomplete without the inclusion of Ancillary Up operations and the associated Ancillary Charges. Under the Grid Code, Ancillary Up services are permitted to be utilised exclusively during anticipated low-frequency periods, when the demand-supply gap is expected to be narrowed through the injection of additional ancillary power.

However, it has been indicated by the final DSM data published on the Grid India website that Ancillary Charges were imposed in nearly all 96 time-blocks each day including on dates such as 18th May, 22nd May, and 25th May 2025, as well as 1st June 2025 despite the All-India grid frequency having repeatedly exceeded its permissible limits.

A review conducted for the period from 1st January to 25th May 2025 shows that Ancillary Charges were claimed in 13,913 out of 13,920 time-blocks (99.95%), suggesting that Ancillary Up operations were activated almost continuously, even during prolonged high-frequency conditions.

In view of the significant commercial implications of DSM charges for Grid entities, a detailed technical explanation is requested from the NLDC regarding the uninterrupted deployment of Ancillary Up services, regardless of the prevailing grid frequency. To promote transparency, it is further requested that a comprehensive breakup of the final Ancillary Charges be published on the Grid India website alongside the final DSM charge statements on a regular basis.

Deliberation in 54th TCC Meeting:

- *ERLDC acknowledged the issue raised by WBSEDCL and informed that the dates for which WBSEDCL has raised their concern, the grid is under high frequency and the generators*

were having generation schedule less than the MTL. The AGC signal in such a high frequency scenario is generally triggered to bring down the generation schedule to MTL . However as the schedule of generators were already below their respective MTL, such AGC signal as mentioned above resulted in up the actual generation and to match it to their MTL. This undesirable effect led to ancillary service up instruction on those days.

- *ED, ERLDC stated that the matter was discussed by ERLDC with NLDC and it was gathered that on the occasions when schedule of a generators were below MTL, AGC was generally switched off, However, on these days of high frequency, TRAS emergency down of very high quantum was invoked and hence AGC of all generators were kept in operation to take care of automatic increase in generation in case of any large generation loss during solar hours.*
- *TCC appreciated the analysis made by WBSEDCL.*
- *TCC felt that while switching off of AGC would not be desirable, appropriate change in logic is required.*

TCC advised NLDC to rectify the AGC triggering logic suitably for taking care of such anomalies in the coming days.

TCC referred the matter to ERPC.

Deliberation in 54th ERPC Meeting

ED, ERLDC informed that that the matter has already been taken up with NLDC.

He further stated the to mitigate the variability of RE sources, more quantum of Automatic Generation Control(AGC) is required in the grid. In ER, there is potential of 22000 MW of AGC excluding the NTPC Plants. He further informed that 1000 MW of Mejia, DVC is going to connect to AGC system today. He requested all concerned state generating stations of ER to come under the ambit of AGC for reliable & secure operation of the grid.

B1.14: Concern Regarding Non-Compliance in Power Supply under Long-Term Duration Contract (LDC) through PXIL: WBSEDCL

In view of the prevailing dynamics of the power market, the utilization of various products available on power exchanges has been recognized as a key measure for optimizing the power purchase portfolio & providing Resource adequacy of DISCOMs. Accordingly, such operations are being meticulously undertaken by WBSEDCL to ensure cost-effective and uninterrupted power supply to its consumers.

It is generally perceived that once power is transacted through the exchange platform, the beneficiary is reasonably assured of timely scheduling and delivery of the contracted quantum. However, a recent instance has raised significant concerns regarding the reliability of such mechanisms.

A substantial quantity of power was procured in advance by WBSEDCL through the PXIL platform under a Long-Term Duration Contract (LDC) the detail of which is furnished below. Despite fulfilling all commercial and procedural obligations, the Seller failed to supply the committed power. Market reports indicate that during the same period, some of the the Seller was engaged in supplying power to other buyers, suggesting a deviation from the contractual commitment towards WBSEDCL.

Although compensation at the rate of ₹40/MWh has been arranged by PXIL in accordance with the prevailing provisions of its Business Rules, the fundamental assurance associated with traded power

on the exchange platform was compromised. Consequently, WBSEDCL was compelled to resort to emergency procurement at significantly higher rates to meet its demand obligations.

This incident not only compromises the reliability of the power exchange mechanism but also raises broader concerns regarding the enforceability and sanctity of contracts executed through energy exchange platforms. It is respectfully submitted that this issue warrants urgent attention and may be deliberated upon at the appropriate Platform to ensure that such breaches do not recur and that the security of supply through exchanges is preserved in the interest of all DISCOMs operating across the country.

Deliberation in the meeting:

TCC acknowledged the concerns of WBSEDCL. TCC opined that the contract need to be sacrosanct & performed and in case any default, heavy penalty mechanism should be in place.

TCC suggested that ERPC Secretariat may refer the matter to NPC since the matter concerns to other discoms in the country also.

Deliberation in 54th ERPC Meeting

ERPC endorsed the views of TCC and advised ERPC Secretariat to take up with NPC in this regard.

B1.15: Recovery of Relinquishment Charges as per the direction of CERC in order dated 08.03.2019: CTU

CERC Order dated 08.03.2019 in Petition No. 92/MP/2015, directed CTU to assess the stranded transmission capacity and calculate the charges payable towards relinquishment and the relinquishment charges paid by LTA customers shall be used for reducing transmission charges payable by other long term and medium term customers in the year in which such compensation is due in the ratio of transmission charges payable for that year by such long term customers and medium term customers. Accordingly, the relinquishment charges had been computed by CTUIL and uploaded on its website (before the CERC Order, many IPPs/generators had relinquished the LTA and the charges were being recovered from the beneficiaries).

Deliberation in 53rd TCC meeting:

Current litigations in APTEL led to delays in the recovery of relinquishment charges and have impacted the beneficiaries across regions. There is a limited representation by state DISCOMs in the judicial proceedings of this matter. As the recovery of charges will reduce transmission charges burden of the discoms across the country, the discoms may actively participate in the proceedings of APTEL by including themselves as party in the petition. It was suggested that if state-wise financial quantification of the charges can be determined, it would help state discoms to take appropriate decisions. CTU agreed to work out the state-wise quantification.

Deliberation in 53rd ERPC meeting:
CTUIL updated that they already have the state-wise bifurcation of the relinquishment charges and the same would be shared. ERPC advised that state discoms may take a decision based on the data received from CTUIL for their participation in the proceedings of APTEL on the issues of relinquishment of LTA charges.

Deliberation in the 54th TCC meeting:

TCC advised that CTUIL may take suo-moto decision for refund of the money. CTUIL expressed that it may be tantamount to contempt of court. TCC advised that CTUIL may consider to take leave of the court from APTEL in this regard.

Deliberation in 54th ERPC Meeting:

CTUIL submitted that taking suo-moto decision on the refund of money would be a contempt of court and rather he suggested that if more discoms/states will participate in the proceedings by including themselves as party in the case, Hon'ble court may take up the case for hearing in priority.

ERPC advised that ER state discoms may take decision at the earliest for their participation in the proceedings of APTEL on the above issue.

B1.16: Third party protection audit for critical substations: ERPC

In 52nd TCC Meeting It was proposed that for FY 2024-25, third party protection audit of around 7 nos. is proposed to be carried out by ERPC for which Rs 30-35 lakh will be required for expenses involved in hiring third party agency, expenses in boarding, lodging and travel etc. Subsequently TCC agreed with the proposal of outsourcing services through an agency to assist in carrying out third party protection audit of critical substations of ER and its monitoring of implementation with an estimated cost of Rs. 35 lakhs and referred it to ERPC for approval.

Further In 52nd ERPC Meeting, ERPC approved expenditure of Rs. 35 lakhs (including taxes) for hiring of outsourcing services through an agency to assist in carrying out third party protection audit in some of the critical substations of ER in FY 2024-25.

Consequently, a bid was floated on 4th Jan 2025 by ERPC secretariat for hiring third party agency to assist in carrying out third party protection audit for 7 number of substations listed as follow-

1. 400/220 k V Tenughat S/s
2. 400k V Kahalgaon S/s
3. 400/220 k V Jeerat S/s
4. 400/220 k V Lapanga S/s
5. 220/132 k V Biharsharif S/s
6. 400/220 k V Meeramundali S/s
7. 220/132 k V Ramchnadrapur S/s

and after complete bid evaluation bid work order was issued to M/s PRDC on 20th May 2025 for price Rs 29,79,500 including GST and all taxes as applicable.

Third Party Protection audit for 400/220 k V Jeerat S/s was done from 2nd June 2025 to 5th June 2025 and it is expected that protection audit for remaining substations will be completed by middle of Aug 25.

Deliberation in the 54th TCC Meeting:

i. *ERPC Secretariat informed that third party protection audit has been carried out for Jeerat S/S and the audit for the remaining 6 substations will be completed by August, 2025.*

ii. *ERPC Secretariat informed that although the budget for carrying out the above work had been sanctioned for FY 2024-25, the actual expenditure will be made in FY 2025-26.*

TCC referred the matter to ERPC for approving the expenditure during current FY 2025-26.

Deliberation in 54th ERPC Meeting

ERPC approved the budget of Rs. 35 lakhs in FY 2025-26 for the purpose of protection audit.

B1.17: Request for Intervention in Recovery of Outstanding Dues from Government of Sikkim: WBSEDCL

The Energy and Power Department of the Government of Sikkim has an agreement with WBSEDCL for the purchase of power at a tariff based on the generation cost of the Rammam Hydel project operated by WBSEDCL. In line with this arrangement, the Government of Sikkim has been drawing power from WBSEDCL on a regular basis but has been reluctant to settle the bills since 2017. Additionally, WBSEDCL previously purchased power from the Government of Sikkim on a consumer basis until June 2023. The volume of power purchased by WBSEDCL was significantly less compared to the amount of power sold to the Government of Sikkim. After accounting for adjustments related to purchases and sales, as well as surprise payments made by Sikkim for November, December 2021 and April 2025, the current outstanding dues *as on* ***01.06.2025*** from the Government of Sikkim amount to approximately ***Rs.100.22Crores***. This figure includes a Late Payment Surcharge (LPSC) of ***Rs. 45.77Crores as on 31.03.2025***.

Previous Meeting References

- 42nd Commercial Sub-committee Meeting (Agenda B-5).
- 43rd TCC & ERPC Meeting (Agenda B-18).
- 52th CCM Meeting (Agenda B-8)

The issue of the outstanding dues was raised in the aforementioned meetings. However, there has been no positive response or payment from the Government of Sikkim thus far.

Submission

Till date WBSEDCL has made several attempts to resolve this issue but has found no satisfactory remedy. In view of the prolonged nature of this issue and the substantial outstanding amount, WBSEDCL is again seeking intervention from the ERPC platform with a request to take necessary actions to address the issue with the appropriate higher platform like CEA & MOP.

Deliberation in the 54th TCC Meeting:

As Sikkim representative was not present in the meeting, TCC advised ERPC Secretariat to write a letter to Power Dept, Govt of Sikkim requesting the clearing of dues at the earliest. TCC also suggested that ERPC Secretariat may approach NPC/CEA to incorporate provision in PRAPTI portal of MoP for realization of outstanding dues of DISCOMs' from another state/ discom/ generator (as applicable).

This is for the information of ERPC.

Deliberation in 54th ERPC Meeting

ERPC approved the action as suggested by TCC.

B.2: Request by Rashmi Group for participation in ERPC Forum-reg

Rashmi Group vide letter dated 07.06.2025 informed that they have been granted ISTS connectivity of 180 MW for their future energy needs. They currently operate Captive Power Plants with a combined

capacity of approximately 700 MW across West Bengal & Odisha. Further they have become successful bidder in the liquidation process of Essar Power (Jharkhand) Limited. The Liquidator has handed over the Essar Power (Jharkhand) Limited vide a sale certificate dated 27/03/2025 to OASPL. The project is at development stage with a combined capacity of 1200 MW.

Given their upcoming projects, significant industrial presence in Eastern Region coupled with ISTS connectivity, they have requested to be part of ERPC forum for better coordination and planning within the regional planning landscape.

Deliberation in 54th ERPC Meeting

MS, WRPC pointed out that as per MoP resolution on formation of RPCs, there is no distinction between CPP & IPP generators who has installed capacity more than 1000 MW to become a member of RPC. He informed that BALCO in WR is a member of WRPC though it is a CPP.

ERPC opined that in line with the MoP resolution, generators (IPP or CPP) having installed capacity more than 1000 MW in the ER will become member of ERPC.

In the present case, ERPC decided that considering the ISTS connectivity of the Rashmi Group, they may be allowed to become a non-member participant of the ERPC subject to payment of the required fees.

B.3: Re-apportionment of Budget for FY 2024-25

The following reapportionment was carried out in the Budget of ERPC Establishment Fund to clear the pending bills in the FY 2024-25. Post-facto approval may be accorded to the below re-apportionment.

Name of Head	Approved BE of 2024-25 (in ₹)	BE after proposed reapportionment (in ₹)
Office Expenses	1,50,00,000	1,37,00,000
OE-Meeting	50,00,000	62,00,000
Material and supplies	2,10,000	3,10,000
Total	2,02,10,000	2,02,10,000

ERPC may approve.

Deliberation in 54th ERPC Meeting

ERPC accorded post-facto approval of the above budget reapportionment for FY 2024-25.

B.4: Finalisation of dates and venue for the next ERPC & TCC meetings.

Sl.No.	Host Organization	Remarks
1	ODISHA	31st ERPC Mtg. on 14.11.2015

2	JHARKHAND	32nd ERPC Mtg. on 20.02.2016
3	BIHAR	33rd ERPC Mtg. on 25.06.2016
4	CESC	34th ERPC Mtg. on 19.11.2016
5	TPTCL	35th ERPC Mtg. jointly on 25.02.2017
6	MPL	35thERPC Mtg. jointly on 25.02.2017
7	GMRKEL	36th ERPC Mtg. on 26.08.2017
8	POWERGRID	37th ERPC Mtg. on 17.06.2018
9	DVC	38th ERPC Mtg. on 30.06.2018
10	NVVN	39th ERPC Mtg. Om 17.11.2018
11	NHPC	40th ERPC Mtg. on 16.03.2019
12	NTPC	41st ERPC Mtg. on 27.03.2019
13	PTC	42ndERPC Mtg. on 13.12.2019
14	ERPC Sectt.	43rd, 44th, 45th ERPC Mtg. during 2021-2022
15	WEST BENGAL	46th ERPC Mtg. on 06.08.2022
16	ERPC Sectt.	47th on 25.11.2022 & 48th (Online) ERPC Mtg.
17	Power Dept, Sikkim & Sikkim Urja Limited jointly hosted	49th ERPC Meeting on 24.03.2023
18	ERPC Sectt.	50th ERPC Mtg on 11.08.2023
19	ERPC Sectt.	51st ERPC Mtg (Online) on 12.01.2024
20	NTPC	52nd ERPC Mtg. on 06.08.2024
21	ODISHA	53rd ERPC Meeting on 11.02.2025
22	POWERGRID	Organizing 54th ERPC Meeting

The roster for hosting of ERPC meetings is given below**:**

Deliberation in 54th ERPC Meeting

It was decided that ERPC Secretariat will coordinate and intimate the host as well as date and venue of the next meeting in due course.

Annexure-A

Partcipants list for ERPC Meeting Dated 24.06.2025 at Chennai

Sl No.	Organisation	Name	Designation	Signature
1	WBSEDCL	Santanu Basu, IAS	Chairperson, ERPC and CMD, WBSEDCL	
2	ERPC	N S Mondal	Member Secretary, ERPC	
3	ATL	Nihar Raj	Sr. VP & Head (O&M)	
4	BERC	A K Sinha	Member Technical	
5	BRBCL	Bimal Kumar Saha	GM (O&M)	
6	BSPTCL	Perwez Alam	CE, STU	
7	CESC	Koushik Banerjee	GM (SO)	
8	CTUIL	Rajesh Kumar	Sr. GM (TP-III)	
9	CTUIL	Manish Ranjan Keshari	CM (TP-III)	
10	DANS Energy	Anoop Kr Bhatnagar	COO	
11	DMTCL	Nimish Seth	COO	
12	DVC	Arup Sarkar	Member(Finance)	
13	DVC	S. K.Sharma	Sr GM & Head DVC LDC	
14	DVC	Durgesh Maiti	CGM (Finance)	
15	ERLDC	Rajiv Sutradhar	ED	
16	ERLDC	Manash Protim Nath	DGM, MO	
17	ERLDC	Bilash Achari	DGM , SO	
18	ERLDC	Ayush Raj	AM, SCADA	
19	ERPC	S Kejriwal	SE	
20	ERPC	P P Jena	EE	
21	ERPC	P K De	S.E	24.6.25
22	ERPC	K Swati	AEE	24/6/25.
23	ERPC	I K Mehra	S.E	
24	ERPC	B S Ray	EE	

25	ERPC	Anup Das	EE	
26	ERPC	A Basu	EE	
27	GMR	Raghunath P.V	Dy. Plant Head	
28	GRIDCO	Umakanta Sahoo,	Ex-Director, (T&BD), GRIDCO	
29	GRIDCO	Sanjit Kumar Maharana, GM, (Electrical)	GM, (Electrical)	
30	GRIDCO	Bibhu Prasad Mohapatra,	CGM(Electrical)	
31	IndiGrid (ENICL)	Sanil Namboodiripad F	Chief Operating Officer	
32	JBVNL	Satyajeet Ghosh	GM (P&FM)	
33	JIPL	Sanjay Mittal	Director	
34	JIPL	Vijaya Bhaskar Reddy Duggempudi	CEO	
35	JSW Energy Utkal Ltd. (member as Private Genco.)	Baliram Jadhav F	Head Of Plant - JSW Energy Utkal Limited	
36	JUVNL	Rakesh Pandey	Sr .Mg (Tech.)	
37	JUSNL	Parween Kumar	ED (Proj.)	
38	JUSNL	Mukesh Kumar Singh	ED Corporate & Affairs	
39	JUSNL	Arun Kumar	GM, SLDC	
40	JUVNL	Kumar Sambhav	DGM (Hr)	
41	JUVNL	Abhishek Kumar	Sr. Mng (Tech.), CMD Cell, JUVNL	
42	MPL	Sudip Dash	Head - Commercial	
43	NHPC	S. K Mishra	General Manager(O&M)	
44	NHPC	Jaganath Pani	Sr. Manager(O&M)	
45	NkTL	Abhishek Kukreja	Lead (O&M)	
46	NTPC	Manish Jain	Head (Commercial), ER-1 HQ,	
47	NTPC	D K Patra	AGM(EMD),	
48	NTPC	S.K. Bradhan ~~Ajay Dua~~	GM (COMM). ~~ED (Commercial)~~	
49	OHPC	Arjun Kumar Sahu	DGM (Elec.)	
50	OHPC	Amiya Kumar Mohanty	CGM (Elec.)	

51	OPGC	Haresh Kumar Satapathy	AGM (Commercial & Regulatory Affairs)	
52	OPTCL	S K Das	GM (Elec.)	
53	OPTCL	C R Mishra	GM (Elec.)	
54	OPTCL	B B Mehta	Dir. SLDC	
55	Power Grid	Naveen Srivastava F	Director (Operations)	
56	Power Grid	A K Naik	CGM I/C - ER-II	
56	Power Grid	Siddhartha Jyoti Lahiri	Chief GM (AM), ER-II	
57	Power Grid	Rajil Srivastava F	Executive Director (AM)	
58	Power Grid	Partha Ghosh	DGM (AM)	
59	Power Grid	Arvind Kumar Pandey	Chief GM (AM), ER-I	
60	PTC	Bharat Sharma	Vice President	
61	PVUNL	Rakesh Kumar	PVUNL	
62	SBPDCL	Bhupendra Umrao	Electrical Executive Engineer (Smart Metering)	
63	SBPDCL	Alok Kumar	Senior Manager (Finance)	
64	Sigha Energy	Abhilash Gour	Sr. Manager	
65	Sikkim Urja Ltd.	Yogendra Kumar	Vice President	
66	Sikkim Urja Ltd.	Iyappan Dillikumar	DGM	
67	SJVN (Buxar Plant)	Prabhakar Kishore	DGM (E)	
68	SLDC Odisha	Subhas Chandra Dash,	CGM(SLDC)	
69	SLDC Odisha	Sanjaya Kumar Mishra	GM(SLDC)	
70	Sneha Kinetic PPL and GI Hydro Pvt. Ltd	D.P Bharava	Advisor	
71	SPTL	Prabhat Kumar	Chief General Manager(Projects)	
72	TATA Steel UISL	~~Sanjay Gautam~~ V.P. Singh	~~Divisional Manager~~ Sr. G.M. Power Services	
73	TVNL	Anil Kr Sharma	MD	
74	TVNL	Ashish Kr Sharma	ESE	
75	WBPDCL	Rajat Koley	Sr. Manager(OS)	

76	WBPDCL	Rabindra Nath Sahoo	GM(OS)	[signature]
77	WBSEDCL	Preetam Banerjee	Additional Chief Engineer	[signature]
78	WBSEDCL	Shyamal Kanti Das	Additional Chief Engineer	[signature]
79	WBSETCL	Shouvik Banerjee	ACE, SLDC	[signature]
80	WBSETCL	Rita Chakraborty	C.E., SLDC	[signature]
81	WBSETCL	Ranjan Das	CE, CPD	[signature]
82	WRPC	Deepak Kumar	MS	
83	WBSEDCL	Ajay Kumar Pandey	Director (R&T)	[signature]
84	TCS	ANANDA BHATTACHARYA.		[signature]
85	CESE	SANDIP PAL.		[signature]
86	TCS	SOURAV BERA		S. Bera
87	TCS	ABHISHEK DAS		[signature]
88	JUSNL	M. K. Karnal		[signature]
89	JIPL	Shubhang Nanda		[signature]
90	DVC	Sanjiv Shrivastava	ED (Comml.)	[signature]
91	WBSETCL	Labyanendu Roy	Dir (O&P)	[signature]
92	GMR	P.K Senapathy	GM (Elect.)	P.K Senapathy
93	POWERGRID	TR. Krishnakumar	ED / SR-II	[signature]

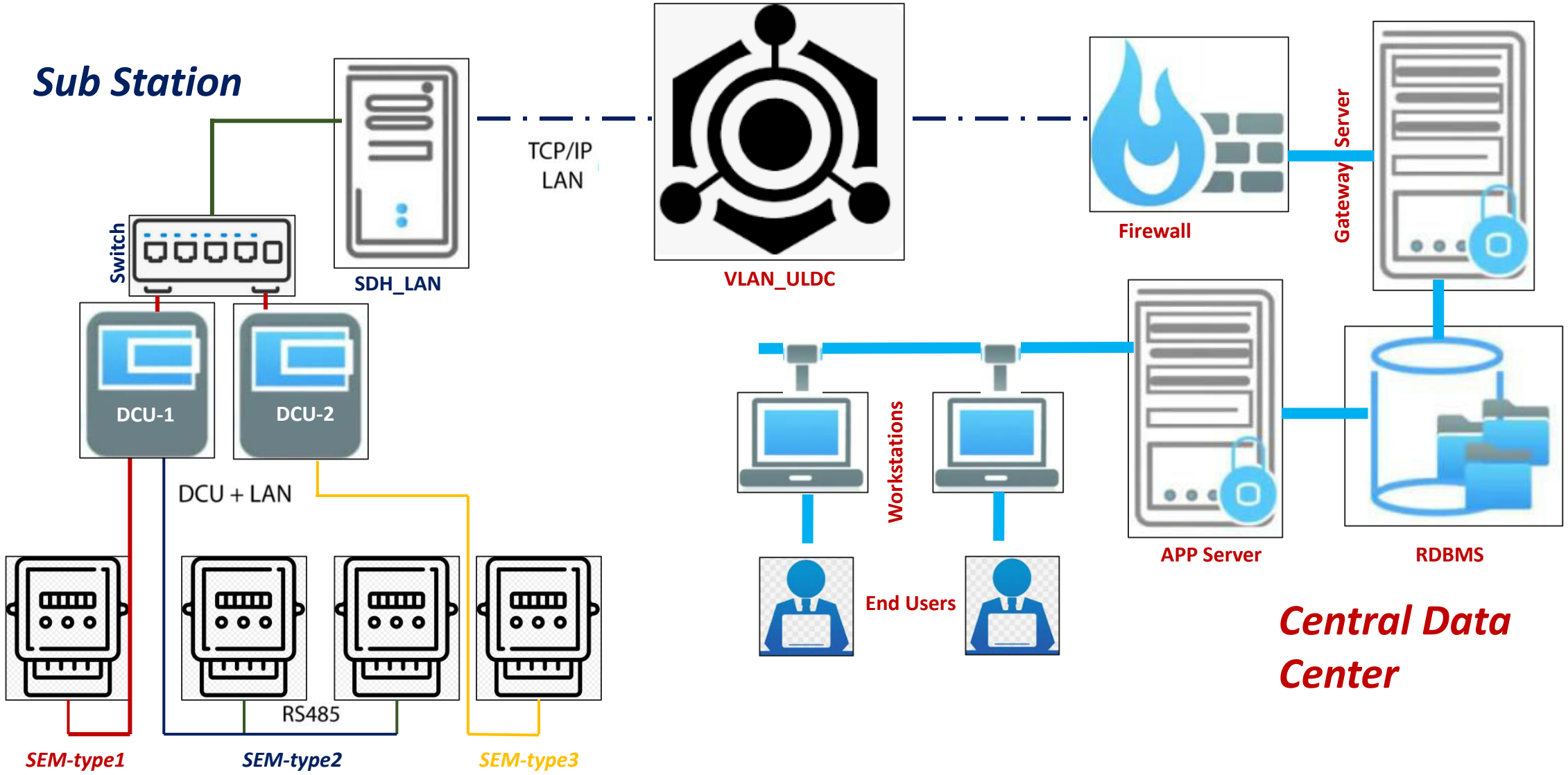
Annexure B

Automatic Meter Reading (AMR) [Eastern Region]

Challenges and Success Stories towards excellence

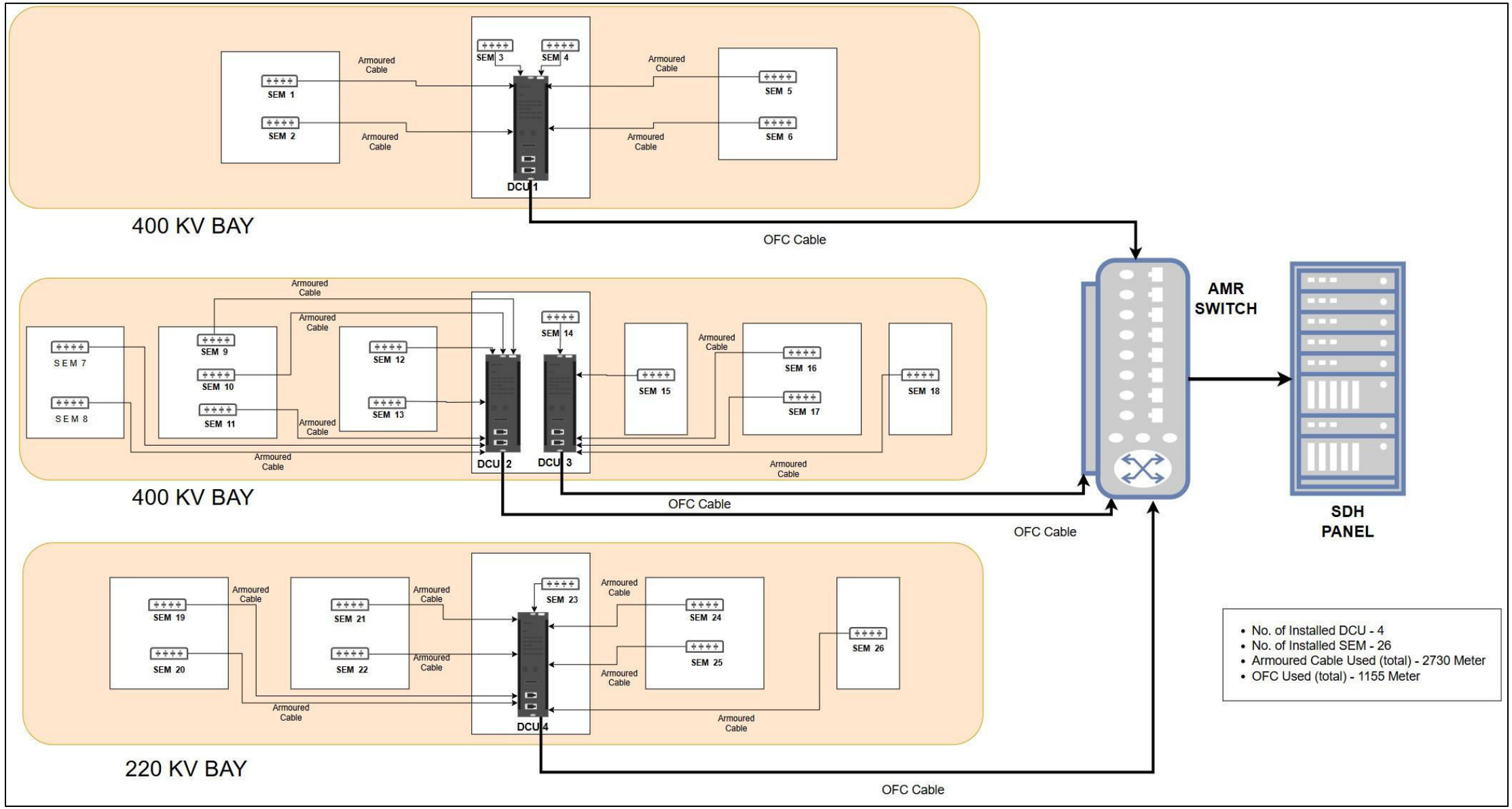
Automatic Meter Reading (AMR) - Solution Architecture

Annexure B



Typical AMR System Implementation at Kiosk

Annexure B



Process Improvements & Successful POC conducted in AMR-ER
||
for future readiness

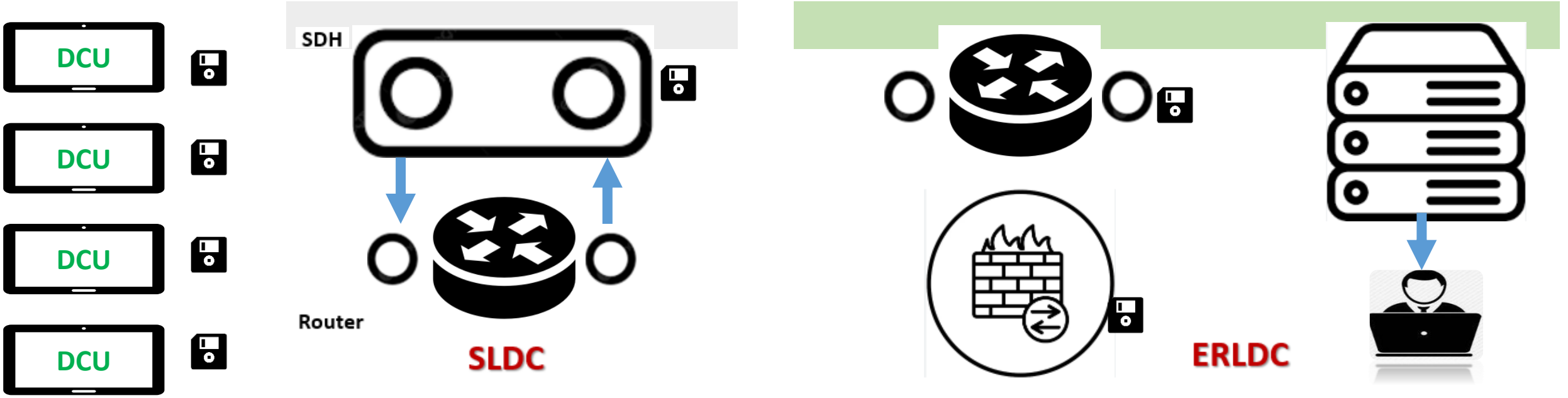
Improvements done in the AMR Solution- for future Readiness

Annexure B

- *05 min Load Survey Meter integration with AMR*
- *01 min instantaneous data collection*
- *Data retrieval from TCP/IP Meters Simultaneously*
- *Capturing Event data from Meters*
- *Upgradation of Network Architecture*

AMR Network Upgradation- solution architecture

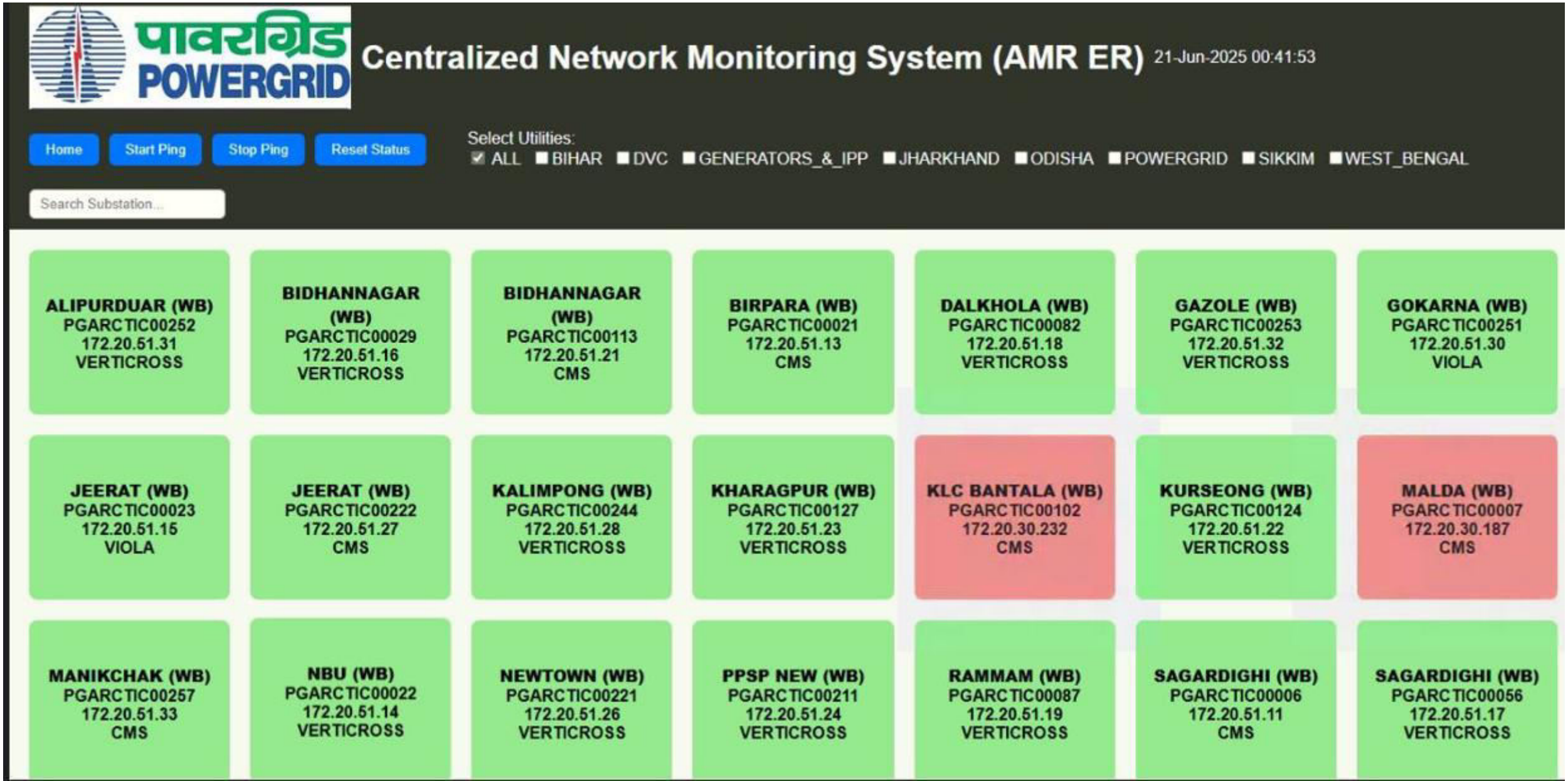
Annexure B



- Stringent NW Security
- Logical Isolation- Utility wise
- Separate IP Subnet
- Centralized NW Monitoring
- Anomaly Detection/Prevention

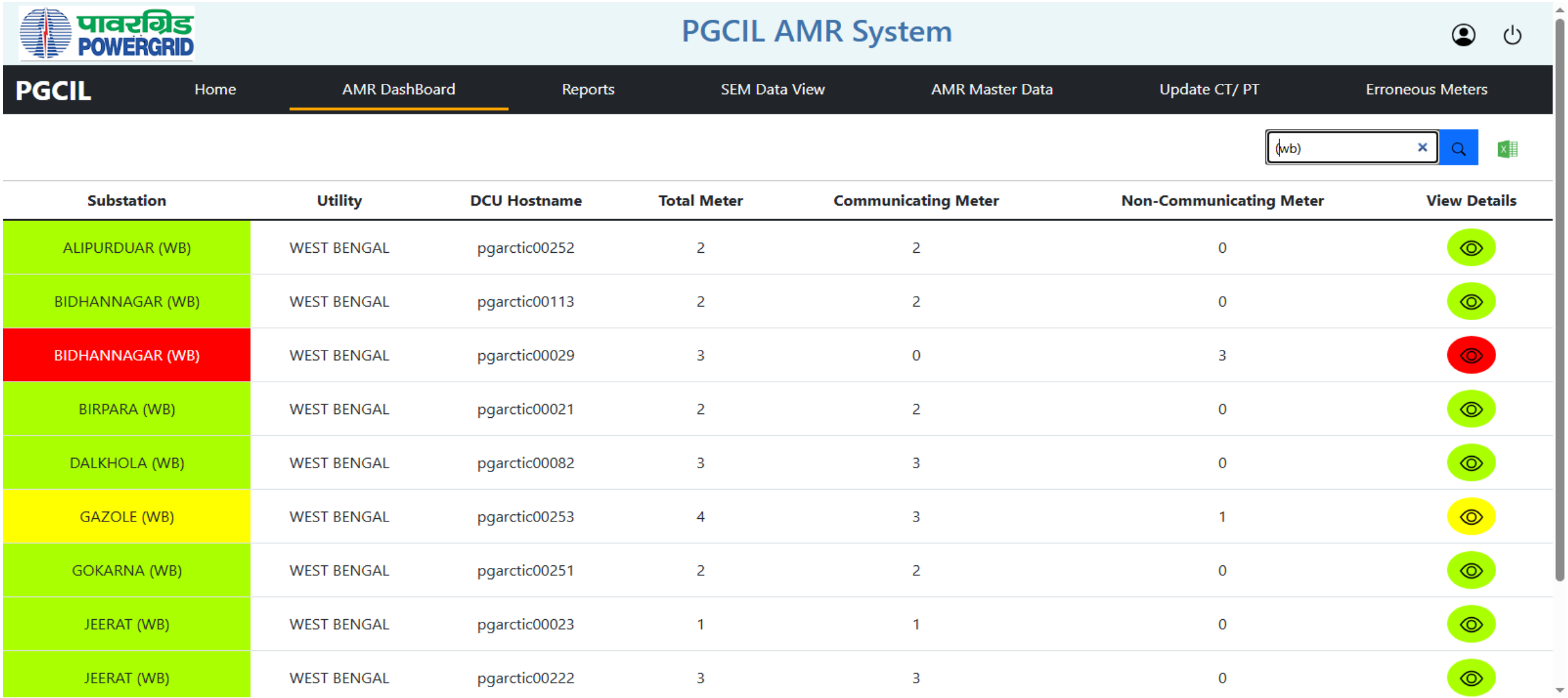
AMR Network Upgradation- Centralized Dashboard

Annexure B



SYSTEM DASHBOARD

Annexure B



Substation	Utility	DCU Hostname	Total Meter	Communicating Meter	Non-Communicating Meter	View Details
ALIPURDUAR (WB)	WEST BENGAL	pgarctic00252	2	2	0	
BIDHANNAGAR (WB)	WEST BENGAL	pgarctic00113	2	2	0	
BIDHANNAGAR (WB)	WEST BENGAL	pgarctic00029	3	0	3	
BIRPARA (WB)	WEST BENGAL	pgarctic00021	2	2	0	
DALKHOLA (WB)	WEST BENGAL	pgarctic00082	3	3	0	
GAZOLE (WB)	WEST BENGAL	pgarctic00253	4	3	1	
GOKARNA (WB)	WEST BENGAL	pgarctic00251	2	2	0	
JEERAT (WB)	WEST BENGAL	pgarctic00023	1	1	0	
JEERAT (WB)	WEST BENGAL	pgarctic00222	3	3	0	

BLOCKWISE 5/15 MINS DATA

Annexure B

PGCIL | Home | DCU Health Monitor | AMR DashBoard | Reports | SEM Data View | AMR Master Data | Update CT/ PT | Erroneous Meters

Meter Serial No: IEM-0110-A **Feeder Name:** 33 KV SIDE OF 400/220/33KV RAJARAHAT(PG) TERTIA **MF:** 15 **CTR:** 50/1 **PTR:** 33/110 Reset

General
LS_15-min
Midnight
LS_5-min
Event Data

From Date: mm/dd/yyyy To Date: mm/dd/yyyy Get Data Apply MF (After Multiplying net value energy unit is kWh)

SNo	Meter Serial No	Load Survey DateTime	Frequency	Wh_net	kWh(I)	kWh(E)	kVArh_lg@kWh(I)	kVArh_ld@kWh(E)	kVArh_lg@kWh(E)	kVArh_ld@kWh(I)	kVAh(I)	KWh(Net)
1	IEM-0110-A	2025-06-04 08:25:00.0	57	-0.42	0	0.42	0	0.16	0	0	0	-0.42
2	IEM-0110-A	2025-06-04 08:20:00.0	52	-0.41	0	0.41	0	0.16	0	0	0	-0.41
3	IEM-0110-A	2025-06-04 08:15:00.0	55	-0.41	0	0.41	0	0.16	0	0	0	-0.41
4	IEM-0110-A	2025-06-04 08:10:00.0	57	-0.41	0	0.41	0	0.16	0	0	0	-0.41
5	IEM-0110-A	2025-06-04 08:05:00.0	57	-0.39	0	0.39	0	0.16	0	0	0	-0.39
6	IEM-0110-A	2025-06-04 08:00:00.0	61	-0.41	0	0.41	0	0.17	0	0	0	-0.41
7	IEM-0110-A	2025-06-04 07:55:00.0	59	-0.4	0	0.4	0	0.17	0	0	0	-0.4
8	IEM-0110-A	2025-06-04 07:50:00.0	53	-0.4	0	0.4	0	0.17	0	0	0	-0.4
9	IEM-0110-A	2025-06-04 07:45:00.0	56	-0.39	0	0.39	0	0.17	0	0	0	-0.39

PGCIL | Home | DCU Health Monitor | AMR DashBoard | Reports | SEM Data View | AMR Master Data | Update CT/ PT | Erroneous Meters

Meter Serial No: ER-1616-A **Feeder Name:** 33 KV SIDE OF 400/220/33KV RAJARAHAT(PG) TERTIA **MF:** 15 **CTR:** 50/1 **PTR:** 33/110 Reset

General
LS_15-min
Midnight
LS_5-min
Event Data

From Date: mm/dd/yyyy To Date: mm/dd/yyyy Get Data Apply MF (After Multiplying net value energy unit is kWh)

SNo	Meter Serial No	Load Survey DateTime	Frequency	Wh_net	kWh(I)	kWh(E)	kVArh_lg@kWh(I)	kVArh_ld@kWh(E)	kVArh_lg@kWh(E)	kVArh_ld@kWh(I)	kVAh(I)	KWh(Net)
1	ER-1616-A	2025-06-23 06:15:00.0	70	-1.79	0	1.79	0	0	0.84	0	0	-1.79
2	ER-1616-A	2025-06-23 06:00:00.0	70	-1.81	0	1.81	0	0	0.83	0	0	-1.81
3	ER-1616-A	2025-06-23 05:45:00.0	59	-1.65	0	1.65	0	0	0.76	0	0	-1.65
4	ER-1616-A	2025-06-23 05:30:00.0	61	-1.62	0	1.62	0	0	0.73	0	0	-1.62
5	ER-1616-A	2025-06-23 05:15:00.0	58	-1.59	0	1.59	0	0	0.73	0	0	-1.59
6	ER-1616-A	2025-06-23 05:00:00.0	53	-1.58	0	1.58	0	0	0.73	0	0	-1.58
7	ER-1616-A	2025-06-23 04:45:00.0	51	-1.55	0	1.55	0	0	0.74	0	0	-1.55
8	ER-1616-A	2025-06-23 04:30:00.0	48	-1.42	0	1.42	0	0	0.65	0	0	-1.42
9	ER-1616-A	2025-06-23 04:15:00.0	47	-1.39	0	1.39	0	0	0.58	0	0	-1.39
10	ER-1616-A	2025-06-23 04:00:00.0	46	-1.3	0	1.3	0	0	0.58	0	0	-1.3
11	ER-1616-A	2025-06-23 03:45:00.0	48	-1.26	0	1.26	0	0	0.55	0	0	-1.26
12	ER-1616-A	2025-06-23 03:30:00.0	50	-1.31	0	1.31	0	0	0.54	0	0	-1.31

MIDNIGHT / EVENT DATA

Annexure B

PGCIL | Home | DCU Health Monitor | AMR DashBoard | Reports | SEM Data View | AMR Master Data | Update CT/ PT | Erroneous Meters

Meter Serial No: ER-1616-A **Feeder Name:** 33 KV SIDE OF 400/220/33KV RAJARAHAT(PG) TERTIA **MF:** 15 **CTR:** 50/1 **PTR:** 33/110 Reset

General | LS_15-min | Midnight | LS_5-min | Event Data

From Date: mm/dd/yyyy To Date: mm/dd/yyyy Get Data Apply MF (After Multiplying net value energy unit is kWh)

SNo	Meter Serial No	Midnight Date	Wh_net	kVArh_hi	kVArh_lo	kVAh(I)	kVAh(E)	kVArh_q1	kVArh_q2	kVArh_q3	kVArh_q4
1	ER-1616-A	23-06-2025 00:00:00.000	32014.4	76711.8	99116.7	30.4	73628	0	3.4	28939.7	22.7
2	ER-1616-A	22-06-2025 00:00:00.000	32141	76725.9	99116.7	30.4	73492.3	0	3.4	28887.9	22.7
3	ER-1616-A	21-06-2025 00:00:00.000	32282	76730.5	99116.7	30.4	73342.8	0	3.4	28835.2	22.7
4	ER-1616-A	20-06-2025 00:00:00.000	32410.2	76740.7	99116.7	30.4	73203.4	0	3.4	28777.6	22.7
5	ER-1616-A	19-06-2025 00:00:00.000	32534.8	76757.9	99116.7	30.4	73066.7	0	3.4	28718.4	22.7
6	ER-1616-A	18-06-2025 00:00:00.000	32661.5	76776.3	99116.7	30.4	72927.4	0	3.4	28657.5	22.7

पावरग्रिड POWERGRID

PGCIL AMR System

PGCIL | Home | DCU Health Monitor | AMR DashBoard | Reports | SEM Data View | AMR Master Data | Update CT/ PT | Erroneous Meters

Meter Serial No: NS-2942-A **Feeder Name:** 220 KV SUBHASGRAM(PG)-SUBHASGRAM(WBSETCL)-1 **MF:** 3200 **CTR:** 1600/1 **PTR:** 220/110 Reset

General | LS_15-min | Midnight | LS_5-min | Event Data

Meter SNO	Occurrence Time	Restoration Time	Duration(Mins)	Description
NS-2942-A	24/10/2024 11:27	02/01/2025 08:54	100647	Power Off
NS-2942-A	23/01/2025 06:32	23/01/2025 15:30	538	Power Off
NS-2942-A	31/01/2025 06:10	31/01/2025 06:53	43	Power Off
NS-2942-A	30/03/2025 07:30	30/03/2025 12:22	292	Power Off
NS-2942-A	01/05/2025 05:29	01/05/2025 10:18	289	Power Off

INSTANTANEOUS DATA

Annexure B

पावरग्रिड POWERGRID

PGCIL AMR System

PGCIL | Home | AMR DashBoard | Reports | SEM Data View | AMR Master Data | Update CT/ PT

Meter Serial No: IEM-0110-A **Feeder Name:** 33 KV SIDE OF 400/220/33KV RAJARAHAT(PG) TERTIA **MF:** 15 **CTR:** 50/1 **PTR:** 33/110 Reset

General
LS
Midnight
Instant Data

From Date: mm/dd/yyyy To Date: mm/dd/yyyy Get Data Apply MF (After Multiplying net value energy unit is kWh)

SNo	Meter Serial No	Instant Time	Power(Watt)
3505	IEM-0110-A	2025-06-04 09:42:49.0	-6.1
3504	IEM-0110-A	2025-06-04 09:41:43.0	-6.1
3503	IEM-0110-A	2025-06-04 09:40:45.0	-6
3502	IEM-0110-A	2025-06-04 09:39:39.0	-6
3501	IEM-0110-A	2025-06-04 09:38:46.0	-5.9
3500	IEM-0110-A	2025-06-04 09:37:40.0	-5.9
3499	IEM-0110-A	2025-06-04 09:36:46.0	-5.9
3498	IEM-0110-A	2025-06-04 09:35:49.0	-5.8
3497	IEM-0110-A	2025-06-04 09:34:42.0	-6
3496	IEM-0110-A	2025-06-04 09:33:49.0	-6
3495	IEM-0110-A	2025-06-04 09:32:43.0	-6.2
3494	IEM-0110-A	2025-06-04 09:31:51.0	-6.2

Annexure B

AMR Network Upgradation: Go-Live event on 18th Jun 2025

Q&A

Thank You….