



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



## Eastern Regional Power Committee

14, गोल्फ क्लब रोड, टॉलीगंज, कोलकाता-700033

Tel. No.: 033-24239651, 24239659 FAX No.: 033-24239652, 24239653 Web: [www.erpc.gov.in](http://www.erpc.gov.in)

सं./NO. पू.क्षे.वि.स./PROTECTION/2022/ 1355

दिनांक /DATE: 05.01.2022

सेवा में / To,

संलग्न सूची के अनुसार / As per list enclosed.

विषय : पू.क्षे.वि.स. की 110 वीं संरक्षण समन्वय उप-समिति (पीसीसी) की बैठक हेतु सूचना।

**Sub: Notice for 110<sup>th</sup> Protection Coordination sub-Committee (PCC) meeting of ERPC.**

यह सूचित किया जाता है कि पू.क्षे.वि.स. की 110वीं पीसीसी बैठक 19 जनवरी 2022 (बुधवार) को 10:30 बजे से ऑनलाइन माइक्रोसॉफ्ट टीम्स मीटिंग प्लेटफॉर्म के माध्यम से आयोजित की जाएगी। मीटिंग लिंक ई-मेल या संदेश के माध्यम से अग्रेषित किया जाएगा।

Notice is hereby given that 110<sup>th</sup> PCC meeting of ERPC will be held on 19th January, 2022 (Wednesday) from 10:30 hrs through online Microsoft Teams meeting platform. The meeting link will be forwarded through e-mail or message.

चर्चा हेतु अस्थायी कार्यसूची बिन्दुएं निम्नानुसार होंगे :

The tentative agenda items for discussion will be as follows:

- 1) Confirmation of the minutes of 109<sup>th</sup> Protection sub-Committee Meeting of ERPC
- 2) Analysis of following grid disturbances of December, 2021:
  - Total Power failure at 220/132 kV Sonenagar (BSPTCL) S/s on 15.12.2021 at 15:28 Hrs
  - Total Power failure at 220/132 kV Tarkera (OPTCL) S/s on 21.12.2021 at 19:38 Hrs
- 3) Protection Audit Planning for ER Substations by ERPC Protection Audit Team
- 4) Follow up of decision of previous Protection Coordination sub-Committee Meetings.
- 5) Single line tripping incidences of transmission elements for December 2021 as enclosed at Annexure-1

आपसे निवेदन है कि बैठक के दौरान अर्थपूर्ण विश्लेषण हेतु उपरोक्त ट्रिपिंग से संबंधित समस्त दस्तावेज (SLD, SOE, DR, Relay and schematic diagram of auxiliary supply, wherever applicable) सहित विस्तृत रिपोर्ट प्रस्तुत करें। आपसे अनुरोध किया जाता है कि संरक्षण डाटाबेस प्रबंधन प्रणाली में लागू ट्रिपिंग घटना सूचना प्रणाली का विवरण ऑन-लाइन में अपलोड करें [www.erpc-protectiondb.in](http://www.erpc-protectiondb.in).

You are requested to kindly furnish the detail report along with all records (SLD, SOE, DR, Relay and schematic diagram of auxiliary supply, wherever applicable) related to above tripping well in advance for meaningful analysis. You are also requested to upload the details in on-line tripping incident reporting system implemented in Protection Database Management System( [www.erpc-protectiondb.in](http://www.erpc-protectiondb.in).)

बैठक में आपकी उपस्थिति महत्वपूर्ण है।

Your participation in the meeting is highly solicited.

भवदीय / Yours faithfully,

*Rupa*  
05.01.22.

(पी.पी.जेना / P.P.Jena)  
Executive Engineer (PS)  
कार्यपालक अभियंता(पी.एस)

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## LIST OF ADDRESSES:

|                                                                                                                                                                     |                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chief Engineer, Trans (O&M)<br>Bihar State Power Transmission Limited,<br>VidyutBhawan, Bailey Road, Patna-800021                                                   | Electrical Supeeerintending Engineer (CRITL)<br>Bihar State Power Transmission Limited,<br>VidyutBhawan,Bailey Road, Patna-800021                                                                           |
| Chief Engineer( System Operation), SLDC ,<br>BSPTCL, Patna-800021                                                                                                   |                                                                                                                                                                                                             |
| Chief Engineer (SLDC)<br>Damodar Valley Corporation, GOMD-I Premises,<br>P.O.- DaneshSeikh Lane, Howrah- 711109                                                     | Chief Engineer (CTC)<br>Damodar Valley Corporation, P.O. Maithon Dam, Dist.<br>Dhanbad,Jharkhand-828207                                                                                                     |
| Chief Engineer, (CRITL)<br>Jharkhand UrjaSancharan Nigam Limited<br>Kusai Colony, Doranda, Ranchi-834002                                                            | Electrical Superintending Engineer (CLD)<br>Jharkhand UrjaSancharan Nigam Limited,<br>KusaiColony,Doranda, Ranchi-834002                                                                                    |
| Chief General Manager (O&M),<br>OPTCL, Janpath, Bhubaneswar,<br>Odisha – 751 022. FAX: 0674-2542932<br><a href="mailto:cgm.onm@optcl.co.in">cgm.onm@optcl.co.in</a> | Sr. General Manager (PPA), Technical Wing,<br>OHPCL, Orissa State Police Housing & Welfare Corpn.<br>Bldg. VaniviharChowk, Janpath, Bhubaneswar-752022                                                      |
| Chief Load Dispatcher, SLDC<br>OPTCL, P.O. Mancheswar Rly. Colony<br>Bhubaneswar-751017                                                                             | Chief Engineer (Testing), WBSETCL<br>Central Testing Laboratory, Abhikshan, Salt Lake,<br>Kolkata-700091 ( Fax no. 2367-3578/1235 )                                                                         |
| Chief Engineer (CLD)<br>WBSETCL, P.O.Danesh Sheikh Lane,<br>AndulRoad, Howrah-711109                                                                                | Addl. Chief Engineer (ALDC)<br>West Bengal Electricity Distribution Company Ltd<br>VidyutBhavan, 7 <sup>th</sup> Floor, Bidhannagar, Sector-I<br>Salt Lake City, Kolkata-700091(Fax-033-2334-5862)          |
| Dy. Chief Engineer (Testing)/ Sr. Manager (Testing)<br>CESC Ltd.,4, SasiSekhar Bose Road,<br>Kolkata-700025                                                         | General Manager (O&M)<br>KhSTPS, NTPC Ltd., P.O.Deepti Nagar,<br>Dist. Bhagalpur, Bihar-813203                                                                                                              |
| General Manager(O&M)<br>FSTPS, NTPC Ltd., P.O. Nabarun,<br>Dist. Murshidabad, West Bengal-742236                                                                    | Dy. General Manager (Engineering),<br>WBPDC, OS Dept. Corporate Office, 3/C, LA Block,<br>Salt Lake-III, Kolkata-700098 (Fax-033-23350516)                                                                  |
| General Manager (O&M)<br>Barh STPS, NTPC Ltd., P.O. NTPC Barh,<br>Dist. Patna, Bihar-803213                                                                         | General Manager (OS), ERHQ-II, NTPC Ltd., 3 <sup>rd</sup> flr.<br>OLIC Building, Plot no. N 17/2, Nayapalli, Unit-8<br>Bhubaneswar- 751012 (Fax No. 0674-2540919)                                           |
| General Manager(O&M), TSTPS, NTPC Ltd.,<br>P.O.Kaniha, Dist. Angul, Orissa-759117                                                                                   | General Manager (AM), POWERGRID, Odisha<br>Projects, Sahid Nagar, Bhubaneswar – 751 007                                                                                                                     |
| General Manager (OS), ERHQ-I, NTPC Ltd.,<br>LoknayaJaiprakashBhawan, (2 <sup>nd</sup> Floor),<br>DakBunglowChawk, Patna-800001                                      | Manager (Electrical), Adhunik Power & Natural<br>Resources Ltd. “Lansdowne Towers, Kolkata-700020<br>(Fax No. 033-2289 0285)                                                                                |
| Executive Director (O&M)<br>NHPC Ltd., NHPC Office Complex, Sector-33,<br>Faridabad, Haryana-121003 (Fax-01292272413)                                               | Electrical Superintending Engineer, TTPS,<br>TenughatVidyut Nigam Ltd., Lalpania, Dist. Bokaro,<br>Jharkhand-829149                                                                                         |
| Dy. General Manager (Electrical)<br>IB Thermal Power Station, OPGCL<br>Banhapalli, Dist. Jharsuguda-768234, Orissa                                                  | General Manager (AM), ER-I<br>Power Grid Corporation of India Ltd.,<br>Alankar Place, Boring Road, Patna-800001                                                                                             |
| Chief Engineer (Trans.)<br>Power Deptt., Govt. of Sikkim, Gangtok-731010                                                                                            | Sr. Manager (CTMC)<br>Durgapur Projects Limited, Durgapur-713201                                                                                                                                            |
| Executive Director,<br>ERLDC, POSOCO, Tollygunge, Kolkata-700033                                                                                                    | The Head<br>Maithon Power Limited, Maithon Office, MA 5 Gogna,<br>Dist. Dhanbad, Jhankand State, PIN-828207                                                                                                 |
| General Manager (AM), ER-II<br>Power Grid Corporation of India Ltd.,<br>J-I-15, Block-EP, Sector-V,Salt Lake,Kolkata-91                                             | Head –Regulatory and contracts, IndiGrid Limited<br>, 247 Embassy, Office No 107, ‘B’ Wing, Hindustan Co.<br>Bus Stop, Gandhi Nagar, L.B.S. Road, Vikhroli West,<br>Mumbai – 400 079. Ph : +91 845509 96408 |
| General Manager (P&O), PTC Ltd.,<br>Kanchanjunga Bldg.,18, Barakhamba Road,<br>New Delhi-110001                                                                     |                                                                                                                                                                                                             |
| Managing Director, Bhutan Power Corporation<br>Post Box no. 580, Thimpu, Bhutan.                                                                                    | Managing Director, Druk Green Power Corprn.<br>P.O. Box-1351, Thimpu, Bhutan.                                                                                                                               |

|                                                                                                                                                                                 |                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Associate Director (Commercial and Regulatory)<br>Darbhanga-Motihari Transmission Company Limited<br>(DMTCL),503, Windsor, Off CST Road, Kalina,<br>Santacruz(E), Mumbai-400098 | The Plant Head, JITPL, Angul, Odisha (FAX:011-<br>26139256-65)                                      |
| Shri D. P. Bhagava, Chief Consultant (O&M),<br>TeestaUrja Limited, New Delhi (FAX:011-<br>46529744)                                                                             | Director (GM Division), Central Electricity Authority<br>Sewa Bhawan, R. K. Puram, New Delhi-110066 |
| Director (NPC), CEA, NRPC Building, Katwaria<br>Sarai, New Delhi- 110016                                                                                                        | President, Dans Energy Pvt. Ltd, 5th Floor, DLF<br>Building No. 8, Tower-C, Gurgaon - 722002        |
| Director, Shiga Energy Pw. Ltd., 5th Floor, DLF<br>Building No. 8, Tower-C, Gurgaon - 722002                                                                                    | DGM (E&I), HALDIA ENERGY LIMITED, BARIK<br>BHAWAN, KOKATA-700072, FAX: 033-22360955                 |
| President , TPTL, Bhikaji Cama Place, New Delhi ,<br>110066                                                                                                                     |                                                                                                     |

## List of important transmission lines in ER which tripped in December-2021

| Sl. No. | LINE NAME                        | TRIP DATE  | TRIP TIME | RESTORATION DATE | RESTORATION TIME | Relay Indication LOCAL END          | Relay Indication REMOTE END        | Reason   | Fault Clearance time in msec | Remarks                                                                             | DR/EL RECEIVED FROM LOCAL END | DR/EL RECEIVED FROM REMOTE END |
|---------|----------------------------------|------------|-----------|------------------|------------------|-------------------------------------|------------------------------------|----------|------------------------------|-------------------------------------------------------------------------------------|-------------------------------|--------------------------------|
| 1       | 400 KV MERAMUNDALI-LAPANGA-2     | 01-12-2021 | 10:55     | 01-12-2021       | 14:13            | Meramundali: R_N, 2.47 kA, 118.6 km |                                    | R-Earth  | 100                          |                                                                                     | YES                           | YES                            |
| 2       | 400 KV TSTPP-RENGALI-2           | 03-12-2021 | 13:15     | 03-12-2021       | 15:19            |                                     | Didn't trip                        | NO FAULT | NA                           |                                                                                     | NO                            | NO                             |
| 3       | 220 KV ROURKELA-TARKERA-1        | 04-12-2021 | 06:48     | 04-12-2021       | 11:35            |                                     | Didn't trip                        | NO FAULT | NA                           |                                                                                     | NO                            | NO                             |
| 4       | 220 KV JAMSHEDPUR (DVC)-JINDAL-1 | 04-12-2021 | 21:28     | 04-12-2021       | 21:54            | Jamshedpur: R_N, 24.2 km, 3 kA      | JSPL: R_N, Zone-2, 124 km, 1.18 kA | R-Earth  | 350                          | Tripped in z-2 time from JSPL seems carrier based protection not operated properly. | NO                            | NO                             |

|    |                                  |            |       |            |       |                                                         |                                        |             |     |                                                                     |     |     |
|----|----------------------------------|------------|-------|------------|-------|---------------------------------------------------------|----------------------------------------|-------------|-----|---------------------------------------------------------------------|-----|-----|
| 5  | 400 KV MALDA-NEW<br>PURNEA-2     | 05-12-2021 | 01:39 | 05-12-2021 | 11:55 | Malda: Y_N, Zone-1,<br>46.91 km, 5.481 kA               | New Purnea:<br>Y_N, 4.4 kA,<br>77.1 km | Y-Earth     | 100 |                                                                     | YES | NO  |
| 6  | 400 KV TSTPP-<br>ROURKELA-1      | 05-12-2021 | 10:25 | 05-12-2021 | 16:30 | TSTPP: Tripped while<br>switching off Rengali-<br>2     | DT received                            | NO<br>FAULT | NA  |                                                                     | YES | NO  |
| 7  | 220 KV JEERAT-<br>RAJARHAT-1     | 05-12-2021 | 17:51 | 06-12-2021 | 11:14 | Jeerat: Y_N, 12.5 km                                    | Rajarhat: Y_N,<br>17.9 km, 7.04 kA     | Y-Earth     | 100 | First Y phase then B<br>phase also .                                | YES | NO  |
| 8  | 400 KV JEERAT-<br>BAKRESWAR-1    | 05-12-2021 | 23:57 | 06-12-2021 | 18:29 | Jeerat: R_N, Zone-1,<br>0.47 km, 23 kA                  | Bakreswar: R_N,<br>Zone-2, 147 km      | R-Earth     | 100 | No a/r OBSERVED<br>REASON MAY BE<br>EXPALINED.                      | YES | YES |
| 9  | 400 KV ALIPURDUAR-<br>BINAGURI-2 | 06-12-2021 | 10:32 | 06-12-2021 | 11:04 |                                                         | Binaguri: B_N,<br>89 km, 4.01 kA       | B-Earth     | 100 | High resistive fault<br>came to z-1 and A/R<br>operated and failed. | NO  | YES |
| 10 | 220 KV DALTONGANJ-<br>CHATRA-1   | 07-12-2021 | 13:00 | 07-12-2021 | 14:58 | Daltonganj: R_N,<br>145.9 km, 1.38 kA,<br>AR successful |                                        | R-Earth     | 100 | A/R successful from<br>daltonganj end only                          | NO  | NO  |
| 11 | 220 KV SITAMARHI-<br>MOTIPUR-1   | 07-12-2021 | 13:45 | 08-12-2021 | 14:30 | Sitamarhi: Y_B, 30.5<br>km, Iy:4.8 kA, Ib: 4.7<br>kA    | Motipur: B_N,<br>8.4 km                | Y-B         | 100 |                                                                     | NO  | YES |

|    |                                   |            |       |            |       |                                     |                                                    |          |     |                       |     |     |
|----|-----------------------------------|------------|-------|------------|-------|-------------------------------------|----------------------------------------------------|----------|-----|-----------------------|-----|-----|
| 12 | 220 KV MUZAFFARPUR-HAZIPUR-2      | 09-12-2021 | 16:14 | 09-12-2021 | 17:14 | Didn't trip                         | Hazipur: B_N, 1.8 kA                               | B-Earth  | 100 | Should not trip       | NO  | NO  |
| 13 | 220 KV MUZAFFARPUR-HAZIPUR-1      | 09-12-2021 | 16:14 | 09-12-2021 | 17:34 | Muzaffarpur: B_N, 4.09 kA, 36.19 km | Hazipur: B_N, 4.436 kA, 13.73 km                   | B-Earth  | 100 |                       | NO  | NO  |
| 14 | 400 KV KISHANGANJ-TEESTA 3-1      | 11-12-2021 | 19:50 | 11-12-2021 | 22:15 | Kishanganj: DT received             | Teesta 3: Tripped during de-synchronization of U#6 | NO FAULT | NA  |                       | NO  | YES |
| 15 | 400 KV BINAGURI-NEW PURNEA-1      | 12-12-2021 | 16:35 | 12-12-2021 | 23:40 | Binaguri: R_N, 15.42 km, 10.54 kA   | New Purnea: R_N, 110.2 km, 3.14 kA                 | R-Earth  | 100 |                       | YES | NO  |
| 16 | 400 KV MUZAFFARPUR-GORAKHPUR-2    | 13-12-2021 | 07:42 | 13-12-2021 | 10:44 | Muzaffarpur: DT received            |                                                    | NO FAULT | NA  |                       | NO  | NO  |
| 17 | 220 KV CHANDIL-SANTALDIH (STPS)-1 | 16-12-2021 | 01:37 | 16-12-2021 | 02:06 | Chandil: Y_N, 4.716 kA, 27.27 km    | Santaldih: Y_N, 2.02 kA, 79 km                     | Y-Earth  | 100 | No A/R plcc UNHEALTHY | YES | NO  |
| 18 | 220 KV CHANDIL-SANTALDIH (STPS)-1 | 20-12-2021 | 13:02 | 20-12-2021 | 13:22 | Chandil: R_N, Zone-1                | Santaldih: R_N, Zone-1, 34.18 km, 0.344 kA         | R-Earth  | 100 | No A/R plcc UNHEALTHY | YES | YES |
| 19 | 765 KV ANGUL-SRIKAKULAM-1         | 22-12-2021 | 05:04 | 22-12-2021 | 20:03 | Angul: Y_B, Iy: 14 kA, Ib: 13 kA    |                                                    | Y_B      | 100 |                       | NO  | NO  |

[illegible]