



सत्यमेव जयते



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  
14 Golf Club Road, Tollygunj, Kolkata-700033

सं./NO. पू.क्षे.वि.स./PROTECTION/2024/ 1212

दिनांक /DATE:18.10.2024

सेवा में / To,

संलग्न सूची के अनुसार / As per list enclosed.

विषय : पू.क्षे.वि.स. की 140 वीं संरक्षण समन्वय उप-समिति (पीसीसी) की बैठक हेतु सूचना।

**Sub: Notice for 140<sup>th</sup> Protection Coordination sub-Committee (PCC) meeting of ERPC.**

Sir/Madam,

यह सूचित किया जाता है कि पू.क्षे.वि.स की 140 वीं पीसीसी बैठक, 24 अक्टूबर 2024 (गुरुवार) को 10:30 बजे पूर्वाह्न से एम एस टीम्स (ऑनलाइन) के द्वारा वर्चुअल माध्यम से आयोजित की जाएगी। मीटिंग लिंक ई-मेल या संदेश के माध्यम से अग्रेषित किया जाएगा। Notice is hereby given that 140<sup>th</sup> PCC meeting of ERPC will be held on 24<sup>th</sup> October 2024 (Thursday) from 10:30 Hrs (Forenoon) through MS Teams(online) in virtual mode. 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 139<sup>th</sup> Protection sub-Committee Meeting of ERPC
- 2) Tripping of 400 k V Bus 2 at 400/220 k V Rourkela (PG) S/s on 05.09.2024 at 15:45 Hrs
- 3) Follow up of decision of previous Protection Coordination sub-Committee Meetings.
- 4) Single line tripping incidences of transmission elements for Sep 2024 as attached 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,

*for Kumar Satyam*  
18/10/2024  
(आई. के. मेहरा / I. K. Mehra)  
अधीक्षण अभियंता (पी.एस)  
Superintending Engineer (PS)

**LIST OF ADDRESSES:**

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

New Delhi-110001	
Managing Director, Bhutan Power Corporation Post Box no. 580, Thimpu, Bhutan.	Managing Director, Druk Green Power Corprn. P.O. Box-1351, Thimpu, Bhutan.
Associate Director ( Commercial and Regulatory) Darbhanga-Motihari Transmission Company Limited (DMTCL),503,Windsor, Off CST Road, Kalina, Santacruz(E), Mumbai-400098	The Plant Head, JITPL. (FAX:011-26139256-65)
General Manager, Sikkim Urja Limited, New Delhi (FAX:011-46529744)	President , TPTEL, Bhikaji Cama Place, New Delhi , 110066
Director (NPC), CEA, NRPC Building, KatwariaSarai, New Delhi- 110016	President, Dans Energy Pvt. Ltd, 5th Floor, DLF Building No. 8, Tower-C, Gurgaon - 722002
Director, Shiga Energy Pw. Ltd., 5th Floor, DLF Building No. 8, Tower-C, Gurgaon - 722002	DGM (E&I), HALDIA ENERGY LIMITED, BARIK BHAWAN, KOKATA-700072, FAX: 033-22360955
The Plant Head, Dikchu HEP, Sikkim	

मुख्य अभियंता, ट्रांस (ओ एंड एम), बिहार स्टेट पावर ट्रांसमिशन लिमिटेड, विद्युत भवन, बेली रोड, पटना-800021	मुख्य अभियंता (सीआरआईटीएल), बिहार स्टेट पावर ट्रांसमिशन लिमिटेड, विद्युत भवन, बेली, रोड, पटना-800021
मुख्य अभियंता (सिस्टम ऑपरेशन), एसएलडीसी, बीएसपीटीसीएल, पटना-800021	
मुख्य अभियंता (एसएलडीसी), दामोदर वैली कॉर्पोरेशन, जीओएमडी-1 परिसर, पी.ओ.- दानेशशेख लेन, हावड़ा- 711109	मुख्य अभियंता (सीटीसी), दामोदर घाटी निगम, पी.ओ. मैथन बांध, जिला। धनबाद, झारखण्ड-828207
मुख्य अभियंता (सीआरआईटीएल), झारखण्ड ऊर्जा संचरण निगम लिमिटेड कुसाई कॉलोनी, डोरंडा, रांची-834002	मुख्य अभियंता (सीएलडी), झारखंड ऊर्जा संचरण निगम लिमिटेड, कुसाई कॉलोनी, डोरंडा, रांची-834002
मुख्य महाप्रबंधक (ओ एंड एम), ओपीटीसीएल, जनपथ, भुवनेश्वर, ओडिशा – 751 022. फैक्स: 0674-2542932 cgm.onm@optcl.co.in	वरिष्ठ महाप्रबंधक (पीपीए), तकनीकी विंग, ओएचपीसीएल, उड़ीसा राज्य पुलिस आवास एवं कल्याण निगम बिल्डिंग वाणीविहार चौक, जनपथ, भुवनेश्वर-752022
मुख्य लोड डिस्पैचर, एसएलडीसी ओपीटीसीएल, पी.ओ. मंचेश्वर रेलवे कॉलोनी भुवनेश्वर-751017	मुख्य अभियंता (परीक्षण), डब्ल्यूबीएसईटीसीएल केंद्रीय परीक्षण प्रयोगशाला, अभिक्षण, साल्ट लेक, कोलकाता-700091 (फैक्स नंबर 2367-3578/1235)
मुख्य अभियंता (सीएलडी), डब्ल्यूबीएसईटीसीएल, पी.ओ. दानेश शेख लेन, अंदुलरोड, हावड़ा-711109	अतिरिक्त मुख्य अभियंता (एएलडीसी), पश्चिम बंगाल विद्युत वितरण कंपनी लिमिटेड विद्युत भवन, 7वीं मंजिल, बिधाननगर, सेक्टर-1 साल्ट लेक सिटी, कोलकाता-700091 (फैक्स-033-2334-5862)
उप मुख्य अभियंता (परीक्षण)/वरिष्ठ प्रबंधक (परीक्षण) सीईएससी लिमिटेड, 4, शशि शेखर बोस रोड, कोलकाता-700025	महाप्रबंधक (ओ एंड एम), खएसटीपीएस, एनटीपीसी लिमिटेड, पी.ओ. दीप्ति नगर, जिला भागलपुर, बिहार-813203
महाप्रबंधक (ओ एंड एम) एफएसटीपीएस, एनटीपीसी लिमिटेड, पी.ओ. नबारून, जिला- मुर्शिदाबाद, पश्चिम बंगाल-742236	उप. महाप्रबंधक (इंजीनियरिंग), डब्ल्यूबीपीडीसीएल, ओएस विभाग कॉर्पोरेट कार्यालय, 3/सी, एलए ब्लॉक, साल्ट लेक-III, कोलकाता-700098 (फैक्स-033-23350516)
महाप्रबंधक (ओ एंड एम), बाढ़ एसटीपीएस, एनटीपीसी लिमिटेड, पी.ओ. एनटीपीसी बाढ़, जिला- पटना, बिहार-803213	महाप्रबंधक (ओएस), ईआरएचक्यू-II, एनटीपीसी लिमिटेड, 3 <sup>rd</sup> Floor, ओएलआईसी बिल्डिंग, प्लॉट नं. एन 17/2, नयापल्ली, यूनिट-8 भुवनेश्वर- 751012 (फैक्स नंबर 0674-2540919)
महाप्रबंधक (ओ एंड एम), टीएसटीपीएस, एनटीपीसी लिमिटेड, पी.ओ.कनिहा, जिला- अंगुल, उड़ीसा- 759117	महाप्रबंधक (एएम), पावरग्रिड, ओडिशा प्रोजेक्ट्स, साहिद नगर, भुवनेश्वर - 751 007
महाप्रबंधक (ओएस), ईआरएचक्यू-I, एनटीपीसी लिमिटेड, लोकनायक जयप्रकाश भवन, (दूसरी मंजिल), डाकबंगलाचौक, पटना-800001	प्रबंधक (इलेक्ट्रिकल), आधुनिक पावर एंड नेचुरल रिसोर्सेज लिमिटेड, लैंसडाउन टावर्स, कोलकाता-700020 (फैक्स नंबर 033-2289 0285)

कार्यकारी निदेशक (ओ एंड एम), एनएचपीसी लिमिटेड, एनएचपीसी कार्यालय परिसर, सेक्टर-33, फरीदाबाद, हरियाणा-121003 (फैक्स- 01292272413)	विद्युत अधीक्षण अभियंता, टीटीपीएस, तेनुघाट विद्युत निगम लिमिटेड, ललपनिया, जिला। बोकारो, झारखण्ड-829149
उप महाप्रबंधक (विद्युत), आईबी थर्मल पावर स्टेशन, ओपीजीसीएल बनहापल्ली, जिला। झारसुगुड़ा-768234, उड़ीसा	महाप्रबंधक (एएम), ईआर-I पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड, अलंकार प्लेस, बोरिंग रोड, पटना- 800001
मुख्य अभियंता (ट्रांस.), विद्युत विभाग, सरकार। सिक्किम, गंगटोक-731010	वरिष्ठ प्रबंधक (सीटीएमसी), दुर्गापुर प्रोजेक्ट्स लिमिटेड, दुर्गापुर-713201
कार्यकारी निदेशक, ईआरएलडीसी, पोसोको, टॉलीगंज, कोलकाता-700033	प्रमुख-नियामक और अनुबंध, इंडीग्रिड लिमिटेड, 247 दूतावास, कार्यालय संख्या 107, 'बी' विंग, हिंदुस्तान कंपनी बस स्टॉप, गांधी नगर, एल.बी.एस. रोड, विक्रोली, पश्चिम, मुंबई - 400 079 फोन: +91 845509 96408
महाप्रबंधक (एएम), ईआर-II इंडिया लिमिटेड का पावर ग्रिड कॉर्पोरेशन।, जे-आई-15, ब्लॉक-ईपी, सेक्टर-वी, साल्ट लेक, कोलकाता- 91	प्लांट हेड, मैथन पावर लिमिटेड, मैथन कार्यालय, एमए 5 गोगना, जिला। धनबाद, झारखंड राज्य, पिन-828207
महाप्रबंधक (पी एंड ओ), पीटीसी लिमिटेड, कंचनजंगा बिल्डिंग, 18, बाराखंभा रोड, नई दिल्ली-110001	
प्रबंध निदेशक, भूटान पावर कॉर्पोरेशन पोस्ट बॉक्स नं. 580, थिम्पू, भूटान।	प्रबंध निदेशक, डुक ग्रीन पावर कॉर्पोरेशन। पी.ओ. बॉक्स-1351, थिम्पू, भूटान।
सह निदेशक (वाणिज्यिक एवं नियामक), दरभंगा- मोतिहारी ट्रांसमिशन कंपनी लिमिटेड (डीएमटीसीएल), 503, विंडसर, ऑफ सीएसटी रोड, कलिना, सांताक्रूज़ (पूर्व), मुंबई- 400098	प्लांट हेड, जेआईटीपीएल। (फैक्स:011-26139256-65)
महाप्रबंधक, सिक्किम ऊर्जा लिमिटेड, नई दिल्ली (फैक्स:011-46529744)	अध्यक्ष, टीपीटीएल, भीकाजी कामा प्लेस, नई दिल्ली- 110066
निदेशक (एनपीसी), सीईए, एनआरपीसी बिल्डिंग, कटवारियासराय, नई दिल्ली- 110016	अध्यक्ष, डान्स एनर्जी प्रा. लिमिटेड, 5वीं मंजिल, डीएलएफ बिल्डिंग नंबर 8, टावर-सी, गुडगांव - 722002
निदेशक, शिगा एनर्जी पी.डब्ल्यू. लिमिटेड, 5वीं मंजिल, डीएलएफ बिल्डिंग नंबर 8, टावर-सी, गुडगांव - 722002	डीजीएम (ई एंड आई), हल्दिया एनर्जी लिमिटेड, बारीक भवन, कोकाता-700072, फैक्स: 033-22360955
प्लांट हेड, डिक्यु एचईपी, सिक्किम ।	

## List of important transmission lines in ER which tripped in September-2024

Sl. No.	LINE NAME	TRIP DATE	TRIP TIME	RESTORATION DATE	RESTORATION TIME	Relay Indication LOCAL END	Relay Indication REMOTE END	Reason Earth	Fault Clearance time in msec	Remarks	DR Configuration Discrepancy END-1	DR Configuration Discrepancy END-2	D/RECEIVED FROM LOCAL END	D/RECEIVED FROM REMOTE END	LOCAL END UTILITY	REMOTE END UTILITY
1	400KV-JEERAT-SAGARDIGHI-1	01-09-2024	22:44	01-09-2024	23:35	Jeerat : Didn't trip	Sagardighi: DT received	No fault	NA	DT received at Sagardighi. No fault observed from PMU.			NO	NO	WBSETCL	WBPDC L
2	400KV-BINAGURI-TALA-4	02-09-2024	11:07	02-09-2024	12:01	Binaguri: B_N, 2.7 kA	Tala: B_N, 2.28 kA, 69.8 Km	B-Earth	100	Three phase tripping in single phase B_N fault due to DT received at Binaguri.			YES	NO	POWERGRID	BHUTAN
3	400KV-NEW JEERAT-SUBHASGRAM(PG)-2	02-09-2024	16:02	03-09-2024	10:53	New Jeerat: B_N, 3.92 kA	Subhasgram: B_N, 19.32 KA, 1.3 Km	B-Earth	100	A/r failed from both end after 1 second due to persistent fault.			YES	YES	PMJTL	POWER GRID
4	220KV-PATNA-KHAGAUL-1	03-09-2024	00:37	03-09-2024	01:08	Patna: B_N, 11 kA, A/R successful	Khagaul: B-N, 5 kA, 16 km	B-Earth	100	A/r successful from Patna only. Other two phase at Khagaul tripped after 250 msec. BSPTCL may explain.			YES	YES	POWERGRID	BSPTCL

5	220KV-DARBHANGA(DMTCL)-LAUKAHI-2	03-09-2024	09:57	03-09-2024	18:00	Darbhanga: Y_B, Iy-9.33 kA, Ib-9.234 kA, 14 Km Laukahi: Y_B, Iy=Ib=2.1 kA	Y-B	100	Phase to phase fault.	DR length less	DR not time synchronized and DR length is also less.	YES	YES	DMTCL	BSPTCL
6	220KV-CHANDAUTI (PMTL)-SONENAGAR-2	03-09-2024	12:57	03-09-2024	14:17	Chandauti: B_N, 1.92 kA, 31 Km Sonenagar: B_N, 47.45 Km, 1.54 kA	B-Earth	950	Resistive fault. Tripped after fault current gradually increased and sensed by distance relay. A/R attempted from both ends, but failed due to permanent fault. A/r dead time at Sonenagar is set at 800 msec while at Chandauti it is 1 second.		DR not time synchronized.	YES	YES	PMTL	BSPTCL
7	400KV-PATNA-NAUBATPUR(BH)-2	03-09-2024	16:49	03-09-2024	17:32	Patna: DT received	Earth fault	NA	DT received at Patna end. No fault observed from PMU. BSPTCL may explain.			YES	NO	POWERGRID	BGCL
8	400KV-MERAMUNDALI-LAPANGA-2	04-09-2024	14:02	04-09-2024	17:04	Meeramundali: Y-N, Iy-5.6 kA, 41 km (A/R Unsuccessful) Lapnaga: R-Y, Ir-1.3 kA, Iy-3.1 kA, 130 km	R_Y	80	A/R attempted from both end, but failed due to persistent fault.			YES	YES	OPTCL	OPTCL

9	220KV-MAITHON-DHANBAD-1	05-09-2024	11:09	07-09-2024	18:21	Maithon:B-N, 4.3 kA, 39.13 km	Dhanbad: B-N, 9.17 kA, 4.7 km	B-Earth	100	Three phase tripping from Maithon. A/r failed from Dhanbad due to persistent fault.	DR not time synchronized.	YES	YES	POWERGRID	DVC
10	765KV-ANGUL-JHARSUGUDA-2	05-09-2024	12:04	05-09-2024	13:14	Angul : B_N, 6.197 kA, 65.024 Km	Jharsuguda: B_N, 4.278 kA, 222 Km	B-Earth	100	A/R successful from both ends, line again tripped in reclaim time due to persistent fault.		YES	YES	POWERGRID	POWERGRID
11	400KV-ANGUL-JITPL-1	05-09-2024	13:00	05-09-2024	13:55	Angul: B-N, 11.22 kA, 17km	JITPL: B-N, 3.1KA, 57 km	B-Earth	100	Line tripped in single phase fault, A/R of line kept off for S/D work.		YES	NO	POWERGRID	JITPL
12	220KV-ROURKELA-TARKERA-2	05-09-2024	15:45	05-09-2024	19:34	Rourkela: Did not trip	Tarkera:R_Y_B, 27.2km, B-Ph, Out of step protection operate	Eartho fault	NA	No fault in line. Line tripped on Out of Step protection during fault in 400 kV Rourkela Bus		NA	NO	POWERGRID	OPTCL
13	220KV-ROURKELA-TARKERA-1	05-09-2024	15:45	05-09-2024	17:17	Rourkela: Did not trip	Tarkera:R-Y-B, Ir- 3.43 kA, Iy- 3.6 kA, Ib-3.53 kA, Out of step protection	Eartho fault	NA	No fault in line. Line tripped on Out of Step protection during fault in 400 kV Rourkela Bus		NA	NO	POWERGRID	OPTCL



14	400KV-TSTPP-ROURKELA-2	05-09-2024	15:45	05-09-2024	18:14	Roukella: Busbar operated	TSTPP: DT Received, DP Operated	R-Y-B	350	At Rourkela, bus bar protection operated while isolator of main bay of TSTPP-2 got closed during some testing, later LBB also operated as fault was being fed from remote end and through ie bay. DT received at		No	Yes	NTPC	POWER GRID
15	220KV-RANCHI-MTPS(DVC)-1	05-09-2024	16:30	05-09-2024	17:14	Ranchi: R_N, 0.89 KA, 86.1 Km	MTPS: R_N, 1.936 kA, 87.04 Km	R-Earth	100	A/R successful from Ranchi end only. A/r kept disabled at Mejia		YES	NO	POWERGRID	DVC
16	220KV-PUSAULI-NADHOKAR-2	05-09-2024	18:40	05-09-2024	19:34	Pusauli: R_N, 0.9 kA, 107.8 km	Nadokhar: Not Tripped	No fault	NA	There was a fault in adjacent line 220 kV Nadokhar-Dehri, which was idle charged from Nadokhar end, however its distance protection operated with a delay in Zone-2/Zone-3 but line didn't trip. Fault persisted for around 1.1 seconds. The faulty line tripped on DEF. For Pusauli-Nadokhar D/c line tripped in Zone-3		NO	NO	BSPTCL	BSPTCL
17	220KV-PUSAULI-NADHOKAR-1	05-09-2024	18:40	05-09-2024	19:17	Pusauli: R_N, 1.5 kA	Nadokhar: Not Tripped	No fault	NA			NO	NO	BSPTCL	BSPTCL
18	400KV-PATNA-BARH-1	06-09-2024	06:34	06-09-2024	08:09	Patna: Y_N, Iy- 5.474 kA, 89.66 Km	Barh: Y_N, Iy- 31.85 kA, 2.2 Km	Y_Earth	100	A/R successful form Patna end, but from Barh end A/R not attempted and other two phase tripped after 2.8 second in PD.		YES	YES	POWERGRID	NTPC

19	400KV-BINAGURI-TALA-4	06-09-2024	10:39	07-09-2024	17:11	Binaguri: Y-B, Iy-3.106 kA, IB-2.89 kA, 132.9 km (Carrier not received).	-	Y_B	500	Tripped in phase to phase fault with Z-2 time delay of 500 msec from Binaguri end as carrier not received from Tala.		YES	NO	POWERGRID	BHUTAN
20	220KV-NEW PURNEA-MADHEPURA-2	06-09-2024	16:17	06-09-2024	20:19	New Purnea: Didn't trip	Madhepura: R_N, Zone-4	No fault	NA	DR not uploaded. It seems line tripped from Madhepura end during fault in adjacent line. BSPTCL may explain.	DR is not Time Synchronized & DR length needs to be increased	NO	YES	POWERGRID	BSPTCL
21	220KV-NEW PURNEA-MADHEPURA-1	06-09-2024	16:17	09-09-2024	18:15	New Purnea: Y-B fault, Z-2, 77 km, 3.03 kA (1.5 sec before tripping A/R successful with R/I: R	-	Y_B	600	Phase to phase fault. Tripped in Zone-2 time from New Purnea. PG ER-1/BSPTCL may explain.	DR is not Time Synchronized & DR length needs to be increased	NO	YES	POWERGRID	BSPTCL
22	220KV-RENGALI(PH)-TSTPP-1	07-09-2024	13:47	07-09-2024	15:59	-	TSTPP: B-N, 6.43 kA, 20.21 km	B-Earth	500	Tripped in Zone-2 from TSTPP. OHPC/NTPC may explain.		NO	NO	OHPC	NTPC
23	220KV-RANCHI-MTPS(DVC)-1	07-09-2024	15:47	07-09-2024	16:35	Ranchi: R-N, 3.99 kA, 38 km	MTPS: R-N, 1.09 kA, 168.36 km	R-Earth	100	A/R successful from Ranchi end only. A/r kept disabled at Mejia		YES	NO	POWERGRID	DVC

24	220KV-BUDHIPADAR-RAIGARH-1	07-09-2024	18:10	07-09-2024	19:20	Budhipadar : R_N, 3.228 kA, 54.95 Km	-	R-Earth	500	Distance protection operated at Budhipadar, however R_ph didn't open. Later SOTF operated after 500 msec. Why LBB didn't operate. OPTCL may explain.		YES	NO	OPTCL	WESTERN REGION
25	220KV-DARBHANGA(DMTCL)-LAUKAHI-1	08-09-2024	02:51	08-09-2024	19:01	Darbhang (DMTCL): Y-B, Iy-7.42 KA, Ib - 7.27 KA, 22 km	Laukahi : Y-B, Iy-2.031 KA, Ib- 2.195 KA, 62.86 Km	Y_B	100	Phase to phase fault.	DR is not Time Synchronized	NO	YES	BSPTCL	BSPTCL
26	400KV-JEERAT-SAGARDIGHI-2	08-09-2024	11:18	08-09-2024	16:24	Jeerat: R-Y, IR - 29.9 kA, IY=21.4 kA, 1.9 Km	Sagardighi : R-Y, IR - 2.86 kA, IY-1.43 kA, 201.4 Km	R_Y	500	Tripped in Zone-2 from Sagardighi. WBPDC/WBSETCL may explain.	DR channels not configured properly at Sagardighi	YES	YES	WBSETCL	WBPDC
27	400KV-JEERAT-NEW CHANDITALA-1	09-09-2024	10:08	09-09-2024	10:22	Jeerat: R_N, 7.145 kA, 35.21 km	New Chanditala: R_N, 6.159 kA, 43.53 km	R-Earth	100	A/r failed from both ends after 1 second due to persistent fault.		YES	YES	WBSETCL	WBSETCL
28	400KV-RANCHI-SIPAT-2	10-09-2024	03:57	10-09-2024	06:30	Ranchi :B-N, IB= 1.01 KA, 370.7 km	-	B-Earth	100	A/r successful at Ranchi only, however after 2 seconds during A/r of B_ph of tie bay, other two phase tripped. As reported, later DT received at Ranchi after 4 seconds. PG E-1 may explain.		YES	NO	POWERGRID	WESTERN REGION

29	400KV-ALIPURDUAR (PG)-PUNASANGCHUN-2	11-09-2024	14:31	11-09-2024	15:22	Alipurdaur: R_N, 4.73 KA, 76.2 km	-	R-Earth	100	A/r failed from Punatsangchun after 1 second. At Alipurdaur, three phase tripped during first fault instance due to DT receipt from remote end.			YES	NO	POWERGRID	BHUTAN
30	220KV-KHAGARIA-NEW PURNEA-1	12-09-2024	07:38	12-09-2024	08:19	New Purnea: Y-B, Iy-5.37 kA, Ib-5.31 kA, 35.4 km	-	Y_B	100	Phase to phase fault.			YES	YES	BSPTCL	POWER GRID
31	220KV-SITAMARHI-MOTIPUR-2	12-09-2024	09:58	12-09-2024	12:09	Sitamari: B_N, 4.01 kA, 32 km	-	B_Earth	100	A/R successful from both ends, line tripped again within reclaim time		DR length should increased to 2.5-3 sec	YES	YES	PMTL	BSPTCL
32	400KV-ALIPURDUAR (PG)-BINAGURI-4	13-09-2024	10:50	13-09-2024	15:13	Alipurdaur: B_N, 1.43 KA, 45 Km	Binaguri: B_N, 110.2 Km, 5.7 KA	B_Earth	320	Evolving resistive fault. A/R unsuccessful from both ends. Only faulty phase tripped during failed A/r attempt at Alipurdaur. Other two phase tripped later on PD. At Binaguri, R_ph tie CB digital status is			YES	YES	POWERGRID	POWER GRID
33	220KV-NEW PURNEA-MADHEPURA-2	13-09-2024	11:42	13-09-2024	12:40	New Purnea-B_N, 2.16 KA, 65.1 km	Madhepura-B_N, 1.3 KA, 46 Km	B_Earth	100	A/R successful after 1 second. Tripped again within reclaim time	DR length should increased to 2.5-3 sec	DR not time synchronized. DR length should increased to 2.5-3 sec	YES	YES	POWERGRID	BSPTCL

34	400KV-ALIPURDUAR (PG)-PUNASANGCHUN-2	13-09-2024	12:30	13-09-2024	13:03	ALipurdaur end: DT received	Punasa ngehun: B_N, 0.76kA, 153 km.	B_Earth	1200	Resistive fault. DEF picked at Alipurdaur. After 1.2 seconds DT received from Bhutan and line tripped.			YES	NO	POWERGRID	BHUTAN
35	220KV-NEW PURNEA-MADHEPURA-1	13-09-2024	12:40	13-09-2024	13:22	-	Tripped from Madhepura end only	No fault	NA	No fault in line. BSPTCL may explain.			NA	NO	POWERGRID	BSPTCL
36	400KV-ARAMBAGH-NEW CHANDITALA-1	13-09-2024	14:46	13-09-2024	15:17	Arambagh: R-N	New Chanditala : R-N, 9.42 kA, 20.28 km	R-Earth	100	Three phase tripping for single phase fault. A/r kept in non-auto mode for OPGW stringing	DR not time synchronized.		YES	YES	WBSETCL	WBSETCL
37	400KV-MEDINIPUR-NEW CHANDITALA-1	13-09-2024	14:53	13-09-2024	21:00	Medinipur-B-N, 2.66 kA, 82 km	New Chanditala: B_N, 12.3 kA	B-Earth	100	A/R attempted from both end, but failed due to persistent fault.			YES	YES	PMJTTL	WBSETCL
38	400KV-MEDINIPUR-KHARAGPUR-2	13-09-2024	22:15	15-09-2024	01:26	Medinipur: Y_N, 38.4 Km, 6.626 kA	Kharagpur :Y_N, 74.12 Km, 4.118 KA	Y_Earth	100	A/R attempted from both end, but failed due to persistent fault.	DR not time synchronized.		YES	YES	PMJTTL	WBSETCL

39	400KV-TENUGHAT-PVUNL-1	14-09-2024	02:38	14-09-2024	19:43	-	DT received	No Fault	NA	No fault observed from PMU. TVNL/PVUNL may explain.			NO	NO	TVNL	NTPC
40	220KV-RANCHI-MTPS(DVC)-1	14-09-2024	04:39	14-09-2024	05:51	Ranchi : R_N, 1.08 kA, 170.135 Km	Mejia: R_N, Ir-2.47 kA, 68.79 Km	R_Earth	100	A/R successful from Ranchi end. A.r kept disabled at Mejia			YES	NO	POWERGRID	DVC
41	400KV-ARAMBAGH-NEW CHANDITALA-1	14-09-2024	08:55	14-09-2024	09:25	Arambagh: R_N, 34.36 Km	New Chanditala: R_N, 22 Km	R_Earth	100	Three phase tripping for single phase fault. A/r kept in non-auto mode for OPGW stringing	DR not time synchronized.		YES	YES	WBSETCL	WBSETCL
42	400KV-KOLAGHAT-NEW CHANDITALA-1	14-09-2024	08:58	14-09-2024	09:27	Kolaghat: Y_N, 6.421 KA 42.49 Km	New Chanditala: Y_N, 9.93 KA, 22.77 Km	Y_Earth	100	A/R successful from both end, Line tripped again within reclaim time.			YES	YES	WBSETCL	WBSETCL
43	400KV-KOLAGHAT-NEW CHANDITALA-1	14-09-2024	10:23	14-09-2024	16:09	-	New Chanditala: Y_N, 8.44 kA, 22.91 km	Y_Earth	100	A/R attempted from both end, but failed due to persistent fault.			NO	YES	WBSETCL	WBSETCL

44	400KV-JHARSUGUDA-RAIGARH-1	14-09-2024	17:29	15-09-2024	03:08	Jharsuguda : R-N, Ir-3.44 kA, 100.3 Km	Raigarh : R_N, 1.8 kA, 31.488 km	R_Earth	100	A/R attempted from both ends, but failed due to persistent fault.			YES	NA	POWERGRID	WESTERN REGION
45	400KV-TENUGHAT-PATRATU-1	15-09-2024	00:14	16-09-2024	19:13	Tenughat: Tripped due Over Voltage		No Fault	NA	TVNL may share the O/v settings and system voltage at the time of tripping			NO	NO	TVNL	NTPC
46	220KV-KHAGARIA-NEW PURNEA-1	15-09-2024	12:28	15-09-2024	13:35	Khagaria: Y_B, Ib- 5.1 kA, 12.35 km	New Purnea: Y-B, Iy- 3.3 kA, IB-3.3 kA, 84 km	Y-B-Earth	NA	Phase to phase fault. Tripped in Zone-2 time from New Purnea as carrier not received. PG ER-2/BSPTCL may explain.	DR length should increased to 2.5-3 sec		YES	YES	BSPTCL	POWER GRID
47	220KV-BIRPARA-MALBASE-1	16-09-2024	09:14	16-09-2024	09:59	Birpadar: Didn't trip	Malbase: O/c protection operated	No Fault	NA	No fault in line. As reported, line tripped from Malbase on O/c.			NO	NO	POWERGRID	BHUTAN
48	765KV-JHARSUGUDA-RAIPUR PS (DURG)-1	16-09-2024	17:31	18-09-2024	23:44	Jharsuguda : R_N, 8.73 kA, 78.58 Km.	Raipur: R_N, 207.19 km, 3.849 kA	R_Earth	100	A/R attempted from both end, but failed due to persistent fault.			YES	NA	POWERGRID	WESTERN REGION

49	220KV-ARRAH (PG)-NAUBATPUR(BH)-1	17-09-2024	03:50	17-09-2024	05:43	Arrah: DT received	Naubatpur: 220 kV Bus-1 tripped due to LBB operation	No Fault	NA	No fault in line. DT received at Arrah due to LBB operated at Naubatpur end. BGCL may explain.			YES	NO	POWERGRID	BGCL
50	220KV-PUSAULI-NADHOKAR-2	17-09-2024	11:10	28-09-2024	19:55	-	Nadokhar: R_Y_B, Ir: 2.5 kA, Iy: 15.9 kA, Ib: 8.82 kA	R-Y-B-Earth	100	Three phase fault.		DR length needs to be increased	YES	YES	BSPTCL	BSPTCL
51	220KV-BINAGURI-NJP-2	17-09-2024	15:59	17-09-2024	16:36	Binaguri: Intertrip signal received.	NJP: Didn't trip	No Fault	NA	Line tripped from Binaguri only. At the same time, LA of 132/33 ICT-3 kV failed at NJP. PG ER-2/WBSETCL may explain.			NO	NO	PG ER-2	WBSETCL
52	220KV-JODA-RAMCHANDRAPUR-1	17-09-2024	21:37	17-09-2024	22:06	Joda:B-N, 1.35 KA, 117.1 km	Ramchandrapur :-B-N, Ib=9.66 KA, 10.2 Km	B_Earth	400	Tripped in Zone-2 time from Joda. No A/r attempt at Ramchandrapur.	DR is not Time Synchronized & DR length needs to be	DR not time synchronized.	YES	YES	OPTCL	JUSNL
53	220KV-NEW MELLI-TASHIDING-1	18-09-2024	11:21	18-09-2024	15:36	New Melli - R_N , 24.94 KM ,6.3 kA	-	R_Earth	100	DT received at New Melli and all three phase tripped.			YES	NO	POWERGRID	DANS POWER



54	220KV-RAXAUL-SITAMARHI-2	18-09-2024	12:56	18-09-2024	18:53	Raxaul : Y_B, Iy-2.76 KA, Ib-2.88 KA, 41.7 km	Sitamarhi: Y_B, Ib-6.007 kA, 34.676 Km	Y_B	100	Phase to phase fault.	DR length needs to be increased	YES	YES	BSPTCL	PMTL
55	220KV-RENGALI(PH)-TSTPP-1	18-09-2024	13:56	18-09-2024	17:24	Rengali PH: R_N, 4.87 kA	TSTPP: R_N, 0.7 km, 17.6 kA	R_Earth	500	Tripped in Zone-2 time from Rengali PH		NO	NO	OPTCL	OPTCL
56	400KV-ALIPURDUAR (PG)-JIGMELLING-2	18-09-2024	15:08	18-09-2024	16:16	Alipurduar: Didn't trip		No Fault	NA	No fault observed from PMU. Line tripped from Jigmelling end only.		NA	NO	POWERGRID	BHUTAN
57	765KV-JHARSUGUDA-RAIPUR PS (DURG)-1	19-09-2024	00:29	19-09-2024	23:30	Jharsuguda : R_N, 3.978 kA, 251.415 km	-	R_Earth	500	Tripped in Zone-2 from Jharsuguda. Carrier not received. A/r attempt failed from Raipur and during this time carrier received. PG Odisha may explain.		YES	NA	POWERGRID	WESTERN REGION
58	400KV-ALIPURDUAR (PG)-JIGMELLING-2	19-09-2024	11:23	19-09-2024	13:12	Alipurduar: Didn't trip	-	No Fault	NA	No fault observed from PMU. As reported, line tripped from Jigmelling end due to DC failure.		NA	NO	POWERGRID	BHUTAN

59	220KV-TTSP-TSTPP-1	20-09-2024	11:54	20-09-2024	12:24	-	TSTPP : R_N, 4.8 KA, 29.2 Km	No Fault	NA	Line tripped in zone-2 from TSTPP. As reported, fault was in adjacent line, 220 kV Rengali TTSP which was cleared in Zone-2 from TSTPP. OPTCL may explain.			NO	NO	OPTCL	NTPC
60	220KV-RANCHI-MTSP(DVC)-1	20-09-2024	12:44	20-09-2024	18:03	Ranchi: Y-B, Iy:1.25 KA, Ib:19 KA, 211.3 Km	MTSP: Y-B, Iy-12.56 KA, Ib-12.40 KA, 12.5 Km.	Y_B	500	Tripped on Zone-2 from Ranchi as carrier not received. DVC/ PG ER-1 may explain.			YES	NO	POWERGRID	DVC
61	220KV-PATNA-KHAGAUL-1	21-09-2024	04:16	21-09-2024	05:27	Patna: B_N, 11.6 kA, 8.3 Km	Khagaul: B_N, 7.93 kA, 16.84 Km	B_Earth	100	A/r failed from Khagaul after 800 msec. From Patna, A/r attempt was taken after 1 second and was successful.	DR not time synchronized at Khagaul		YES	YES	POWERGRID	BSPTCL
62	220KV-JORETHANG-NEW MELLI-2	21-09-2024	19:46	22-09-2024	17:47	Jorthang - R_Y	New melli : R-Y, Ir=9.78 KA, Iy=9.712 KA, 0.269 Km	R_Y	400 msec	Phase to phase fault. Tripped in Zone-2 time from Jorethang			NO	YES	JLHEP	POWER GRID
63	220KV-BOLANGIR (PG)-KESINGA-1	21-09-2024	23:49	22-09-2024	01:01	Bolangir - Y-B , Zone-3, 293.6 KM , FC - IY- 1.05 KA , IB - 0.82 KA	Did not trip from Kesinga end.	No fault	NA	No fault in line. Line tripped in Zone-3 from Bolangir. There was a fault in downstream of Kesinga which was not cleared. Total fault duration was 2.8 seconds.			YES	NO	POWERGRID	OPTCL

64	220KV-BUDHIPADAR-KORBA-2	22-09-2024	10:19	22-09-2024	12:32	A/r successful from Budhipadar end : B-N, 2.2kA, 52.8 km	-	B_Earth	400	Three phase A/r successful from Budipadar end. Tripped in Zone-2 from Korba.			YES	NO	OPTCL	WESTERN REGION
65	220KV-PATNA-KHAGAUL-1	22-09-2024	12:34	27-09-2024	17:33	Patna: B-N,10.9 KA, 8.7 km	-	B_Earth	100	A/r failed from Khagul after 800 msec and from Patna A/r failed after 1 second due to persistent fault			YES	NO	POWERGRID	BSPTCL
66	400KV-ALIPURDUAR (PG)-BINAGURI-3	23-09-2024	12:29	23-09-2024	16:05	Alipurduar: B-N, 4.6 KA, 47 km	Binaguri: B-N, 4.37 KA, 79.16 km	B_Earth	100	A/r failed from both end after 1 second due to persistent fault.			YES	YES	POWERGRID	POWER GRID
67	220KV-RANCHI-MTPS(DVC)-1	23-09-2024	22:03	23-09-2024	22:45	Ranchi : R_N,1.016 KA, 177 Km	Mejia : R_N, 5.81 KA, 23.1 Km	R_Earth	100	A/R successful from Ranchi end only. A/r kept disabled at Mejia			YES	NO	POWERGRID	DVC
68	220KV-KHAGARIA-NEW PURNEA-2	24-09-2024	01:48	24-09-2024	02:58	Khagaria : Y_B, Iy- 2.827 kA, Ib- 2.735 kA, 58.67 km	New Purnea: Y_B, Iy: 4.9 KA, Ib: 4.6 KA, 39.9 km	Y_B	200 msec	Phase to phase fault.		DR length needs to be increased	YES	YES	BSPTCL	POWER GRID

69	220KV-KATAPALLI-BOLANGIR(PG)-1	24-09-2024	11:48	24-09-2024	18:57	Katapali: Y_N, 29.03 Km, 4.05 KA	Bolangir: Y_N, 1.7 kA, 82.9 Km	Y_Earth	100	A/r successful from Katapali end, A/r not attempted from Bolangir end.	DR not time synchronized.	DR length needs to be increased	YES	YES	OPTCL	POWER GRID
70	220KV-RANCHI-HATIA-2	24-09-2024	17:51	24-09-2024	18:12	Ranchi : R_N, 9.07 kA, 12.91 Km	Hatia: R_N, 5.33 kA	R_Earth	100	A/r successful from Hatia only. Three phase tripped at Ranchi. PG ER-1 may explain.			YES	YES	POWERGRID	JUSNL
71	220KV-GAYA(PG)-BODHGAYA-3	25-09-2024	00:02	25-09-2024	18:38	Gaya: R-N, 5.4kA, 24 km	-	R_Earth	500	Three phase tripping for single phase fault with deyaled clearance. Line is idle charged from Gaya, antitheft charging settings need to be reviewed.			YES	NO	POWERGRID	BSPTCL
72	220KV-SAHARSA-BEGUSARAI-2	25-09-2024	12:15	28-09-2024	17:33	Saharsa : R-N, 6.277 kA, 17.69 Km	-	R_Earth	100	A/r failed from both end after 1 second due to persistent fault.			YES	YES	PMTL	BSPTCL
73	400KV-MEDINIPUR-KHARAGPUR-2	25-09-2024	17:24	26-09-2024	10:29	Medinipur: Y_N, 1.16 kA, 10.06 Km	Kharagpur : Y_N, 4.53 kA, 106.3 Km	Y_Earth	100	A/r failed from both end after 1 second due to persistent fault.		DR not time synchronized.	NO	YES	PMJTL	WBSETCL

74	765KV-JHARSUGUDA-RAIPUR PS (DURG)-1	26-09-2024	06:54	26-09-2024	15:25	Jharsudha :R-N, 8.52 KA, 77.009 km	-	R_Earth	100	A/r failed from both end after 1 second due to persistent fault.	YES	NO	POWERGRID	WESTERN REGION
75	220KV-PATNA-FATUHA-1	26-09-2024	06:56	26-09-2024	14:40	Patna: Line didn't trip	Line tripped from Fatuha end only.	No fault	NA	No fault observed from PMU. As reported, due to some auxilliary failure at Fatuah end, line tripped.	NO	NO	POWERGRID	BSPTCL
76	220KV-BUDHIPADAR-KORBA-1	26-09-2024	16:04	26-09-2024	17:48	Budhipadar: Y_N, 1.4 KA, 125 Km	-	Y_Earth	500	Tripped in Zone-2 from Budhipadar.	YES	NO	OPTCL	WESTERN REGION
77	220KV-MAITHON-DHANBAD-1	27-09-2024	17:57	27-09-2024	18:29	Maithon : R_N, 4.13 kA, 136 km	-	R_Earth	100	A/r successful at Dhanbad. Tree phase tripping for single phase fault at Maithon. PG ER-2 may explain.	YES	NO	POWERGRID	DVC
78	220KV-KHAGARIA-NEW PURNEA-1	28-09-2024	13:28	28-09-2024	14:26	Khagaraia: Y-B, 55.68 km, Iy - 2.810 kA, Ib- 2.852 KA,	New Purnea: Y-B, Iy:4.7 kA, Ib:4.6 kA, 41.1 km	Y_B	100	Tripped on Phase to Phase fault	YES	NO	BSPTCL	POWERGRID

79	220KV-DARBHANGA (DMTCL)-MOTIPUR-1	29-09-2024	09:18	29-09-2024	10:28	Darbhanga :B-N, 1.2 KA, 96.86 Km	Motipur : B-N, 2.6 KA, 40 Km	B_Earth	100	A/R successful from Motipur end only, from DMTCL end A/R not attempted. DMTCL may explain.			NO (only cfg file uploaded)	YES	DMTCL	BSPTCL
80	220KV-TTPS-TSTPP-1	30-09-2024	09:28	30-09-2024	18:27	TTPS:R-N,4.971 kA, 23.71 km	TSTPP: R N, 19 kA, 0.8 km	R_Earth	100	As per PMU, No A/r attempt from either side.			NO	NO	NTPC	OPTCL
81	220KV-KHAGARIA-NEW PURNEA-1	30-09-2024	16:05	30-09-2024	18:12	Khagaria:B-N, 2.732 kA, 59.8 km	New Purnea: B-N, 51.8 Km, 3.6 kA	B_Earth	80 msec	A/R failed from Khagaria end after 800 msec. From New Purnea, A/r attempt failed after 1 second	DR length needs to be increased	YES	YES	BSPTCL	POWERGRID	