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NO. ERPC/PROTECTION/2018/

DATE: 04.12.2018

**FAX MESSAGE NO. - 468**

To,

As per list enclosed.

**Sub: Notice for 74<sup>th</sup> Protection Coordination sub-Committee (PCC) meeting of ERPC**

Notice is hereby given that **74<sup>th</sup> PCC meeting** of ERPC will be held on **19<sup>th</sup> December 2018 (Wednesday)** at 10: 30 hrs at **ERPC Conference Room, Kolkata.**

The tentative agenda items for discussion will be as follows:

- 1) Confirmation of the minutes of 73<sup>rd</sup> Protection sub-Committee Meeting of ERPC
- 2) Follow-up action on decision of previous Protection sub-Committee Meetings. The list of follow up events is enclosed at **Annexure-I.**
- 3) Analysis of following grid disturbances of November, 2018:

SI No	Date	Time	Affected System	Summary	Load loss (MW)	Gen loss (MW)	Fault duration (As Per PMU)
1	14-11-2018	16:31	ISTS	At 16:30 hrs, 400 kV Teesta III – Dikchu S/C tripped from Teesta III end along with 400/132 kV ICT at Dikchu resulting tripping of all running units at Dikchu due to loss of evacuation path. As per DR received, ICT tripped in E/F. At the same time, 400 kV Teesta III – Dikchu S/C tripped from Teesta III end due to operation of cable directional O/C protection.	0	856	1.2 sec
2	24-11-2018	02:05	ISTS	At 02:05 Hrs, 400 KV Kahalgaon Bus#1 tripped due to operation of Breaker Failure Relay (BFR) of Main Bay of GT#1, leading to outage of Unit#1 (210 MW). At the same time, U#7 also tripped as it was synchronized through bus#1 only.	200	52	Fault not observed in PMU
3	25-11-2018	16:31	ISTS	At 16:31 hrs bus II at BRBCL tripped on bus bar protecton due to mal-operaton of bus bar differential relay. At the same time tie CB between ICT I & GT I tripped on operation of master trip signal due to logic error from Bus bar relay of Bus II, which again led to erroneous LBB retrip signal to	130	52	Fault not observed in PMU

				main CB no. 401 connected to GT I leading to tripping of unit 1 generating 230 MW and ICT I. At same time, main bay 400 kV Sasaram BRBCL - I at BRBCL tripped on logic error and DT was sent to Sasaram end.			
4	29-11-2018	07:23	OPTCL	At 07:23 Hrs, 220 KV TTPS Bus II tripped alongwith 2*110 MW U#5,U#6, 160 MVA 220/132 KV ICT I, ICT II, 220 KV TTPS-TSTPP S/C, 220 KV TTPS-Joda D/C, 220 KV TTPS-Rengali S/C, 220 KV TTPS-Meramundali II.	160	0	600 ms

4) Single line tripping incidences of November-2018 is enclosed at **Annexure-II**.

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 trippings for meaningful analysis during the meeting. 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).

Your participation in the meeting is highly solicited. Please confirm your participation in the meeting along with name and designation of the participants.

Yours faithfully,

**-Sd-**  
**(J. Ganeswara Rao)**  
**Executive Engineer**

**LIST OF ADDRESSES:**

Chief Engineer, Trans (O&M) Bihar State Power Transmission Limited, Vidyut Bhawan, Bailey Road, Patna-800021	Electrical Superintending Engineer (CRITL) Bihar State Power Transmission Limited, Vidyut Bhawan, Bailey Road, Patna-800021
Chief Engineer (SLDC) Damodar Valley Corporation, GOMD-I Premises, P.O.- Danesh Sheikh 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	Electrical Superintending Engineer (CLD) Jharkhand Urja Sancharan 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. Vanivihar Chowk, 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 )
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Dy. Chief Engineer (Testing)/ Sr. Manager (Testing) CESC Ltd.,4, Sasi Sekhar 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)
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General Manager(OS), ERHQ-I, NTPC Ltd., Loknayak Jaiprakash Bhawan, (2 <sup>nd</sup> Floor), Dak Bunglow Chawk, 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, Tenughat Vidyut Nigam Ltd., Lalpania, Dist. Bokaro, Jharkhand-829149
Dy. General Manager (Electrical) IB Thermal Power Station, OPGCL Banhapalli, Dist. Jharsuguda-768234, Orissa	General Manager (OS), ER-I Power Grid Corporation of India Ltd., Alankar Place, Boring Road, Patna-800001
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Executive Director, ERLDC, POSOCO, Tollygunge, Kolkata-700033	Head Construction, ENCIL, Siliguri-7340051
General Manager (OS), ER-II Power Grid Corporation of India Ltd., J-I-15, Block-EP, Sector-V, Salt Lake, Kolkata-91	Shri A.K.Nayak/Shri Sumit S Ghosh Maithon Power Limited, Maithon Office, MA 5 Gogna, Dist. Dhanbad, Jharkhand State, PIN-828207
General Manager (P&O), PTC Ltd., Kanchanjunga Bldg., 18, Barakhamba Road, New Delhi-110001	Vice President, Vedanta Ltd. 1 <sup>st</sup> Floor, Module C/2, Fortune Tower, C S Pur, Bhubaneswar- 751023
Managing Director, Bhutan Power Corporation	Managing Director, Druk Green Power Corpn.

Post Box no. 580, Thimpu, Bhutan.	P.O. Box-1351, Thimpu, Bhutan.
General Manager, Darbhanga(Bihar), Darbhanga Motihari Transmission Company Limited (DMTCL)	Shri Brajesh Kumar Pande, Plant Head, JITPL. (FAX:011-26139256-65)
Shri D. P. Bhagava, Chief Consultant (O&M), Teesta Urja Limited, New Delhi (FAX:011-46529744)	Director (GM Division), Central Electricity Authority Sewa Bhawan, R. K. Puram, New Delhi-110066
Director (NPC), CEA, NRPC Building, Katwaria Sarai, 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

**CC:**

ASSISTANT SECRETARY, ERPC		
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Sl No.	Name of the incidence	PCC Recommendation	Latest status
<b>72<sup>nd</sup> PCC Meeting</b>			
1.	Disturbance at Tenughat (TVNL) S/s on 27.09.18 at 13:14 hrs.	PCC advised TVNL to change the timer settings of O/C and E/F relay at TTPS end as per IEC curve in order to have a proper coordination among the stations.	
2.	Repeated tripping of 220 kV Jorethang-New Melli D/C and Tashiding-N. Melli S/C	PCC advised DANS energy to review the relay settings for both the lines.	
<b>71<sup>st</sup> PCC Meeting</b>			
3.	Disturbance at 220/132 kV Motipur(BSPTCL) S/s on 15.08.18 at 13:00 hrs.	PCC advised BSPTCL to check the disturbance recorders of all the lines in 220 kV Motipur S/s and communicate the findings to ERPC/ERLDC at the earliest.	
4.	Disturbance at 400 kV Farakka S/s on 19.08.18 at 15:26 hrs.	PCC advised NTPC to replace/divert Micom P437 relay to avoid unwanted tripping of such important transmission line. PCC also advised to check the reason for not sending carrier from Farakka to Kahalgaon and non-operation of Autorecloser.	
5.	Disturbance at 400 kV MPL S/s on 19.08.18 at 15:47 hrs.	PCC advised Powergrid to share the procedure/directives regarding implementation of the POP scheme with ERPC/ERLDC.	
<b>68<sup>th</sup> PCC Meeting</b>			
6.	Issues related with Generation Backing down during Talcher-Kolar SPS operation on 16th May 2018.	<p>PCC advised Powergrid to explore for inclusion of pole block with ground return mode signal in the SPS logic.</p> <p>PCC advised NTPC, GMR and JITPL to ensure the generation reduction as per the SPS logic.</p> <p>PCC advised NTPC also to explore for inclusion of pole block with ground return mode signal in the SPS logic.</p>	Regarding inclusion of pole block with ground return mode signal in the SPS logic, Powergrid informed that the issue was referred to OEM.

7.	Issue of Protection Coordination Observed during Blackout of Tala on 23rd May 2018.	PCC advised Bhutan representatives to submit a detailed report on the above disturbance to ERPC and ERLDC at the earliest.	
8.	Disturbance at 400/220 kV Biharshariff S/s on 28-03-2018 at 18:43 hrs and 19-03-2018 at 02:02 hrs.	<p>PCC advised BSPTCL and Powergrid to ensure proper relay coordination between 400kV and 220 kV system including ICTs at Biharshariff S/s.</p> <p>71<sup>st</sup> PCC advised BSPTCL to configure the zone-2 timings as 250-300 msec for the lines which do not have PLCC operational so that a proper relay coordination will be ensured between ICTs and the lines.</p>	BSPTCL informed that they are in the process of implementing the revised settings.