



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



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**NO. ERPC/PROTECTION/2018/**

**DATE: 02.02.2018**

**FAX MESSAGE NO. - 50**

To,

As per list enclosed.

**Sub: Notice for 64<sup>th</sup> Protection Coordination sub-Committee (PCC) meeting of ERPC**

Notice is hereby given that **64<sup>th</sup> PCC meeting** of ERPC will be held on **22<sup>nd</sup> February 2018 (Thursday)** at 11: 00 hrs at **ERPC Conference Room, Kolkata.**

The tentative agenda items for discussion will be as follows:

- 1) Confirmation of the minutes of 63<sup>rd</sup> Protection sub-Committee Meeting of ERPC
- 2) Follow-up action on decision of previous Protection sub-Committee Meetings
- 3) Analysis of following grid disturbances of January, 2018:
  - SPS operation at Sikkim due to tripping of 400kV Binaguri-Rangpo line II on 10-01-18 at 17:34 hrs.
  - Tripping of 132 kV Purne(PG) – Purnea(B) D/C line on 14-01-18 at 23:20 hrs.
  - Disturbance at 220/132 kV Kalyaneswari S/S on 19-01-18 at 12:23 hrs
  - Tripping of 132 KV KhSTPP-Lalmatia and 132 KV Kahalgaon (BSPHCL)-Lalmatia lines on 20-01-18 at 13:28 hrs
  - Disturbance at 400kV Koderma and 400kV Bokaro-A on 30-01-18 at 10:46 hrs
- 4) Single line tripping incidences of January, 2018. Provisional list is enclosed at **Annexure-I.**

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 Seikh Lane, Howrah- 711109	Chief Engineer (CTC) Damodar Valley Corporation, P.O. Maithon Dam, Dist. Dhanbad, Jharkhand-828207
Chief Engineer, Trans (O&M) 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 )
Chief Engineer (CLD) WBSETCL, P.O. Danesh Sheikh Lane, Andul Road, Howrah-711109	Addl. Chief Engineer (ALDC) West Bengal Electricity Distribution Company Ltd Vidyut Bhavan, 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, 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)
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 (O&M) POWERGRID, Odisha Projects Sahid Nagar, Bhubaneswar – 751 007
General Manager(OS), ERHQ-I, NTPC Ltd., Loknaya Jaiprakash Bhawan, (2 <sup>nd</sup> Floor), Dak Bunglow Chawk, Patna-800001	Director (GM Division) Central Electricity Authority Sewa Bhawan, R. K. Puram, New Delhi-110066
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
Chief Engineer (Trans.) Power Deptt., Govt. of Sikkim, Gangtok-731010	Sr. Manager (CTMC) Durgapur Projects Limited, Durgapur-713201
Executive Director, ERLDC, POSOCO 14, Golf Club Road, Tollygunge, Kolkata-700033	Manager (Electrical), Adhunik Power & Natural Resources Ltd. “Lansdowne Towers, Kolkata-700020 ( Fax No. 033-2289 0285)
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 Post Box no. 580, Thimpu, Bhutan.	Managing Director, Druk Green Power Corpn. P.O. Box-1351, Thimpu, Bhutan.
General Manager, Darbhanga(Bihar), Darbhanga Motihari Transmission Company Limited (DMTCL)	Head Construction, ENCIL, Siliguri-7340051
Shri D. P. Bhagava, Chief Consultant (O&M), Teesta Urja Limited, New Delhi (FAX:011-46529744)	Shri Brajesh Kumar Pande, Plant Head, JITPL. (FAX:011-26139256-65)

## List of important transmission lines in ER which tripped in January-2018

S.N O	LINE NAME	TRIP DATE	TRIP TIME	RESTORATION DATE	RESTORATIO N TIME	Relay Indication LOCAL END	Relay Indication REMOTE END	Reason	Fault Clearance time in msec	Auto Recloser status	DR/EL RECEIVED FROM LOCAL END	DR/EL RECEIVED FROM REMOTE END
1	400KV MOTIHARI-BARH-II	03/08/2017	7:14	05/01/2018	14:34	BN,2.35KA,30.9KM FROM MOTIHARI	BN,2.44KA, 181KM FROM	B-N Fault				
2	HVDC PUSAULI	29/12/2017	5:47	04/01/2018	20:08	DUE TO SUCCESSFUL A/R OF 400KV SASARAM VARANASI		DUE TO SUCCESSFUL A/R OF 400KV SASARAM VARANASI				
3	132KV KARMNASHA-SAHUPURI-I	29/12/2017	23:32	06/01/2018	11:25							
4	400KV ROURKELA-JHARSUGUDA-IV	30/12/2017	0:33			attempt made @15 :47 tripped SOTF B-phase, 18 KA	anti theft charged at 19:55					
5	132KV KhSTPP, NTPC-Lalmatia-I	01/01/2018	3:40		Charging attemp from LMT at 04:50 hrs failed.	KHSTPP: Y ph E/F	Lalmatia: YN,15.10 KM,2.55 KA, jumper snapped at tower 29, could not	Earth Fault				
6	132KV KhSTPP, NTPC-Lalmatia-I	01/01/2018	4:30	02/01/2018	16:07	tripped on E/F then charging attempt taken at 04:30 hrs but did not hold		Earth Fault				
7	400MVAR BR-2 AT DARBHANGA (DMTCL)	03/01/2018	0:40			BACK -UP IMPEDANCE RELAY,FC 0.17KA		BACK -UP IMPEDANCE RELAY				
8	400MVAR BR-2 AT DARBHANGA (DMTCL)	03/01/2018	15:12	03/01/2018	16:01	Relay Malfunction		Relay Malfunction				
9	80MVAR LR-1 OF 400KV FARAKKA- GOKARNO-T AT FARAKKA	04/01/2018	6:16	06/01/2018	17:16	Due to tripping of bus 2		Due to tripping of bus 2				
10	HVDC PUSAULI	05/01/2018	0:08			System failure alarm		System failure alarm				
11	400KV ARAMBAGH-BAKRESWAR-SC	05/01/2018	6:30	05/01/2018	16:25	R-N,Z1,45 KM,FAULT CURRENT R=7.597 KA	R-N,Z1,86.8 KM,FAULT CURRENT R=7.597	R-N Fault				
12	1500MVA ICT-2 AT ANGUL	05/01/2018	8:36	05/01/2018	11:13	Buchholz Relay Operated.		Buchholz Relay Operated.				
13	400KV MOTIHARI-BARH-II	05/01/2018	14:34			O/C, 8.9KM, FC- R 6.49 KA, Y 7.02 KA, B 6.54 KA @MOTIHARI	charging attempt at 17:36 hrs failed again with same relay indications/dist	3 Ph Fault				
14	400KV ARAMBAGH-BAKRESWAR-SC	05/01/2018	16:25			SOTF		SOTF				
15	315MVA ICT-1 AT KOLAGHAT	05/01/2018	16:25	05/01/2018	19:36	86 RELAY		86 RELAY				
16	HVDC PUSAULI	06/01/2018	2:16	06/01/2018	20:02	SYSTEM FAILURE ALARM		SYSTEM FAILURE ALARM				
17	400KV MAITHON-KhSTPP-II	06/01/2018	3:59			R-Y Fault , 164.4 Km From Maithon	CT Blast	CT BLAST				
18	400KV FSTPP-KhSTPP-IV	06/01/2018	3:59	06/01/2018	16:32	DT RECEIVED	CT BLAST	CT BLAST				
19	315MVA ICT-2 AT KOLAGHAT	06/01/2018	11:05	06/01/2018	12:01	86 relay operated		86 relay operated				
20	HVDC PUSAULI	08/01/2018	3:09	08/01/2018	20:17	SYSTEM FAILURE ALARM		SYSTEM FAILURE ALARM				
21	500KV HVDC TALCHER-KOLAR POLE-I	08/01/2018	17:48	08/01/2018	18:00	dc build up protection		dc build up protection				
22	500KV HVDC TALCHER-KOLAR POLE-I	08/01/2018	19:06	09/01/2018	0:54	PROBLEM IN VALVE HALL		PROBLEM IN VALVE HALL				
23	400KV TSTPP-ROURKELA-I	09/01/2018	7:52	09/01/2018	8:19							
24	400KV TSTPP-ROURKELA-II	09/01/2018	7:52	09/01/2018	8:13							
25	500KV HVDC TALCHER-KOLAR POLE-I	09/01/2018	7:52	09/01/2018	9:04							
26	220KV TENUGHAT-BIHARSARIFF-I	09/01/2018	13:01	09/01/2018	13:47	R-N		R-N Fault				
27	400KV KHARAGPUR-CHAIBASA-II	10/01/2018	12:39	10/01/2018	13:13	125.1 km from chaibasa,2.18 ka,Y-N	Z1, Y PHASE, 68.17 KM, FAULT CURRENT - 3.32	Y-N fault				
28	400KV KHARAGPUR-CHAIBASA-II	10/01/2018	13:24	10/01/2018	16:13	109 km,3.4 kA,Y_N		Y-N fault				
29	400KV TEESTA-III-RANGPO-II	10/01/2018	17:34			SPS II signal received from Rangpo		SPS II signal received from Rangpo				
30	400KV TEESTA-III-DIKCHU-I	10/01/2018	17:34			Opened from Dikchu end		Opened from Dikchu end				
31	400KV BINAGURI-RANGPO-II	10/01/2018	17:34			R_Y_N Fault		R_Y_N Fault				
32	220KV NEW MELLI-JORETHANG-I	10/01/2018	17:34									
33	220KV NEW MELLI-TASHIDING-SC	10/01/2018	17:34									
34	220KV JORETHANG-NEW MELLI-II	10/01/2018	18:34									
35	220KV TASHIDING-RANGPO-SC	10/01/2018	18:34									
36	HVDC PUSAULI	10/01/2018	20:03			System Failure Alarm		System Failure Alarm				
37	315MVA ICT-2 AT JEYPORE	11/01/2018	7:45									
38	400KV BINAGURI-TALA-II	11/01/2018	10:00									
39	132KV RANGIT-KURSEONG-SILIGURI-I	11/01/2018	11:02	11/01/2018	11:26	B-N Fault , 48 Km from Kurseong , Z1		B-N fault				
40	220KV JODA-JINDAL-SC	12/01/2018	8:00	13/01/2018	0:25	B-ph line isolator burnt		B-ph line isolator burnt at Joda end				
41	400MVAR BR-1 AT Rourkela	12/01/2018	9:45	12/01/2018	12:48	TRIPPED WHILE TAKING S/D OF 400 KV BUS-2 AT ROURKELA		TRIPPED WHILE TAKING S/D OF 400 KV BUS-2 AT ROURKELA				
42	800KV HVDC ALIPURDUAR-AGRA- POLE-IV	13/01/2018	7:16			station ground overcurrent protection AT AGRA END		station ground overcurrent protection AT AGRA END				
43	400KV RANCHI-ROURKELA-II	13/01/2018	13:26			R-N, F/D-77.5KM, F/C- 4.1KA	R-N, Z1, F/D- 50.32, F/C-	R-N Fault				
44	132KV BANKA (PG)-SULTANGANJ-I	13/01/2018	15:08	13/01/2018	16:32	Tripped from Sultanganj end only	Sultanganj: O/C EF	O/C E/F				

S.N O	LINE NAME	TRIP DATE	TRIP TIME	RESTORATION DATE	RESTORATIO N TIME	Relay Indication LOCAL END	Relay Indication REMOTE END	Reason	Fault Clearance time in msec	Auto Recloser status	DR/EL RECEIVED FROM LOCAL END	DR/EL RECEIVED FROM REMOTE END
45	400KV RANCHI-ROURKELA-II	13/01/2018	17:47			Ranchi:YBN, ly=5.3KA, lb=4.9KA Distance: 104.8 KM	Rourkela: YBN, ly=9KA,lb=10KA Distance :40KM	Y-B-N fault				
46	132KV PURNEA (PG)-PURNEA(BSEB)- II	14/01/2018	23:20	14/01/2018	23:38	Tripped on O/C from BSEB end only		Tripped on O/C from BSEB end only				
47	132KV PURNEA (PG)-PURNEA(BSEB)- I	14/01/2018	23:20	14/01/2018	23:38	Tripped on O/C from BSEB end only		Tripped on O/C from BSEB end only				
48	132KV KATAYA-KUSAHA-1	16/01/2018	14:45	16/01/2018	15:35	la-629A lb-809A lc- 884A IN LAHAN LINE	SOME HOTSPOT AT 33 KV OUTGOING FEEDER OF R PH	SOME HOTSPOT AT 33 KV OUTGOING FEEDER OF KUSAHA NEPAL				
49	132KV BANKA (PG)-SABOUR-II	16/01/2018	20:17	16/01/2018	20:36	86 TRIP IN BIHAR	FAULT,7.082KM,7. 95 KA	R-N Fault				
50	400KV NEW RANCHI-CHANDWA-I	16/01/2018	20:42			B-N FAULT		B-N FAULT				
51	220KV MUZAFFARPUR-HAJIPUR-II	17/01/2018	13:20	17/01/2018	13:40	Spurious trip		Spurious trip				
52	400KV RENGALI-INDRAVATI-SC	17/01/2018	15:43	17/01/2018	15:54	DT received @ rengali		DT received @ rengali				
53	132KV BANKA (PG)-SULTANGANJ-I	17/01/2018	23:51	18/01/2018	0:18	Y-n, 14.75 km, 4.33 ka	Y-n, 21km	Y-N fault				
54	132KV KATAYA-KUSAHA-1	18/01/2018	7:50	18/01/2018	8:53	over current earth fault		over current earth fault				
55	132KV NBU-SILIGURI-SC	18/01/2018	11:58	18/01/2018	11:50	O/C EARTH FAULT		O/C EARTH FAULT				
56	220KV ATRI-PANDIABILI-II	18/01/2018	16:07	18/01/2018	16:45	Opened from Atri end only		Opened from Atri end only				
57	132KV KATAYA-KUSAHA-1	19/01/2018	3:50	19/01/2018	4:25	O/C EF		O/C EF				
58	132KV MAITHON-JAMTARA-SC	19/01/2018	12:23	19/01/2018	13:15							
59	220KV MAITHON-KALYANESHWARI-I	19/01/2018	12:23	19/01/2018	13:20							
60	132KV MUZAFFARPUR-DHALKEBAR-I	19/01/2018	17:40	19/01/2018	18:12	sps stage-II, I_Y 762 A		sps stage-II operated				
61	132KV KhSTPP, NTPC-Lalmatia-I	20/01/2018	13:28	20/01/2018	13:58		TRIPPED FROM LALMATIA END ONLY	TRIPPED FROM LALMATIA END ONLY				
62	132KV KAHALGAON(BSEB)- LALMATIA-1	20/01/2018	13:28				TRIPPED FROM LALMATIA END ONLY	TRIPPED FROM LALMATIA END ONLY				
63	315MVA ICT-2 AT BIHARSARIFF	20/01/2018	15:17	20/01/2018	17:06	DUE TO FAILURE OF DC-DC CONVERTER OF TEED-2 PROTN		DUE TO FAILURE OF DC-DC CONVERTER OF TEED-2 PROTN				
64	220KV RANCHI-HATIA-I	20/01/2018	15:50	20/01/2018	16:44	RYN Fault, Ir=6.4 KA, ly=6.22 KA FD: 16.4 KM	RYN, Ir=3.9 KA, ly=4.18 KA FD: 14 KM	RYN Fault				
65	400KV TSTPP-MEERAMUNDALI-SC	20/01/2018	17:36	21/01/2018	15:18	R PHASE LA BURST	RN, Ir=8.5 KA, FD: 40KM, A/R Unsuccessfull	R PHASE LA BURST AT MERAMUNDULI				
66	400KV JEERAT-NEW CHANDITALA-SC	20/01/2018	23:36	21/01/2018	12:48		SF6 Gas leakage in CB	SF6 Gas leakage in CB @ Chanditala				
67	400KV BINAGURI-TALA-II	20/01/2018	23:47	21/01/2018	0:34	DT received @ Binaguri		DT received @ Binaguri				
68	132KV KATAYA-KUSAHA-1	22/01/2018	18:45	22/01/2018	19:20	Y PHASE , OVER CURRENT RELAY		Y PHASE OVER CURRENT RELAY OPERATED				
69	132KV RIHAND-GARWAH-I	23/01/2018	0:05	23/01/2018	0:23	TRIPPED FROM RIHAND END ONLY		TRIPPED FROM RIHAND END ONLY				
70	132KV MUZAFFARPUR-DHALKEBAR-I	24/01/2018	17:16	24/01/2018	17:30			SPS OPERATED				
71	765KV DHARAMJAIGARH- JHARSUGUDA-I	25/01/2018	9:34	25/01/2018	11:16			SPURIOUS TRIPPING AT JHARSUGUDA				
72	220KV MEERAMUNDALI- BHANJANGR-I	26/01/2018	0:46					Y-B-N FAULT				
73	400KV NEW DUBURI- MEERAMUNDALI-I	26/01/2018	0:46	30/01/2018	16:11			Y-N FAULT				
74	HVDC PUSAULI	26/01/2018	3:47	26/01/2018	5:03			SYSTEM FAIL ALARM				
75	132KV MUZAFFARPUR-DHALKEBAR-I	28/01/2018	13:05	28/01/2018	13:31			SPS OPERATED				
76	400KV SASARAM-NABINAGAR-II	29/01/2018	4:42	29/01/2018	7:11			DT RECEIPT AT SASARAM				
77	400KV RANCHI-ROURKELA-II	29/01/2018	15:30	29/01/2018	16:14			SPURIOUS TRIPPING OF TIE BAY DURING TESTING OF MAIN BAY				
78	400KV JHARSUGUDA-ROURKELA-II	29/01/2018	22:54	29/01/2018	23:58			DT RECEIVED AT JHARSUGUDA				
79	400KV RANCHI-ROURKELA-II	29/01/2018	22:54	29/01/2018	23:30			TRIPPED FROM ROURKELA				
80	400KV KODERMA-BIHARSARIFF-II	30/01/2018	10:46	30/01/2018	11:22			DUE TO PROBLEM IN TIE CB OF 400 KV KODERMA - GAYA - II AND 400 KV KODERMA - BIHARSHARIFF - II				
81	400KV KODERMA-BOKARO-II	30/01/2018	10:46	30/01/2018	12:17			DUE TO PROBLEM IN TIE CB OF 400 KV KODERMA - GAYA - II AND 400 KV KODERMA - BIHARSHARIFF - II				
82	400KV GAYA-KODERMA-II	30/01/2018	10:46	30/01/2018	11:59			DUE TO PROBLEM IN TIE CB OF 400 KV KODERMA - GAYA - II AND 400 KV KODERMA - BIHARSHARIFF - II				
83	400KV KODERMA-BOKARO-I	30/01/2018	10:46	30/01/2018	12:23			DUE TO PROBLEM IN TIE CB OF 400 KV KODERMA - GAYA - II AND 400 KV KODERMA - BIHARSHARIFF - II				
84	400KV GAYA-KODERMA-I	30/01/2018	10:46	30/01/2018	12:37			DUE TO PROBLEM IN TIE CB OF 400 KV KODERMA - GAYA - II AND 400 KV KODERMA - BIHARSHARIFF - II				

S.N O	LINE NAME	TRIP DATE	TRIP TIME	RESTORATION DATE	RESTORATIO N TIME	Relay Indication LOCAL END	Relay Indication REMOTE END	Reason	Fault Clearance time in msec	Auto Recloser status	DR/EL RECEIVED FROM LOCAL END	DR/EL RECEIVED FROM REMOTE END
85	400KV KODERMA-BIHARSARIFF-I	30/01/2018	10:46	30/01/2018	12:47			DUE TO PROBLEM IN TIE CB OF 400 KV KODERMA - GAYA - II AND 400 KV KODERMA - BIHARSHARIFF - II				
86	400KV RANCHI-RAGHUNATHPUR-II	31/01/2018	13:05					R-N FAULT				
87	400KV RANCHI-RAGHUNATHPUR-II	31/01/2018	13:05	01/02/2018	16:53			R-N FAULT				
88	HVDC PUSAULI	01/02/2018	8:48	01/02/2018	9:56			SYSTEM FAIL ALARM				
89	220KV ARRAH-NADHOKHAR-SC	01/02/2018	8:50	01/02/2018	9:03			Y-N FAULT				