

North Eastern Regional Power Committee

Agenda For

53rd PCC Sub-Committee Meeting

Time of meeting : 10:00 Hrs.

Date of meeting : 11th July, 2019 (Thursday)

Venue : “Hotel Nandan”, Guwahati.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 52nd MEETING OF PROTECTION SUB-COMMITTEE OF NERPC.

The minutes of 52nd meeting of Protection Sub-committee held on 13th December, 2018 at Guwahati were circulated vide letter No. NERPC/SE/PCC/2018/2565-589 dated 3rd January, 2019.

The Sub-committee may confirm the minutes of 52nd PCCM of NERPC as no comments/observations were received from the constituents.

A. ITEMS FOR INFORMATION

A.1 REMEDIAL ACTIONS ALREADY COMPLETED BY UTILITIES:

Name of the utility	Total nos of recommended remedial actions 52nd PCCM onwards	Nos of recommended actions Completed	Remedial actions remaining to be completed
MePTCL	20	7	13
NERTS	64	21	43
OTPC	6	4	2
TSECL	16	6	10
DoP Nagaland	3	1	2
AEGCL	17	7	10
MSPCL	6	1	5
NEEPCO	17	2	15
P&ED Mizoram	3	1	3
DoP Ar.Pradesh	5	0	5
NTPC	1	0	1
NHPC	1	0	1

Total	155	46	110
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This is for information please.

B. ITEMS FOR DISCUSSION

B.1 Standardization of Disturbance Recorder Channels:

Decision as per previous meeting:

- For utilities who have completed R&U works manual trigger is to be given to each NR and DR generated is to be forwarded to NERLDC accordingly for verification. This exercise is to be done for all grid connected substations. *AEGCL, MePTCL and TSECL to expedite.*

Target Date: By Mar'19

- For other utilities in the course of R&U works the above procedure may be followed for DR standardization if any. This exercise is to be done for all grid connected substations. *For compliance by DoP Ar. Pradesh, MSPCL, P&ED Mizoram, DoP Nagaland.*

Members may please discuss

B.2 Implementation of SPAR

Decision(s) as per deliberation in previous meeting(s):

- AEGCL has submitted the A/R status as follows:

SPAR implemented at both ends		Status updated in the Sub-group	Latest status
220kV Agia - BTPS D/C	SPAR implemented but turned off because of the requirement of few changes in the scheme	Agia end By July'19	
220kV BTPS-Salakati D/C	SPAR implemented but turned off because of the requirement of few changes in the scheme	No carrier communication. By June'19	
SPAR implemented at one end		Latest status	
220kV Agia-Azara D/C	SPAR available at Azara, Agia end under R&U works	Agia end by July'19	
220kV Azara-Boko D/C	SPAR available at Azara, other end will be done in R&M works	Boko end by Aug'19	
220kV Jawaharnagar-	SPAR available at JawaharNagar, other end	Presently available at both end, functional.	

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Samaguri D/C	will be done in R&U works		
220kV KarbiLangpi-Sarusajai D/C	SPAR in service in sarusajai, other end will be done under PSDF	Presently available at both end, functional.	
220kV Samaguri-Sarusajai D/C	SPAR in service in sarusajai, other end will be done under PSDF	Presently configuration is 220kV Samaguri-Sonapur-Sarusajai. SPAR present both at Samaguri and Sarusajai. Sonapur by July'19	
220kV Samaguri-Sonabil D/C	SPAR in service in sonabil, at samaguri end it will be implemented under psdf	Presently available at both end, functional.	
132kV Balipara-Sonabil	3ph AR available at Sonabil end, Balipara end to be impkemented by AEGCL	Balipara end by July'19	
132kV Pavoi-Sonabil	3ph AR available at Sonabil end, Pavoi end under R&U	Pavoi end by Aug'19	
		Latest status	
All other 220kV & 132kV Lines	To be implemented under PSDF	To be monitored after Aug'19	

All other utilities to submit the A/R status for the 132kV lines.

■ Auto-reclosure for 132kV Palatana-Surjamaninagar

OTPC vide their letter no. OTPC/UDP/PLT/2018-19/Electrical/42 dated 23rd Aug'18, wherein OTPC requested to allow them to keep auto reclose function of 132 kV Transmission lines at Palatana in "Non-auto mode". Director, NERPC vide mail dated. 07.09.18 had requested OTPC to abide by the decision of the 51st PCC meeting to keep AR in "Auto" mode for 132kV Palatana-Surjmaninagar. OTPC may please inform the status.

■ Previous PCC forums as well as Sub-group in its meetings had recommended that AR for 132kV Dimapur-Kohima has to be activated at the earliest. DoP Nagaland may please intimate the latest status.

In 52nd PCCM NERTS informed that 3 pole A/R facility is available at Dimapur(PG). EE, DoP Nagaland informed that the matter has been taken up with higher authorities for implementation of A/R facilities at Kohima at the earliest.

■ Auto-reclosure for important lines:

Name of line	Latest status	Status as in 53rd PCC meeting

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132kV Khandong-Umrangsho	To be implemented By Jan'19	
400kV Bongaigaon-BGTPP D/C	Rectified By Aug'19	
400kV Silchar-Azara	Non-operation for events on 04.05.19 to be investigated	

Members may please discuss.

B.3 Disturbance in Tripura System

In 52nd PCC meeting it was informed that:

- R&U works for 79Tilla, Rokhia, Udaipur, PKBari, Kailashor, Dhalabil and Ambassa has been completed.
- Line differential relay for 132kV PKBari-Kumarghat and 132kV AGTCCPP-Agartala D/C would be procured by Jan'19 and installation by Feb'19.

After 52nd PCC meeting frequent disturbances have occurred in Tripura System. Frequent instances of Grid Disturbance occurred in the month of Jun'19 in Tripura Power System on 18th June'19, 22nd June'19 & 27th June'19 resulting in tripping of generating units and interruption of power supply to South Comilla of Bangladesh, State capital as well as other parts of the state. Apart from the disturbances, repeated tripping of multiple elements was observed due to fault in 132 kV Agartala – Rokhia 1 line. NERLDC vide its letter to TSECL dated 21.06.19 requested to look into the matter on urgent basis and ensure strict compliance of mandated O&M practices, protection relay setting / co-ordination. TSECL is requested to intimate the root cause & action taken to avoid the recurrence.

NERTS/TSECL may please update the status.

B.4. Identification of short lines to install line differential protection

In 52nd PCC meeting, Director, NERPC informed that as agreed in 19th TCC/RPC meeting the OPGW and accessories would be included under NERPSIP scope for all state lines. He stated that this entails preparation of two separate DPRs: (i) for OPGW and accessories, (ii) for Line differential relay (to be submitted for funding from PSDF). For the former he requested NERTS to assist the state utilities in preparation of the DPR.

The following status was informed by various utilities:

Name of state/Utility	Status
DoP Ar. Pradesh	No lines require LDP
AEGCL	Lines identified. Under DPR preparation stage.
MSPCL	Lines not yet identified.

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MePTCL	Lines identified. Revised DPRs to be prepared.
P&ED Mizoram	Lines not yet identified.
DoP Nagaland	Lines identified. Under DPR preparation stage.
TSECL	Lines not yet identified.

Line Differential Protection for important lines:

Name of line	Scope and name of utility	Latest status
132kV RHEP-Pare HEP -2	Installation of line differential relay at both ends-NEEPCO OPGW – DoP Ar.Pradesh	
132kV Doyang-Sanis	Installation of line differential relay – NEEPCO/DoP Nagaland OPGW – DoP Nagaland	

Members may please discuss.

B.5 Non-analysis of important grid incidences and disturbances:

Some grid incidences/ disturbances could not be analysed due to non-submission of DR/EL/RCA as follows:

Details of the incidence/disturbance	Reasons for non-analysis	Name of utility	Latest status
Grid Disturbance in Dharmanagar area of Tripura and Durlavcherra area of Assam due to tripping of 132 kV P K Bari - Dharmanagar & 132 kV Hailakandi - Dullavcherra on 17.01.2019	DR Dharmanagar to be submitted	TSECL	
	Detailed RCA to be submitted	AEGCL/TSECL	
Grid Disturbance in P K Bari, Ambassa and Dharmanagar areas of Tripura Power System and Dullavchera area of Assam due to tripping of 132 kV P K Bari - Silchar 1 & 2 lines, 132 kV P K Bari - Kumarghat line, 132 kV Ambasa - Gamaitila	Fault in 132 kV Ambassa - Gamaitilla line which was not cleared at Ambassa & PK Bari due to breaker problem. DR/EL to be submitted. Detailed RCA to be	TSECL	

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line, 132 kV P K Bari - Kamalpur line and 132 kV Hailakandi - Dullavcherr line on 21.01.19	submitted		
Grid Disturbance in capital area of Kohima due to tripping of 132kV Dimapur - Kohima on 17.02.2019	DR,EL& RCA to be submitted.	NERTS/DoP Nagaland	
Grid Disturbance in Kamalpur/Rangia area of Assam and Motonga area of Bhutan due to tripping of 132kV Kamalpur-Kahilipara line on 23.01.19	Kahilipara R&U recently completed. No NR at Kamalpur. DR will be submitted henceforth. Reason for tripping to be intimated.	AEGCL	
Grid Disturbance in Itanagar area of Arunachal Pradesh due to tripping of 132kV Ranganadi-Chimpu and 132kV Pare-Chimpu on 29.01.19	DR/RCA to be submitted	NEEPCO/DoP Ar.Pradesh	
Grid Disturbance in Dhalabil area due to tripping of 132kV Agartala-Dhalabil and 132kV Dhalabil-Kamalpur on 05.02.19	DR/RCA to be submitted	TSECL	
Grid Disturbance in Kohima(capital) area of Nagaland due to tripping of 132kV Doyang-Sanis on 27.02.2019	DR/RCA to be submitted	NEEPCO/DoP Nagaland	

Members may please discuss.

B.6 Technical presentation in PCCM:

It was decided that on the 53rd PCC meeting, presentations on Ramakrishna Task Force Recommended settings would be given by NERTS

NERTS may please give the presentation.

AGENDA ITEMS FROM NERLDC:

B.7 Status of submission of FIR and DR & EL outputs for the Grid Events w.e.f

01.12.18 to 30.06.19:

In line with regulation 12 (1) of CEA Grid Standards Regulations and IEGC provision under clause 5.2 (r), FIR and DR & EL Outputs for each grid events are required to be submitted by concerned utilities to NERLDC for detailed investigation and analysis.

The list of trippings along with status of furnishing FIR and DR & EL outputs from Dec'18 to Jun'19 is attached as **Annexure B.7**.

NERLDC may please deliberate.

B.8 Status of R & M works of Protection System funded from PSDF:

Utilities are requested to intimate the substation wise present status and target date of completion of R & M works of protection system especially the installation of distance protection and differential protection in transmission lines, implementation of auto recloser scheme, installation of station event logger, procurement of diagnostic tools etc.

NERLDC may please deliberate.

B.9 Availability of carrier inter-trip scheme for lines of 132 kV and above voltage level

Utilities are requested to intimate the lines for which carrier inter-trip scheme is available and action plan for lines where tele-protection is not available.

NERLDC may please deliberate.

B.10 Major Grid Disturbances and Grid Events in NER Power System since last Subgroup Meeting held on 13.06.19:

Details of the Grid Disturbances in NER Power System apart from repeated Grid Disturbances in Tripura Power System since last Subgroup Meeting held on 13.06.19 are given the below table:

Affected Area(s)	Outage date & time	Remarks
Zuangtui area of Mizoram Power System	13-Jun-19 05:53Hrs & 13-Jun-19 15:20 Hrs	Load Loss= 32 MW & 44 MW respectively
Arunachal Pradesh Power System (except Khupi and Deomali areas)	15-Jun-19 00:53 Hrs & 02-Jul-19	GD on 15.06.19 was due to tripping of 400 kV Biswanath Chariali

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	00:07 Hrs	<p>- Ranganadi 1 & 2 lines and GD on 02.07.19 was due to tripping of 132 kV RHEP – Itanagar line & 132 kV Pare – Itanagar line.</p> <p>(Load Loss = 70 MW & 47 MW respectively and Generation Loss: 0 MW & 65 MW respectively)</p>
Mokokchung area of Nagaland Power System	20-Jun-19 11:52Hrs& 21-Jun-19 08:43	Load Loss = 28 MW & 32 MW respectively
Capital area of Nagaland Power System and Karong substation of Manipur Power System	23-Jun-19 14:42Hrs, 23-Jun-19 19:22Hrs, 23-Jun-19 20:22Hrs & 24-Jun-19 10:48Hrs	Load Loss =25 MW, 38 MW, 28MW & 22 MW respectively
Imphal area of Manipur Power System	15-Jun-19 19:09 Hrs	Load Loss = 52 MW
Ningthoukhong&Rengpangareas of Manipur Power System	26-Jun-19 17:13	Load Loss = 45 MW
Kolasib area of Mizoram Power System	30-Jun-19 07:06	Load Loss = 39 MW

Details of the **critical Grid Events since last Subgroup Meeting held on 13.06.19** are given the below table:

- a. 400 kV Balipara – Misa 1 line on 03.07.19
- b. 220 kV Misa – Kopili 3 line on 03.07.19 (2 times)
- c. 125 MVA, 400/132 kV ICT-1 at Palatana on 29.06.19
- d. 400 kV Silchar – Palatana 2 line on 21.06.19
- e. 400 kV BNC – RHEP 2 line on 20.06.19 & 03.07.19
- f. 400 kV Silchar – Azara line on 19.06.19
- g. 400 kV Silchar – Imphal 2 line on 17.06.19
- h. 400 kV Silchar – Byrnihat line on 16.06.19

NERLDC may please deliberate.

B.11 Analysis & Discussion on Events, Grid Incidences, Grid Disturbances which occurred in NER Grid w.e.f 1st December 2018 – 30th June 2019.

The following numbers of Grid Disturbances (GD) & Grid Incidents (GI) occurred during the period **w.e.f 1st December 2018 – 30th June 2019**. List of grid disturbance & grid incidents for the period 01.12.18 to 30.06.19 is attached as ***Annexure B.11*** for discussion:

Sl. No.	Control Area	Grid Incidents in nos. (Jan'18 to Dec'18)	Grid Disturbance in nos. (Jan'18 to Dec'18)	Grid Incidents in nos. (Jan'19 to Jun'19)	Grid Disturbance in nos. (Jan'19 to Jun'19)
1	Palatana	14	1	3	2
2	AGBPP	31	0	22	0
3	AGTPP	34	2	31	2
4	Ranganadi	1	0	1	0
5	Kopili	15	1	3	0
6	Khandong	13	2	4	0
7	Doyang	2	2	0	0
8	Loktak	2	2	1	2
9	BgTPP	22	0	8	0
10	Pare	6	0	1	0
11	Arunachal Pradesh	-	47	-	30
12	Assam	-	31	-	9
13	Manipur	-	28	-	17
14	Meghalaya	-	9	-	4
15	Mizoram	-	21	-	17
16	Nagaland	-	59	-	22

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Sl. No.	Control Area	Grid Incidents in nos. (Jan'18 to Dec'18)	Grid Disturbance in nos. (Jan'18 to Dec'18)	Grid Incidents in nos. (Jan'19 to Jun'19)	Grid Disturbance in nos. (Jan'19 to Jun'19)
17	Tripura	-	36	-	12

Sl. No.	Category of GD / GI	Grid Disturbance in nos.	
		Jan'18 to Dec'18	Jan'19 to Jun'19
1	GI-I	69	38
2	GI-II	71	36
3	GD 1	209	101
4	GD 2	1	2
5	GD 3	1	0
6	GD 4	0	0
7	GD 5	0	2
8	Total GI	140	74
9	Total GD	211	105

NERLDC may please deliberate.

B.12 Protection related information for updating list of important grid elements of NER

- Details of Controlled Switching Devices in NER
- Lines where Tele-protection is available
- Details of LDP
- Details of offline fault locators

NERLDC may please deliberate.

C. I T E M S F O R STATUS REVIEW

c. 1. REMEDIAL ACTIONS RECOMMENDED IN 52nd PCCM:

The suggested measures with status as updated in the last Sub-group:

S N	Name of element	Actions to be taken	Concerned Utilities	Last updated status	Status as per 53 rd PCC

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					Meeting
1	133 kV Lekhi - Nirjuli Line	Checking of healthiness of Protection System (Relays, Circuit breaker, DC system etc.) of downstream substations	DoP, AP/NERTS/AEG CL	DoP AP informed that Protection system healthy. Coordination is required for 132kV Lekhi- Nirjuli-Gohpur- BNC. To be completed by Jan'19	
2	133 kV Agia - Medipathar I line and 132 kV Mawngap - Nongstoin I line	Checking of healthiness of Protection System (Relays, Circuit breaker, DC system etc) of downstream substations	MePTCL	Downstream co- ordination by Jan'19	
3	132 kV Kolasib- Badarpur line & 132 kV Kolasib- Aizwal line	Relay Coordination to be done at Kolasib & downstream substations of Kolasib by P&ED Mizoram.	P & ED Mizoram, NERTS	By 20.12.18	
4	132 kV AGTCCPP- Agartala	Over-reach of DPR at AGTCCPP. Setting to be revised after HTLS upgradation.	NEEPCO	#By Jan'19	
5	132 kV Rangia - Motonga	Checking of relay settings at Rangia	NERTS	**	

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6		POWERGRID to review over voltage setting at Mariani and Mokokchung SS and time grading may be provided.** Issue of non-tripping at AGBPP end of Mariani(PG)-AGBPP line & at Misa end of Mariani(PG)-Misa line are to be attended.	NERTS/NEEPCO	Carrier problem to be jointly checked by NERTS&NEEPCO . By Jan'19	
7	Blackout of 220 kV Mariani(PG) on 06.03.18	Z-2 overlapping of 220 kV Misa - Samaguri and 220 kV Samaguri -Sarusajai to be checked.	AEGCL/NERTS	AEGCL informed that settings were Checked and rectified. Forum requested NERTS to check the settings at Samaguri for confirmation	
8	Repeated trippings of 132kV Doyang-Mokokchung and 132kV Mokokchung-g-Mokokchung D/C	Timings at 132 kV Mokokchung(PG) and 132kV Doyang to be increased.	NERTS/NEEPCO	NERTS informed that settings at 132 kV Mokokchung (PG) has been increased. NEEPCO intimated that settings at Doyang will be revised by Dec'18.	
9	Tripping of 400kV Balipara-Bongaigaon-3 on 26.07.18	Maloperation of O/C relay at Bongaigaon	NERTS	Rectified B/U impedance relay and B/U relay replaced.	
10	Tripping of 220kV Misa-	SOTF operation while transferring from	AEGCL	Fault in voltage selection relay rectified by	

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	Samaguri-2 on 02.07.18	one bus to another (non- operation of changeover switch) at Samaguri.		AEGCL.	
11	Tripping of 132kV Bus- B at RHEP due to bus differential on 07.07.18	Bus bar protection to be configured in DR of all elements at RHEP.	NEEPCO	WIP by 14.12.18	
1 2	Frequent tripping of 220kV Misa-Killing D/C	Location to be identified for any flashover in each of the cases viz. 220kV Killing - Misa #II on 05.08.18, 18.08.2018 and 23.08.18 & 220kV Killing - Misa #I on 23.08.18,05.09.1 8	MePTCL	Patrolling completed. No flashover locations found. Subgroup suggested MePTCL to conduct tower top patrollin	
13		Tower footing resistance measurement to be done for the identified locations. Necessary corrective measures for improving of soil resistivity in line with soil reactivating chemical compound treatment as per IS or installation of TLA may be considered for vulnerable lines	MePTCL	Tower footing resistance submitted and found that the values are well within range.	

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14		Multiple tripping of 220kV Misa-Byrnihat D/C on 06.09.18 & 07.09.18. Suspected DC mixing during breaker testing of 220 kV Misa – Dimapur -1 line at Misa end to be checked by NERTS.	NERTS	. Action taken report is to be submitted by NERTS.	
15		A/R operation at Byrnihat to be checked for 220kV Misa-Byrnihat-I	MePTCL	Settings checked and found OK. 3-phase trip occurs for 1-ph fault due to which Reclose command not initiated. NERTS and MePTCL to jointly check at Byrnihat both A/R and carrier healthiness on 24.06.2019.	
16	Frequent tripping of 400kV Silchar-Azara 24.09, 15.10, 17.10 & 31.10	Tripping on 24.09.18 -Main-I(SIEMENS) relay non-operation at Silchar to be checked.	NERTS	Already rectified. To intimate the changes done at Silchar.	
17	Frequent tripping of 132kV Lumshnong - Panchgram* *	Tripping due to vegetation fault -06.08.18,07.08.18, 24.10.18,16.11.18. Fault location to be identified and Vegetation clearance to be done.	MePTCL/AEGCL	Patrolling done for the Assam section for 93 towers upto 55km from the Panchgram end. All clearances are perfect	

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18		Location to be identified for any flashover for tripping on 09.08.18, 15.08.18	MePTCL/AEGCL	No flashover locations found in Assam section.	
19	Aizawl blackout in Aug'18	Settings alongwith directionality of earth fault relay may be reviewed for 132kV P.K.Bari-Kumarghat at P.K.Bari.	TSECL	To be updated	
20	Tripping of 132kV Doyang-Dimapur D/C on 01.08.18, 16.08.18, 19.08.18	Tower top patrolling is to be carried out for identification of lightning prone areas.	NERTS	TLA installed in identified locations.	
21		Tower footing resistance measurement to be done for the identified locations.	NERTS	TLA installed in identified locations.	
22	Frequent tripping of 400kV Palatana-Silchar #II on 14.08.18, 19.08.18, 18.09.18, 06.10.18	Z-III reach to be checked at Palatana end	OTPC	Submitted. To be checked.	
23		Delayed fault clearance and non-operation of M-I at Silchar to be attended	NERTS	Completed. To intimate the exact findings and settings change done.	
24	Blackout of Ranganadi, Pare and Ar. Pradesh on 29.09.18	Delay in outage of filter bank after tripping of Pole to be investigated	NERTS	Referred to OEM	

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25	Tripping of 400kV Byrnihat-Bongaigaon on 25.09.18, 09.10.18, 16.11.18	Main-I & Main-II relay at Byrnihat channel standardization to be done.	MePTCL	NERLDC has assured to give sample format of DR to be implemented at Killing. Request to provide the same	
26		A/R non-operation to be checked at Byrnihat end.	MePTCL	Due to contact latching problem of main-I relay (Siemens). Joint visit by NERTS on 24.06.19.	
27		Tower top patrolling to be done and lightning location to be identified	NETC	identified	
28		Tower footing resistance measurement to be done for the identified locations. Necessary corrective measures for improving of soil resistivity in line with soil reactivating chemical compound treatment	NETC	Completed. NETC to submit report in this regard to NERPC/NERLDC	
29		Vegetation clearance to be done and patrolling report to be furnished	NETC	Vegetation clearance done. Report to be submitted.	

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30	Disturbance in Tripura System on 27.09.18	Tower top patrolling to be done, lightning location to be identified and tower footing resistance to be measured for 132kV AGTCCPP-Agartala D/C if required.	NERTS	Locations identified and Chemical Treatment to be done by Jul'19	
31		Relay settings and CT connection to be reviewed for 132kV Agartala - SMNagar D/C at Agartala.	TSECL	To be updated	
32		Carrier inter-trip to be implemented for 132kV Agartala-Budhjunagar immediately.	TSECL	To be updated	
33		DPR Settings to be reviewed for 132kV Palatana - SMNagar line at Palatana.	OTPC	Submitted. To be reviewed by Sub-group.	
34		Patrolling report to be submitted for 132kV Agartala-Budhjunagar line.	TSECL	To be updated	
35	Tripping of 400kV Bongaigaon-Alipurduar-2 on 25.09.18	Z-I over reaching of M-2 relay at Bongaigaon end of 400 kV Bongaigaon - Alipurduar 2 line to be	NERTS	NERTS to intimate settings change/modifications done.	

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		investigated			
36	Disturbance in Nagaland System on 19.09.18	Tower top patrolling to be done for 220kV Mariani-Mokokchung D/C.	NERTS	Exact RCA-jumper loosening 30km from Mariani. Will be rectified by June'19	
37	Tripping of 132kV Pare-Lekhi and Pare Units on 30.09.18	Vegetation clearance of 132 kV Pare – Lekhi line to be done	DoP Ar.Pradesh/NER TS	To be updated	
38	Repeated tripping of 132kV Ranganadi-Pare	Vegetation fault clearance to be done	DoP Ar.Pradesh	To be updated	
39	Tripping of 132kV Badarpur-Panchgram on 18.10.18, 27.10.18	Z-III timing to be checked at Badarpur end	NERTS	To be monitored for repeat incident	

Concerned utilities may please intimate the latest status.

C. 2 REMEDIAL ACTIONS SUGGESTED IN SUB-GROUP:

The suggested measures with status as updated in the last Sub-group:

S l. N o	Brief details of the disturbance/inci dence	Actions to be taken	Concerned Utilities	Last updated status	Status as per 53rd PCC Meeting
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1	Grid Disturbance in Kolasib Area of Mizoram due to tripping of 132kV Badarpur-Kolasib and 132kV Aizawl-Kolasib on 30.12.18	Exact fault location at downstream of Kolasib to be identified and Root Cause to be provided	P&ED Mizoram	Fault in 33kV line. relay coordination done.	
2		Protection co-ordination works i.r.o. Turial, Kolasib, Badarpur and Aizawl by Feb'19.	NERTS/NEEPCO /P&ED Mizoram	Kolasib Switchgear operation to be checked and the report to be submitted.	
3	Tripping of 400kV BNC-RHEP-2 on 11.12.18	DT sent/received to be configured in DR at both BNC&RHEP	NEEPCO/NERTS	RHEP-completed BNC - NERTS to intimate	
4	Tripping of 400kV Bongaigaon-Byrnihat on 08.12.18	Gas leakage in bus duct to be rectified	MePTCL	Offer yet to be received. By June'19	
5		DT send to be configured in DR at Byrnihat	MePTCL	Main-II completed Main-I: By June'19	
6	Tripping of 132kV RHEP-Ziro & 132kV Ziro-Daporizo on 04.01.19	O/C, E/F relay co-ordination for 132kV RHEP-Ziro at Ziro(PG) to be done with 132kV Ziro-Daporizo - By Feb'19	NERTS/DoP Ar.Pradesh	To be intimated	

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7	Grid disturbance in Imphal area due to tripping of 132kV Imphal-Imphal-D/C on 26.01.2019, 29.01.2019, 08.02.2019, 19.02.2019, 23.02.2019	Downstream fault. DR & detailed RCA with SLD to be submitted	MSPCL	>Instantaneous high set O/C at 132 kV Imphal(MSPCL) for 132 kV Imphal(PG) 1 & 2 lines to be disabled	
8	Grid Disturbance in capital area of Assam due to tripping of 220/132 kV, 100 MVA ICT I, II & III at Sarusajai and 132 kV Sarusajai-Sishugram 1 Line on 17.02.2019**	Carrier intertrip to be implemented for 132kV Sarusajai - Kamakhya	AEGCL	By June'19	
9	Grid Disturbance in Hailakandi area due to tripping of 132kV Silchar-Hailakandi D/C, 132kV Hailakandi-Panchgram and 132kV Durlavcherra-Hailakandi on 26.01.2019	DR/RCA to be submitted	AEGCL	->LBB triggered wrongfully from CB of 132kV Hailakandi-Panchgram at Hailakandi. Rectified.	
10	Grid Disturbance in Arunachal Pradesh due to tripping of 132kV RHEP-Ziro and 132kV Ziro-Daporizo line on 11.03.2019(two times)	Fault in 132kV Ziro-Daporizo. RCA to be submitted	DoP Ar.Pradesh	Fault in 132kV Ziro-Daporizo. RCA to be submitted	

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11	Grid Disturbance in Southern part of NER grid due to tripping of Monarchak GTG&STG on 14.03.2019	Reasons for tripping on over frequency to be intimated	NEEPCO	Reasons for tripping on over frequency to be intimated	
12	Grid Disturbance in Southern Part of NER grid due to tripping of 400kV Palatana-Silchar D/C on 03.04.2019##	Review of settings of negative sequence protection of GBC Motor at Monarchak	NEEPCO	Referred to OEM	
13		Conductor failure to be referred to OEM with sample	NETC	Report by June'19	
14		Thermo vision scanning of 132kV PKBari-Kamalpur-Dhalabil-Agartala & strengthening of jumpers	TSECL	To be informed	
15		Disable SoTF/TOR function of 132 kV Loktak – Jiribam Line at Loktak till correction of SOTF/TOR logic.	NHPC	To be updated	
	Multiple tripping of 132 kV Jiribam – Loktak line (18-01-2019 09:07:00, 19-01-2019 09:10:00 & 25-03-2019 14:31:00)				

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16	Disturbance in Meghalaya Power System at 21:03 Hrs on 16.01.19	Availability of Distance Protection in 132 kV Byrnihat to be intimated	MePTCL	Both the protection scheme for the 132 KV EPIP Line 1 & 2 at EPIP I & II will be installed & commissioned on the 24.06.2019. C&R panels, Switchgears etc will be commissioned.	
17		O/C E/F Relays at Khlieriat (MePTCL) to be made directional	MePTCL	MePTCL For Line 2 MePTCL has completed. For Line 1 Power Grid to be confirmed	
18		Details of separate O/V protection to be intimated.	NERTS	None	
19	Simultaneous tripping of 400 kV Azara - Bongaigaon Line & 400 kV Bongaigaon - Killing (Byrnihat) Line on 29-01-2019 10:40:00 Hrs	No conclusive finding from DR. Detailed RCA to be submitted	NETC	To be updated	
20	400 kV Balipara - Biswanath Chariali 1 Line on 23-02-2019 00:07:00 Hrs	Y Ph CVT Secondary voltage for all three cores needs to be checked physically at site by	NERTS	Completed. NERTS to submit test report of CVT secondary voltage	

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		NERTS at BNC and submission of testing report (CVT secondary voltage)			
21 ¹ .		Report regarding switching of filter bank before set power order of 750MW to be investigated.	NERTS	Referred to OEM	
22	400 kV Bongaigaon - Killing (Byrnihat) Line on 11-03-2019 13:37:00 Hrs	Vegetation fault as per DR and AR successful. But tripped in reclaim time. Report to be submitted	NETC	To be updated	
23	400 kV Bongaigaon - Killing (Byrnihat) Line on 26-03-2019 13:31:00	Root cause could not concluded from DR output. Report to be submitted	NETC	To be updated	
24	800 kV Biswanath Chariali - Agra 1 HVDC on 14-03-2019 09:05:00 Hrs	RCA to be submitted	NERTS	To be updated	

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25	400/ 220 kV, 315 MVA ICT 2 at BGTPP tripped on 15- 03-2019 00:11:00 Hrs	Settings of Line differential relay to be reviewed at both ends and testing of the relays to be done	AEGCL/NTPC	Shutdown date to be fixed. AEGCL and NTPC to jointly test	
26	220 kV Kopili - Misa 1& 2 Lines tripped on 17- 03-2019 12:49:00 Hrs	Carrier healthiness to be checked by Apr'19	NERTS	Carrier healthy	
27		Carrier sent and Receive channel is to be configured in DR at Kopili	NEEPCO	To be updated	
28	Tripping of 132kV Aizawl- Tipaimukh and 132kV Jiribam- Tipaimukh on 20.08.18	Relay coordinatio n amongst lines, ICT and downstrea m to be done	MSPCL	To be updated	
29		ICT winding to be repaired	MSPCL	Delayed due to bad road conditions	
30	Tripping of 132kV Aizawl- Tipaimukh on 31.03.19 &132kV Jiribam- Tipaimukh on 27.02.19	PLCC and carrier intertrip to be checked jointly by NERTS & MSPCL for Aizawl,Tipa	MSPCL/NERTS	By June'19	

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		imukh and Jiribam			
31	132kV Jiribam- Tipaimukh tripped on 24.02.2019	Gapless LA at Jiribam to be installed	NERTS	To be updated	
32	Frequent tripping of 132kV Loktak- Ningthoukong	E/F to be configured in DR at Ningthouko ng	MSPCL	To be updated	
33	Frequent tripping of 132kV Jiribam- Jiribam in Apr'19&May'19	B/U protection time setting to be increased at Jiribam(PG)	NERTS	To be updated	
34	132kV Aizawl- Tipaimukh & 132kV Jiribam- Tipaimukh tripped on 01.04.19	Loc No. for lightning fault and status of tower top patrolling to be informed	NERTS	To be updated	
35		Review of the E/F settings for 132kV Aizawl- Tipaimukh at Aizawl	NERTS	To be updated	
36	132kV Aizawl- Tipaimukh tripped on 31.03.19	Z-I settings to be reviewed at Aizawl	NERTS	To be updated	

Concerned utilities may please intimate the latest status.

C.3 Third Party Protection audit of NER Sub-Stations

In 51st PCCM, Director(O&P), NERPC updated the status of the third party protection audit. He informed that a comparative summary (detailing 2012-13 audit status &

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2017-18 audit) has been circulated to all the utilities, for updation of latest status and timeline. The forum requested all the utilities to submit the status and timeline for completion of suggested remedial actions by 31.08.2018.

The timeline given by various utilities for submission of compliance status (Third Party Audit + Tractabel Audit) is as below:

TSECL	To be submitted by 30.06.19
DoP Nagaland	By 15.01.19
NERTS-POWERGRID(Tractabel Audit)	To be submitted by 30.06.19
DoP Ar.Pradesh	By 15.01.19
NHPC	By 31.12.18
P&ED Mizoram	Not updated
NTPC	Not updated

Concerned utilities may please intimate the latest status.

C.4 Status review against recommendations for GD-IV & V in NER:

Brief details of the disturbance	Recommendations	Name of utility	Last updated status	Latest status
Grid Incidence on 05.12.18 affecting 800kV BNC HVDC and 4 other stations in NER	combine the existing TEED and Reactor Differential Protection Zone as well as replace the existing old differential relays by new Numerical Differential Relay.	NERTS	Dec'18	
	completion of ongoing construction of GIS bay for 400/220 kV ICT (220 kV side) at Bongaigaon as this will eliminate the requirement of Control Cables between the two stations	NERTS	Mar'19	

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	Incidents of station auxiliary DC earth faults shall be logged in the SCADA once the Auxiliary BCU is commissioned under ongoing NTAMC project.	NERTS	Jan'19	
	Review of BNC-APD-Agra Multi-terminal HVDC Pole protection philosophy	NERTS	Dec'18	
GD-V on 03.04.19 affecting southern part of NER & GD-V on 20.04.19 affecting southern part of NER and part of Assam, Meghalaya system	Review of negative phase sequence relay settings for GBC motor at Monarchak	NEEPCO	Settings send to BHEL. No reply yet. Expected by June'19	
	Identification of weak joints for 400kV Palatana-Silchar D/C	NERTS	Sample of failed conductor to be sent to the manufacturer by NETC for RCA as the conductor suffered mechanical breakage. There was no issue with joints.	

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Study for reactive compensation in Tripura System	TSECL	NERLDC informed that node wise MVAR data of 33 kV system is required to carry out the studies. TSECL informed that MVAR data at 33 kV level is not available at SLDC. Forum requested TSECL to monitor & record MVAR data at 33 kV nodes for 1 month and submit the data for study.	
Identification of feeders for additional UFR based load shedding under Islanding Scheme-II	TSECL	List attached at Annexure-C.4	
Standalone EL for integration of relay at AGTCPP by Oct'19	NEEPCO	AGTCCPP - Oct'19. Standalone EL at RHEP completed in June'19	
NHPC to procure standalone EL for Loktak HEP	NHPC	Dec'2020 because no budget provisions	
NERTS would explore options in consultation with OEM regarding time synchronization issues at Silchar	NERTS	Undergoing. Referred the case to OEM	

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Upon SPS-2 activation 132kV Bus Coupler Breaker to be opened at Palatana. Old scheme of opening of HV side CBs of ICTs to be disabled/removed	OTPC	Not implemented. OTPC informed that By Opening of Bus Coupler would lead to blackout of Palatana. To be discussed during visit of UFR Inspection team to Palatana.	
Revised SPS-3 scheme offer sought from GE by NERTS	NERTS	Technical offer Received from GE. Once technical clearance is given to GE, they will submit the commercial offer.	
Line defects in 400kV Silchar - Azara & 400kV Silchar-Byrnihat T/L to be attended	NETC	To be executed in the next shutdown	
Impedance measurement for 400kV Paltana-Silchar D/C, 400kV Silchar-Azara, 400kV Silchar - Byrnihat	NERTS	On opportunity	
Line parameters to be matched at Silchar, Azara and Byrnihat.	NERTS/ AEGCL/ MePTCL	To be informed	

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	Spare relay REL 670 to be installed at Byrnihat for 400kV Silchar-Byrnihat	MePTCL	S/d postponed. By June'19	
	NERTS and AEGCL to jointly visit Azara and check exact cause for delay in appearance of voltage input to relay when charged via Tie Breaker	NERTS/ AEGCL	To be informed	

Concerned utilities may please intimate the latest status.

C.5 Non-submission of DR outputs for the elements where two utilities are involved

It was decided in the earlier subgroup & PCC meetings that DR & EL outputs to be submitted by the substation owner where ever two utilities are involved. Status as discussed in Sub-group meeting on 13.06.19:

Sl . No.	Name of Substation	Name of Main Bay	Name of Bay Owner	Substation Owner	Status	Status as per 53rd PCC M
1	220/132 kV Kopili	132 kV Khandong 1 Bay	POWERGRID	NEEPCO	Agreed by NEEPCO. NERTS to provide software and give demonstration.	
		132 kV Khandong 2 Bay	POWERGRID			
2	132/33 kV Khandong	132 kV Kopili 2 Bay	POWERGRID			
		132 kV Khliehriat 2 Bay	POWERGRID			
3	220/132/66 /33 kV Mariani	220 kV Misa Bay	POWERGRID	AEGCL	Software not available. NERTS to provide software	

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		220 kV AGBPP Bay	POWERG RID		Software not available. NERTS to provide software	
4	220/132/33 kV Samaguri	220 kV Misa 1 Bay	POWERG RID		Subject to replacement of old bays	
		220 kV Misa 2 Bay	POWERG RID		Subject to replacement of old bays	
5	132/33 kV Gohpur	132 kV Nirjuli Bay	POWERG RID		Software not available. NERTS to provide software	
6	132/33 kV Panchgram	132 kV Badapur Bay	POWERG RID		Software not available. NERTS to provide software	
7	132/33 kV Srikona	132 kV Silchar 1 Bay	POWERG RID		Software not available. NERTS to provide software	
		132 kV Silchar 2 Bay	POWERG RID		Software not available. NERTS to provide software	
8	132/33 kV Rangia	132 kV Motonga Bay	POWERG RID		AEGCL to submit	
9	132/66/33 kV Kolasib	132 kV Aizawl (PG) Bay	POWERG RID	P&ED, Mizoram	Agreed to submit NERTS to visit Kolasib on 20.06.19	
		132 kV Badarpur(PG) Bay	POWERG RID			

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10	132/33/11 kV PK Bari	132 kV Silchar 1 Bay	POWERG RID	TSECL	Agreed to submit	
		132 kV Silchar 2 Bay	POWERG RID		Agreed to submit	
11	132/66/33 kV Mokokchung (DoP Nagaland)	132 kV Mokokchung (PG) 1 Bay	POWERG RID	DoP, Nagaland	Agreed to submit	
		132 kV Mokokchung (PG) 2 Bay	POWERG RID		Agreed to submit	
12	400/220/33 kV Balipara	132 kV Bhalukpung/K hupi Bay	NEEPCO	POWERG RID	Agreed to submit	

NERLDC/Concerned utilities may please update the status.

C.6 Frequent tripping & non-submission of DR output from 132 kV Rangia for 132 kV Motonga (now 132 kV Deothang) line

132 kV Rangia – Motonga line tripped 5 times in the month of Apr'19 and 1 time in the month of May'19.

Line configuration was changed to 132 kV Rangia – Deothang since 2nd Jun'19 and this line tripped 3 times after this.

Letters from NERLDC ref no: NERLDC/SO-II/446 dated 28.05.19 & ref no: NERLDC/SO-II/446 dated 28.05.19 are attached as Annexure-2.

No Disturbance Recorder, Event Logger & First Information Report received from either ends due to which proper analysis could not be done. In few of the events, over voltage & under voltage protection operation was reported from site.

As per email from AEGCL dated 10-Jun-19, DR channels are not standardized at Rangia and relay indication was reported observing the leds.

NERTS, POWERGRID is requested to please intimate root cause of these events and the action plan for attending issues at Rangia.

In Sub-group meeting on 13.06.19, Sr.DGM, NERTS informed that relay settings have been changed at Rangia. The DR output would be collected by AEGCL once the channel standardization is done by NERTS at Rangia. DR channel standardization would be done by Jul'19.

NERTS may please update the status.

Any other item:

Date and Venue of next PCC

It is proposed to hold the 54th PCC meeting of NERPC on second week of October, 2019. The date & exact venue will be intimated in due course.

Annexure-1

Status of submission of FIR and DR & EL outputs for the Grid Events w.e.f 01.12.18 to 30.06.19

SL_NO	ELEMENTNAME	TRANSOWNER	TRIPPING_DATE_TIME	SEND_FIR	SEND_DR	SEND_EL	REND_FIR	REND_DR	REND_EL
1	Palatana Unit GT-II	OTPC	01-12-2018 20:09:00	Yes	Yes	Yes	No	No	No
2	400 kV Balipara - Bongaigaon 3 Line	POWERGRID	05-12-2018 10:19:00	Yes	Yes	No	Yes	Yes	No
3	400 kV Balipara - Bongaigaon 1 Line	POWERGRID	05-12-2018 10:19:00	Yes	Yes	No	Yes	Yes	No
4	400 kV Balipara - Bongaigaon 2 Line	POWERGRID	05-12-2018 10:19:00	Yes	Yes	No	Yes	Yes	No
5	400 kV Balipara - Biswanath Chariali 1 Line	POWERGRID	05-12-2018 10:19:00	No	Yes	No	No	Yes	No
6	400 kV Balipara - Biswanath Chariali 2 Line	POWERGRID	05-12-2018 10:19:00	No	Yes	No	No	Yes	No
7	400 kV Balipara - Biswanath Chariali 3 Line	POWERGRID	05-12-2018 10:19:00	No	Yes	No	No	Yes	No
8	400 kV Balipara - Biswanath Chariali 4 Line	POWERGRID	05-12-2018 10:19:00	No	Yes	No	No	Yes	No
9	400 kV Biswanath Chariali - Ranganadi 1 Line	POWERGRID	05-12-2018 10:19:00	Yes	Yes	No	No	No	No
10	400 kV Balipara - Misa 1 Line	POWERGRID	05-12-2018 10:19:00	No	Yes	No	No	Yes	No
11	400 kV Balipara - Misa 2 Line	POWERGRID	05-12-2018 10:19:00	No	Yes	No	No	Yes	No
12	400 kV BgTTP - Bongaigaon 1 Line	POWERGRID	05-12-2018 10:19:00	No	No	No	Yes	Yes	No
13	400 kV BgTTP - Bongaigaon 2 Line	POWERGRID	05-12-2018 10:19:00	No	No	No	Yes	Yes	No
14	400 kV Azara - Bongaigaon Line	NETC & AEGCL	05-12-2018 10:19:00	No	Yes	No	No	Yes	No
15	400 kV Bongaigaon - Byrnihat Line	NETC & MePTCL	05-12-2018 10:19:00	No	Yes	No	No	No	No
16	400 kV Alipurduar - Bongaigaon 1 Line	ENICL	05-12-2018 10:19:00	No	No	No	No	Yes	No
17	400 kV Alipurduar - Bongaigaon 2 Line	ENICL	05-12-2018 10:19:00	No	No	No	No	Yes	No
18	400 kV New Siliguri - Bongaigaon 1 Line	POWERGRID	05-12-2018 10:19:00	No	No	No	No	Yes	No
19	400 kV New Siliguri - Bongaigaon 2 Line	POWERGRID	05-12-2018 10:19:00	No	No	No	No	Yes	No
20	50 MVAR, 400 kV Bus Reactor 2 at Bongaigaon	POWERGRID	05-12-2018 10:19:00	No	Yes	No	No	No	No
21	220 kV Mariani (PG) - Mokokchung (PG) 1 Line	POWERGRID	05-12-2018 10:19:00	Yes	Yes	No	Yes	Yes	No
22	220 kV Mariani (PG) - Mokokchung (PG) 2 Line	POWERGRID	05-12-2018 10:19:00	Yes	Yes	No	Yes	Yes	No
23	800 kV Agra - Biswanath Chariali Pole 1 Line	POWERGRID	05-12-2018 10:19:00	No	No	No	No	No	No
24	800 kV Agra - Biswanath Chariali Pole 2 Line	POWERGRID	05-12-2018 10:19:00	No	No	No	No	No	No
25	132 kV Balipara - Sonabil Line		05-12-2018 10:19:00	No	Yes	No	No	Yes	No
26	3x105 MVA, 400/220/33 kV ICT 1 at Balipara	POWERGRID	05-12-2018 10:19:00	No	Yes	No	No	No	No
27	160 MVA, 220/132 kV ICT 2 at Balipara	POWERGRID	05-12-2018 10:19:00	No	Yes	No	No	No	No
28	200 MVA, 400/132 kV ICT 1 at Biswanath Chariali	POWERGRID	05-12-2018 10:19:00	No	Yes	No	No	No	No
29	200 MVA, 400/132 kV ICT 2 at Biswanath Chariali	POWERGRID	05-12-2018 10:19:00	No	Yes	No	No	No	No
30	3x105 MVA, 400/220/33 kV ICT 1 at Misa	POWERGRID	05-12-2018 10:19:00	No	Yes	No	No	No	No
31	315 MVA, 400/220/33 kV ICT 2 at Misa	POWERGRID	05-12-2018 10:19:00	No	Yes	No	No	No	No
32	3x120 MVA, 400/132 kV ICT 1 at Ranganadi	NEEPCO	05-12-2018 10:19:00	No	No	No	No	No	No
33	3x120 MVA, 400/132 kV ICT 2 at Ranganadi	NEEPCO	05-12-2018 10:19:00	No	No	No	No	No	No
34	132 kV Dimapur - Doyang 1 Line	POWERGRID	05-12-2018 12:01:00	No	No	No	Yes	Yes	Yes
35	132 kV Dimapur - Doyang 2 Line	POWERGRID	05-12-2018 12:01:00	No	No	No	Yes	Yes	Yes
36	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	05-12-2018 12:01:00	No	No	No	No	No	No
37	132 kV Dimapur (PG) - Dimapur (DoP, Nagaland) 1 Line	DoP, Nagaland	05-12-2018 12:01:00	Yes	No	No	No	No	No
38	132 kV Dimapur (PG) - Dimapur (DoP, Nagaland) 2 Line	DoP, Nagaland	05-12-2018 12:01:00	No	No	No	No	No	No
39	132 kV Doyang - Mokokchung (DoP, Nagaland) Line	DoP, Nagaland	05-12-2018 12:01:00	Yes	Yes	Yes	No	No	No
40	132 kV Sarusajai - Umtru 1 Line	MePTCL	06-12-2018 13:07:00	No	No	No	No	No	No
41	132 kV Sarusajai - Umtru 2 Line	MePTCL	06-12-2018 13:07:00	No	No	No	No	No	No
42	400 kV Bongaigaon - Byrnihat Line	NETC & MePTCL	08-12-2018 23:00:00	No	Yes	No	No	No	No
43	BgTTP Unit 2	NTPC	09-12-2018 06:01:00	No	No	No	No	No	No
44	AGBPP Unit 1	NEEPCO	09-12-2018 09:40:00	Yes	Yes	Yes	No	No	No
45	AGBPP Unit 2	NEEPCO	09-12-2018 09:40:00	Yes	Yes	Yes	No	No	No
46	AGBPP Unit 4	NEEPCO	09-12-2018 09:40:00	Yes	Yes	Yes	No	No	No
47	AGBPP Unit 5	NEEPCO	09-12-2018 09:40:00	Yes	Yes	Yes	No	No	No
48	AGBPP Unit 7	NEEPCO	09-12-2018 09:40:00	Yes	Yes	Yes	No	No	No
49	AGBPP Unit 8	NEEPCO	09-12-2018 09:40:00	Yes	Yes	Yes	No	No	No
50	AGBPP Unit 9	NEEPCO	09-12-2018 09:40:00	Yes	Yes	Yes	No	No	No
51	400 kV Biswanath Chariali - Ranganadi 2 Line	POWERGRID	11-12-2018 11:25:00	Yes	Yes	No	No	Yes	No
52	400 kV Balipara - Bongaigaon 4 Line	POWERGRID	11-12-2018 11:56:00	Yes	Yes	No	Yes	Yes	No
53	400 kV Balipara - Bongaigaon 3 Line	POWERGRID	11-12-2018 12:46:00	Yes	Yes	No	Yes	Yes	No
54	132 kV Roing - Pasighat Line	POWERGRID	11-12-2018 12:53:00	Yes	No	No	No	No	No
55	132 kV Jiribam - Tipaimukh Line	POWERGRID & MSPCL	11-12-2018 14:37:00	Yes	Yes	No	No	No	No
56	400 kV Biswanath Chariali - Ranganadi 2 Line	POWERGRID	12-12-2018 13:40:00	Yes	Yes	No	Yes	No	No
57	315 MVA, 400/132 kV ICT 3 at Silchar	POWERGRID	15-12-2018 10:29:00	No	Yes	No	No	No	No
58	400 kV Palatana - Silchar 1 Line	NETC	18-12-2018 07:23:00	Yes	Yes	Yes	Yes	Yes	No
59	400 kV Balipara - Biswanath Chariali 2 Line	POWERGRID	18-12-2018 22:22:00	Yes	Yes	No	Yes	Yes	No
60	400 kV Balipara - Bongaigaon 3 Line	POWERGRID	18-12-2018 22:22:00	Yes	Yes	No	Yes	Yes	No
61	132 kV South Comilla (Bangladesh) - Surajmani Nagar 1 Line	POWERGRID & PGCB	19-12-2018 13:31:00	No	No	No	No	No	No
62	132 kV Doyang-Sanis Line	DoP, Nagaland	20-12-2018 17:35:00	Yes	Yes	Yes	No	No	No
63	Khandong Unit 2	NEEPCO	20-12-2018 22:37:00	No	No	No	No	No	No
64	132 kV AGTCCPP - Kumarghat Line	POWERGRID	21-12-2018 10:05:00	Yes	Yes	No	Yes	Yes	No
65	132 kV Kumarghat - P K Bari Line	TSECL	22-12-2018 02:47:00	Yes	Yes	No	No	No	No
66	132 kV Dharmanagar - P K Bari Line	TSECL	22-12-2018 02:47:00	No	No	No	No	No	No
67	132 kV Dharmanagar - Dullavcherra Line	AEGCL	22-12-2018 02:47:00	No	No	No	No	No	No
68	132 kV Agia - Mendipathar Line	MePTCL	22-12-2018 14:51:00	No	No	No	No	No	No
69	BgTTP Unit 2	NTPC	22-12-2018 16:54:00	No	No	No	No	No	No
70	315 MVA, 400/220/33 kV ICT 2 at Misa	POWERGRID	24-12-2018 09:13:00	Yes	Yes	No	No	No	No
71	132 kV Imphal - Silchar 1 Line	POWERGRID	26-12-2018 07:13:00	Yes	Yes	No	Yes	Yes	No
72	132 kV Loktak - Ningthoukhong Line	MSPCL	26-12-2018 07:13:00	No	No	No	Yes	No	No
73	132 kV Imphal (PG) - Loktak Line	POWERGRID	26-12-2018 07:13:00	Yes	Yes	No	Yes	Yes	No

Annexure-1

Status of submission of FIR and DR & EL outputs for the Grid Events w.e.f 01.12.18 to 30.06.19

SL_NO	ELEMENTNAME	TRANSOWNER	TRIPPING_DATE_TIME	SEND_FIR	SEND_DR	SEND_EL	REND_FIR	REND_DR	REND_EL
74	400 kV Imphal - Silchar 2 Line	POWERGRID	26-12-2018 07:13:00	Yes	Yes	No	Yes	Yes	No
75	Kopili Unit 1	NEEPCO	28-12-2018 06:17:00	No	No	No	No	No	No
76	132 kV Along - Pasighat	DoP, Arunachal Pradesh	28-12-2018 14:00:00	No	No	No	No	No	No
77	132 kV Balipara - Bhalukpong Line	NEEPCO & DoP, Arunachal Pradesh	28-12-2018 19:51:00	Yes	No	No	No	No	No
78	132 kV Badarpur - Kolasib Line	POWERGRID	30-12-2018 13:35:00	Yes	Yes	No	No	No	No
79	132 kV Aizawl - Kolasib Line	POWERGRID	30-12-2018 13:35:00	Yes	Yes	No	No	No	No
80	132 kV Motonga (Bhutan) - Rangia Line	POWERGRID	01-01-2019 05:50:00	No	No	No	No	No	No
81	132 kV Ranganadi - Ziro Line	POWERGRID	04-01-2019 14:35:00	Yes	Yes	Yes	Yes	No	No
82	Daporijo - Ziro		04-01-2019 14:35:00	No	No	No	Yes	No	No
83	200 MVA, 400/132 kV ICT 2 at Biswanath Chariali	POWERGRID	09-01-2019 16:04:00	Yes	Yes	No	No	No	No
84	132 kV Jiribam - Loktak 2 Line	POWERGRID	14-01-2019 11:59:00	Yes	Yes	Yes	No	Yes	No
85	400 kV Balipara - Misa 1 Line	POWERGRID	15-01-2019 13:05:00	Yes	No	No	No	Yes	Yes
86	800 kV Agra - Biswanath Chariali Pole 2 Line	POWERGRID	16-01-2019 10:53:00	No	No	No	No	No	No
87	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	16-01-2019 21:03:00	No	No	No	Yes	Yes	No
88	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	16-01-2019 21:03:00	No	No	No	Yes	Yes	No
89	132 kV EPIP II - Byrnihat 1 Line	MePTCL	16-01-2019 21:03:00	No	No	No	No	No	No
90	132 kV EPIP II - Byrnihat 2 Line	MePTCL	16-01-2019 21:03:00	No	No	No	No	No	No
91	132 kV EPIP I - Byrnihat 1 Line	MePTCL	16-01-2019 21:03:00	No	No	No	No	No	No
92	132 kV EPIP I - Byrnihat 2 Line	MePTCL	16-01-2019 21:03:00	No	No	No	No	No	No
93	BgTTP Unit 2	NTPC	17-01-2019 10:55:00	No	No	No	No	No	No
94	132 kV Dharmanagar - P K Bari Line	TSECL	17-01-2019 13:56:00	No	No	No	No	No	No
95	132 kV Dharmanagar - Dullavcherra Line	AEGCL	17-01-2019 13:56:00	No	No	No	No	No	No
96	132 kV Dullavcherra - Hailakandi Line	AEGCL	17-01-2019 13:56:00	No	No	No	No	No	No
97	400 kV Balipara - Bongaigaon 2 Line	POWERGRID	17-01-2019 14:05:00	Yes	Yes	Yes	Yes	Yes	Yes
98	132 kV Jiribam - Loktak 2 Line	POWERGRID	18-01-2019 09:07:00	Yes	No	No	No	Yes	No
99	132 kV Jiribam - Loktak 2 Line	POWERGRID	19-01-2019 09:10:00	No	Yes	No	No	No	No
100	132 kV Jiribam(PG) - Jiribam(MA) Line	MSPL	19-01-2019 09:10:00	No	Yes	No	No	No	No
101	132 kV Dimapur - Doyang 2 Line	POWERGRID	19-01-2019 12:23:00	Yes	Yes	Yes	Yes	Yes	Yes
102	132 kV Dimapur - Doyang 1 Line	POWERGRID	19-01-2019 12:23:00	No	No	No	Yes	Yes	Yes
103	132 kV Doyang - Mokochung (DoP, Nagaland) Line	DoP, Nagaland	19-01-2019 12:24:00	Yes	Yes	Yes	No	No	No
104	132 kV Doyang-Sanis Line	DoP, Nagaland	19-01-2019 12:24:00	Yes	Yes	Yes	No	No	No
105	132 kV Namsai-Tezu	POWERGRID	20-01-2019 01:31:00	Yes	Yes	No	Yes	Yes	No
106	132 kV Kumarghat - P K Bari Line	TSECL	21-01-2019 08:43:00	Yes	No	No	No	No	No
107	132 kV Dullavcherra - Hailakandi Line	AEGCL	21-01-2019 08:43:00	No	No	No	No	No	No
108	132 kV P K Bari - Silchar 1 Line	POWERGRID	21-01-2019 08:43:00	No	No	No	Yes	Yes	Yes
109	132 kV P K Bari - Silchar 2 Line	POWERGRID	21-01-2019 08:43:00	No	No	No	Yes	Yes	Yes
110	132 kV Ambasa - Gamaitila Line	TSECL	21-01-2019 08:43:00	No	No	No	No	No	No
111	132 kV Kamalpur - P K Bari Line	TSECL	21-01-2019 08:43:00	No	No	No	No	No	No
112	132 kV Kumarghat - P K Bari Line	TSECL	22-01-2019 07:20:00	Yes	No	No	No	No	No
113	132 kV Doyang-Sanis Line	DoP, Nagaland	22-01-2019 14:16:00	Yes	Yes	Yes	No	No	No
114	315 MVA, 400/220/33 kV ICT 2 at Azara	AEGCL	23-01-2019 11:00:00	No	Yes	No	No	No	No
115	132 kV Kahilipara - Kamalpur Line	AEGCL	23-01-2019 14:11:00	No	No	No	No	No	No
116	132 kV Imphal (MSPL) - Imphal (PG) 1 Line	POWERGRID	26-01-2019 05:37:00	No	No	No	No	Yes	No
117	132 kV Imphal (MSPL) - Imphal (PG) 2 Line	POWERGRID & MSPL	26-01-2019 05:37:00	No	No	No	No	Yes	No
118	50 MVA, 132/33 kV Transformer 1 at Imphal	POWERGRID	26-01-2019 12:04:00	Yes	No	No	No	No	No
119	50 MVA, 132/33 kV Transformer 2 at Imphal	POWERGRID	26-01-2019 12:04:00	Yes	No	No	No	No	No
120	132 kV Dullavcherra - Hailakandi Line	AEGCL	26-01-2019 13:23:00	No	No	No	No	No	No
121	132 kV Hailakandi - Panchgram Line	AEGCL	26-01-2019 13:23:00	No	No	No	No	No	No
122	132 kV Hailakandi - Silchar 1 Line	POWERGRID	26-01-2019 13:23:00	No	No	No	No	Yes	No
123	132 kV Hailakandi - Silchar 2 Line	POWERGRID	26-01-2019 13:23:00	No	No	No	No	Yes	No
124	132 kV Jiribam - Loktak 2 Line	POWERGRID	27-01-2019 14:06:00	Yes	No	No	Yes	Yes	No
125	132 kV Loktak - Ningthoukhong Line	MSPL	27-01-2019 14:06:00	No	No	No	Yes	No	No
126	400 kV Imphal - Silchar 1 Line	POWERGRID	27-01-2019 14:06:00	Yes	Yes	No	No	Yes	No
127	132 kV Yaingangpokpi - Kongba	MSPL	27-01-2019 14:06:00	Yes	No	No	Yes	No	No
128	400 kV Balipara - Misa 1 Line	POWERGRID	28-01-2019 13:33:00	Yes	Yes	Yes	Yes	Yes	Yes
129	400 kV Balipara - Bongaigaon 2 Line	POWERGRID	29-01-2019 05:02:00	Yes	Yes	Yes	Yes	Yes	Yes
130	400 kV Azara - Bongaigaon Line	NETC & AEGCL	29-01-2019 10:40:00	Yes	Yes	No	No	Yes	No
131	400 kV Bongaigaon - Byrnihat Line	NETC & MePTCL	29-01-2019 10:40:00	Yes	Yes	No	No	Yes	No
132	132 kV Ranganadi-Itanagar line	NEEPCO & DoP, Arunachal Pradesh	29-01-2019 12:48:00	Yes	Yes	No	No	No	No
133	132 kV Pare - Itanagar Line	NEEPCO & DoP, Arunachal Pradesh	29-01-2019 12:48:00	No	Yes	Yes	No	No	No
134	132 kV Silchar - Melriat 1 Line	POWERGRID	29-01-2019 15:58:00	Yes	Yes	Yes	Yes	Yes	No
135	132 kV Aizawl - Tipaimukh Line	POWERGRID & MSPL	29-01-2019 16:20:00	Yes	Yes	Yes	No	No	No
136	132 kV Imphal (MSPL) - Imphal (PG) 1 Line	POWERGRID	29-01-2019 17:43:00	No	No	No	Yes	Yes	No
137	132 kV Imphal (MSPL) - Imphal (PG) 2 Line	POWERGRID & MSPL	29-01-2019 17:43:00	No	No	No	Yes	Yes	No
138	400 kV Imphal - Silchar 2 Line	POWERGRID	29-01-2019 17:51:00	Yes	Yes	No	Yes	Yes	No
139	132 kV Roing - Pasighat Line	POWERGRID	30-01-2019 04:05:00	No	No	No	No	No	No
140	132 kV Imphal (PG) - Loktak Line	POWERGRID	01-02-2019 10:56:00	Yes	Yes	No	No	No	No
141	220 kV Misa - Samaguri 1 Line	POWERGRID	02-02-2019 18:50:00	Yes	No	No	No	No	No
142	Pare Unit 1	NEEPCO	03-02-2019 16:49:00	Yes	No	Yes	No	No	No
143	132 kV AGTCCPP - Kumarghat Line	POWERGRID	05-02-2019 16:44:00	Yes	Yes	No	Yes	Yes	Yes
144	132 kV Aizawl - Kolasib Line	POWERGRID	06-02-2019 11:15:00	Yes	Yes	No	No	No	No
145	800 kV Agra - Biswanath Chariali Pole 2 Line	POWERGRID	06-02-2019 11:54:00	No	No	No	No	No	No
146	132 kV Dimapur (PG) - Dimapur (DoP, Nagaland) 1 Line	DoP, Nagaland	08-02-2019 03:25:00	Yes	Yes	No	No	No	No
147	132 kV Imphal (MSPL) - Imphal (PG) 1 Line	POWERGRID	08-02-2019 18:25:00	No	No	No	Yes	Yes	Yes

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SL_NO	ELEMENTNAME	TRANSOWNER	TRIPPING_DATE_TIME	SEND_FIR	SEND_DR	SEND_EL	REND_FIR	REND_DR	REND_EL
148	132 kV Imphal (MSPCL) - Imphal (PG) 2 Line	POWERGRID & MSPCL	08-02-2019 18:25:00	No	No	No	Yes	Yes	Yes
149	220 kV Agia - Boko Line	AEGCL	08-02-2019 22:10:00	No	No	No	No	No	No
150	220 kV AGBPP - Mariani Line	POWERGRID	10-02-2019 01:08:00	No	Yes	Yes	No	No	No
151	AGBPP Unit 8	NEEPCO	11-02-2019 06:38:00	No	Yes	Yes	No	No	No
152	132 kV Aizawl - Kumarghat Line	POWERGRID	13-02-2019 13:10:00	Yes	Yes	Yes	Yes	Yes	Yes
153	132 kV Panchgram - Lumshnong Line	AEGCL & MePTCL	16-02-2019 11:06:00	No	No	No	No	No	No
154	400 kV Imphal - Silchar 1 line	POWERGRID	16-02-2019 13:52:00	Yes	Yes	Yes	Yes	Yes	Yes
155	400 kV Imphal - Silchar 1 line	POWERGRID	16-02-2019 13:52:00	No	No	No	No	No	No
156	400 kV Imphal - Silchar 1 line	POWERGRID	16-02-2019 16:03:00	Yes	Yes	Yes	Yes	Yes	Yes
157	132 kV Haflong (PG) -Haflong (AEGCL) Line	AEGCL	17-02-2019 08:40:00	Yes	Yes	No	No	No	No
158	132 kV Jiribam(PG) - Jiribam(MA) Line	MSPCL	17-02-2019 08:59:00	Yes	No	No	No	No	No
159	132 kV Aizawl - Kumarghat Line	POWERGRID	17-02-2019 09:52:00	Yes	Yes	Yes	Yes	Yes	Yes
160	132 kV Loktak - Ningthoukhong Line	MSPCL	17-02-2019 10:08:00	No	No	No	No	No	No
161	800 kV Agra - Biswanath Chariali Pole 2 Line	POWERGRID	17-02-2019 12:37:00	No	No	No	No	No	No
162	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	17-02-2019 13:12:00	Yes	Yes	No	No	No	No
163	132 kV Imphal (MSPCL) - Imphal (PG) 1 Line	POWERGRID	19-02-2019 13:45:00	No	No	No	Yes	Yes	Yes
164	132 kV Imphal (MSPCL) - Imphal (PG) 2 Line	POWERGRID & MSPCL	19-02-2019 13:45:00	No	No	No	Yes	Yes	Yes
165	220 kV AGBPP - Tinsukia 2 Line	AEGCL	19-02-2019 13:51:00	No	No	No	No	No	No
166	400 kV Balipara - Misa 1 Line	POWERGRID	20-02-2019 13:17:00	Yes	Yes	Yes	Yes	Yes	Yes
167	400 kV Balipara - Misa 2 Line	POWERGRID	20-02-2019 13:17:00	No	No	No	No	No	No
168	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	22-02-2019 12:26:00	Yes	Yes	No	No	No	No
169	400 kV Balipara - Biswanath Chariali 1 Line	POWERGRID	23-02-2019 00:07:00	Yes	Yes	Yes	Yes	Yes	Yes
170	132 kV Imphal (MSPCL) - Imphal (PG) 1 Line	POWERGRID	23-02-2019 19:39:00	No	No	No	Yes	Yes	No
171	132 kV Imphal (MSPCL) - Imphal (PG) 2 Line	POWERGRID & MSPCL	23-02-2019 19:39:00	No	No	No	Yes	No	No
172	132 kV Jiribam - Tipaimukh Line	POWERGRID & MSPCL	24-02-2019 03:22:00	Yes	Yes	Yes	No	No	No
173	AGBPP Unit 2	NEEPCO	24-02-2019 09:21:00	No	Yes	Yes	No	No	No
174	AGBPP Unit 4	NEEPCO	24-02-2019 09:21:00	No	Yes	Yes	No	No	No
175	AGBPP Unit 5	NEEPCO	24-02-2019 09:21:00	No	Yes	Yes	No	No	No
176	AGBPP Unit 8	NEEPCO	24-02-2019 09:21:00	No	Yes	Yes	No	No	No
177	132 kV Lekhi - Pare Line	DoP, Arunachal Pradesh & POWERGRID	24-02-2019 11:08:00	No	No	No	Yes	Yes	Yes
178	132 kV Lekhi - Nirjuli Line	DoP, Arunachal Pradesh & POWERGRID	24-02-2019 11:08:00	No	No	No	Yes	Yes	Yes
179	132 kV Jiribam - Pailapool Line	AEGCL & MSPCL	24-02-2019 11:15:00	No	No	No	No	No	No
180	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	24-02-2019 15:04:00	Yes	Yes	No	No	No	No
181	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	24-02-2019 15:21:00	Yes	Yes	No	No	No	No
182	AGTCCPP Unit 1	NEEPCO	25-02-2019 01:46:00	Yes	Yes	No	No	No	No
183	AGTCCPP Unit 2	NEEPCO	25-02-2019 01:46:00	Yes	Yes	No	No	No	No
184	AGTCCPP Unit 3	NEEPCO	25-02-2019 01:46:00	Yes	Yes	No	No	No	No
185	AGTCCPP Unit 5	NEEPCO	25-02-2019 01:46:00	Yes	Yes	No	No	No	No
186	AGTCCPP Unit 6	NEEPCO	25-02-2019 01:46:00	Yes	Yes	No	No	No	No
187	AGBPP Unit 2	NEEPCO	25-02-2019 03:44:00	No	Yes	Yes	No	No	No
188	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	25-02-2019 11:05:00	Yes	Yes	No	No	No	No
189	400 kV Imphal - Silchar 2 Line	POWERGRID	25-02-2019 11:21:00	Yes	Yes	No	Yes	Yes	Yes
190	400 kV New Siliguri- Bongaigaon 1 Line	POWERGRID	25-02-2019 12:44:00	No	No	No	No	No	No
191	132 kV Aizawl - Kumarghat Line	POWERGRID	26-02-2019 04:48:00	Yes	Yes	Yes	Yes	Yes	Yes
192	132 kV Badarpur - Kolasib Line	POWERGRID	26-02-2019 05:07:00	Yes	Yes	Yes	No	No	No
193	132 kV Loktak - Renggang Line	MSPCL	26-02-2019 05:15:00	No	No	No	No	No	No
194	132 kV Aizawl - Tipaimukh		26-02-2019 05:26:00	Yes	Yes	Yes	No	No	No
195	132 kV Badarpur - Kolasib Line	POWERGRID	26-02-2019 06:00:00	Yes	Yes	Yes	No	No	No
196	132 kV Pailapool - Srikona Line	AEGCL	26-02-2019 06:34:00	No	No	No	No	No	No
197	132 kV Doyang - Mokokchung (DoP, Nagaland) Line	DoP, Nagaland	26-02-2019 11:40:00	Yes	Yes	Yes	No	No	No
198	132 kV Namsai-Tezu	POWERGRID	26-02-2019 16:20:00	Yes	No	No	Yes	Yes	No
199	AGBPP Unit 6	NEEPCO	26-02-2019 17:27:00	Yes	Yes	Yes	No	No	No
200	132 kV Doyang-Sanis Line	DoP, Nagaland	27-02-2019 06:00:00	Yes	Yes	Yes	No	No	No
201	132 kV Doyang-Sanis Line	DoP, Nagaland	27-02-2019 06:23:00	Yes	Yes	Yes	No	No	No
202	132 kV Jiribam - Tipaimukh Line	POWERGRID & MSPCL	27-02-2019 11:18:00	Yes	Yes	Yes	No	No	No
203	132 kV Badarpur - Kolasib Line	POWERGRID	27-02-2019 11:19:00	Yes	Yes	Yes	No	No	No
204	132 kV Aizawl - Kolasib Line	POWERGRID	27-02-2019 11:19:00	Yes	Yes	Yes	No	No	No
205	AGTCCPP Unit 6	NEEPCO	27-02-2019 12:15:00	Yes	Yes	No	No	No	No
206	132 kV Kumarghat - P K Bari Line	TSECL	28-02-2019 15:36:00	No	No	No	No	No	No
207	132 kV Kumarghat - P K Bari Line	TSECL	28-02-2019 15:36:00	Yes	Yes	Yes	No	No	No
208	400 kV Alipurdwar - Bongaigaon 2 Line	ENICL	28-02-2019 20:25:00	No	No	No	No	Yes	No
209	AGTCCPP Unit 6	NEEPCO	28-02-2019 22:47:00	Yes	Yes	No	No	No	No
210	132 kV Lekhi - Pare Line	DoP, Arunachal Pradesh & POWERGRID	01-03-2019 09:30:00	No	No	No	Yes	Yes	Yes
211	AGTCCPP Unit 6	NEEPCO	02-03-2019 01:04:00	Yes	Yes	No	No	No	No
212	AGTCCPP Unit 1	NEEPCO	03-03-2019 05:56:00	Yes	Yes	No	No	No	No
213	AGTCCPP Unit 2	NEEPCO	04-03-2019 05:21:00	Yes	Yes	No	No	No	No
214	AGTCCPP Unit 1	NEEPCO	04-03-2019 06:32:00	Yes	Yes	No	No	No	No
215	AGTCCPP Unit 5	NEEPCO	04-03-2019 06:32:00	Yes	Yes	No	No	No	No
216	132 kV Loktak - Renggang Line	MSPCL	04-03-2019 13:20:00	No	No	No	No	No	No
217	400/132 kV, 315 MVA Imphal ICT I	POWERGRID	05-03-2019 11:18:00	Yes	Yes	Yes	No	Yes	Yes
218	220 kV Karbi Langpi - Sarusajai 2 Line	AEGCL	05-03-2019 20:23:00	No	No	No	No	No	No
219	132 kV Khandong - Kopili 2 Line	POWERGRID	06-03-2019 18:00:00	Yes	Yes	Yes	No	Yes	Yes
220	220 kV Mariani (PG) - Misa Line	POWERGRID	06-03-2019 20:49:00	Yes	Yes	Yes	Yes	Yes	Yes

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SL_NO	ELEMENTNAME	TRANSOWNER	TRIPPING_DATE_TIME	SEND_FIR	SEND_DR	SEND_EL	REND_FIR	REND_DR	REND_EL
221	132 kV Jiribam - Pailapool Line	AEGCL & MSPCL	08-03-2019 08:35:00	No	Yes	Yes	No	No	No
222	132 kV Haflong - Umranshu Line	AEGCL	09-03-2019 12:47:00	Yes	Yes	Yes	No	No	No
223	AGTCCPP Unit 2	NEEPCO	10-03-2019 06:23:00	Yes	Yes	No	No	No	No
224	AGTCCPP Unit 1	NEEPCO	10-03-2019 09:03:00	Yes	Yes	No	No	No	No
225	AGTCCPP Unit 1	NEEPCO	10-03-2019 13:03:00	Yes	Yes	No	No	No	No
226	Daporijo - Ziro		11-03-2019 10:20:00	No	No	No	No	No	No
227	132 kV Ranganadi - Ziro Line	POWERGRID	11-03-2019 10:20:00	No	No	No	No	No	No
228	132 kV Ranganadi - Ziro Line	POWERGRID	11-03-2019 11:52:00	No	No	No	Yes	No	No
229	Daporijo - Ziro		11-03-2019 11:52:00	No	No	No	No	No	No
230	132 kV Loktak - Rengpang Line	MSPCL	11-03-2019 12:47:00	No	No	No	No	No	No
231	400 kV Bongaigaon - Byrnihat Line	NETC & MePTCL	11-03-2019 13:37:00	Yes	Yes	Yes	Yes	Yes	Yes
232	AGTCCPP Unit 1	NEEPCO	11-03-2019 18:38:00	Yes	Yes	No	No	No	No
233	132 kV Kahilipara - Umtru 2	AEGCL & MePTCL	12-03-2019 16:02:00	No	No	No	Yes	No	No
234	132 kV Kahilipara - Umtru 1	AEGCL & MePTCL	12-03-2019 16:02:00	No	No	No	Yes	No	No
235	AGTCCPP Unit 1	NEEPCO	13-03-2019 05:57:00	Yes	Yes	No	No	No	No
236	Monarchak Unit GT	NEEPCO	13-03-2019 05:57:00	No	Yes	Yes	No	No	No
237	Monarchak Unit ST	NEEPCO	13-03-2019 05:57:00	No	Yes	Yes	No	No	No
238	132 kV Doyang-Sanis Line	DoP, Nagaland	13-03-2019 10:34:00	Yes	Yes	Yes	Yes	Yes	Yes
239	400 kV Balipara - Bongaigaon 2 Line	POWERGRID	14-03-2019 09:05:00	Yes	Yes	Yes	Yes	Yes	Yes
240	800 kV Agra - Biswanath Chariali Pole 1 Line	POWERGRID	14-03-2019 09:05:00	No	No	No	No	No	No
241	400 kV Balipara - Misa 2 Line	POWERGRID	14-03-2019 09:50:00	Yes	Yes	Yes	Yes	Yes	Yes
242	400 kV Balipara - Misa 2 Line	POWERGRID	14-03-2019 12:56:00	Yes	Yes	Yes	Yes	Yes	Yes
243	220 kV Mariani (PG) - Mokokchung (PG) 1 Line	POWERGRID	14-03-2019 13:13:00	Yes	Yes	Yes	Yes	Yes	Yes
244	315 MVA, 400/220/33 kV ICT 2 at BgTPP (NTPC)	NTPC	15-03-2019 00:11:00	No	No	No	No	No	No
245	160 MVA, 220/132 kV ICT 2 at BTPS	AEGCL	15-03-2019 00:11:00	No	No	No	No	No	No
246	Daporijo - Ziro		15-03-2019 11:47:00	No	No	No	No	No	No
247	400 kV Imphal - Silchar 1 line	POWERGRID	15-03-2019 12:01:00	Yes	Yes	Yes	Yes	Yes	Yes
248	132 kV Lekhi - Nirjuli Line	DoP, Arunachal Pradesh & POWERGRID	15-03-2019 15:25:00	No	No	No	Yes	Yes	No
249	132 kV Lekhi - Pare Line	DoP, Arunachal Pradesh & POWERGRID	15-03-2019 15:25:00	No	No	No	Yes	Yes	Yes
250	132 kV Dimapur - Doyang 1 Line	POWERGRID	16-03-2019 11:08:00	Yes	Yes	No	Yes	Yes	Yes
251	132 kV Dimapur - Doyang 2 Line	POWERGRID	16-03-2019 11:08:00	Yes	Yes	No	Yes	Yes	Yes
252	132 kV Jiribam - Loktak 2 Line	POWERGRID	16-03-2019 13:08:00	Yes	Yes	Yes	No	No	No
253	132 kV Jiribam - Pailapool Line	AEGCL & MSPCL	16-03-2019 13:08:00	No	Yes	Yes	No	No	No
254	132 kV Dimapur - Doyang 1 Line	POWERGRID	16-03-2019 15:49:00	Yes	Yes	Yes	Yes	Yes	Yes
255	220 kV Kopili - Misa 1 Line	POWERGRID	17-03-2019 12:49:00	Yes	Yes	Yes	Yes	Yes	Yes
256	220 kV Kopili - Misa 2 Line	POWERGRID	17-03-2019 12:52:00	Yes	Yes	Yes	Yes	Yes	Yes
257	132 kV Hailakandi - Panchgram Line	AEGCL	18-03-2019 15:58:00	No	No	No	No	No	No
258	132 kV Dimapur (PG) - Dimapur (DoP, Nagaland) 2 Line	DoP, Nagaland	19-03-2019 18:16:00	Yes	Yes	Yes	No	No	No
259	132 kV Dimapur - Doyang 2 Line	POWERGRID	20-03-2019 18:32:00	Yes	Yes	No	Yes	Yes	Yes
260	132 kV Badarpur - Kolasib Line	POWERGRID	22-03-2019 06:50:00	Yes	Yes	Yes	No	No	No
261	132 kV Haflong - Umranshu Line	AEGCL	22-03-2019 12:56:00	No	Yes	Yes	No	No	No
262	132 kV Aizawl - Kolasib Line	POWERGRID	22-03-2019 15:05:00	Yes	Yes	Yes	No	No	No
263	132 kV Badarpur - Kolasib Line	POWERGRID	22-03-2019 15:05:00	Yes	Yes	Yes	No	No	No
264	132 kV Aizawl - Kolasib Line	POWERGRID	22-03-2019 16:27:00	Yes	Yes	Yes	No	No	No
265	132 kV Silchar - Melriat 2 Line	POWERGRID	22-03-2019 20:38:00	Yes	Yes	No	Yes	Yes	No
266	132 kV Aizawl - Kolasib Line	POWERGRID	23-03-2019 00:23:00	Yes	Yes	Yes	No	No	No
267	132 kV Umiat St I - Umiat St III 1 Line	MePTCL	23-03-2019 19:30:00	No	No	No	No	No	No
268	132 kV Umiat St I - Umiat St III 2 Line	MePTCL	23-03-2019 19:30:00	No	No	No	No	No	No
269	AGBPP Unit 6	NEEPCO	24-03-2019 11:19:00	No	No	No	No	No	No
270	132 kV Jiribam - Loktak 2 Line	POWERGRID	25-03-2019 14:31:00	Yes	Yes	Yes	No	No	No
271	400 kV Imphal - Silchar 2 Line	POWERGRID	25-03-2019 14:31:00	Yes	Yes	Yes	Yes	Yes	Yes
272	220/132kV 160 MVA ICT-I at BTPS (AS)	AEGCL	25-03-2019 18:06:00	No	No	No	No	No	No
273	220/132kV 160 MVA ICT-II at BTPS (AS)	AEGCL	25-03-2019 18:06:00	No	No	No	No	No	No
274	400 kV Alipurduar - Bongaigaon 2 Line	ENICL	26-03-2019 10:16:00	No	No	No	No	Yes	Yes
275	220 kV Agia - BTPS 1 Line	AEGCL	26-03-2019 11:24:00	No	No	No	No	No	No
276	132 kV Motonga (Bhutan) - Rangia Line	POWERGRID	26-03-2019 13:10:00	No	No	No	No	No	No
277	400 kV Bongaigaon - Byrnihat Line	NETC & MePTCL	26-03-2019 13:11:00	No	Yes	Yes	Yes	Yes	Yes
278	132 kV Sarusajai - Umtru 1 Line	MePTCL	26-03-2019 13:30:00	No	No	No	No	No	Yes
279	132 kV Kahilipara - Umtru 1	AEGCL & MePTCL	26-03-2019 13:41:00	No	No	No	Yes	No	No
280	132 kV Kahilipara - Umtru 2	AEGCL & MePTCL	26-03-2019 13:41:00	No	No	No	Yes	No	No
281	132 kV Bhalukpong - Khupi Line	NEEPCO & DoP, Arunachal Pradesh	26-03-2019 15:08:00	No	No	No	No	No	No
282	132 kV Kahilipara - Umtru 1	AEGCL & MePTCL	26-03-2019 15:12:00	No	No	No	Yes	No	No
283	132 kV Kahilipara - Umtru 2	AEGCL & MePTCL	26-03-2019 15:12:00	No	No	No	Yes	No	No
284	132 kV Loktak - Ningthoukhong Line	MSPCL	27-03-2019 09:31:00	No	No	No	No	No	No
285	132 kV Aizawl - Kolasib Line	POWERGRID	27-03-2019 10:18:00	Yes	Yes	Yes	No	No	No
286	132 kV Badarpur - Kolasib Line	POWERGRID	27-03-2019 10:18:00	Yes	Yes	Yes	No	No	No
287	132 kV Aizawl - Melriat(PG) Line	POWERGRID	27-03-2019 10:18:00	Yes	Yes	Yes	No	Yes	No
288	220 kV Mariani (AEGCL) - Samaguri Line	AEGCL	27-03-2019 12:45:00	No	No	No	No	No	No
289	132 kV Dimapur (PG) - Dimapur (DoP, Nagaland) 1 Line	DoP, Nagaland	27-03-2019 15:35:00	Yes	Yes	No	No	No	No
290	132 kV Dimapur (PG) - Dimapur (DoP, Nagaland) 2 Line	DoP, Nagaland	27-03-2019 15:35:00	No	Yes	No	No	No	No
291	400 kV Byrnihat - Silchar Line	NETC & MePTCL	27-03-2019 17:38:00	Yes	Yes	Yes	No	Yes	No
292	132 kV Silchar - Melriat 1 Line	POWERGRID	27-03-2019 18:13:00	Yes	Yes	No	Yes	Yes	No
293	132 kV Aizawl - Kumarghat Line	POWERGRID	27-03-2019 20:48:00	Yes	Yes	Yes	Yes	Yes	Yes
294	132 kV Aizawl - Kumarghat Line	POWERGRID	29-03-2019 12:35:00	Yes	Yes	Yes	Yes	Yes	Yes

Annexure-1

Status of submission of FIR and DR & EL outputs for the Grid Events w.e.f 01.12.18 to 30.06.19

SL_NO	ELEMENTNAME	TRANSOWNER	TRIPPING_DATE_TIME	SEND_FIR	SEND_DR	SEND_EL	REND_FIR	REND_DR	REND_EL
295	400 kV Byrnhihat - Silchar Line	NETC & MePTCL	29-03-2019 13:57:00	Yes	Yes	Yes	No	Yes	Yes
296	132 kV Gohpur - Sonabil	AEGCL	30-03-2019 22:17:00	No	No	No	No	No	No
297	132 kV Motonga (Bhutan) - Rangia Line	POWERGRID	31-03-2019 00:06:00	No	No	No	No	No	No
298	400 kV Alipurduar - Bongaigaon 2 Line	ENICL	31-03-2019 08:53:00	No	No	No	No	Yes	No
299	220 kV Alipurduar - Salakati 2 Line	POWERGRID	31-03-2019 09:05:00	No	No	No	Yes	Yes	No
300	400 kV Balipara - Bongaigaon 2 Line	POWERGRID	31-03-2019 10:30:00	Yes	Yes	Yes	Yes	Yes	Yes
301	132 kV Lekhi - Pare Line	DoP, Arunachal Pradesh & POWERGRID	31-03-2019 12:00:00	No	No	No	Yes	Yes	Yes
302	132 kV Lekhi - Nirjuli Line	DoP, Arunachal Pradesh & POWERGRID	31-03-2019 12:00:00	No	No	No	Yes	Yes	Yes
303	400 kV Bongaigaon - Byrnhihat Line	NETC & MePTCL	31-03-2019 12:02:00	No	Yes	No	Yes	Yes	Yes
304	132 kV Aizawl - Kumarghat Line	POWERGRID	31-03-2019 12:25:00	Yes	Yes	Yes	Yes	Yes	Yes
305	132 kV Bhalukpong - Khupi Line	NEEPCO & DoP, Arunachal Pradesh	31-03-2019 13:23:00	No	No	No	No	No	No
306	132 kV AGTCCPP - Kumarghat Line	POWERGRID	31-03-2019 15:16:00	Yes	Yes	No	Yes	Yes	Yes
307	Daporijo - Ziro		31-03-2019 15:23:00	No	No	No	No	No	No
308	BgTPP Unit 3	NTPC	31-03-2019 15:31:00	No	No	No	No	No	No
309	AGTCCPP Unit 3	NEEPCO	31-03-2019 18:05:00	Yes	Yes	No	No	No	No
310	132 kV Badarpur - Kumarghat Line	POWERGRID	31-03-2019 18:13:00	No	No	No	No	No	No
311	132 kV Silchar - Melriat 2 Line	POWERGRID	31-03-2019 18:13:00	Yes	Yes	Yes	Yes	Yes	No
312	132 kV P K Bari - Silchar 1 Line	POWERGRID	31-03-2019 18:13:00	No	No	No	No	Yes	Yes
313	132 kV P K Bari - Silchar 2 Line	POWERGRID	31-03-2019 18:13:00	No	No	No	No	Yes	Yes
314	400 kV Palatana - Silchar 2 Line	NETC	31-03-2019 18:22:00	No	Yes	Yes	No	Yes	Yes
315	400 kV Palatana - Silchar 1 Line	NETC	31-03-2019 20:37:00	No	Yes	Yes	No	Yes	Yes
316	220 kV Samaguri - Sonabil 2 Line	AEGCL	31-03-2019 21:22:00	No	No	No	No	No	No
317	400 kV Palatana - Silchar 1 Line	NETC	31-03-2019 22:03:00	No	Yes	No	No	Yes	Yes
318	132 kV Aizawl - Tipaimukh		31-03-2019 22:39:00	Yes	Yes	Yes	No	No	No
319	400 kV Imphal - Silchar 2 Line	POWERGRID	01-04-2019 00:32:00	Yes	Yes	No	Yes	Yes	No
320	400 kV New Siliguri - Bongaigaon 1 Line	POWERGRID	01-04-2019 03:08:00	Yes	Yes	Yes	Yes	Yes	No
321	132 kV Agartala - Surajmaninagar 1 line	TSECL	01-04-2019 04:01:00	No	No	No	No	No	No
322	400 kV Balipara - Bongaigaon 1 Line	POWERGRID	01-04-2019 09:05:00	Yes	Yes	No	Yes	Yes	No
323	132 kV Aizawl - Tipaimukh		01-04-2019 13:37:00	Yes	Yes	No	No	No	No
324	132 kV Jiribam - Tipaimukh line	POWERGRID & MSPCL	01-04-2019 13:37:00	Yes	Yes	No	No	No	No
325	132 kV Jiribam - Pailapool Line	AEGCL & MSPCL	01-04-2019 13:40:00	Yes	Yes	No	No	No	No
326	400 kV Byrnhihat - Silchar Line	NETC & MePTCL	01-04-2019 22:29:00	Yes	Yes	No	Yes	Yes	No
327	132 kV Loktak - Ningthoukhong Line	MSPCL	01-04-2019 23:55:00	No	No	No	No	No	No
328	132 kV Loktak - Renggang Line	MSPCL	02-04-2019 00:45:00	No	No	No	No	No	No
329	132 kV Aizawl - Tipaimukh		02-04-2019 02:26:00	Yes	Yes	No	No	No	No
330	132 kV Loktak - Ningthoukhong Line	MSPCL	02-04-2019 04:19:00	No	No	No	No	No	No
331	132 kV Jiribam(PG) - Jiribam(MA) Line	MSPCL	02-04-2019 04:36:00	Yes	Yes	No	No	No	No
332	132 kV Kumarghat - P K Bari Line	TSECL	02-04-2019 13:48:00	Yes	Yes	No	No	No	No
333	132 kV Doyang-Sanis Line	DoP, Nagaland	02-04-2019 13:50:00	Yes	Yes	Yes	No	No	No
334	132 kV Silchar - Melriat 2 Line	POWERGRID	02-04-2019 14:19:00	Yes	Yes	No	Yes	Yes	No
335	132 kV Jiribam - Loktak 2 Line	POWERGRID	02-04-2019 14:26:00	Yes	No	Yes	No	Yes	No
336	132 kV Jiribam - Pailapool Line	AEGCL & MSPCL	02-04-2019 14:27:00	Yes	Yes	No	No	No	No
337	132 kV Doyang-Sanis Line	DoP, Nagaland	02-04-2019 14:28:00	Yes	Yes	Yes	No	No	No
338	132 kV Silchar - Melriat 2 Line	POWERGRID	02-04-2019 14:30:00	Yes	Yes	No	Yes	Yes	No
339	132 kV Ranganadi - Ziro Line	POWERGRID	02-04-2019 14:36:00	No	No	No	Yes	Yes	No
340	132 kV Imphal (PG) - Loktak Line	POWERGRID	02-04-2019 14:38:00	Yes	Yes	No	No	No	No
341	132 kV Jiribam - Loktak 2 Line	POWERGRID	02-04-2019 14:47:00	Yes	No	Yes	No	Yes	No
342	132 kV Jiribam - Loktak 2 Line	POWERGRID	02-04-2019 15:00:00	Yes	Yes	Yes	No	Yes	No
343	132 kV Loktak - Ningthoukhong Line	MSPCL	02-04-2019 15:15:00	No	No	No	No	No	No
344	132 kV Jiribam - Pailapool Line	AEGCL & MSPCL	02-04-2019 15:23:00	Yes	Yes	No	No	No	No
345	132 kV Imphal (PG) - Loktak Line	POWERGRID	02-04-2019 15:23:00	Yes	Yes	Yes	No	No	No
346	132 kV Dharmanagar - Dullavcherra Line	AEGCL	02-04-2019 15:42:00	No	No	No	No	No	No
347	400 kV Imphal - Silchar 2 Line	POWERGRID	02-04-2019 15:42:00	Yes	Yes	No	Yes	Yes	No
348	400 kV Imphal - Silchar 2 Line	POWERGRID	02-04-2019 17:26:00	Yes	Yes	No	Yes	Yes	No
349	Khandong Unit 2	NEEPCO	02-04-2019 17:44:00	No	No	No	No	No	No
350	AGTCCPP Unit 3	NEEPCO	02-04-2019 18:14:00	Yes	Yes	No	No	No	No
351	800 kV Agra - Biswanath Chariali Pole 2 Line	POWERGRID	02-04-2019 19:20:00	Yes	Yes	No	Yes	Yes	No
352	132 kV Dharmanagar - Dullavcherra Line	AEGCL	02-04-2019 19:35:00	No	No	No	No	No	No
353	Pare Unit 2	NEEPCO	02-04-2019 19:40:00	No	No	No	No	No	No
354	220 kV Balipara - Sonabil 1 line	AEGCL	02-04-2019 19:40:00	Yes	Yes	No	No	No	No
355	132 kV Lekhi - Pare Line	DoP, Arunachal Pradesh & POWERGRID	02-04-2019 21:07:00	No	No	No	Yes	Yes	Yes
356	132 kV Lekhi - Nirjuli Line	DoP, Arunachal Pradesh & POWERGRID	02-04-2019 21:07:00	No	No	No	Yes	Yes	No
357	132 kV Motonga (Bhutan) - Rangia Line	POWERGRID	03-04-2019 07:45:00	No	No	No	No	No	No
358	132 kV Motonga (Bhutan) - Rangia Line	POWERGRID	03-04-2019 12:00:00	No	No	No	No	No	No
359	400 kV Palatana - Silchar 2 Line	NETC	03-04-2019 16:01:00	Yes	Yes	Yes	Yes	Yes	No
360	132 kV AGTCCPP - Kumarghat Line	POWERGRID	03-04-2019 16:01:00	Yes	Yes	No	Yes	Yes	No
361	132 kV Badarpur - Panchgram Line	POWERGRID	03-04-2019 16:01:00	Yes	Yes	No	No	No	No
362	132 kV Silchar - Srikona 1 Line	POWERGRID	03-04-2019 16:01:00	Yes	Yes	No	No	No	No
363	132 kV AGTCCPP - Kumarghat Line	POWERGRID	03-04-2019 17:20:00	No	No	No	Yes	Yes	No
364	220 kV AGBPP - Mariani(PG) Line	POWERGRID	04-04-2019 04:20:00	No	No	No	Yes	Yes	No
365	132 kV Motonga (Bhutan) - Rangia Line	POWERGRID	04-04-2019 21:05:00	No	No	No	No	No	No
366	132 kV Biswanath Chariali - Pavoi 1 Line	POWERGRID	04-04-2019 23:24:00	Yes	Yes	No	No	No	No
367	132 kV Biswanath Chariali - Pavoi 2 Line	POWERGRID	04-04-2019 23:24:00	Yes	Yes	No	No	No	No
368	132 kV Lekhi - Nirjuli Line	DoP, Arunachal Pradesh & POWERGRID	04-04-2019 23:30:00	No	No	No	Yes	Yes	No
369	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	05-04-2019 12:19:00	No	Yes	No	Yes	No	No

Annexure-1

Status of submission of FIR and DR & EL outputs for the Grid Events w.e.f 01.12.18 to 30.06.19

SL_NO	ELEMENTNAME	TRANSOWNER	TRIPPING_DATE_TIME	SEND_FIR	SEND_DR	SEND_EL	REND_FIR	REND_DR	REND_EL
370	220 kV Agia - Azara Line	AEGCL	05-04-2019 12:48:00	No	No	No	No	No	No
371	132 kV Lekhi - Nirjuli Line	DoP, Arunachal Pradesh & POWERGRID	05-04-2019 23:30:00	No	No	No	Yes	Yes	No
372	132 kV Gelyphu (Bhutan) - Salakati Line	POWERGRID	06-04-2019 02:55:00	No	No	No	Yes	Yes	No
373	400 kV Byrnihat - Silchar Line	NETC & MePTCL	06-04-2019 09:21:00	No	Yes	No	Yes	Yes	No
374	3x120 MVA, 400/132 kV ICT 2 at Ranganadi	NEEPCO	06-04-2019 17:09:00	No	No	No	No	No	No
375	132 kV Doyang - Mokokchung (DoP, Nagaland) Line	DoP, Nagaland	06-04-2019 20:08:00	Yes	Yes	Yes	No	No	No
376	132 kV Dimapur - Doyang 2 Line	POWERGRID	06-04-2019 20:08:00	Yes	No	No	Yes	Yes	Yes
377	132 kV Mokokchung (PG) - Mokokchung (DoP, Nagaland) 1 Line	POWERGRID	06-04-2019 20:12:00	Yes	Yes	No	No	No	No
378	132 kV Mokokchung (PG) - Mokokchung (DoP, Nagaland) 2 Line	POWERGRID	06-04-2019 20:12:00	Yes	Yes	No	No	No	No
379	400 kV Byrnihat - Silchar Line	NETC & MePTCL	07-04-2019 02:25:00	No	No	No	Yes	Yes	No
380	132 kV Aizawl - Kumarghat Line	POWERGRID	08-04-2019 05:52:00	Yes	Yes	No	Yes	Yes	No
381	132 kV Kumarghat - P K Bari Line	TSECL	08-04-2019 12:55:00	Yes	Yes	No	No	No	No
382	132 kV Badarpur - Jiribam Line	POWERGRID	08-04-2019 14:19:00	Yes	Yes	Yes	Yes	Yes	Yes
383	132 kV Jiribam - Loktak 2 Line	POWERGRID	08-04-2019 14:19:00	Yes	Yes	Yes	No	No	No
384	132 kV Jiribam - Pailapool Line	AEGCL & MSPCL	08-04-2019 14:20:00	Yes	No	No	No	No	No
385	400 kV Imphal - Silchar 1 line	POWERGRID	08-04-2019 14:42:00	Yes	Yes	No	Yes	Yes	No
386	400 kV Imphal - Silchar 2 Line	POWERGRID	08-04-2019 14:47:00	Yes	Yes	No	Yes	Yes	No
387	400 kV Imphal - Silchar 2 Line	POWERGRID	08-04-2019 15:30:00	Yes	Yes	No	Yes	Yes	No
388	132 kV Aizawl - Kolasib Line	POWERGRID	09-04-2019 11:40:00	Yes	Yes	No	No	No	No
389	132 kV Badarpur - Kolasib Line	POWERGRID	09-04-2019 11:40:00	Yes	Yes	No	No	No	No
390	132 kV Jiribam(PG) - Jiribam(MA) Line	MSPCL	09-04-2019 14:10:00	Yes	Yes	No	No	No	No
391	AGBPP Unit 6	NEEPCO	09-04-2019 16:10:00	No	No	No	No	No	No
392	132 kV Imphal (MSPCL) - Imphal (PG) 2 Line	POWERGRID & MSPCL	09-04-2019 16:53:00	No	No	No	Yes	No	No
393	3x105 MVA, 400/220/33 kV ICT 1 at Bongaigaon	POWERGRID	10-04-2019 12:50:00	Yes	No	No	No	No	No
394	220 kV Bongaigaon (PG) - Salakati (PG) 2 Line	POWERGRID	10-04-2019 12:50:00	Yes	No	No	Yes	No	No
395	AGBPP Unit 7	NEEPCO	10-04-2019 14:33:00	No	No	No	No	No	No
396	132 kV Jiribam(PG) - Jiribam(MA) Line	MSPCL	12-04-2019 12:05:00	Yes	No	No	No	No	No
397	132 kV Jiribam - Pailapool Line	AEGCL & MSPCL	12-04-2019 12:09:00	Yes	Yes	No	No	No	No
398	132 kV Panchgram - Lumshnong Line	AEGCL & MePTCL	12-04-2019 12:09:00	No	No	No	No	No	No
399	132 kV Badarpur - Panchgram Line	POWERGRID	12-04-2019 12:09:00	Yes	Yes	No	No	No	No
400	132 kV Jiribam(PG) - Jiribam(MA) Line	MSPCL	13-04-2019 01:05:00	Yes	No	No	No	No	No
401	132 kV Jiribam(PG) - Jiribam(MA) Line	MSPCL	13-04-2019 09:30:00	Yes	No	No	No	No	No
402	132 kV Loktak - Renggang Line	MSPCL	13-04-2019 13:50:00	No	No	No	No	No	No
403	132 kV Badarpur - Kolasib Line	POWERGRID	13-04-2019 14:39:00	Yes	Yes	No	No	No	No
404	132 kV Aizawl - Kolasib Line	POWERGRID	13-04-2019 14:39:00	Yes	No	Yes	No	No	No
405	3x120 MVA, 400/132 kV ICT 2 at Ranganadi	NEEPCO	13-04-2019 15:14:00	Yes	Yes	Yes	No	No	No
406	132 kV Doyang-Sanis Line	DoP, Nagaland	13-04-2019 15:50:00	Yes	Yes	Yes	No	No	No
407	132 kV Loktak - Ningthoukhong Line	MSPCL	13-04-2019 18:21:00	No	No	No	No	No	No
408	AGTCCPP Unit 2	NEEPCO	13-04-2019 20:03:00	Yes	No	No	No	No	No
409	132 kV Dimapur - Doyang 1 Line	POWERGRID	13-04-2019 22:03:00	Yes	Yes	No	Yes	Yes	Yes
410	220 kV Byrnihat - Misa 2 Line	MePTCL	13-04-2019 22:15:00	No	No	No	Yes	Yes	No
411	132 kV Motonga (Bhutan) - Rangia Line	POWERGRID	14-04-2019 08:29:00	No	No	No	No	No	No
412	132 kV Motonga (Bhutan) - Rangia Line	POWERGRID	14-04-2019 09:43:00	No	No	No	No	No	No
413	132 kV Loktak - Ningthoukhong Line	MSPCL	14-04-2019 14:13:00	No	No	No	No	No	No
414	132 kV Ranganadi - Ziro Line	POWERGRID	14-04-2019 15:52:00	Yes	No	No	Yes	No	No
415	220 kV Mariani (PG) - Mokokchung (PG) 1 Line	POWERGRID	15-04-2019 03:39:00	Yes	Yes	Yes	Yes	Yes	No
416	400 kV Bongaigaon - Byrnihat Line	NETC & MePTCL	15-04-2019 05:40:00	Yes	Yes	Yes	No	Yes	No
417	132 kV Panchgram - Lumshnong Line	AEGCL & MePTCL	15-04-2019 08:16:00	No	No	No	No	Yes	No
418	132 kV P K Bari - Silchar 1 Line	POWERGRID	15-04-2019 08:37:00	No	No	No	Yes	Yes	No
419	132 kV Aizawl - Kolasib Line	POWERGRID	15-04-2019 08:57:00	Yes	Yes	Yes	No	No	No
420	132 kV Badarpur - Kolasib Line	POWERGRID	15-04-2019 08:57:00	Yes	Yes	Yes	No	No	No
421	400 kV Imphal - Silchar 2 Line	POWERGRID	15-04-2019 09:17:00	Yes	Yes	No	Yes	Yes	Yes
422	132 kV Jiribam - Loktak 2 Line	POWERGRID	15-04-2019 09:19:00	Yes	Yes	Yes	No	No	No
423	400 kV Imphal - Silchar 1 line	POWERGRID	15-04-2019 09:19:00	Yes	Yes	No	Yes	Yes	Yes
424	132 kV Loktak - Renggang Line	MSPCL	15-04-2019 09:32:00	No	No	No	No	No	No
425	132 kV Jiribam - Loktak 2 Line	POWERGRID	15-04-2019 09:39:00	Yes	Yes	Yes	No	No	No
426	132 kV Imphal (MSPCL) - Imphal (PG) 1 Line	POWERGRID	15-04-2019 10:03:00	No	No	No	Yes	No	No
427	132 kV Doyang-Sanis Line	DoP, Nagaland	16-04-2019 10:29:00	Yes	Yes	Yes	No	No	No
428	220 kV Mariani (PG) - Mokokchung (PG) 1 Line	POWERGRID	16-04-2019 11:30:00	Yes	Yes	Yes	Yes	Yes	No
429	220 kV Mariani (PG) - Mokokchung (PG) 2 Line	POWERGRID	16-04-2019 11:30:00	Yes	Yes	Yes	Yes	Yes	No
430	132 kV Mokokchung (PG) - Mokokchung (DoP, Nagaland) 2 Line	POWERGRID	16-04-2019 11:30:00	Yes	No	No	No	No	No
431	132 kV Doyang - Mokokchung (DoP, Nagaland) Line	DoP, Nagaland	16-04-2019 11:30:00	Yes	Yes	Yes	No	No	No
432	132 kV Mokokchung (PG) - Mokokchung (DoP, Nagaland) 1 Line	POWERGRID	16-04-2019 11:30:00	Yes	No	No	No	No	No
433	Loktak Unit 2	NHPC	16-04-2019 12:12:00	No	No	No	No	No	No
434	Loktak Unit 3	NHPC	16-04-2019 14:02:00	No	No	No	No	No	No
435	400 kV Alipurduar - Bongaigaon 2 Line	ENICL	17-04-2019 00:31:00	Yes	Yes	No	Yes	Yes	No
436	400 kV Bongaigaon - Byrnihat Line	NETC & MePTCL	17-04-2019 01:20:00	Yes	Yes	No	No	No	No
437	220 kV Agia - BTPS 2 Line	AEGCL	17-04-2019 01:31:00	No	No	No	No	No	No
438	400 kV Byrnihat - Silchar Line	NETC & MePTCL	17-04-2019 02:50:00	No	No	No	Yes	Yes	Yes
439	132 kV Khandong - Khliehriat 2 Line	POWERGRID	17-04-2019 04:32:00	No	No	No	Yes	Yes	Yes
440	132 kV Khliehriat - Badarpur Line	POWERGRID	17-04-2019 05:01:00	Yes	Yes	No	Yes	Yes	Yes

Annexure-1

Status of submission of FIR and DR & EL outputs for the Grid Events w.e.f 01.12.18 to 30.06.19

SL_NO	ELEMENTNAME	TRANSOWNER	TRIPPING_DATE_TIME	SEND_FIR	SEND_DR	SEND_EL	REND_FIR	REND_DR	REND_EL
441	132 kV Pamchgram - Lumshnong Line		17-04-2019 05:01:00	No	No	No	No	No	No
442	132 kV Khandong - Khliehriat 1 Line	POWERGRID	17-04-2019 05:15:00	No	No	No	Yes	Yes	Yes
443	400 kV Imphal - Silchar 1 Line	POWERGRID	17-04-2019 05:28:00	Yes	Yes	Yes	Yes	Yes	Yes
444	132 kV Doyang-Sanis Line	DoP, Nagaland	17-04-2019 05:34:00	Yes	Yes	Yes	No	No	No
445	132 kV Loktak - Ningthoukhong Line	MSPCL	17-04-2019 06:11:00	No	No	No	No	No	No
446	132 kV Imphal (MSPCL) - Imphal (PG) 2 Line	POWERGRID & MSPCL	17-04-2019 06:35:00	No	No	No	Yes	No	No
447	132 kV Imphal (MSPCL) - Imphal (PG) 1 Line	POWERGRID	17-04-2019 06:35:00	No	No	No	Yes	No	No
448	220 kV Samaguri - Sonabil 2 Line	AEGCL	18-04-2019 03:33:00	No	No	No	No	No	No
449	132 kV Silchar - Srikona 1 Line	POWERGRID	19-04-2019 16:24:00	Yes	Yes	Yes	No	No	No
450	132 kV Silchar - Srikona 2 Line	POWERGRID	19-04-2019 16:24:00	Yes	Yes	Yes	No	No	No
451	132 kV Badarpur - Silchar 1 Line	POWERGRID	19-04-2019 16:24:00	Yes	No	No	Yes	Yes	Yes
452	132 kV Badarpur - Silchar 2 Line	POWERGRID	19-04-2019 16:24:00	Yes	No	No	Yes	Yes	Yes
453	132 kV Hailakandi - Silchar 1 Line	POWERGRID	19-04-2019 16:24:00	No	No	No	Yes	Yes	Yes
454	132 kV Hailakandi - Silchar 2 Line	POWERGRID	19-04-2019 16:24:00	No	No	No	Yes	Yes	Yes
455	132 kV Silchar - Melriat 2 Line	POWERGRID	19-04-2019 16:24:00	Yes	Yes	Yes	Yes	No	No
456	132 kV P K Bari - Silchar 1 Line	POWERGRID	19-04-2019 16:24:00	No	No	No	Yes	Yes	Yes
457	132 kV P K Bari - Silchar 2 Line	POWERGRID	19-04-2019 16:24:00	No	No	Yes	Yes	Yes	Yes
458	200 MVA, 400/132 kV ICT 1 at Silchar	POWERGRID	19-04-2019 16:24:00	Yes	Yes	Yes	No	No	No
459	200 MVA, 400/132 kV ICT 2 at Silchar	POWERGRID	19-04-2019 16:24:00	Yes	Yes	Yes	No	No	No
460	315 MVA, 400/132 kV ICT 3 at Silchar	POWERGRID	19-04-2019 16:24:00	Yes	No	Yes	No	No	No
461	AGTCCPP Unit 1	NEEPCO	19-04-2019 18:15:00	No	No	No	No	No	No
462	132 kV EPIP II - Byrnihat 1 Line	MePTCL	20-04-2019 11:50:00	No	No	No	No	Yes	No
463	Loktak Unit 3	NHPC	20-04-2019 11:50:00	No	No	No	No	No	No
464	Palatana Unit GT-I	OTPC	20-04-2019 11:50:00	Yes	Yes	Yes	No	No	No
465	Palatana Unit ST-I	OTPC	20-04-2019 11:50:00	Yes	Yes	Yes	No	No	No
466	AGTCCPP Unit 2	NEEPCO	20-04-2019 11:50:00	No	No	No	No	No	No
467	AGTCCPP Unit 3	NEEPCO	20-04-2019 11:50:00	No	No	No	No	No	No
468	AGTCCPP Unit 5	NEEPCO	20-04-2019 11:50:00	No	No	No	No	No	No
469	AGTCCPP Unit 6	NEEPCO	20-04-2019 11:50:00	No	No	No	No	No	No
470	Palatana Unit GT-II	OTPC	20-04-2019 11:50:00	Yes	Yes	Yes	No	No	No
471	Palatana Unit ST-II	OTPC	20-04-2019 11:50:00	Yes	Yes	Yes	No	No	No
472	400 kV Azara - Silchar Line	NETC & AEGCL	20-04-2019 11:50:00	No	No	No	Yes	Yes	Yes
473	400 kV Byrnihat - Silchar Line	NETC & MePTCL	20-04-2019 11:50:00	No	Yes	Yes	Yes	Yes	Yes
474	400 kV Palatana - Silchar 1 Line	NETC	20-04-2019 11:50:00	Yes	Yes	Yes	Yes	Yes	Yes
475	400 kV Palatana - Silchar 2 Line	NETC	20-04-2019 11:50:00	Yes	Yes	Yes	Yes	Yes	Yes
476	132 kV EPIP II - Byrnihat 2 Line	MePTCL	20-04-2019 11:50:00	No	No	No	No	Yes	No
477	132 kV Balipara - Bhalukpong Line	NEEPCO & DoP, Arunachal Pradesh	20-04-2019 14:58:00	Yes	No	No	No	No	No
478	132 kV Ranganadi-Itanagar line	NEEPCO & DoP, Arunachal Pradesh	20-04-2019 19:28:00	No	No	No	No	No	No
479	132 kV Pare - Itanagar Line	NEEPCO & DoP, Arunachal Pradesh	20-04-2019 19:28:00	Yes	Yes	Yes	No	No	No
480	132 kV Khandong - Khliehriat 2 Line	POWERGRID	21-04-2019 13:20:00	No	No	No	Yes	Yes	Yes
481	220 kV Byrnihat - Misa 2 Line	MePTCL	22-04-2019 03:36:00	Yes	Yes	Yes	Yes	Yes	No
482	800 kV Agra - Biswanath Chariali Pole 1 Line	POWERGRID	22-04-2019 18:25:00	No	No	No	No	Yes	No
483	BgTPP Unit 3	NTPC	24-04-2019 11:26:00	No	No	No	No	No	No
484	132 kV Loktak - Ningthoukhong Line	MSPCL	24-04-2019 12:24:00	No	No	No	No	No	No
485	132 kV Loktak - Rengpang Line	MSPCL	24-04-2019 12:24:00	No	No	No	No	No	No
486	132 kV Dimapur (PG) - Dimapur (DoP, Nagaland) 1 Line	DoP, Nagaland	24-04-2019 14:15:00	Yes	No	No	No	No	No
487	132 kV Dimapur (PG) - Dimapur (DoP, Nagaland) 2 Line	DoP, Nagaland	24-04-2019 14:15:00	Yes	No	No	No	No	No
488	Kopili Unit 4	NEEPCO	24-04-2019 21:34:00	No	No	No	No	No	No
489	Palatana Unit ST-II	OTPC	25-04-2019 02:55:00	Yes	Yes	Yes	No	No	No
490	220 kV Samaguri - Sonabil 2 Line	AEGCL	25-04-2019 11:06:00	No	No	No	No	No	No
491	AGTCCPP Unit 4	NEEPCO	25-04-2019 14:05:00	No	No	No	No	No	No
492	800 kV Agra - Biswanath Chariali Pole 2 Line	POWERGRID	26-04-2019 12:02:00	Yes	Yes	No	Yes	No	No
493	AGTCCPP Unit 1	NEEPCO	26-04-2019 15:05:00	No	No	No	No	No	No
494	BgTPP Unit 3	NTPC	27-04-2019 00:11:00	No	No	No	No	No	No
495	132 kV Loktak - Ningthoukhong Line	MSPCL	27-04-2019 02:08:00	No	No	No	No	No	No
496	132 kV Jiribam - Pailapool Line	AEGCL & MSPCL	27-04-2019 02:08:00	Yes	Yes	No	No	No	No
497	132 kV Balipara - Bhalukpong Line	NEEPCO & DoP, Arunachal Pradesh	27-04-2019 08:25:00	Yes	No	No	No	No	No
498	BgTPP Unit 1	NTPC	27-04-2019 16:03:00	No	No	No	No	No	No
499	400/132 kV, 315 MVA Imphal ICT 2	POWERGRID	27-04-2019 18:40:00	Yes	Yes	No	Yes	Yes	Yes
500	AGTCCPP Unit 4	NEEPCO	27-04-2019 19:21:00	No	No	No	No	No	No
501	132 kV Kahilipara - Umtru 2	AEGCL & MePTCL	27-04-2019 23:01:00	No	No	No	No	No	No
502	400 kV Alipurduar - Bongaigaon 2 Line	ENICL	28-04-2019 01:57:00	Yes	Yes	Yes	Yes	Yes	Yes
503	132 kV Pailapool - Srikona Line	AEGCL	28-04-2019 10:30:00	No	No	No	No	No	No
504	AGTCCPP Unit 1	NEEPCO	28-04-2019 12:06:00	No	No	No	No	No	No
505	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	28-04-2019 12:09:00	Yes	No	No	No	No	No
506	132 kV Panchgram - Lumshnong Line	AEGCL & MePTCL	28-04-2019 14:18:00	No	No	No	No	No	No
507	132 kV Jiribam - Pailapool Line	AEGCL & MSPCL	28-04-2019 14:50:00	Yes	Yes	No	No	No	No
508	400 kV Imphal - Silchar 2 Line	POWERGRID	28-04-2019 15:07:00	Yes	Yes	Yes	Yes	Yes	Yes
509	132 kV Jiribam - Loktak 2 Line	POWERGRID	28-04-2019 15:23:00	Yes	Yes	Yes	No	No	No
510	132 kV Loktak - Ningthoukhong Line	MSPCL	28-04-2019 15:44:00	No	No	No	No	No	No
511	132 kV Jiribam - Loktak 2 Line	POWERGRID	28-04-2019 15:44:00	Yes	Yes	Yes	No	No	No
512	132 kV Panchgram - Lumshnong Line	AEGCL & MePTCL	28-04-2019 16:05:00	No	No	No	No	Yes	No
513	132 kV Loktak - Ningthoukhong Line	MSPCL	28-04-2019 20:07:00	No	No	No	No	No	No
514	Khandong Unit 1	NEEPCO	29-04-2019 18:53:00	No	No	No	No	No	No
515	AGTCCPP Unit 4	NEEPCO	30-04-2019 02:08:00	No	No	No	No	No	No

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Status of submission of FIR and DR & EL outputs for the Grid Events w.e.f 01.12.18 to 30.06.19

SL_NO	ELEMENTNAME	TRANSOWNER	TRIPPING_DATE_TIME	SEND_FIR	SEND_DR	SEND_EL	REND_FIR	REND_DR	REND_EL
516	132 kV Loktak - Ningthoukhong Line	MSPCL	30-04-2019 02:35:00	No	No	No	No	No	No
517	132 kV Loktak - Rengpang Line	MSPCL	30-04-2019 02:36:00	No	No	No	No	No	No
518	132 kV Loktak - Ningthoukhong Line	MSPCL	30-04-2019 10:04:00	No	No	No	No	No	No
519	132 kV Loktak - Rengpang Line	MSPCL	30-04-2019 10:04:00	No	No	No	No	No	No
520	132 kV Khandong - Khliehriat 1 Line	POWERGRID	01-05-2019 04:25:00	Yes	Yes	No	Yes	Yes	Yes
521	132 kV Khandong - Kopili 2 Line	POWERGRID	01-05-2019 04:25:00	Yes	No	No	No	No	No
522	132 kV Panchgram - Lumshnong Line	AEGL & MePTCL	01-05-2019 04:44:00	No	No	No	No	Yes	No
523	AGTCCPP Unit 1	NEEPCO	01-05-2019 08:28:00	Yes	No	No	No	No	No
524	132 kV Loktak - Rengpang Line	MSPCL	01-05-2019 09:12:00	No	Yes	No	No	No	No
525	132 kV Loktak - Ningthoukhong Line	MSPCL	01-05-2019 09:13:00	No	No	No	No	No	No
526	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	01-05-2019 12:05:00	Yes	Yes	Yes	No	No	No
527	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	01-05-2019 13:01:00	Yes	Yes	Yes	No	No	No
528	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	01-05-2019 14:03:00	Yes	Yes	Yes	No	No	No
529	220 kV Agia - BTPS 1 Line	AEGL	01-05-2019 22:05:00	No	No	No	No	No	No
530	132 kV Loktak - Ningthoukhong Line	MSPCL	02-05-2019 04:35:00	No	No	No	No	No	No
531	132 kV Jiribam - Tipaimukh line	POWERGRID & MSPCL	02-05-2019 04:37:00	Yes	Yes	Yes	No	No	No
532	132 kV Dimapur - Doyang 2 Line	POWERGRID	02-05-2019 11:05:00	Yes	Yes	Yes	Yes	No	No
533	132 kV Aizawl - Kolasib Line	POWERGRID	02-05-2019 11:20:00	Yes	Yes	Yes	No	No	No
534	132 kV Badarpur - Kolasib Line	POWERGRID	02-05-2019 11:20:00	Yes	Yes	Yes	No	No	No
535	AGTCCPP Unit 1	NEEPCO	02-05-2019 16:12:00	Yes	No	No	No	No	No
536	400 kV Alipurduar - Bongalaon 2 Line	ENICL	02-05-2019 21:50:00	Yes	Yes	Yes	Yes	Yes	Yes
537	AGTCCPP Unit 1	NEEPCO	03-05-2019 12:45:00	Yes	No	No	No	No	No
538	400 kV Azara - Silchar Line	NETC & AEGCL	03-05-2019 19:55:00	No	No	No	Yes	Yes	Yes
539	Monarchak Unit ST	NEEPCO	04-05-2019 06:37:00	Yes	Yes	Yes	No	No	No
540	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	04-05-2019 06:37:00	No	No	No	No	No	No
541	132 kV Agartala - AGTCCPP 2 Line	POWERGRID	04-05-2019 06:37:00	No	No	No	No	No	No
542	132 kV AGTCCPP - Kumarghat Line	POWERGRID	04-05-2019 07:03:00	Yes	Yes	No	Yes	Yes	Yes
543	AGTCCPP Unit 4	NEEPCO	04-05-2019 07:03:00	Yes	Yes	No	No	No	No
544	132 kV Melriat(PG) - Zuangtui Line	POWERGRID	04-05-2019 11:44:00	Yes	Yes	No	No	No	No
545	400 kV Azara - Silchar Line	NETC & AEGCL	04-05-2019 12:34:00	No	No	No	Yes	Yes	Yes
546	400 kV Azara - Silchar Line	NETC & AEGCL	04-05-2019 13:24:00	No	No	No	Yes	Yes	Yes
547	400 kV Azara - Silchar Line	NETC & AEGCL	04-05-2019 13:39:00	No	No	No	Yes	Yes	Yes
548	400 kV Azara - Silchar Line	NETC & AEGCL	04-05-2019 14:12:00	No	No	No	Yes	Yes	Yes
549	400 kV Azara - Silchar Line	NETC & AEGCL	04-05-2019 15:00:00	No	No	No	Yes	Yes	Yes
550	132 kV Aizawl - Kumarghat Line	POWERGRID	04-05-2019 16:06:00	Yes	Yes	Yes	Yes	Yes	Yes
551	132 kV Panchgram - Lumshnong Line	AEGL & MePTCL	04-05-2019 17:57:00	No	No	No	No	Yes	No
552	132 kV Badarpur - Silchar 1 Line	POWERGRID	05-05-2019 23:12:00	Yes	Yes	Yes	Yes	Yes	Yes
553	132 kV Badarpur - Silchar 2 Line	POWERGRID	05-05-2019 23:12:00	Yes	Yes	Yes	Yes	Yes	Yes
554	AGTCCPP Unit 6	NEEPCO	06-05-2019 03:07:00	No	No	No	No	No	No
555	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	06-05-2019 12:18:00	Yes	Yes	Yes	No	No	No
556	3x105 MVA, 400/220/33 kV ICT 1 at Balipara	POWERGRID	06-05-2019 12:44:00	Yes	Yes	Yes	No	No	No
557	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	06-05-2019 13:43:00	Yes	Yes	Yes	No	No	No
558	400 kV Biswanath Chariali - Ranganadi 2 Line	POWERGRID	06-05-2019 22:46:00	Yes	Yes	Yes	Yes	No	No
559	132 kV Imphal (MSPCL) - Imphal (PG) 1 Line	POWERGRID	07-05-2019 16:14:00	No	No	No	Yes	Yes	Yes
560	400 kV Palatana - Silchar 1 Line	NETC	08-05-2019 02:45:00	Yes	Yes	Yes	Yes	Yes	Yes
561	BgTPP Unit 1	NTPC	08-05-2019 06:59:00	No	No	No	No	No	No
562	220 kV Byrnihat - Misa 1 Line	MePTCL	08-05-2019 16:21:00	Yes	No	No	Yes	Yes	Yes
563	Khandong Unit 1	NEEPCO	08-05-2019 20:03:00	No	No	No	No	No	No
564	132 kV Jiribam - Loktak 2 Line	POWERGRID	09-05-2019 02:14:00	Yes	Yes	Yes	No	Yes	No
565	132 kV Jiribam(PG) - Jiribam(MA) Line	MSPCL	09-05-2019 02:18:00	Yes	Yes	Yes	No	No	No
566	Khandong Unit 1	NEEPCO	09-05-2019 11:28:00	No	No	No	No	No	No
567	Khandong Unit 1	NEEPCO	09-05-2019 11:34:00	No	No	No	No	No	No
568	Khandong Unit 1	NEEPCO	09-05-2019 11:48:00	No	No	No	No	No	No
569	Khandong Unit 1	NEEPCO	09-05-2019 12:09:00	No	No	No	No	No	No
570	132 kV Jiribam(PG) - Jiribam(MA) Line	MSPCL	09-05-2019 12:31:00	Yes	Yes	Yes	No	No	No
571	Khandong Unit 2	NEEPCO	09-05-2019 13:46:00	No	No	No	No	No	No
572	Khandong Unit 2	NEEPCO	09-05-2019 19:42:00	No	No	No	No	No	No
573	132 kV Ranganadi - Pare 1 Line	POWERGRID	10-05-2019 14:25:00	No	No	No	Yes	Yes	No
574	132 kV Pare - Itanagar Line	NEEPCO & DoP, Arunachal Pradesh	10-05-2019 14:36:00	Yes	No	No	No	No	No
575	132 kV Ranganadi-Itanagar line	NEEPCO & DoP, Arunachal Pradesh	10-05-2019 14:36:00	No	No	No	No	No	No
576	132 kV Jiribam - Pailapool Line	AEGL & MSPCL	12-05-2019 00:51:00	Yes	Yes	Yes	No	No	No
577	AGBPP Unit 4	NEEPCO	12-05-2019 09:50:00	No	No	No	No	No	No
578	Kopili Unit 1	NEEPCO	12-05-2019 11:44:00	Yes	Yes	Yes	No	No	No
579	AGBPP Unit 6	NEEPCO	12-05-2019 18:09:00	No	No	No	No	No	No
580	AGBPP Unit 9	NEEPCO	12-05-2019 18:09:00	No	No	No	No	No	No
581	220 kV Alipurduar - Salakati 1 Line	POWERGRID	12-05-2019 18:43:00	Yes	Yes	Yes	Yes	Yes	Yes
582	132 kV Khliehriat - Badarpur Line	POWERGRID	13-05-2019 00:40:00	Yes	Yes	Yes	Yes	Yes	Yes
583	132 kV Khliehriat - Badarpur Line	POWERGRID	13-05-2019 00:48:00	No	No	No	No	No	No
584	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	13-05-2019 01:10:00	No	No	No	Yes	Yes	Yes
585	400 kV Imphal - Silchar 2 Line	POWERGRID	13-05-2019 01:57:00	Yes	Yes	Yes	Yes	Yes	Yes
586	132 kV Badarpur - Jiribam Line	POWERGRID	13-05-2019 13:04:00	Yes	Yes	Yes	Yes	Yes	Yes
587	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	13-05-2019 17:18:00	Yes	Yes	Yes	No	No	No
588	132 kV Dimapur - Doyang 2 Line	POWERGRID	13-05-2019 17:18:00	Yes	Yes	Yes	Yes	No	No

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Status of submission of FIR and DR & EL outputs for the Grid Events w.e.f 01.12.18 to 30.06.19

SL_NO	ELEMENTNAME	TRANSOWNER	TRIPPING_DATE_TIME	SEND_FIR	SEND_DR	SEND_EL	REND_FIR	REND_DR	REND_EL
589	132 kV Doyang-Sanis Line	DoP, Nagaland	13-05-2019 18:00:00	Yes	No	No	No	No	No
590	132 kV Aizawl - Kumarghat Line	POWERGRID	13-05-2019 18:05:00	No	No	No	No	No	No
591	132 kV P K Bari - Silchar 1 Line	POWERGRID	13-05-2019 18:06:00	No	No	No	Yes	Yes	Yes
592	132 kV P K Bari - Silchar 2 Line	POWERGRID	13-05-2019 18:06:00	No	No	No	Yes	Yes	Yes
593	132 kV Dharmanagar - Dullavcherra Line	AEGCL	13-05-2019 18:06:00	No	No	No	No	No	No
594	132 kV Kumarghat - P K Bari Line	TSECL	13-05-2019 18:06:00	Yes	Yes	Yes	No	No	No
595	132 kV AGTCCPP - Kumarghat Line	POWERGRID	13-05-2019 18:06:00	Yes	Yes	No	Yes	Yes	Yes
596	132 kV AGTCCPP - Kumarghat Line	POWERGRID	13-05-2019 18:29:00	Yes	Yes	No	No	No	No
597	132 kV Aizawl - Kolasib Line	POWERGRID	13-05-2019 20:15:00	Yes	Yes	Yes	No	No	No
598	132 kV Aizawl - Luangmual Line	P&ED, Mizoram	13-05-2019 20:16:00	Yes	Yes	Yes	No	No	No
599	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	14-05-2019 00:07:00	No	No	No	No	No	No
600	220 kV Agia - BTPS 1 Line	AEGCL	14-05-2019 00:32:00	No	No	No	No	No	No
601	220 kV Agia - Azara Line	AEGCL	14-05-2019 00:48:00	No	No	No	No	No	No
602	132 kV Kumarghat - P K Bari Line	TSECL	14-05-2019 00:53:00	Yes	Yes	Yes	No	No	No
603	132 kV Aizawl - Kumarghat Line	POWERGRID	14-05-2019 02:32:00	Yes	Yes	Yes	Yes	Yes	Yes
604	220 kV Kopili - Misa 1 Line	POWERGRID	14-05-2019 14:48:00	Yes	Yes	Yes	Yes	Yes	Yes
605	50 MVA, 132/33 kV Transformer 2 at Imphal	POWERGRID	15-05-2019 01:04:00	Yes	Yes	No	No	No	No
606	132 kV Aizawl - Luangmual Line	P&ED, Mizoram	16-05-2019 00:40:00	Yes	No	Yes	No	No	No
607	Ranganadi Unit 2	NEEPCO	16-05-2019 14:25:00	No	Yes	No	No	No	No
608	Pare Unit 2	NEEPCO	16-05-2019 16:19:00	Yes	Yes	Yes	No	No	No
609	132 kV Gelyphu (Bhutan) - Salakati Line	POWERGRID	16-05-2019 18:45:00	No	No	No	Yes	Yes	Yes
610	132 kV Badarpur - Kolasib Line	POWERGRID	17-05-2019 08:17:00	Yes	Yes	Yes	No	No	No
611	132 kV Aizawl - Kolasib Line	POWERGRID	17-05-2019 08:17:00	Yes	Yes	Yes	No	No	No
612	132 kV Aizawl - Luangmual Line	P&ED, Mizoram	17-05-2019 10:16:00	Yes	Yes	Yes	No	No	No
613	132 kV Melriat(PG) - Zuangtui Line	POWERGRID	17-05-2019 10:29:00	Yes	Yes	Yes	No	No	No
614	132 kV Aizawl - Luangmual Line	P&ED, Mizoram	17-05-2019 11:26:00	Yes	Yes	Yes	No	No	No
615	132 kV Melriat(PG) - Zuangtui Line	POWERGRID	17-05-2019 13:27:00	Yes	Yes	Yes	No	No	No
616	132 kV Aizawl - Kolasib Line	POWERGRID	18-05-2019 07:19:00	Yes	Yes	Yes	No	No	No
617	132 kV Panchgram - Lumshnong Line	AEGCL & MePTCL	18-05-2019 22:05:00	No	No	No	No	Yes	No
618	132 kV Panchgram - Lumshnong Line	AEGCL & MePTCL	19-05-2019 01:28:00	No	No	No	No	Yes	No
619	132 kV Kumarghat - P K Bari Line	TSECL	19-05-2019 02:14:00	Yes	Yes	Yes	No	No	No
620	132 kV Kumarghat - P K Bari Line	TSECL	19-05-2019 02:53:00	Yes	Yes	Yes	No	No	No
621	132 kV Aizawl - Luangmual Line	P&ED, Mizoram	19-05-2019 03:41:00	Yes	Yes	Yes	No	No	No
622	132 kV Aizawl - Tipaimukh		19-05-2019 03:43:00	Yes	Yes	Yes	No	No	No
623	132 kV Melriat(PG) - Zuangtui Line	POWERGRID	19-05-2019 04:04:00	Yes	Yes	Yes	No	No	No
624	132 kV Aizawl - Luangmual Line	P&ED, Mizoram	19-05-2019 04:32:00	Yes	Yes	Yes	No	No	No
625	132 kV Aizawl - Luangmual Line	P&ED, Mizoram	19-05-2019 05:24:00	Yes	Yes	Yes	No	No	No
626	132 kV Aizawl - Luangmual Line	P&ED, Mizoram	19-05-2019 06:31:00	Yes	Yes	Yes	No	No	No
627	220 kV Alipurduar - Salakati 1 Line	POWERGRID	19-05-2019 09:25:00	Yes	No	No	Yes	Yes	Yes
628	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	19-05-2019 10:30:00	Yes	Yes	Yes	No	No	No
629	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	19-05-2019 13:22:00	Yes	Yes	Yes	No	No	No
630	132 kV Balipara - Bhalukpong Line	NEEPCO & DoP, Arunachal Pradesh	19-05-2019 19:34:00	Yes	Yes	Yes	No	No	No
631	132 kV Kumarghat - P K Bari Line	TSECL	20-05-2019 11:08:00	Yes	Yes	Yes	No	No	No
632	132 kV Doyang - Mokokchung (DoP, Nagaland) Line	DoP, Nagaland	20-05-2019 13:19:00	Yes	No	No	No	No	No
633	132 kV Doyang - Mokokchung (DoP, Nagaland) Line	DoP, Nagaland	20-05-2019 13:39:00	Yes	No	No	No	No	No
634	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	20-05-2019 14:00:00	No	Yes	No	Yes	Yes	Yes
635	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	20-05-2019 14:00:00	No	Yes	No	Yes	No	Yes
636	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	20-05-2019 14:36:00	No	Yes	No	Yes	Yes	Yes
637	220 kV Agia - Azara Line	AEGCL	20-05-2019 17:46:00	No	No	No	No	No	No
638	132 kV Gelyphu (Bhutan) - Salakati Line	POWERGRID	20-05-2019 21:22:00	No	No	No	Yes	Yes	Yes
639	Khandong Unit 2	NEEPCO	20-05-2019 23:28:00	No	No	No	No	No	No
640	220 kV Agia - Boko Line	AEGCL	21-05-2019 00:17:00	No	No	No	No	No	No
641	220 kV Agia - Azara Line	AEGCL	21-05-2019 00:33:00	No	No	No	No	No	No
642	132 kV Jiribam - Loktak 2 Line	POWERGRID	21-05-2019 03:15:00	Yes	Yes	Yes	No	Yes	No
643	132 kV Doyang - Mokokchung (DoP, Nagaland) Line	DoP, Nagaland	21-05-2019 09:16:00	Yes	No	No	No	No	No
644	132 kV Doyang - Mokokchung (DoP, Nagaland) Line	DoP, Nagaland	21-05-2019 09:32:00	Yes	No	No	No	No	No
645	132 kV Doyang - Mokokchung (DoP, Nagaland) Line	DoP, Nagaland	21-05-2019 09:39:00	Yes	No	No	No	No	No
646	132 kV Nangalibira - Nongstoin Line	MePTCL	21-05-2019 14:13:00	No	No	No	No	No	No
647	220 kV Byrnihat - Misa 1 Line	MePTCL	21-05-2019 17:53:00	No	No	No	Yes	Yes	Yes
648	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 2 Line	MePTCL	21-05-2019 23:02:00	No	No	No	Yes	Yes	Yes
649	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	21-05-2019 23:02:00	No	Yes	No	Yes	Yes	Yes
650	132 kV Panchgram - Lumshnong Line	AEGCL & MePTCL	22-05-2019 01:36:00	No	No	No	No	No	No
651	132 kV Pailapool - Srikona Line	AEGCL	22-05-2019 02:20:00	No	No	No	No	No	No
652	132 kV Badarpur - Kumarghat Line	POWERGRID	22-05-2019 03:07:00	Yes	Yes	Yes	Yes	Yes	Yes
653	132 kV Gelyphu (Bhutan) - Salakati Line	POWERGRID	22-05-2019 06:16:00	No	No	No	Yes	Yes	Yes
654	220 kV Byrnihat - Misa 1 Line	MePTCL	22-05-2019 10:46:00	No	No	No	Yes	Yes	Yes
655	220 kV Byrnihat - Misa 1 Line	MePTCL	22-05-2019 10:52:00	No	No	No	Yes	Yes	Yes
656	132 kV Biswanath Chariali - Pavoi 2 Line	POWERGRID	23-05-2019 00:44:00	Yes	Yes	Yes	No	No	No
657	132 kV Khliehriat - Badarpur Line	POWERGRID	23-05-2019 02:20:00	Yes	Yes	Yes	Yes	Yes	Yes

Annexure-1

Status of submission of FIR and DR & EL outputs for the Grid Events w.e.f 01.12.18 to 30.06.19

SL_NO	ELEMENTNAME	TRANSOWNER	TRIPPING_DATE_TIME	SEND_FIR	SEND_DR	SEND_EL	REND_FIR	REND_DR	REND_EL
658	BgTPP Unit 1	NTPC	23-05-2019 03:06:00	No	No	No	No	No	No
659	BgTPP Unit 2	NTPC	23-05-2019 03:37:00	No	No	No	No	No	No
660	BgTPP Unit 3	NTPC	23-05-2019 03:56:00	No	No	No	No	No	No
661	400 kV Imphal - Silchar 2 Line	POWERGRID	23-05-2019 04:38:00	Yes	Yes	Yes	Yes	Yes	Yes
662	220 kV Byrnihat - Misa 1 Line	MePTCL	23-05-2019 10:40:00	No	No	No	Yes	No	Yes
663	132 kV Kumarghat - P K Bari Line	TSECL	24-05-2019 01:31:00	Yes	Yes	Yes	No	No	No
664	132 kV Kumarghat - P K Bari Line	TSECL	24-05-2019 03:05:00	Yes	Yes	Yes	No	No	No
665	132 kV Aizawl - Tipaimukh		24-05-2019 03:25:00	Yes	Yes	Yes	No	No	No
666	132 kV Aizawl - Kolasib Line	POWERGRID	24-05-2019 04:23:00	Yes	Yes	Yes	No	No	No
667	132 kV Loktak - Rengpang Line	MSPCL	24-05-2019 04:23:00	No	No	No	No	No	No
668	132 kV Loktak - Ningthoukhong Line	MSPCL	24-05-2019 04:24:00	No	No	No	No	No	No
669	132 kV Aizawl - Tipaimukh		24-05-2019 04:42:00	Yes	Yes	Yes	No	No	No
670	132 kV Aizawl - Kumarghat Line	POWERGRID	24-05-2019 11:59:00	Yes	Yes	Yes	Yes	Yes	Yes
671	132 kV Aizawl - Kumarghat Line	POWERGRID	24-05-2019 12:24:00	Yes	Yes	Yes	Yes	Yes	Yes
672	132 kV Agartala - Surajmaninagar 1 line	TSECL	24-05-2019 13:43:00	No	No	No	No	No	No
673	132 kV Agartala - Surajmaninagar 2 line	TSECL	24-05-2019 13:43:00	No	No	No	No	No	No
674	132 kV Monarchak - Udaipur 1 Line	TSECL	24-05-2019 15:53:00	Yes	Yes	Yes	No	No	No
675	Monarchak Unit GT	NEEPCO	24-05-2019 15:53:00	Yes	Yes	Yes	No	No	No
676	Monarchak Unit ST	NEEPCO	24-05-2019 15:53:00	Yes	Yes	Yes	No	No	No
677	132 kV Monarchak - Rokhia Line	TSECL	24-05-2019 15:53:00	Yes	Yes	Yes	No	No	No
678	220 kV Byrnihat - Misa 2 Line	MePTCL	25-05-2019 01:25:00	No	No	No	Yes	Yes	Yes
679	132 kV Dimapur - Doyang 2 Line	POWERGRID	25-05-2019 02:37:00	Yes	Yes	Yes	Yes	Yes	Yes
680	400 kV Azara - Bongaigaon Line	NETC & AEGCL	25-05-2019 12:39:00	Yes	Yes	No	Yes	Yes	Yes
681	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	25-05-2019 13:09:00	Yes	Yes	Yes	No	No	No
682	Khandong Unit 1	NEEPCO	25-05-2019 15:57:00	No	No	No	No	No	No
683	220 kV Kopili - Misa 3 Line	POWERGRID	25-05-2019 16:17:00	No	Yes	Yes	Yes	Yes	Yes
684	Ranganadi Unit 1	NEEPCO	25-05-2019 23:00:00	No	Yes	No	No	No	No
685	132 kV Motonga (Bhutan) - Rangia Line	POWERGRID	26-05-2019 09:33:00	No	No	No	No	No	No
686	220 kV Samaguri - Sonabil 2 Line	AEGCL	26-05-2019 11:25:00	No	No	No	No	No	No
687	132 kV Ranganadi-Itanagar line	NEEPCO & DoP, Arunachal Pradesh	26-05-2019 13:14:00	No	No	No	No	No	No
688	132 kV Pare - Itanagar Line	NEEPCO & DoP, Arunachal Pradesh	26-05-2019 13:14:00	Yes	Yes	Yes	No	No	No
689	AGTCCPP Unit 6	NEEPCO	27-05-2019 10:01:00	No	No	No	No	No	No
690	AGTCCPP Unit 3	NEEPCO	27-05-2019 13:48:00	Yes	Yes	No	No	No	No
691	AGBPP Unit 2	NEEPCO	27-05-2019 23:54:00	No	No	No	No	No	No
692	AGBPP Unit 3	NEEPCO	28-05-2019 00:33:00	No	No	No	No	No	No
693	AGBPP Unit 4	NEEPCO	28-05-2019 00:33:00	No	No	No	No	No	No
694	AGBPP Unit 8	NEEPCO	28-05-2019 00:33:00	No	No	No	No	No	No
695	AGBPP Unit 1	NEEPCO	28-05-2019 03:03:00	No	No	No	No	No	No
696	AGBPP Unit 9	NEEPCO	28-05-2019 03:03:00	No	No	No	No	No	No
697	AGBPP Unit 5	NEEPCO	28-05-2019 03:03:00	No	No	No	No	No	No
698	AGBPP Unit 7	NEEPCO	28-05-2019 03:03:00	No	No	No	No	No	No
699	132 kV Ranganadi - Ziro Line	POWERGRID	28-05-2019 05:30:00	No	No	No	Yes	Yes	Yes
700	400 kV Balipara - Bongaigaon 1 Line	POWERGRID	28-05-2019 10:03:00	No	No	Yes	No	No	No
701	132 kV Badarpur - Jiribam Line	POWERGRID	28-05-2019 10:29:00	Yes	Yes	Yes	Yes	Yes	Yes
702	400 kV Balipara - Bongaigaon 1 Line	POWERGRID	28-05-2019 11:57:00	Yes	Yes	Yes	Yes	Yes	Yes
703	Kopili Unit 2	NEEPCO	28-05-2019 14:50:00	No	No	No	No	No	No
704	Monarchak Unit GT	NEEPCO	29-05-2019 10:19:00	Yes	Yes	Yes	No	No	No
705	132 kV Balipara - Bhalukpong Line	NEEPCO & DoP, Arunachal Pradesh	29-05-2019 13:58:00	Yes	Yes	Yes	No	No	No
706	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	29-05-2019 16:19:00	Yes	Yes	Yes	No	No	No
707	AGTCCPP Unit 1	NEEPCO	29-05-2019 21:43:00	Yes	Yes	No	No	No	No
708	400 kV Balipara - Misa 2 Line	POWERGRID	30-05-2019 00:50:00	Yes	Yes	Yes	Yes	Yes	Yes
709	400 kV Biswanath Chariali - Ranganadi 1 Line	POWERGRID	30-05-2019 02:00:00	Yes	Yes	Yes	No	No	No
710	132 kV Lekhi - Pare Line	DoP, Arunachal Pradesh & POWERGRID	30-05-2019 10:26:00	No	Yes	Yes	Yes	Yes	Yes
711	400 kV Imphal - Silchar 2 Line	POWERGRID	31-05-2019 06:01:00	Yes	Yes	Yes	Yes	Yes	Yes
712	132 kV Jiribam - Loktak 2 Line	POWERGRID	31-05-2019 06:45:00	Yes	Yes	Yes	No	No	No
713	132 kV Melriat(PG) - Zuangtui Line	POWERGRID	31-05-2019 16:51:00	Yes	Yes	Yes	No	No	No
714	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	31-05-2019 16:52:00	Yes	Yes	Yes	No	No	No
715	132 kV Balipara - Bhalukpong Line	NEEPCO & DoP, Arunachal Pradesh	31-05-2019 18:51:00	Yes	Yes	Yes	No	No	No
716	132 kV AGTCCPP - Kumarghat Line	POWERGRID	01-06-2019 04:21:00	Yes	Yes	No	Yes	Yes	Yes
717	AGTCCPP Unit 6	NEEPCO	01-06-2019 08:30:00	No	No	No	No	No	No
718	AGTCCPP Unit 2	NEEPCO	02-06-2019 08:21:00	Yes	Yes	No	No	No	No
719	AGTCCPP Unit 3	NEEPCO	02-06-2019 08:21:00	Yes	Yes	No	No	No	No
720	AGTCCPP Unit 4	NEEPCO	02-06-2019 08:21:00	Yes	Yes	No	No	No	No
721	AGTCCPP Unit 5	NEEPCO	02-06-2019 08:21:00	No	No	No	No	No	No
722	AGTCCPP Unit 6	NEEPCO	02-06-2019 08:21:00	No	No	No	No	No	No
723	132 kV Balipara - Bhalukpong Line	NEEPCO & DoP, Arunachal Pradesh	02-06-2019 09:57:00	Yes	No	No	No	No	No
724	132 kV Ziro- Daporijo	DoP, Arunachal Pradesh	02-06-2019 13:20:00	Yes	No	Yes	No	No	No
725	132 kV Loktak - Rengpang Line	MSPCL	02-06-2019 13:43:00	No	No	No	No	No	No
726	132 kV Loktak - Ningthoukhong Line	MSPCL	02-06-2019 13:43:00	No	No	No	No	No	No
727	400 kV Azara - Silchar Line	NETC & AEGCL	02-06-2019 14:02:00	No	No	No	Yes	Yes	Yes
728	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	03-06-2019 11:29:00	Yes	Yes	No	No	No	No
729	220 kV Balipara - Sonabil 1 line	AEGCL	03-06-2019 14:06:00	Yes	Yes	Yes	No	No	No

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Status of submission of FIR and DR & EL outputs for the Grid Events w.e.f 01.12.18 to 30.06.19

SL_NO	ELEMENTNAME	TRANSOWNER	TRIPPING_DATE_TIME	SEND_FIR	SEND_DR	SEND_EL	REND_FIR	REND_DR	REND_EL
730	132 kV Jiribam - Loktak 2 Line	POWERGRID	03-06-2019 16:31:00	Yes	Yes	Yes	No	No	No
731	400 kV Balipara - Bongaigaon 2 Line	POWERGRID	03-06-2019 16:32:00	Yes	Yes	Yes	Yes	Yes	Yes
732	132 kV Motonga (Bhutan) - Rangia Line	POWERGRID	03-06-2019 17:00:00	No	No	No	No	No	No
733	132 kV Motonga (Bhutan) - Rangia Line	POWERGRID	03-06-2019 17:40:00	No	No	No	No	No	No
734	132 kV Melriat(PG) - Zuangtui Line	POWERGRID	04-06-2019 13:49:00	Yes	Yes	No	No	No	No
735	132 kV Melriat(PG) - Zuangtui Line	POWERGRID	04-06-2019 14:41:00	Yes	Yes	No	No	No	No
736	132 kV Ziro- Daporijo	DoP, Arunachal Pradesh	06-06-2019 05:13:00	Yes	No	No	No	No	No
737	220 kV Misa - Samaguri 1 Line	POWERGRID	06-06-2019 09:01:00	Yes	Yes	Yes	No	No	No
738	132 kV Karong - Kohima Line	MSPCL & DoP, Nagaland	06-06-2019 10:22:00	No	No	No	No	No	No
739	220 kV Kopili - Misa 1 Line	POWERGRID	06-06-2019 10:49:00	Yes	Yes	Yes	Yes	Yes	Yes
740	132 kV Lekhi - Nirjuli Line	DoP, Arunachal Pradesh & POWERGRID	06-06-2019 12:10:00	No	No	No	Yes	Yes	Yes
741	132 kV Loktak - Renggang Line	MSPCL	06-06-2019 12:26:00	No	No	No	No	No	No
742	132 kV Dullavcherra - Hailakandi Line	AEGCL	06-06-2019 20:34:00	No	No	No	No	No	No
743	200 MVA, 400/132 kV ICT 2 at Silchar	POWERGRID	07-06-2019 06:27:00	Yes	No	No	No	No	No
744	132 kV Motonga (Bhutan) - Rangia Line	POWERGRID	07-06-2019 10:16:00	No	No	No	No	No	No
745	132 kV Dimapur - Doyang 2 Line	POWERGRID	07-06-2019 11:45:00	Yes	Yes	Yes	Yes	Yes	Yes
746	132 kV Roing - Pasighat Line	POWERGRID	07-06-2019 16:31:00	Yes	Yes	Yes	Yes	No	No
747	Doyang Unit 2	NEEPCO	07-06-2019 19:34:00	Yes	Yes	Yes	No	No	No
748	AGBPP Unit 8	NEEPCO	08-06-2019 02:00:00	No	No	No	No	No	No
749	AGBPP Unit 5	NEEPCO	08-06-2019 05:40:00	No	No	No	No	No	No
750	132 kV Aizawl - Kolasib Line	POWERGRID	09-06-2019 08:38:00	Yes	Yes	Yes	No	No	No
751	132 kV Badarpur - Kolasib Line	POWERGRID	09-06-2019 08:38:00	Yes	Yes	Yes	No	No	No
752	132 kV Haflong - Umranshu Line	AEGCL	10-06-2019 06:42:00	Yes	Yes	Yes	No	No	No
753	132 kV Kahilipara - Umtru 1	AEGCL & MePTCL	10-06-2019 10:45:00	No	No	No	No	No	No
754	AGBPP Unit 2	NEEPCO	10-06-2019 13:25:00	No	Yes	Yes	No	No	No
755	AGBPP Unit 7	NEEPCO	10-06-2019 15:21:00	No	Yes	Yes	No	No	No
756	AGBPP Unit 8	NEEPCO	10-06-2019 15:21:00	No	Yes	Yes	No	No	No
757	AGBPP Unit 4	NEEPCO	10-06-2019 15:21:00	No	Yes	Yes	No	No	No
758	AGBPP Unit 5	NEEPCO	10-06-2019 15:52:00	No	Yes	Yes	No	No	No
759	132 kV Gelyphu (Bhutan) - Salakati Line	POWERGRID	11-06-2019 01:55:00	No	No	No	Yes	Yes	Yes
760	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	11-06-2019 11:13:00	Yes	No	No	No	No	No
761	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	11-06-2019 12:12:00	Yes	No	No	No	No	No
762	Pare Unit 1	NEEPCO	11-06-2019 17:21:00	Yes	Yes	Yes	No	No	No
763	Pare Unit 2	NEEPCO	11-06-2019 17:21:00	Yes	Yes	Yes	Yes	Yes	Yes
764	Ranganadi Unit 1	NEEPCO	11-06-2019 17:21:00	Yes	No	Yes	No	No	No
765	3x120 MVA, 400/132 kV ICT 2 at Ranganadi	NEEPCO	11-06-2019 17:21:00	Yes	No	Yes	No	No	No
766	132 kV Pare - Itanagar Line	NEEPCO & DoP, Arunachal Pradesh	11-06-2019 17:21:00	Yes	Yes	Yes	No	No	No
767	132 kV Ranganadi - Pare 1 Line	POWERGRID	11-06-2019 17:21:00	No	No	No	Yes	Yes	Yes
768	132 kV Ranganadi-Itanagar line	NEEPCO & DoP, Arunachal Pradesh	11-06-2019 17:21:00	No	No	No	No	No	No
769	Ranganadi Unit 3	NEEPCO	11-06-2019 17:21:00	No	No	No	No	No	No
770	AGBPP Unit 4	NEEPCO	11-06-2019 20:25:00	No	No	No	No	No	No
771	Ranganadi Unit 1	NEEPCO	11-06-2019 20:31:00	No	No	No	No	No	No
772	132 kV Itanagar - Lekhi		12-06-2019 06:38:00	No	No	No	No	No	No
773	132 kV P K Bari - Silchar 1 Line	POWERGRID	12-06-2019 10:05:00	No	No	No	Yes	Yes	Yes
774	220 kV Samaguri - Sonapur Line	AEGCL	12-06-2019 14:42:00	No	No	No	No	No	No
775	220 kV Misa - Samaguri 1 Line	POWERGRID	12-06-2019 14:42:00	Yes	Yes	Yes	No	No	No
776	220 kV Misa - Samaguri 2 Line	POWERGRID	12-06-2019 14:42:00	Yes	Yes	Yes	No	No	No
777	Loktak Unit 1	NHPC	12-06-2019 15:48:00	No	No	No	No	No	No
778	Loktak Unit 1	NHPC	12-06-2019 16:59:00	No	No	No	No	No	No
779	132 kV Melriat(PG) - Zuangtui Line	POWERGRID	13-06-2019 05:53:00	Yes	Yes	No	No	No	No
780	400 kV Imphal - Silchar 1 line	POWERGRID	13-06-2019 08:01:00	Yes	Yes	No	Yes	Yes	No
781	AGBPP Unit 6	NEEPCO	13-06-2019 13:20:00	No	No	No	No	No	No
782	132 kV Melriat(PG) - Zuangtui Line	POWERGRID	13-06-2019 15:20:00	Yes	Yes	No	No	No	No
783	132 kV Aizawl - Tipaimukh Line	POWERGRID & MSPCL	13-06-2019 15:39:00	Yes	Yes	Yes	No	No	No
784	400 kV Azara - Silchar Line	NETC & AEGCL	13-06-2019 16:44:00	No	No	No	Yes	Yes	Yes
785	132 kV Hailakandi - Silchar 1 Line	POWERGRID	14-06-2019 01:50:00	No	No	No	Yes	No	No
786	132 kV Badarpur - Panchgram Line	POWERGRID	14-06-2019 03:08:00	Yes	Yes	No	No	No	No
787	132 kV Badarpur - Panchgram Line	POWERGRID	14-06-2019 04:10:00	Yes	Yes	Yes	No	No	No
788	132 kV Hailakandi - Panchgram Line	AEGCL	14-06-2019 04:10:00	No	No	No	No	No	No
789	Khandong Unit 2	NEEPCO	14-06-2019 07:09:00	No	No	No	No	No	No
790	132 kV Ranganadi - Ziro Line	POWERGRID	14-06-2019 18:55:00	No	No	No	No	No	Yes
791	400 kV Biswanath Chariali - Ranganadi 1 Line	POWERGRID	15-06-2019 00:53:00	Yes	Yes	Yes	No	Yes	No
792	400 kV Biswanath Chariali - Ranganadi 2 Line	POWERGRID	15-06-2019 00:53:00	Yes	Yes	Yes	No	Yes	No
793	132 kV Badarpur - Jiribam Line	POWERGRID	15-06-2019 08:06:00	Yes	Yes	Yes	Yes	Yes	Yes
794	132 kV Jiribam - Loktak 2 Line	POWERGRID	15-06-2019 08:06:00	Yes	Yes	Yes	No	No	No
795	132 kV Haflong - Jiribam Line	POWERGRID	15-06-2019 08:06:00	Yes	Yes	Yes	Yes	Yes	Yes
796	132 kV Jiribam(PG) - Jiribam(MA) Line	MSPCL	15-06-2019 08:06:00	Yes	No	Yes	No	No	No
797	132 kV Jiribam - Pailapool Line	AEGCL & MSPCL	15-06-2019 08:06:00	Yes	Yes	Yes	No	No	No
798	132 kV Jiribam - Tipaimukh Line	POWERGRID & MSPCL	15-06-2019 08:06:00	Yes	Yes	Yes	No	No	No
799	132 kV Imphal (MSPCL) - Imphal (PG) 1 Line	POWERGRID	15-06-2019 09:15:00	No	No	No	Yes	Yes	Yes
800	132 kV Dharmanagar - P K Bari Line	TSECL	16-06-2019 19:17:00	No	No	No	No	No	No
801	132 kV Dharmanagar - Dullavcherra Line	AEGCL	16-06-2019 19:17:00	No	No	No	No	No	No
802	132 kV Kumarghat - P K Bari Line	TSECL	16-06-2019 19:17:00	Yes	Yes	No	No	No	No
803	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	16-06-2019 21:48:00	No	No	No	Yes	Yes	Yes
804	400 kV Byrnihat - Silchar Line	NETC & MePTCL	16-06-2019 22:27:00	No	Yes	No	Yes	Yes	No
805	132 kV Kumarghat - P K Bari Line	TSECL	17-06-2019 03:23:00	Yes	Yes	Yes	No	No	No

Annexure-1

Status of submission of FIR and DR & EL outputs for the Grid Events w.e.f 01.12.18 to 30.06.19

SL_NO	ELEMENTNAME	TRANSOWNER	TRIPPING_DATE_TIME	SEND_FIR	SEND_DR	SEND_EL	REND_FIR	REND_DR	REND_EL
806	132 kV Dharmanagar - Dullavcherra Line	AEGCL	17-06-2019 03:23:00	No	No	No	No	No	No
807	400 kV Imphal - Silchar 2 Line	POWERGRID	17-06-2019 05:07:00	No	No	No	No	No	No
808	Loktak Unit 1	NHPC	17-06-2019 05:51:00	No	No	No	No	No	No
809	Loktak Unit 2	NHPC	17-06-2019 05:51:00	No	No	No	No	No	No
810	Loktak Unit 2	NHPC	17-06-2019 07:06:00	No	No	No	No	No	No
811	Ranganadi Unit 1	NEEPCO	17-06-2019 12:58:00	Yes	Yes	No	No	No	No
812	132 kV Doyang-Sanis Line	DoP, Nagaland	17-06-2019 15:21:00	Yes	Yes	Yes	No	No	No
813	132 kV Balipara - Bhalukpong Line	NEEPCO & DoP, Arunachal Pradesh	17-06-2019 15:31:00	Yes	No	Yes	No	No	No
814	AGTCCPP Unit 5	NEEPCO	17-06-2019 18:30:00	No	No	No	No	No	No
815	AGTCCPP Unit 3	NEEPCO	17-06-2019 18:30:00	No	No	No	No	No	No
816	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	17-06-2019 18:30:00	No	No	No	No	No	No
817	Monarchak Unit ST	NEEPCO	17-06-2019 22:35:00	Yes	Yes	Yes	No	No	No
818	AGTCCPP Unit 1	NEEPCO	17-06-2019 22:42:00	No	No	No	No	No	No
819	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	17-06-2019 22:42:00	No	No	No	No	No	No
820	132 kV Khandong - Khliehriat 1 Line	POWERGRID	17-06-2019 23:32:00	No	No	No	Yes	Yes	Yes
821	132 kV Khandong - Kopili 2 Line	POWERGRID	17-06-2019 23:32:00	No	No	No	No	No	No
822	132 kV Pare - Itanagar Line	NEEPCO & DoP, Arunachal Pradesh	18-06-2019 02:10:00	Yes	Yes	Yes	No	No	No
823	132 kV Pare - Itanagar Line	NEEPCO & DoP, Arunachal Pradesh	18-06-2019 02:10:00	No	No	No	No	No	No
824	132 kV Budhjangnagar - Surjamaninagar 1 Line	TSECL	18-06-2019 11:32:00	No	No	No	No	No	No
825	132 kV Budhjangnagar - Surjamaninagar 2 Line	TSECL	18-06-2019 11:32:00	No	No	No	No	No	No
826	Monarchak Unit GT	NEEPCO	18-06-2019 11:32:00	Yes	Yes	Yes	No	No	No
827	Monarchak Unit ST	NEEPCO	18-06-2019 11:32:00	Yes	Yes	Yes	No	No	No
828	Baramura Unit 3	TPGCL	18-06-2019 11:32:00	No	No	No	No	No	No
829	Baramura Unit 4	TPGCL	18-06-2019 11:32:00	No	No	No	No	No	No
830	AGTCCPP Unit 1	NEEPCO	18-06-2019 11:32:00	No	No	No	No	No	No
831	AGTCCPP Unit 2	NEEPCO	18-06-2019 11:32:00	No	No	No	No	No	No
832	AGTCCPP Unit 3	NEEPCO	18-06-2019 11:32:00	No	No	No	No	No	No
833	132 kV Agartala - Rokhia 1 Line	TSECL	18-06-2019 11:32:00	No	No	No	No	No	No
834	132 kV Agartala - Rokhia 2 Line	TSECL	18-06-2019 11:32:00	No	No	No	No	No	No
835	132 kV Palatana - Surjamaninagar 1 Line	POWERGRID	18-06-2019 11:32:00	Yes	Yes	Yes	No	No	No
836	Palatana Unit GT-I	OTPC	18-06-2019 11:32:00	Yes	Yes	Yes	No	No	No
837	Palatana Unit ST-I	OTPC	18-06-2019 11:32:00	Yes	Yes	Yes	No	No	No
838	132 kV AGTCCPP - Kumarghat Line	POWERGRID	18-06-2019 11:44:00	No	No	No	Yes	Yes	Yes
839	132 kV Dhalabil - Kamalpur Line	TSECL	18-06-2019 11:44:00	No	No	No	No	No	No
840	132 kV Ambasa - Gamatila Line	TSECL	18-06-2019 11:44:00	No	No	No	No	No	No
841	Loktak Unit 3	NHPC	19-06-2019 09:59:00	No	No	No	No	No	No
842	132 kV Loktak - Renggang Line	MSPCL	19-06-2019 10:35:00	No	No	No	No	No	No
843	132 kV Jiribam(PG) - Renggang	MSPCL	19-06-2019 12:08:00	Yes	Yes	Yes	No	No	No
844	400 kV Azara - Silchar Line	NETC & AEGCL	19-06-2019 15:23:00	No	No	No	Yes	Yes	Yes
845	132 kV Dimapur (PG) - Dimapur (DoP, Nagaland) 2 Line	DoP, Nagaland	19-06-2019 22:20:00	Yes	No	No	No	No	No
846	132 kV Pare - Itanagar Line	NEEPCO & DoP, Arunachal Pradesh	20-06-2019 04:20:00	No	No	No	No	No	No
847	132 kV Badarpur - Kolasib Line	POWERGRID	20-06-2019 11:39:00	Yes	Yes	Yes	No	No	No
848	132 kV Aizawl - Kolasib Line	POWERGRID	20-06-2019 11:39:00	Yes	Yes	Yes	No	No	No
849	132 kV Mokochung (PG) - Mokochung (DoP, Nagaland) 1 Line	POWERGRID	20-06-2019 11:52:00	Yes	No	No	No	No	No
850	132 kV Mokochung (PG) - Mokochung (DoP, Nagaland) 2 Line	POWERGRID	20-06-2019 11:52:00	Yes	No	No	No	No	No
851	400 kV Biswanath Chariali - Ranganadi 2 Line	POWERGRID	20-06-2019 11:52:00	Yes	Yes	No	Yes	Yes	Yes
852	132 kV Dimapur - Doyang 2 Line	POWERGRID	20-06-2019 11:53:00	Yes	Yes	No	Yes	Yes	Yes
853	132 kV Badarpur - Kolasib Line	POWERGRID	20-06-2019 11:58:00	Yes	Yes	No	No	No	No
854	132 kV Aizawl - Kolasib Line	POWERGRID	20-06-2019 13:41:00	Yes	Yes	No	No	No	No
855	132 kV Aizawl - Kumarghat Line	POWERGRID	21-06-2019 05:22:00	Yes	Yes	No	Yes	Yes	No
856	132 kV Mokochung (PG) - Mokochung (DoP, Nagaland) 1 Line	POWERGRID	21-06-2019 08:43:00	Yes	Yes	No	No	No	No
857	132 kV Mokochung (PG) - Mokochung (DoP, Nagaland) 2 Line	POWERGRID	21-06-2019 08:43:00	Yes	No	No	No	No	No
858	132 kV Dimapur - Doyang 2 Line	POWERGRID	21-06-2019 08:43:00	Yes	No	No	Yes	Yes	Yes
859	132 kV Doyang - Mokochung (DoP, Nagaland) Line	DoP, Nagaland	21-06-2019 08:43:00	Yes	Yes	Yes	No	No	No
860	132 kV Mokochung (PG) - Mokochung (DoP, Nagaland) 1 Line	POWERGRID	21-06-2019 10:23:00	Yes	No	No	No	No	No
861	132 kV Mokochung (PG) - Mokochung (DoP, Nagaland) 2 Line	POWERGRID	21-06-2019 10:23:00	Yes	No	No	No	No	No
862	132 kV Dimapur - Doyang 2 Line	POWERGRID	21-06-2019 10:23:00	Yes	No	No	Yes	Yes	Yes
863	400 kV Palatana - Silchar 2 Line	NETC	21-06-2019 13:42:00	Yes	Yes	Yes	Yes	Yes	Yes
864	Khandong Unit 1	NEEPCO	21-06-2019 16:55:00	No	No	No	No	No	No
865	132 kV Aizawl - Kumarghat Line	POWERGRID	21-06-2019 19:04:00	Yes	Yes	Yes	Yes	Yes	Yes
866	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	22-06-2019 03:54:00	Yes	No	No	No	No	No
867	400 kV Imphal - Silchar 2 Line	POWERGRID	22-06-2019 08:48:00	Yes	Yes	Yes	Yes	Yes	Yes
868	400 kV Imphal - Silchar 1 Line	POWERGRID	22-06-2019 08:48:00	Yes	Yes	Yes	Yes	Yes	Yes
869	132 kV Palatana - Surjamaninagar 1 Line	POWERGRID	22-06-2019 13:03:00	Yes	Yes	Yes	No	No	No
870	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	22-06-2019 13:03:00	No	No	No	No	No	No
871	132 kV Agartala - AGTCCPP 2 Line	POWERGRID	22-06-2019 13:03:00	No	No	No	No	No	No
872	132 kV Agartala - Rokhia 1 Line	TSECL	22-06-2019 13:03:00	No	No	No	No	No	No

Annexure-1

Status of submission of FIR and DR & EL outputs for the Grid Events w.e.f 01.12.18 to 30.06.19

SL_NO	ELEMENTNAME	TRANSOWNER	TRIPPING_DATE_TIME	SEND_FIR	SEND_DR	SEND_EL	REND_FIR	REND_DR	REND_EL
873	132 kV Monarchak - Rokhia Line	TSECL	22-06-2019 13:03:00	Yes	Yes	Yes	No	No	No
874	132 kV South Comilla (Bangladesh) - Surajmani Nagar 1 Line	POWERGRID & PGCB	22-06-2019 13:03:00	No	No	No	No	No	No
875	AGTCCPP Unit 5	NEEPCO	22-06-2019 13:03:00	No	No	No	No	No	No
876	AGTCCPP Unit 6	NEEPCO	22-06-2019 13:03:00	No	No	No	No	No	No
877	AGTCCPP Unit 1	NEEPCO	22-06-2019 13:03:00	No	No	No	No	No	No
878	132 kV Doyang-Sanis Line	DoP, Nagaland	23-06-2019 10:15:00	Yes	Yes	Yes	No	No	No
879	132 kV Kohima - Wokha Line		23-06-2019 10:15:00	No	No	No	No	No	No
880	132 kV Ziro- Daporijo	DoP, Arunachal Pradesh	23-06-2019 12:00:00	Yes	No	No	No	No	No
881	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	23-06-2019 12:56:00	Yes	No	No	No	No	No
882	132 kV Kohima - Wokha Line		23-06-2019 12:56:00	No	No	No	No	No	No
883	132 kV Doyang-Sanis Line	DoP, Nagaland	23-06-2019 19:22:00	Yes	Yes	Yes	No	No	No
884	132 kV Kohima - Wokha Line		23-06-2019 19:22:00	No	No	No	No	No	No
885	132 kV Doyang-Sanis Line	DoP, Nagaland	23-06-2019 20:22:00	Yes	Yes	Yes	No	No	No
886	132 kV Kohima - Wokha Line		23-06-2019 20:22:00	No	No	No	No	No	No
887	132 kV Karong - Kohima Line	MSPCL & DoP, Nagaland	23-06-2019 20:22:00	No	No	No	No	No	No
888	132 kV Gelyphu (Bhutan) - Salakati Line	POWERGRID	24-06-2019 06:22:00	No	No	No	Yes	Yes	Yes
889	132 kV Dimapur (PG) - Kohima Line	POWERGRID & DoP, Nagaland	24-06-2019 12:09:00	No	No	No	No	No	No
890	132 kV Khliehriat (MePTCL) - Khliehriat (PG) 1 Line	POWERGRID	24-06-2019 12:53:00	Yes	No	No	No	No	No
891	132 kV Aizawl - Melriat(PG) Line	POWERGRID	24-06-2019 14:50:00	No	No	No	No	No	No
892	132 kV Badarpur - Kolasib Line	POWERGRID	24-06-2019 14:50:00	Yes	Yes	No	No	No	No
893	220 kV Byrnihat - Misa 2 Line	MePTCL	24-06-2019 14:51:00	No	No	No	Yes	Yes	Yes
894	Kopili Unit 2	NEEPCO	24-06-2019 14:53:00	No	No	No	No	No	No
895	132 kV Gelyphu (Bhutan) - Salakati Line	POWERGRID	25-06-2019 02:49:00	No	No	No	No	Yes	No
896	132 kV Gelyphu (Bhutan) - Salakati Line	POWERGRID	25-06-2019 02:49:00	No	No	No	Yes	Yes	No
897	132 kV Jiribam(PG) - Jiribam(MA) Line	MSPCL	25-06-2019 09:26:00	No	No	No	No	No	No
898	132 kV Jiribam(PG) - Jiribam(MA) Line	MSPCL	25-06-2019 09:26:00	No	No	No	No	No	No
899	132 kV Badarpur - Kolasib Line	POWERGRID	25-06-2019 16:10:00	Yes	Yes	Yes	No	No	No
900	132 kV Badarpur - Kumarghat Line	POWERGRID	25-06-2019 18:56:00	Yes	Yes	Yes	Yes	Yes	Yes
901	132 kV Motonga (Bhutan) - Rangia Line	POWERGRID	26-06-2019 05:00:00	No	No	No	No	No	No
902	220 kV Alipurduar - Salakati 2 Line	POWERGRID	26-06-2019 05:17:00	No	No	No	No	No	No
903	AGTCCPP Unit 4	NEEPCO	26-06-2019 08:38:00	No	No	No	No	No	No
904	AGTCCPP Unit 5	NEEPCO	26-06-2019 08:38:00	No	No	No	No	No	No
905	AGTCCPP Unit 6	NEEPCO	26-06-2019 08:38:00	No	No	No	No	No	No
906	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	26-06-2019 08:39:00	No	No	No	No	No	No
907	132 kV Agartala - AGTCCPP 2 Line	POWERGRID	26-06-2019 08:39:00	No	No	No	No	No	No
908	132 kV Monarchak - Rokhia Line	TSECL	26-06-2019 08:39:00	No	No	No	No	No	No
909	132 kV Agartala - Rokhia 1 Line	TSECL	26-06-2019 08:39:00	No	No	No	No	No	No
910	132 kV Loktak - Ningthoukhong Line	MSPCL	26-06-2019 17:13:00	No	No	No	No	No	No
911	132 kV Loktak - Renggang Line	MSPCL	26-06-2019 17:13:00	No	No	No	No	No	No
912	AGTCCPP Unit 5	NEEPCO	26-06-2019 17:30:00	No	No	No	No	No	No
913	50 MVA, 132/33 kV Transformer 1 at Imphal	POWERGRID	26-06-2019 18:13:00	No	Yes	Yes	No	No	No
914	50 MVA, 132/33 kV Transformer 2 at Imphal	POWERGRID	26-06-2019 18:13:00	No	Yes	Yes	No	No	No
915	AGTCCPP Unit 5	NEEPCO	26-06-2019 19:52:00	No	No	No	No	No	No
916	AGTCCPP Unit 5	NEEPCO	27-06-2019 03:01:00	No	No	No	No	No	No
917	AGTCCPP Unit 3	NEEPCO	27-06-2019 03:01:00	No	No	No	No	No	No
918	AGTCCPP Unit 4	NEEPCO	27-06-2019 03:01:00	No	No	No	No	No	No
919	Monarchak Unit GT	NEEPCO	27-06-2019 03:01:00	Yes	Yes	Yes	No	No	No
920	Monarchak Unit ST	NEEPCO	27-06-2019 03:01:00	Yes	Yes	Yes	No	No	No
921	132 kV Palatana - Surjamaninagar 1 Line	POWERGRID	27-06-2019 03:01:00	Yes	Yes	Yes	No	No	No
922	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	27-06-2019 03:01:00	No	No	No	No	No	No
923	132 kV Agartala - AGTCCPP 2 Line	POWERGRID	27-06-2019 03:01:00	No	No	No	No	No	No
924	AGBPP Unit 6	NEEPCO	27-06-2019 12:01:00	No	No	No	No	No	No
925	132 kV Balipara - Bhalukpong Line	NEEPCO & DoP, Arunachal Pradesh	27-06-2019 14:47:00	No	No	No	No	No	No
926	AGBPP Unit 3	NEEPCO	27-06-2019 20:48:00	No	No	No	No	No	No
927	132 kV Loktak - Renggang Line	MSPCL	28-06-2019 02:49:00	No	No	No	No	No	No
928	132 kV Agartala - AGTCCPP 1 Line	POWERGRID	28-06-2019 05:29:00	No	No	No	No	Yes	Yes
929	132 kV Agartala - Rokhia 1 Line	TSECL	28-06-2019 05:29:00	No	No	No	No	No	No
930	132 kV Agartala - Rokhia 2 Line	TSECL	28-06-2019 05:29:00	No	No	No	No	No	No
931	132 kV Monarchak - Rokhia Line	TSECL	28-06-2019 05:29:00	Yes	Yes	Yes	No	No	No
932	132 kV Motonga (Bhutan) - Rangia Line	POWERGRID	28-06-2019 08:42:00	No	No	No	No	No	No
933	132 kV Aizawl - Kolasib Line	POWERGRID	29-06-2019 10:31:00	No	No	No	No	No	No
934	132 kV Badarpur - Kolasib Line	POWERGRID	29-06-2019 10:31:00	No	Yes	No	No	No	No
935	125 MVA, 400/132 kV ICT 1 at Palatana	OTPC	29-06-2019 11:58:00	Yes	Yes	Yes	No	No	No
936	220 kV Bongaigaon (PG) - Salakati (PG) 2 Line	POWERGRID	29-06-2019 18:02:00	No	No	No	No	No	No
937	132 kV Badarpur - Kolasib Line	POWERGRID	30-06-2019 07:06:00	No	No	No	No	No	No
938	132 kV Aizawl - Kolasib Line	POWERGRID	30-06-2019 07:06:00	No	No	No	No	No	No
939	132 kV Monarchak - Udaipur 1 Line	TSECL	30-06-2019 10:58:00	Yes	Yes	Yes	No	No	No
940	Monarchak Unit GT	NEEPCO	30-06-2019 10:58:00	Yes	Yes	Yes	No	No	No
941	Monarchak Unit ST	NEEPCO	30-06-2019 10:58:00	Yes	Yes	Yes	No	No	No
942	220 kV AGBPP - Tinsukia 2 Line	AEGL	30-06-2019 10:59:00	No	No	No	No	No	No
943	132 kV Doyang-Sanis Line	DoP, Nagaland	30-06-2019 15:52:00	Yes	Yes	Yes	No	No	No
944	132 kV Doyang - Mokokchung (DoP, Nagaland) Line	DoP, Nagaland	30-06-2019 17:26:00	Yes	Yes	Yes	No	No	No

Grid Disturbances in NER Grid

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
1	NER	400 kV Bongaigaon - Alipurduar I, II; 400 kV Bongaigaon - New Siliguri I, II; 400 kV Bongaigaon - Balipara I, II, III; 400/220 kV 315 MVA ICT-1 & 2 at Misa S/s; 400/220 kV 315 MVA ICT-1 & 2 at Azara S/s, 400 kV Bongaigaon - Bgtpp I & II	POWERGRID	05-12-2018 10:19:00	05-12-2018 11:28:00	01:09	At 10:19 Hrs, isolator of 400kV, 50MVAR Bus Reactor # 2 at Bongaigaon Substation opened on load condition. During opening, the arc between the R-Pole of the isolator and nearby structure created R-E fault, resulting in bus dead of 400 kV Bongaigaon Bus due to tripping of lines emanating from 400 kV Bongaigaon on distance protection Z-4 at Bongaigaon/Z-2 at remote end. (315 MVA, 400/220/33 kV ICT at Bongaigaon was under planned shutdown for Conversion of ICT extension bay to Line bay at Salakati Substation, since 16/11/18 and 400 kV Balipara - Bongaigaon IV was hand tripped to reduce voltage since 21:19 Hrs of 04/12/18). Balipara Substation, BNC Sub-Station, Ranganadi Power Station, Pare Power Station, Sonabil area of Assam and Khupi & Capital area of Arunachal Pradesh were connected with rest of NER Grid through 400 kV Bongiagaon – Balipara I, II & III lines, 400/220 kV 315 MVA ICT-1&2 at Misa & +/- 800 kV BNC – Agra Pole I & II as 220 kV Sonabil – Samaguri 1 & 2 lines were out of service during the incident as informed by AEGCL. Immediately after tripping of 400 kV Bongiagaon – Balipara I, II & III lines, load of these areas were shifted to 400/220 kV 315 MVA ICT-1 & 2, which subsequently tripped on Over Current protection. This resulted in blackout of these areas. ICTs at Azara tripped on SPS due to reverse power flow	0	140	0.000	0.177	GD-I
2	NER	132 kV Dimapur (PG) - Dimapur (DOP, Nagaland) I and II, 132 kV Dimapur - Doyang I and II, 132 kV Dimapur (PG) - Kohima I, 132 kV Doyang - Mokokchung (DOP, Nagaland) I Lines	POWERGRID & DoP, Nagaland	05-12-2018 12:01:00	05-12-2018 12:24:00	00:23	Dimapur area of Nagaland Power System was connected to the rest of NER Grid through 132 kV Dimapur(PG) - Dimapur(DOP, Nagaland) I and II lines. At 12:01 Hrs on 05.12.2018, 132 kV Dimapur(PG) - Dimapur (DoP, Nagaland) I and II lines tripped. Due to tripping of these elements, Dimapur area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area. Mokokchung (PG) Substation and Mokokchung area of Nagaland Power System were connected with rest of NER Grid through 132 kV Doyang- Mokokchung line. 132 kV Mariani (AS) - Mokokchung (DoP, Nagaland) line is under long outage. (220 kV Mariani – Mokokchung I,&II lines tripped during Grid Disturbance occurred at 10:19 dtd 05-12-2018). At 12:01 Hrs on 05.12.2018, 132 kV Doyang- Mokokchung line tripped. Due to tripping of this element, Mokokchung area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	0	40	0.000	0.023	GD-I
3	NER	132 kV Doyang - Sanis Line	DoP, Nagaland	20-12-2018 17:35:00	20-12-2018 17:45:00	00:10	Capital area of Nagaland Power System was connected with rest of NER Grid through 132 kV Doyang - Sanis line. 132 kV Karong - Kohima line kept idle charged from Kohima. 132 kV Dimapur (PG) - Kohima (DoP, Nagaland) line was under shutdown since 14:27 Hrs on 20.12.2018 and 66 kV Tuensang - Likhimro line kept open (Cause : construction activities). At 17:35 Hrs on 20.12.2018, 132 kV Doyang - Sanis line tripped. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	40	0.000	0.007	GD-I

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
4	NER	132 kV Imphal (PG) - Loktak, 132 kV Loktak - Ningthoukhong, 132 kV Silchar - Imphal 1 & 400 kV Silchar - Imphal 2	POWERGRID, MSPCL & NHPC	26-12-2018 07:13:00	26-Dec-18 08:35:00	01:22	Imphal (PG) and Manipur Power System except Jiribam & Rengpang load were connected with rest of NER Grid through 400 kV Silchar – Imphal (PG) II Line, 132 kV Silchar – Imphal (PG) I Line, 132 kV Loktak – Ningthoukhong Line & 132 kV Loktak – Imphal (PG) Line. 132 kV Kakching - Kongba line and 132 kV Karong – Kohima line kept open for system requirement. At 07:13 Hrs on 26.12.2018, 400 kV Silchar – Imphal (PG) II Line, 132 kV Silchar – Imphal (PG) I Line, 132 kV Loktak – Ningthoukhong Line & 132 kV Loktak – Imphal (PG) line tripped. Due to tripping of these lines, Imphal (PG) and Manipur Power System except Jiribam & Rengpang load were isolated from rest of NER grid and collapsed due to no source in this area.	0	168	0.000	0.187	GD-I
5	NER	132 kV Balipara - Khupi	NEEPCO & DoP, Arunachal Pradesh	28-12-2018 19:51:00	28-Dec-18 20:12:00	00:21	Khupi area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Balipara - Khupi line. At 19:51 Hrs on 28-12-18, 132 kV Balipara-Khupi line tripped. Due to tripping of this line, Khupi area was isolated from rest of NER grid and collapse due to no source in this area.	0	27	0.000	0.015	GD-I
6	NER	132 kV Aizawl - Kolasib and 132 kV Badarpur - Kolasib	POWERGRID	30-12-2018 13:35:00	30-Dec-18 14:01:00	00:26	Kolasib area of Mizoram Power System was connected with rest of NER Grid through 132 kV Kolasib-Badarpur line & 132 kV Kolasib-Aizwal line. At 13:35 Hrs on 30.12.2018, 132 kV Kolasib-Badarpur line & 132 kV Kolasib-Aizwal line tripped. Due to tripping of these elements, Kolasib area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	8	21	0.019	0.010	GD-I
7	NER	132 kV Ranganadi - Ziro & 132 kV Daporijo - Ziro	POWERGRID, DoP, Arunachal Pradesh	04-01-2019 14:35:00	04-01-2019 15:00:00	00:25	Ziro area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Ranganadi - Ziro Line. At 14:35 Hrs on 04.01.19, 132 kV Ranganadi - Ziro Line tripped. Due to tripping of this element, Ziro area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	13	0.000	0.005	GD-I
8	NER	Meghalaya power system (except Menthipathar area).	POWERGRID & MePTCL	16-01-2019 21:03:00	16-01-2019 21:15:00	00:12:00	Meghalaya Power System (except Mendipathar area) was connected with rest of the NER Grid through 132 kV Khleihriat-Khleihriat D/C, 132 kV Killing (Byrnihat) - EPIP I D/C and 132 kV Killing (Byrnihat) - EPIP II D/C. 132 kV Nangalbibra-Nongstoin line was kept open from 15:51 Hrs of 16.01.2019 for controlling over loading of 132 kV Khleihriat - Khleihriat I & II line. 132 kV Lumshnong - Panchgram line was kept open from 17:50 Hrs of 16.01.2019 for controlling over loading of 132 kV Badarpur-Panchgram line. At 21:03 Hrs on 16.01.19, 132 kV Killing (Byrnihat) - EPIP I D/C and 132 kV Killing (Byrnihat) - EPIP II D/C tripped due to which 132 kV Khleihriat-Khleihriat D/C got overloaded and subsequently tripped on over current protection at Khleihriat(MePTCL). Due to tripping of these lines, Meghalaya Power System (except Mendipathar area) was separated from rest of the NER Grid and collapsed due to load generation mismatch in these areas.	104	269	0.021	0.054	GD-II
9	NER	132 kV Dharmanagar - Dullavcherra; 132 kV P K Bari - Dharmanagar & 132 kV Hailakandi - Dullavcherra	AEGCL & TSECL	17-01-2019 13:56:00	17-01-2019 14:14:00	00:18:00	Dharmanagar area of Tripura Power System and Dullavcherra area of Assam Power System were connected with rest of the NER Grid through 132 kV P K Bari - Dharmanagar line and 132 kV Hailakandi - Dullavcherra line. At 13:56 Hrs on 17.01.19, 132 kV P K Bari - Dharmanagar and 132 kV Hailakandi - Dullavcherra lines tripped. Due to tripping of these lines, Dharmanagar area of Tripura Power System and Dullavcherra area of Assam Power System were separated from rest of the NER Grid and subsequently collapsed due to no source in these areas.	0	22	0.000	0.006	GD-I

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
10	NER	P K Bari, Ambasa and Dharmanagar areas of Tripura Power System and Dullavchera area of Assam	AEGCL, TSECL & POWERGRID	21-01-2019 08:43:00	21-01-2019 09:02:00	00:19:00	<p>P K Bari, Ambasa and Dharmanagar areas of Tripura Power System and Dullavchera area of Assam were connected with rest of the NER grid through 132 kV P K Bari - Silchar 1 & 2 lines, 132 kV P K Bari - Kumarghat line, 132 kV Ambasa - Gamaitila line, 132 kV P K Bari - Kamalpur line and 132 kV Hailakandi - Dullavcher line. 132 kV Ambasa - Kamalpur line kept open at Ambasa end.</p> <p>At 08:43 Hrs on 21.01.19, 132 kV P K Bari - Silchar 1 & 2 lines, 132 kV P K Bari - Kumarghat line, 132 kV Ambasa - Gamaitila line, 132 kV P K Bari - Kamalpur line and 132 kV Hailakandi - Dullavcher line tripped. Due to tripping of these elements, P K Bari, Ambasa and Dharmanagar areas of Tripura Power System were separated from rest of the NER grid and subsequently collapsed due to no source in these areas.</p>	0	25	0.000	0.008	GD-I
11	NER	Kamalpur and Rangia areas of Assam Power System and Motonga area of Bhutan Power System	AEGCL	23-01-2019 14:11:00	23-01-2019 16:17:00	02:06:00	<p>Kamalpur and Rangia areas of Assam Power System and Motonga area of Bhutan Power System were connected with rest of NER Grid through 132 kV Kamalpur- Kahilipara line. 132 kV Rangia-Bornagar line and 132 kV Rangia-Nalbari line kept open due to voltage issue, 132kV Rangia - Sipajhar line, 132 kV Rangia- Rowta line and 132 kV Sisugram - Kamalpur line kept open due to overloading of due to voltage issue.</p> <p>At 14:11 Hrs on 23.01.2019, 132 kV Kamalpur- Kahilipara line tripped. Due to tripping of this element, Kamalpur and Rangia areas of Assam Power System and Motonga area of Bhutan Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.</p>	0	39	0.000	0.082	GD-I
12	NER	Imphal area (capital area) of Manipur Power System	MSPCL & POWERGRID	26-01-2019 05:37:00	26-01-2019 06:08:00	00:31:00	<p>Imphal area (capital area) of Manipur Power System was connected with rest of NER Grid through 132 kV Imphal (PG) - Imphal I & II lines (132 kV Kakching-Kongba line kept open for overloading of 132 kV Imphal - Ningthoukhong line kept open for overloading of Loktak - Ningthoukhong and 132 kV Karong - Kohima (NG) line kept open for overloading of 132 kV Dimapur (PG) - Kohima (NG) line).</p> <p>At 05:37 Hrs on 26.01.2019, 132 kV Imphal-Imphal I & II lines tripped. Due to tripping of these elements, Imphal area (capital area) was separated from rest of NER Grid and subsequently collapsed due to no source in these areas.</p>	0	45	0.000	0.023	GD-I
13	NER	Hailakandi area of Assam Power System	AEGCL & POWERGRID	26-01-2019 13:23:00	26-01-2019 14:07:00	00:44:00	<p>Hailakandi area of Assam Power System was connected with rest of the NER Grid through 132 kV Silchar - Hailakandi I & II lines, 132 kV Dullavchera - Hailakandi line and 132 kV Hailakandi - Panchgram line.</p> <p>At 13:23 Hrs on 26.01.2019, 132 kV Silchar - Hailakandi I & II lines, 132 kV Dullavchera - Hailakandi line and 132 kV Hailakandi - Panchgram line tripped. Due to tripping of these elements, Hailakandi area of Assam Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.</p>	0	15	0.000	0.010	GD-I
14	NER	Ningthoukhong area of Manipur Power System and Kongba S/S	MSPCL, NHPC & POWERGRID	27-01-2019 14:06:00	27-01-2019 14:30:00	00:24:00	<p>Ningthoukhong area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak-Ningthoukhong line.132 kV Kongba S/S was connected to Manipur Power System via. 132 kV Yaingangpokpi - Kongba line. 132 kV Imphal (PG) - Ningthoukhong line and 132 kV Kakching-Kongba line kept open for overloading of 132 kV Loktak-Ningthoukhong line.</p> <p>At 14:06 Hrs on 27.01.2019, 400kV Silchar-Imphal I line; 132 kV Loktak- Ningthoukhong line, 132 kV Loktak-Jiribam line & 132 kV Yaingangpokpi - Kongba line tripped. Due to tripping of these elements, Ningthoukhong area and Kongba S/S were blacked out and were separated from rest of NER Grid and subsequently collapsed due to no source in this area.</p>	0	36	0.000	0.014	GD-I

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
15	NER	Itanagar area (capital area) of Arunachal Pradesh Power System	NEEPCO & DoP, Arunachal Pradesh	29-01-2019 12:48:00	29-01-2019 13:25:00	00:37:00	<p>Itanagar area (capital area) of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Ranganadi - Itanagar & 132 kV Pare - Itanagar (132 kV Lekhi-Itanagar line kept open due to low CT ratio restriction at Lekhi end).</p> <p>At 12:48 Hrs on 29.01.2019, 132 kV Ranganadi - Itanagar & 132 kV Pare - Itanagar lines tripped. Due to tripping of these elements, Itanagar area (capital area) was separated from rest of NER Grid and subsequently collapsed due to no source in these areas.</p>	0	11	0.000	0.007	GD-I
16	NER	Imphal area (capital area) of Manipur Power System	MSPCL & POWERGRID	29-01-2019 17:43:00	29-01-2019 17:51:00	00:08:00	<p>Imphal area (capital area) of Manipur Power System was connected with rest of NER Grid through 132 kV Imphal (PG) - Imphal I & II lines (132 kV Kakching-Kongba line kept open for overloading of 132 kV Loktak - Ningthoukhong line and 132 kV Karong - Kohima (NG) line kept open for overloading of 132 kV Dimapur (PG) - Kohima (NG) line).</p> <p>At 17:43 Hrs on 29.01.2019, 132 kV Imphal-Imphal I & II lines tripped. Due to tripping of these elements, Imphal area (capital area) was separated from rest of NER Grid and subsequently collapsed due to no source in these areas.</p>	0	110	0.000	0.015	GD-I
17	NER	Dhalabil area of Tripura Power System	TSECL	05-Feb-19 16:45	05-Feb-19 21:27	04:42	<p>Dhalabil area of Tripura Power System was connected with rest of NER Grid through 132 kV Agartala-Dhalabil & 132 kV Dhalabil-Kamalpur lines.</p> <p>At 16:45 Hrs on 05.02.2019, 132 kV Agartala-Dhalabil & 132 kV Dhalabil-Kamalpur lines tripped. Due to tripping of these elements, Dhalabil area of Tripura Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.</p>	0	25	0.000	0.117	GD-I
18	NER	Imphal area (capital area) of Manipur Power System	MSPCL & POWERGRID	08-Feb-19 18:25	08-Feb-19 18:58	00:33	<p>Imphal area (capital area) of Manipur Power System was connected with rest of NER Grid through 132 kV Imphal (PG) - Imphal I & II lines (132 kV Kakching - Kongba line kept open for overloading of 132 kV Loktak - Ningthoukhong line and 132 kV Karong - Kohima (NG) line kept open due to system requirement</p> <p>At 18:25 Hrs on 08.02.2019, 132 kV Imphal-Imphal I & II lines tripped. Due to tripping of these elements, Imphal area (capital area) was separated from rest of NER Grid and subsequently collapsed due to no source in this area.</p>	0	93	0.000	0.116	GD-I
19	NER	132 kV Loktak-Ningthoukhong	MSPCL	17-Feb-19 10:08	17-Feb-19 10:33	00:25	<p>Ningthoukhong area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak - Ningthoukhong line. 132 kV Imphal(PG) - Ningthoukhong line & 132 kV Kakching-Kongba line kept open (for overloading of 132 kV Loktak-Ningthoukhong line).</p> <p>At 10:08 Hrs on 17.02.2019, 132 kV Loktak-Ningthoukhong line tripped. Due to tripping of this element, Ningthoukhong area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.</p>	0	40	0.000	0.017	GD-I

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
20	NER	132 kV Dimapur(PG) - Kohima (DoP, Nagaland)	DoP Nagaland & POWERGRID	17-Feb-19 13:12	17-Feb-19 13:33	00:21	Capital area of Nagaland Power System was connected with rest of NER Grid through 132 kV Dimapur(PG) - Kohima (DoP, Nagaland) line. 132 kV Karong - Kohima line kept idle charged from Kohima, 132 kV Wokha - Kohima line was kept open (Cause : PSDF work at Wokha substation) & 66 kV Tuensang - Likhimro line kept open (Cause : construction activities). At 13:12 Hrs on 17.02.2019, 132 kV Dimapur(PG) - Kohima (DoP, Nagaland) line tripped. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	30	0.000	0.007	GD-I
21	NER	220/132 kV, 100 MVA ICT I, II & III at Sarusajai and 132 kV Sarusajai-Sishugram 1 Line	AEGCL	17-Feb-19 11:13	17-Feb-19 11:24	00:11	Capital Area of Assam Power System and Motonga area of Bhutan Power System were connected with the rest of the NER grid through 220/132 kV, 100 MVA ICT I, II & III of Sarusajai substation. 132 kV Kahilipara- Narengi line and 132 kV Dispur - CTPS line were kept open to control overloading of 3x100 MVA ICTs at Sarusajai substation. 132 kV Rangia-Bornagar line and 132 kV Rangia-Nalbari line kept open due to voltage dip issue and over loading of 220/132 kV BTPS ICT 1 & 2. 132 kV Rangia - Sipajhar line, 132 kV Rangia- Rowta line and 132 kV Sisugram - Kamalpur lines were kept open due to voltage dip issue. At 11:13 Hrs on 17.02.2019, 220/132 kV, 100 MVA ICT I, II & III of Sarusajai substation tripped. Due to tripping of these elements, Capital Area of Assam Power System and Motonga area of Bhutan Power System were separated from the rest of the NER grid and subsequently collapsed due to no source in these areas.	0	165	0.000	0.030	GD-I
22	NER	Imphal area (capital area) of Manipur Power System	MSPCL & POWERGRID	19-Feb-19 13:45	19-Feb-19 13:51	00:06	Imphal area (capital area) of Manipur Power System was connected with the rest of the NER grid through 132 kV Imphal(PG)-Imphal(MA) I & II lines. 132 kV Karong(MA) - Kohima (NG) line kept open due to CT ratio restriction and 132 kV Kakching(MA)-Kongba(MA) line was kept open to avoid overloading of 132 kV Loktak-Ningthoukong line. At 13:45 Hrs on 19.02.2019, 132 kV Imphal(PG)-Imphal(MA) I & II lines tripped. Due to tripping of these elements, Imphal area (capital area) of Manipur Power System was separated from the rest of the NER grid and subsequently collapsed due to no source in this area.	0	51	0.000	0.005	GD-I
23	NER	Imphal area (capital area) of Manipur Power System	MSPCL & POWERGRID	23-Feb-19 19:39	23-Feb-19 20:02	00:23	Imphal area (capital area) of Manipur Power System was connected with the rest of the NER grid through 132 kV Imphal (PG)-Imphal (MA) I & II lines. 132 kV Karong (MA) - Kohima (DoP, Nagaland) line kept open due to CT ratio restriction and 132 kV Kakching (MA)-Kongba (MA) line was kept open to avoid overloading of 132 kV Loktak-Ningthoukong line. At 19:39 Hrs on 23.02.2019, 132 kV Imphal (PG)-Imphal (MA) I & II lines tripped. Due to tripping of these elements, Imphal area (capital area) of Manipur Power System was separated from the rest of the NER grid and subsequently collapsed due to no source in this area.	0	80	0.000	0.031	GD-I
24	NER	132 kV Doyang - Sanis line	DoP Nagaland	27-Feb-19 06:00	27-Feb-19 06:17	00:17	Capital area of Nagaland Power System was connected with rest of NER Grid through 132 kV Doyang - Sanis line. 132 kV Karong - Kohima line kept idle charged from Kohima, 132 kV Dimapur (PG) - Kohima (DoP, Nagaland) line was under shutdown since 13:59 Hrs on 26.02.2019 and 66 kV Tuensang - Likhimro line kept open (Cause : construction activities). At 06:00 Hrs on 27.02.2019, 132 kV Doyang - Sanis line tripped. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	8	23	0.002	0.007	GD-I

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
25	NER	132 kV Ranganadi-Ziro line	POWERGRID	11-Mar-19 10:20	11-Mar-19 10:55	35 mins	Ziro area of Arunachal Power System was connected with rest of NER Grid radially through 132 kV Ranganadi-Ziro line. At 10:20 Hrs on 11.03.2019, 132 kV Ranganadi-Ziro line tripped. Due to tripping of this element, Ziro area of AP was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	13	0	0.012	GD 1
26	NER	132 kV Ranganadi-Ziro line	POWERGRID	11-Mar-19 11:52	11-Mar-19 12:05	13 mins	Ziro area of Arunachal Power System was connected with rest of NER Grid radially through 132 kV Ranganadi-Ziro line. At 11:52 Hrs on 11.03.2019, 132 kV Ranganadi-Ziro and 132 kV Ziro-Daporijo line tripped simultaneously. Due to tripping of this element, Ziro area of AP was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	10	0	0.007	GD 1
27	NER	132 kV Doyang - Sanis line	DoP Nagaland	13-Mar-19 10:27	13-Mar-19 10:45	18 mins	Capital area of Nagaland Power System was connected with rest of NER Grid through 132 kV Doyang - Sanis line. 132 kV Karong - Kohima line kept idle charged from Kohima, 132 kV Dimapur (PG) - Kohima (DoP, Nagaland) line was under shutdown since 13:59 Hrs on 26.02.2019 and 66 kV Tuensang - Likhimro line kept open (Cause : construction activities). At 10:27 Hrs on 13.03.2019, 132 kV Doyang - Sanis line tripped. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	8	32	0.0024	0.01	GD 1
28	NER	132 kV Ziro - Daporijo line	DoP Arunachal Pradesh	15-Mar-19 11:47	15-Mar-19 14:02	2 hrs 15 mins	Daporijo area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Ziro - Daporijo line. At 11:47 Hrs on 15.03.2019, 132 kV Ziro - Daporijo line tripped. Due to tripping of this element, Daporijo area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	13	0	0.029	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
29	NER	132 kV Dimapur (PG) - Doyang (NEEPCO) I & II lines	POWERGRID	16-Mar-19 11:08	16-Mar-19 11:17	9 mins	Capital area of Nagaland Power System was connected with rest of NER Grid through 132 kV Dimapur (PG) - Doyang (NO) I & II lines. 132 kV Dimapur (PG) - Kohima line was under shutdown since 13:59 hrs of 26.02.19 for rectification work due to blasting and excavation works on National Highway. 132 kV Karong (MA) - Kohima (DoP, Nagaland) line kept idle charged from Kohima end and 66 kV Tuensang - Likhimro line kept open due to construction activities. 132 kV Doyang - Mokochung (DoP, Nagaland) line was kept open from Doyang end to avoid over-loading of 220/132 kV, 30 MVA ICT I at Mokochung (PG) (220/132 kV, 30 MVA ICT II at Mokochung (PG) was under OCC approved shutdown). At 11:08 Hrs on 16.03.2019, 132 kV Dimapur (PG) - Doyang (NO) I & II lines tripped. Due to tripping of these elements, Capital area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	24	0	0.004	GD 1
30	NER	132 kV Hailakandi - Panchgram line	AEGCL	18-Mar-19 15:58	18-Mar-19 16:50	52 mins	Lumshnong Area of Meghalaya Power System and Panchgram Area of Assam Power System were connected with the rest of NER Grid via 132 kV Hailakandi - Panchgram line. (132 kV Srikona - Panchgram line was under outage since 14th June 2018 because of tower collapse, 132 kV Badarpur - Panchgram line was under planned shutdown, 132 kV Khliehriat - Lumshnong line was kept opened to control overloading of 132 kV Panchgram - Lumshnong line.). At 15:58 Hrs dated 18.03.19, 132 kV Hailakandi - Panchgram line tripped. Due to tripping of this element, Lumshnong Area of Meghalaya Power System and Panchgram Area of Assam Power System were separated from the rest of NER Grid and subsequently collapsed due to no source in these areas.	0	66	0	0.057	GD 1
31	NER	132 kV Balipara-Khupi line	NEEPCO & DoP AP	26-Mar-19 15:08	26-Mar-19 15:43	35 mins	Khupi area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Balipara- Khupi line. At 15:08 Hrs on 26.03.2019, 132 kV Balipara-Khupi line tripped. Due to tripping of this element, Khupi area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	25	0	0.015	GD 1
32	NER	132 kV Badarpur-Kolasib line and 132 kV Aizawal- Kolasib line	POWERGRID	27-Mar-19 10:18	27-Mar-19 10:44	26 mins	Kolasib area of Mizoram Power System was connected with rest of NER Grid through 132 kV Badarpur- Kolasib line and 132 kV Aizawal- Kolasib line. At 10:18 Hrs on 27.03.2019, 132 kV Badarpur- Kolasib line and 132 kV Aizawal- Kolasib line tripped. Due to tripping of these lines, Kolasib area of Mizoram Power System was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	20	4	0.0086	0.002	GD 1
33	NER	132 kV Dimapur (PG)-Dimapur (DoP, Nagaland) I & II lines	POWERGRID & DoP Nagaland	27-Mar-19 15:35	27-Mar-19 15:56	21 mins	Dimapur area of Nagaland Power System was connected with rest of NER Grid through 132 kV Dimapur (PG)-Dimapur (NA) I & II lines. At 15:35 Hrs on 27.03.2019, 132 kV Dimapur (PG)-Dimapur (DoP, Nagaland) I & II lines tripped. Due to tripping of these elements, Dimapur area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	49	0	0.017	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
34	NER	132 kV Loktak- Ningthoukhong line	MSPCL	27-Mar-19 21:31	27-Mar-19 22:02	31 mins	Ningthoukhong area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak - Ningthoukhong line. 132 kV Imphal(PG) - Ningthoukhong line & 132 kV Kakching-Kongba line kept open (for overloading of 132 kV Loktak-Ningthoukhong line). At 21:31 Hrs on 27.03.2019, 132 kV Loktak-Ningthoukhong line tripped. Due to tripping of this element, Ningthoukhong area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	57	0	0.029	GD 1
35	NER	132 kV Lekhi - Pare line and 132 kV Nirjuli - Lekhi Line	DoP AP , POWERGRID & NEEPCO	31-Mar-19 12:00	31-Mar-19 12:25	25 mins	Lekhi Area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Lekhi - Pare line and 132 kV Nirjuli - Lekhi Line. 132 kV Lekhi - Itanagar line was kept open due to CT ratio restriction. At 12:00 Hrs on 31.03.2019, 132 kV Lekhi - Pare line and 132 kV Nirjuli - Lekhi Line tripped. Due to tripping of these lines, Lekhi Area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	10	0	0.004	GD 1
36	NER	132 kV Sarusajai - Kahilipara 1,2,3 &4 lines	AEGCL	31-Mar-19 12:07	31-Mar-19 13:25	1 hrs 18 mins	Capital Area of Assam Power System and Motonga area of Bhutan Power System were connected with the rest of the NER grid through 132 kV Sarusajai - Kahilipara 1,2,3 &4 lines. 132 kV Kahilipara- Narengi line and 132 kV Dispur - CTPS line were kept open to control overloading of 3x100 MVA ICTs at Sarusajai substation. 132 kV Rangia- Bornagar line and 132 kV Rangia-Nalbari line kept open due to voltage dip issue and over loading of 220/132 kV BTPS ICT 1 & 2. 132 kV Rangia - Sipajhar line & 132 kV Rangia- Rowta line were kept open due to voltage dip issue. 132 kV Sarusajai - Kamakhya line was under shutdown from 07:14 Hrs on 31.03.19 for AMP. At 12:07 Hrs on 31.03.2019, 132 kV Sarusajai - Kahilipara 1,2,3 &4 lines tripped. Due to tripping of these elements, Capital Area of Assam Power System and Motonga area of Bhutan Power System were separated from the rest of the NER grid and subsequently collapsed due to no source in these areas.	0	110	0	0.143	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
37	NER	132 kV Balipara-Khupi line	NEEPCO & DoP Arunachal Pradesh	31-Mar-19 13:23	31-Mar-19 14:19	56 mins	Khupi area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Balipara- Khupi line. At 13:23 Hrs on 31.03.2019, 132 kV Balipara- Khupi line tripped. Due to tripping of this element, Khupi area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	25	0	0.055	GD 1
38	NER	132 kV Daporijo - Ziro Line	DoP Arunachal Pradesh	31-Mar-19 15:23	31-Mar-19 16:00	37 mins	Daporizo area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Ziro (PG)-Daporizo line. At 15:23 Hrs on 31.03.2019, 132 kV Ziro (PG)-Daporizo line tripped. Due to tripping of this element, Daporizo area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	12	0	0.01	GD 1
39	NER	132 kV Loktak-Ningthoukhong line	MSPCL	01-Apr-19 23:55	02-Apr-19 00:05	10 mins	Ningthoukhong area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak - Ningthoukhong line. 132 kV Imphal(PG) - Ningthoukhong line & 132 kV Kakching-Kongba line kept open (for overloading of 132 kV Loktak-Ningthoukhong line). At 23:55 Hrs on 01.04.2019, 132 kV Loktak-Ningthoukhong line tripped. Due to tripping of this element, Ningthoukhong area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	17	0	0.003	GD 1
40	NER	132 kV Doyang - Sanis line	DoP Nagaland	02-Apr-19 13:50	02-Apr-19 14:15	25 mins	Capital area of Nagaland Power System was connected with rest of NER Grid through 132 kV Doyang - Sanis line.(132 kV Dimapur-Kohima line is under shutdown since 13:59 Hrs of 26.02.19 for rectification work due to blasting and excavation works on National Highway, 132 kV Karong - Kohima line is idle charged from Kohima end as this line is quite old and due to weak jumper arrangement, the power flow in this line is limited to 30 MW & 66 kV Tuensang - Likhimro line is kept open due to construction activities.) At 13:50 Hrs on 02.04.2019, 132 kV Doyang - Sanis line tripped. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	22	0	0.011	GD 1
41	NER	132 kV Doyang - Sanis line	DoP Nagaland	02-Apr-19 14:28	02-Apr-19 15:29	1 hrs 1 mins	Capital area of Nagaland Power System was connected with rest of NER Grid through 132 kV Doyang - Sanis line.(132 kV Dimapur-Kohima line which is under shutdown since 13:59 Hrs of 26.02.19 for rectification work due to blasting and excavation works on National Highway, 132 kV Karong - Kohima line which is idle charged from Kohima end as this line is quite old and due to weak jumper arrangement, the power flow in this line is limited to 30 MW & 66 kV Tuensang - Likhimro line kept open due to construction activities.) At 14:28 Hrs on 02.04.2019, 132 kV Doyang - Sanis line tripped. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	20	0	0.02	GD 1
42	NER	132 kV Ranganadi - Ziro line	POWERGRID	02-Apr-19 14:36	02-Apr-19 15:02	26 mins	Ziro area of Arunachal Power System was connected with rest of NER Grid radially through 132 kV Ranganadi - Ziro line. At 14:36 Hrs on 02.04.2019, 132 kV Ranganadi-Ziro line tripped. Due to tripping of this element, Ziro area of Arunachal Pradesh was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	17	0	0.012	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
43	NER	132 kV Lekhi - Pare line	POWERGRID, DoP AP and NEEPCO	02-Apr-19 21:07	02-Apr-19 21:33	26 mins	Lekhi Area & Nirjuli area of Arunachal Pradesh Power System were connected with rest of NER Grid through 132 kV Lekhi - Pare line. (132 kV Lekhi - Itanagar line was kept open due to CT ratio restriction & 132 kV Gohpur – Nirjuli line was opened at 17:58 Hrs to avoid over loading of 132 kV Pare – Lekhi line) At 22:07 Hrs on 02.04.2019, 132 kV Lekhi - Pare line tripped. Due to tripping of this line, Lekhi Area & Nirjuli area were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.	0	28	0	0.012	GD 1
44	NER	400 kV Palatana-Silchar 2 line	NETC, POWERGRID & TSECL	03-Apr-19 16:01	03-Apr-19 16:20	19 mins	Tripura Power System except P.K Bari area, Bangladesh Power System, Palatana Units and AGTCCPP Units were connected with rest of NER Grid through 400 kV Silchar - Palatana 2 line, 132 kV AGTTP - Kumarghat line & 132 kV PK Bari-Kamalpur line (400 kV Silchar - Palatana 1 line was under emergency shutdown, 132 kV Baramura – Gamaitilla line was under shutdown and 132 kV Ambassa – Kamalpur line was kept open to avoid over loading). At 16:01 Hrs, 400 kV Palatana-Silchar 2 tripped. Subsequently, SPS-2 operated at Palatana and SPS-1 operated at Silchar. Palatana GTG 1 & GTG 2 tripped at 16:01 Hrs and consequently STG 1 & 2 tripped. Monarchak GTG tripped at 16:01 Hrs and STG at 16:01 Hrs. Due to tripping of ICTs at Palatana and subsequent tripping of units in Tripura Power System, power flow shifted to 132 kV Agartala–Dhalabil–Kamalpur-P.K Bari link and 132 kV Kumarghat-AGTCCPP-Agartala link. 132 kV P.K Bari-Kamalpur line tripped at 16:02 Hrs and consequently 132 kV Kumarghat-AGTCCPP line tripped on over current. Due to tripping of these elements, Tripura Power System, were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.	823	236	0.261	0.075	GD 5
45	NER	132 kV Biswanath Chariali - Pavo I and II lines, 132 kV Sonabil- Pavo I line and 132 kV Sonabil - Gohpur line	AEGCL	04-Apr-19 23:24	04-Apr-19 23:35	11 mins	Pavoi - Gohpur Area of Assam Power System was connected with the rest of NER Grid through 132 kV Biswanath Chariali - Pavo I and II lines, 132 kV Sonabil- Pavo I line and 132 kV Sonabil - Gohpur line (132 kV Bus Coupler at Gohpur was kept opened for overloading of 132 kV Pare - Lekhi Line) At 23:24 Hrs on 04.04.2019, 132 kV Biswanath Chariali - Pavo I and II lines, 132 kV Sonabil- Pavo I line and 132 kV Sonabil - Gohpur line tripped. Due to tripping of these element, PavoiGohpur Area of Assam Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	40	0	0.007	GD 1
46	NER	132 kV Doyang - Sanis line	DoP, Nagaland	13-Apr-19 15:50	13-Apr-19 17:33	1 hrs 43 mins	Capital area of Nagaland Power System was connected with rest of NER Grid through 132 kV Doyang - Sanis line.(132 kV Dimapur-Kohima line is under shutdown since 13:59 Hrs of 26.02.19 for rectification work due to blasting and excavation works on National Highway, 132 kV Karong - Kohima line is idle charged from Kohima end as this line is quite old and due to weak jumper arrangement, the power flow in this line is limited to 30 MW & 66 kV Tuensang - Likhimro line is kept open due to construction activities.) At 15:50 Hrs on 13.04.2019, 132 kV Doyang - Sanis line tripped. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	15	0	0.026	GD 1
47	NER	132 kV Loktak- Ningthoukhong line	MSPCL	13-Apr-19 18:21	13-Apr-19 18:40	19 mins	Ningthoukhong area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak - Ningthoukhong line. 132 kV Imphal(PG) - Ningthoukhong line & 132 kV Kakching - Kongba line kept open (for overloading of 132 kV Loktak- Ningthoukhong line). At 18:21 Hrs on 13.04.2019, 132 kV Loktak-Ningthoukhong line tripped. Due to tripping of this element, Ningthoukhong area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	50	0	0.016	GD 1

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48	NER	132 kV Ranganadi - Ziro line	POWERGRID	14-Apr-19 15:52	14-Apr-19 16:11	19 mins	Ziro area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Ranganadi - Ziro line. At 15:52 Hrs on 14.04.2019, 132 kV Ranganadi - Ziro line tripped. Due to tripping of this element, Ziro area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	15	0	0.005	GD 1
49	NER	400 kV Silchar - Imphal(PG) 1 line	POWERGRID	15-Apr-19 09:19	15-Apr-19 09:52	33 mins	Manipur Power System and Loktak Power Station were connected with rest of NER Grid through 400 kV Silchar - Imphal(PG) 1 line. 132 kV Karong - Kohima line kept idle charged from Kohima end and 132 kV Jiribam(MSPCL) - Rengpang line is under long outage. 400 kV Silchar- Imphal 2 line and 132 kV Jiribam (PG) - Loktak 2 line were under outage since 09:17 Hrs on 15.04.19. At 09:19 Hrs on 15.04.19, 400 kV Silchar - Imphal(PG) 1 line tripped. Due to tripping of these elements, Manipur Power System and Loktak Power Station were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	84	0	0.0462	GD 1
50	NER	132 kV Doyang - Sanis line	DoP, Nagaland	16-Apr-19 10:29	16-Apr-19 11:17	48 mins	Capital area of Nagaland Power System was connected with rest of NER Grid through 132 kV Doyang - Sanis line. (132 kV Dimapur-Kohima line is under shutdown since 13:59 Hrs of 26.02.19 for rectification work due to blasting and excavation works on National Highway, 132 kV Karong - Kohima line is idle charged from Kohima end as this line is quite old and due to weak jumper arrangement, the power flow in this line is limited to 30 MW & 66 kV Tuensang - Likhimro line is kept open due to construction activities.) At 10:29 Hrs on 16.04.2019, 132 kV Doyang - Sanis line tripped. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed due to no source in this area	0	23	0	0.018	GD 1
51	NER	132 kV Doyang - Mokokchung (DOP, Nagaland) and 220 kV Mariani (PG) - Mokokchung (PG) 1 & 2 lines	POWERGRID & DoP, Nagaland	16-Apr-19 11:30	16-Apr-19 11:54	24 mins	Mokokchung (PG) substation and Mokokchung area of Nagaland Power System were connected with rest of NER Grid through 132 kV Doyang -Mokokchung (DOP, Nagaland) and 220 kV Mariani (PG) - Mokokchung (PG) 1 & 2 lines. 132 kV Mokokchung (DOP, Nagaland)-Marianai (AS) is under long outage & 66 kV Tuensang-Likimro line kept open for due to construction activities. At 11:30 Hrs on 16.04.2019, 132 kV Doyang - Mokokchung (DOP, Nagaland) and 220 kV Mariani (PG) - Mokokchung (PG) 1 & 2 lines tripped. Due to tripping of these elements, Mokokchung (PG) substation and Mokokchung area were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	16	0	0.0064	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
52	NER	132 kV Doyang - Sanis line	DoP, Nagaland	17-Apr-19 05:34	17-Apr-19 06:02	28 mins	Capital area of Nagaland Power System was connected with rest of NER Grid through 132 kV Doyang - Sanis line. (132 kV Dimapur-Kohima line is under shutdown since 13:59 Hrs of 26.02.19 for rectification work due to blasting and excavation works on National Highway, 132 kV Karong - Kohima line is idle charged from Kohima end as this line is quite old and due to weak jumper arrangement, the power flow in this line is limited to 30 MW & 66 kV Tuensang - Likhimro line is kept open due to construction activities.) At 05:34 Hrs on 17.04.2019, 132 kV Doyang - Sanis line tripped. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed due to no source in this area	0	19	0	0.009	GD 1
53	NER	132 kV Loktak- Ningthoukhong line	MSPCL	17-Apr-19 06:11	17-Apr-19 06:52	41 mins	Ningthoukhong area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak - Ningthoukhong line. 132 kV Imphal(PG) - Ningthoukhong line & 132 kV Kakching - Kongba line kept open for overloading of 132 kV Loktak- Ningthoukhong line. At 06:11 Hrs on 17.04.2019, 132 kV Loktak-Ningthoukhong line tripped. Due to tripping of this element, Ningthoukhong area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	14	0	0.01	GD 1
54	NER	132 kV Imphal (PG)- Imphal (MSPCL) I & II line	MSPCL & POWERGRID	17-Apr-19 06:35	17-Apr-19 07:04	29 mins	Capital Area of Manipur Power System were connected with rest of NER Grid through 132 kV Imphal (PG)- Imphal (MSPCL) I & II lines. 132 kV Karong - Kohima line kept idle charged from Kohima end and 132 kV Kakching - Kongba line kept open for overloading of 132 kV Loktak-Ningthoukhong line. At 06:35 Hrs on 17.04.19, 132 kV Imphal (PG)- Imphal (MSPCL) I & II line tripped. Due to tripping of these elements, Capital Area of Manipur Power System were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	55	0	0.027	GD 1
55	NER	400 kV Silchar - Azara line, 400 kV Silchar - Byrnihat (Killing) line and 132 kV Byrnihat (Killing) - EPIP-2 (Norbong) 1 & 2 lines	NETC, OTPC, POWERGRID, MePTCL	20-Apr-19 11:50	20-Apr-19 15:30	3 hrs 40 mins	Southern Part of NER Grid consisting of Tripura including Bangladesh Load, South Assam, Part of Meghalaya, Manipur including Myanmar load and Mizoram were connected with rest of NER Grid through 400 kV Silchar - Azara line, 400 kV Silchar - Byrnihat (Killing) line and 132 kV Byrnihat (Killing) - EPIP-2 (Norbong) 1 & 2 lines. 132 kV Byrnihat (Killing) - EPIP-1 D/C lines were under outage since due to tower collapse, 220 kV Kopili Bus A & B was under planned shutdown, 132 kV Dimapur (PG) - Imphal (PG) line was under shutdown, 132 kV Karong - Kohima line was in idle charged from Kohima end, 132 kV Sarusujai - Umtru 1 & 2 lines, 132 kV Kahilipara - Umtru 1 & 2 lines and 132 kV Mawngap - Nongstoin line kept open for system requirement. At 11:50:55.028 Hrs, 400 kV Silchar-Azara line tripped and at 11:50:55.094 Hrs, 400 kV Silchar-Byrnihat line tripped. Subsequently, SPS-3 operated at Palatana which in turn tripped HV side CB of GT-1 at 11:50:55.241 Hrs and GT-2 at 11:50:55.236 Hrs. GT-1 went to house load at 11:50:55.241 Hrs and finally tripped on Gas purge fault trip at 11:51:18.356 Hrs. Similarly, GT-2 went to house load at	880	775	3.226	2.841	GD 5

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
56	NER	132 kV Balipara - Bhalukpong-Khupi line	NEEPCO	20-Apr-19 14:58	20-Apr-19 16:44	1 hrs 46 mins	Khupi area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Balipara - Bhalukpong line. At 14:58 Hrs on 20.04.2019, 132 kV Balipara - Bhalukpong-Khupi line tripped. Due to tripping of these elements, Khupi area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	17	0	0.03	GD 1
57	NER	132 kV Ranganadi - Itanagar line, 132 kV Itanagar - Pare line and 132 kV Itanagar - Lekhi line	NEEPCO & DoP, Arunachal Pradesh	20-Apr-19 19:28	20-Apr-19 20:54	1 hrs 26 mins	Itanagar (Chimpu) area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Ranganadi - Itanagar line and 132 kV Itanagar - Pare line (132 kV Itanagar - Lekhi line was kept open). At 19:28 Hrs on 20.04.2019, 132 kV Ranganadi - Itanagar line, 132 kV Itanagar - Pare line and 132 kV Itanagar - Lekhi line tripped. Due to tripping of these elements, Itanagar (Chimpu) area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	19	0	0.027	GD 1
58	NER	132 kV Dimapur (PG)-Dimapur (DoP, Nagaland) I & II lines	POWERGRID & DoP, Nagaland	24-Apr-19 14:12	24-Apr-19 14:43	31 mins	Dimapur area of Nagaland Power System was connected with the rest of NER Grid through 132 kV Dimapur (PG)-Dimapur (NA) I & II lines. At 14:12 Hrs on 24.04.2019, 132 kV Dimapur (PG)-Dimapur (DoP, Nagaland) I & II lines tripped. Due to tripping of these elements, Dimapur area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	54	0	0.028	GD 1
59	NER	132 kV Balipara - Bhalulpong- Khupi line	NEEPCO & DoP, Arunachal Pradesh	27-Apr-19 08:25	27-Apr-19 08:45	20 mins	Khupi area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Balipara - Bhalukpong - Khupi line. At 08:25 Hrs on 27.04.2019, 132 kV Balipara - Bhalulpong- Khupi line tripped. Due to tripping of these elements, Khupi area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	15	0	0.005	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
60	NER	132 kV Ranganadi - Itanagar line and 132 kV Itanagar - Pare line	POWERGRID, NEEPCO, ARUNACHAL PRADESH	10-May-19 14:36	10-May-19 15:16	40 mins	Itanagar (Chimpu) area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Ranganadi - Itanagar line, 132 kV Itanagar - Pare line and 132 kV Itanagar - Lekhi line. At 14:36 Hrs on 10.05.2019, 132 kV Ranganadi - Itanagar and 132 kV Itanagar - Pare lines tripped. 132 kV Itanagar - Lekhi line was idle charged from Lekhi end at that time. Due to tripping of the elements, Itanagar (Chimpu) area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	15	0	0.01	GD 1
61	NER	132 kV Doyang- Sanis line	DoP, Nagaland	13-May-19 18:00	13-May-19 18:35	35 mins	Capital area of Nagaland Power System was connected with rest of NER Grid through 132 kV Doyang - Sanis line. (132 kV Dimapur-Kohima line tripped due to conductor snapping at 17:18 Hrs of 13.05.19, 132 kV Karong - Kohima line is idle charged from Kohima end as this line is quite old and due to weak jumper arrangement, 66 kV Tuensang - Likhimro line is kept open due to construction activities.) At 18:00 Hrs on 13.05.19, 132 kV Doyang - Sanis line tripped. Due to tripping of this element, Capital area of Nagaland Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area	0	40	0	0.023	GD 1
62	NER	132 kV Silchar- P.K.Bari D/C, 132 kV Dharmanagar- Dullavchera, 132 kV P.K.Bari- Kumarghat, 132 kV Kamalpur- Dhalabil & 132 kV Baramura- Gamaitila lines	POWERGRID, TSECL & AEGCL	13-May-19 18:06	13-May-19 18:33	27 mins	Northern part of Tripura Power system consisting of Dharmanagar, Kailashahar, PKBari, Ambasa, Gamaitila and Kamalpur area was connected with the rest of NER Grid with 132 kV Silchar- P.K.Bari D/C, 132 kV Dharmanagar- Dullavchera, 132 kV P.K.Bari- Kumarghat, 132 kV Kamalpur- Dhalabil & 132 kV Baramura- Gamaitila lines. At 18:06 Hrs on 13.05.19, 132 kV Silchar- P.K.Bari D/C, 132 kV Dharmanagar- Dullavchera, 132 kV P.K.Bari- Kumarghat, 132 kV Kamalpur- Dhalabil & 132 kV Baramura- Gamaitila lines tripped. Due to tripping of these elements, Northern part of Tripura Power system was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	63	0	0.028	GD 1
63	NER	132 kV Aizawl (PG)- Luangmual line	P&E Dept., Mizoram	13-May-19 20:16	13-May-19 20:42	26 mins	Luangmual area of Mizoram Power System as connected with rest of NER Grid through 132 kV Aizawl (PG)- Luangmual line. At 20:16 Hrs on 13.05.19, 132 kV Aizawl (PG)- Luangmual line tripped. Due to tripping of this element, Luangmual area of Mizoram Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	22	0	0.009	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
64	NER	132 kV Aizawl (PG)-Luangmual line	P&E Dept., Mizoram	16-May-19 00:40	16-May-19 01:18	38 mins	Luangmual area of Mizoram Power System as connected with rest of NER Grid through 132 kV Aizawl (PG)- Luangmual line. At 00:40 Hrs on 16.05.19, 132 kV Aizawl (PG)- Luangmual line tripped. Due to tripping of this element, Luangmual area of Mizoram Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	20	0	0.012	GD 1
65	NER	132 kV Aizawl (PG)-Luangmual line.	P&E Dept., Mizoram	17-May-19 10:16	17-May-19 10:50	34 mins	Luangmual area of Mizoram Power System as connected with rest of NER Grid through 132 kV Aizawl (PG)- Luangmual line. At 10:16 Hrs on 17.05.19, 132 kV Aizawl (PG)- Luangmual line tripped. Due to tripping of this element, Luangmual area of Mizoram Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	19	0	0.011	GD 1
66	NER	132 kV Melriat (PG)-Zuangtui line	POWERGRID	17-May-19 10:29	17-May-19 13:06	2 hrs 37 mins	Zuangtui area of Mizoram Power System as connected with rest of NER Grid through 132 kV Melriat (PG)- Zuangtui line. At 10:29 Hrs on 17.05.19, 132 kV Melriat (PG)-Zuangtui line tripped. Due to tripping of this element, Zuangtui area of Mizoram Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	49	0	0.128	GD 1
67	NER	132 kV Aizawl (PG)-Luangmual line.	P&E Dept., Mizoram	17-May-19 11:26	17-May-19 11:39	13 mins	Luangmual area of Mizoram Power System as connected with rest of NER Grid through 132 kV Aizawl (PG)- Luangmual line. At 11:26 Hrs on 17.05.19, 132 kV Aizawl (PG)- Luangmual line tripped. Due to tripping of this element, Luangmual area of Mizoram Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	15	0	0.003	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
68	NER	132 kV Melriat (PG)-Zuangtui line	POWERGRID	17-May-19 13:27	17-May-19 13:51	24 mins	Zuangtui area of Mizoram Power System as connected with rest of NER Grid through 132 kV Melriat (PG)-Zuangtui line. At 13:27 Hrs on 17.05.19, 132 kV Melriat (PG)-Zuangtui line tripped. Due to tripping of this element, Zuangtui area of Mizoram Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	19	0	0.008	GD 1
69	NER	132 kV Aizawl (PG)-Luangmual line.	P&E Dept., Mizoram	19-May-19 03:41	19-May-19 04:11	30 mins	Luangmual area of Mizoram Power System as connected with rest of NER Grid through 132 kV Aizawl (PG)-Luangmual line. At 03:41 Hrs on 19.05.19, 132 kV Aizawl (PG)-Luangmual line tripped. Due to tripping of this element, Luangmual area of Mizoram Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	13	0	0.0065	GD 1
70	NER	132 kV Melriat (PG)-Zuangtui line	PGCIL	19-May-19 04:04	19-May-19 04:25	21 mins	Zuangtui area of Mizoram Power System as connected with rest of NER Grid through 132 kV Aizawl (PG)-Luangmual line. At 04:04 Hrs on 19.05.19, 132 kV Melriat (PG)-Zuangtui line tripped. Due to tripping of this element, Zuangtui area of Mizoram Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	12	0	0.0042	GD 1
71	NER	132 kV Balipara - Bhalulpong- Khupi line	NEEPCO & DoP, Arunachal Pradesh	19-May-19 19:34	19-May-19 19:54	20 mins	Khupi area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Balipara - Bhalukpong - Khupi line. At 19:34 Hrs on 19.05.2019, 132 kV Balipara - Bhalulpong- Khupi line tripped. Due to tripping of these elements, Khupi area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	18	0	0.0057	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
72	NER	132 kV Nangalbibra- Nongstoin TL	MePTCL	21-May-19 14:13	21-May-19 14:21	8 mins	Nongstoin, Mawngap, Mawlai and Cherrapunji areas of Meghalaya Power system was connected with rest of NER Grid through 132 kV Nangalbibra- Nongstoin line (132 kV Mawlai-Umiam Stg I, 132 kV Mawlai- NEHU and 132 kV Mawngap- Umiam Stg I D/C lines were kept open for system requirement). At 14:13 Hrs on 21.05.19, 132 kV Nangalbibra- Nongstoin line tripped. Due to tripping of this element, Nongstoin, Mawngap, Mawlai and Cherrapunji areas of Meghalaya Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	42.7	0	0.0056	GD 1
73	NER	132 kV Monarchak - Udaipur Line, 132 kV Monarchak - Rokhia Line, Monarchak Unit GTG & Monarchak Unit STG	TSECL & NEEPCO	24-May-19 15:53	24-May-19 16:05	12 mins	Monarchak GBPP & Rabindranagar area of Tripura Power System were connected with rest of NER Grid through 132 kV Monarchak - Udaipur Line & 132 kV Monarchak - Rokhia Line. At 15:53 Hrs on 24.05.2019, 132 kV Monarchak - Udaipur Line & 132 kV Monarchak - Rokhia Line tripped. Due to tripping of these elements, Monarchak GBPP & Rabindranagar area were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	65	5	0.013	0.001	GD 1
74	NER	132 kV Ranganadi - Itanagar & 132 kV Pare - Itanagar Lines	NEEPCO & DoP, Arunachal Pradesh	26-May-19 13:14	26-May-19 13:29	15 mins	Itanagar (Chimpu) area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Ranganadi - Itanagar (Chimpu) Line & 132 kV Pare - Itanagar (Chimpu) Line. 132 kV Lekhi - Itanagar (Chimpu) Line was kept open due to system requirement. At 13:14 Hrs on 26.05.2019, 132 kV Ranganadi - Itanagar (Chimpu) Line & 132 kV Pare - Itanagar (Chimpu) Line tripped. Due to tripping of these elements, Itanagar (Chimpu) area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	14	0	0.003	GD 1
75	NER	132 kV Ranganadi - Ziro Line	POWERGRID	28-May-19 05:30	28-May-19 06:03	33 mins	Ziro area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Ranganadi - Ziro Line. At 05:30 Hrs on 28.05.2019, 132 kV Ranganadi - Ziro Line tripped. Due to tripping of this element, Ziro area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	19	0	0.01	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
76	NER	132 kV Balipara - Khupi Line	NEEPCO & DoP, Arunachal Pradesh	29-May-19 13:58	29-May-19 14:20	22 mins	Khupi area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Balipara - Khupi Line. At 13:58 Hrs on 29.05.2019, 132 kV Balipara - Khupi Line tripped. Due to tripping of this element, Khupi area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	13	0	0.005	GD 1
77	NER	132 kV Lekhi - Pare Line	POWERGRID & DoP, Arunachal Pradesh	30-May-19 10:26	30-May-19 10:49	23 mins	Lekhi & Nirjuli areas of Arunachal Pradesh Power System were connected with rest of NER Grid through 132 kV Lekhi - Pare Line. 132 kV Lekhi - Itanagar Line kept open for restriction of loading of the Line due to Low CT ratio (150/1 A) and 132 kV Nirjuli - Gohpur Line kept open for over-loading of 132 kV Lekhi - Nirjuli Line. At 10:26 Hrs on 30.05.2019, 132 kV Lekhi - Pare Line tripped. Due to tripping of this element, Lekhi & Nirjuli areas were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	33	0	0.013	GD 1
78	NER	132 kV Melriat (PG)- Zuangtui line	POWERGRID	31-May-19 16:51	31-May-19 17:45	54 mins	Zuangtui area of Mizoram Power System was connected with the rest of NER Grid through 132 kV Melriat (PG)- Zuangtui line. At 16:51 Hrs on 31.05.19, 132 kV Melriat (PG)- Zuangtui line tripped. Due to tripping of this element, Zuangtui area of Mizoram Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area	0	46	0	0.0414	GD 1
79	NER	132 kV Balipara - Khupi line.	POWERGRID& DoP, Arunachal Pradesh	31-May-19 18:51	31-May-19 19:17	26 mins	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Khupi line. At 18:51 Hrs on 31.05.2019, 132 kV Balipara - Khupi line tripped. Due to tripping of these elements, Khupi area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	21	0	0.009	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
80	NER	132 kV Balipara - Bhalukpong line	NEEPCO & DoP, Arunachal Pradesh	02-Jun-19 09:57	02-Jun-19 10:10	13 mins	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Bhalukpong line. At 09:57 Hrs on 02.06.2019, 132 kV Balipara - Bhalukpong line tripped. Due to tripping of this element, Khupi area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	17	0	0.004	GD 1
81	NER	132 kV Daporijo- Ziro line	DoP, Arunachal Pradesh	02-Jun-19 13:20	02-Jun-19 13:53	33 mins	Daporijo area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Daporijo- Ziro line. At 13:20 Hrs on 02.06.2019, 132 kV Daporijo- Ziro line tripped. Due to tripping of this element, Daporijo area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	15	0	0.008	GD 1
82	NER	132 kV Loktak- Ningthoukhong line	MSPDCL	02-Jun-19 13:43	02-Jun-19 14:04	21 mins	Ningthoukhong area of Manipur Power System was connected with the rest of NER Grid through 132 kV Loktak- Ningthoukhong line. 132 kV Imphal - Ningthoukhong line and 132 kV Kakching - Kongba line kept open for overloading of 132 kV Loktak - Ningthoukhong line. At 13:43 Hrs on 02.06.2019, 132 kV Loktak- Ningthoukhong line tripped. Due to tripping of these elements, Ningthoukhong area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	29	0	0.01	GD 1
83	NER	132 kV Melriat (PG) - Zuangtui line	POWERGRID	04-Jun-19 13:49	04-Jun-19 14:10	21 mins	Zuangtui area of Mizoram Power System was connected with the rest of NER Grid through 132 kV Melriat (PG) - Zuangtui line. At 13:49 Hrs on 04.06.2019, 132 kV Melriat (PG) - Zuangtui line tripped. Due to tripping of this element, Zuangtui area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	30	0	0.011	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
84	NER	132 kV Melriat (PG) - Zuangtui line	POWERGRID	04-Jun-19 14:41	04-Jun-19 15:04	23 mins	Zuangtui area of Mizoram Power System was connected with the rest of NER Grid through 132 kV Melriat (PG) - Zuangtui line. At 14:41 Hrs on 04.06.2019, 132 kV Melriat (PG) - Zuangtui line tripped. Due to tripping of this element, Zuangtui area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	28	0	0.011	GD 1
85	NER	132 kV Ziro - Daporijo Line	DoP, Arunachal Pradesh	06-Jun-19 05:13	06-06-2019 05:43:00	30 mins	Daporijo area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Ziro - Daporijo Line. At 05:13 Hrs on 06.06.2019, 132 kV Ziro - Daporijo Line tripped. Due to tripping of this element, Daporijo area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	15	0	0.008	GD 1
86	NER	132 kV Aizawl - Kolasib line and 132 kV Badarpur - Kolasib line	POWERGRID	09-Jun-19 08:38	09-Jun-19 09:03	25 mins	Kolasib area of Mizoram Power System was connected with rest of NER Grid through 132 kV Aizawl - Kolasib line and 132 kV Badarpur - Kolasib line. At 08:38 Hrs on 09.06.2019, 132 kV Aizawl - Kolasib line and 132 kV Badarpur - Kolasib line tripped. Due to tripping of these elements, Kolasib area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	18	5	0.0075	0.002	GD 1
87	NER	132 kV Dimapur-Kohima Line	DoP, Nagaland	11-Jun-19 11:13	11-Jun-19 11:25	12 mins	Capital area of Nagaland Power System was connected with rest of NER Grid through 132 kV Dimapur-Kohima line. (132 kV Kohima- Sanis-Wokha line was under shutdown, 132 kV Karong - Kohima line is idle charged from Kohima end as this line is quite old and due to weak jumper arrangement, 66 kV Tuensang - Likhimro line is kept open due to construction activities). At 11:13 Hrs on 11.06.19, 132 kV Dimapur-Kohima line tripped. Due to tripping of this element, Capital area of Nagaland Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	13	0	0.0026	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
88	NER	132 kV Dimapur-Kohima T/L	DoP, Nagaland	11-Jun-19 12:12	11-Jun-19 12:29	17 mins	Capital area of Nagaland Power System was connected with rest of NER Grid through 132 kV Dimapur-Kohima line. (132 kV Kohima- Sanis-Wokha line was under shutdown, 132 kV Karong - Kohima line is idle charged from Kohima end as this line is quite old and due to weak jumper arrangement, 66 kV Tuensang - Likhimro line is kept open due to construction activities.) At 12:12 Hrs on 11.06.19, 132 kV Dimapur-Kohima line tripped. Due to tripping of this element, Capital area of Nagaland Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area	0	13	0	0.0037	GD 1
89	NER	400/132 kV, 360 MVA ICT-2 at Ranganadi, 132 kV Bus coupler at Ranganadi, 132 kV Pare-Ranganadi 1, 132 kV Pare-Itanagar line, 132 kV Ranganadi- Itanagar, Ranganadi Unit 1 & 3, Pare Unit 1& 2	NEEPCO and DoP, Arunachal Pradesh	11-Jun-19 17:21	11-Jun-19 18:55	1 hrs 34 mins	Ziro area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Ranganadi-Ziro line, Lekhi area was connected through 132 kV Pare-Lekhi line and Itanagar area was connected through 132 kV Itanagar-Ranganadi & 132 kV Itanagar-Pare line. 132 kV Itanagar-Lekhi line and 132 kV Gohpur-Nirjuli line were kept open due to system constraints. Before the incident, 132 kV feeders configuration at Ranganadi were- 132 kV Bus A: 360 MVA ICT-2, 132 kV Zero feeder, 132 kV Pare-2 feeder, Unit -1 & Unit-3 and 132 kV Bus B: 360 MVA ICT-1, 132 kV Pare -1 feeder, 132 kV Itanagar feeder & Unit-2. At 17:21:12 Hrs, 400/132 kV, 360 MVA ICT-2 tripped due to NVD relay operation. At 17:21:13 Hrs, 132 kV Bus coupler CB tripped due to O/C protection. 132 kV Pare- Ranganadi 1 and 132 kV Pare- Itanagar line tripped at Pare due to Dir O/C operation. 132 kV Itanagar- Ranganadi line also tripped at Itanagar. Due to tripping of these elements, Ziro, Itanagar, Lekhi & Nirjuli areas of Arunachal Pradesh Power System were separated from rest of NER grid and subsequently collapsed due to load generation mismatch in these areas	380	78	0.595	0.1222	GD 2
90	NER	132 kV Melriat (PG) - Zuangtui line	POWERGRID	13-Jun-19 05:53	13-Jun-19 06:53	1 hrs 0 mins	Zuangtui area of Mizoram Power System was connected radially with the rest of NER Grid through 132 kV Melriat (PG) - Zuangtui line. At 05:53 Hrs on 13.06.2019, 132 kV Melriat (PG) - Zuangtui line tripped. Due to tripping of this element, Zuangtui area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	32	0	0.032	GD 1
91	NER	132 kV Melriat (PG) - Zuangtui line	POWERGRID	13-Jun-19 15:20	13-Jun-19 15:41	21 mins	Zuangtui area of Mizoram Power System was connected with the rest of NER Grid through 132 kV Melriat (PG) - Zuangtui line. At 15:20 Hrs on 13.06.2019, 132 kV Melriat (PG) - Zuangtui line tripped. Due to tripping of this element, Zuangtui area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	44	0	0.015	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
92	NER	132 kV Hailakandi - Panchgram line and 132 kV Badarpur - Panchgram line	POWERGRID & AEGCL	14-Jun-19 04:10	14-Jun-19 05:14	1 hrs 4 mins	Hailakandi area of Assam Power System was connected with the rest of NER Grid through 132 kV Hailakandi - Panchgram line and 132 kV Badarpur - Panchgram line. 132 kV Srikona - Panchgram Line is under long outage, 132 kV Panchgram - Lumshnong line was idle charged for system requirement. At 04:10 Hrs on 14.06.2019, 132 kV Hailakandi - Panchgram line and 132 kV Badarpur - Panchgram line tripped. Due to tripping of these elements, Hailakandi area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	33	0	0.035	GD 1
93	NER	132 kV Ranganadi - Ziro line	POWERGRID	14-Jun-19 18:55	14-Jun-19 19:04	9 mins	Ziro area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Ranganadi - Ziro line. At 18:55 Hrs on 14.06.2019, 132 kV Ranganadi - Ziro line tripped. Due to tripping of this element, Ziro area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	35	0	0.005	GD 1
94	NER	400 kV Biswanath Chariali - Ranganadi 1 & 2 lines	POWERGRID	15-Jun-19 00:53	15-Jun-19 01:09	16 mins	Arunachal Pradesh Power System (except Khupi and Deomali areas) was connected with the rest of NER Grid through 400 kV BNC- Ranganadi Line 1 & 2 Lines. 132 kV Nirjuli-Gohpur line was opened for over-loading of 132 kV Pare - Lekhi line. At 00:53 Hrs on 15.06.2019, 400 kV Biswanath Chariali - Ranganadi 1 & 2 lines tripped. Due to tripping of these elements, Arunachal Pradesh Power System (except Khupi and Deomali areas) was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	70	0	0.018	GD 1
95	NER	132 kV Imphal (PG)-Imphal (MA) line 1	POWERGRID	15-Jun-19 09:15	15-Jun-19 09:27	12 mins	Imphal area of Manipur Power System is connected with the rest of the NER Grid through 132 kV Imphal (PG)-Imphal (MA) 1 line. (132 kV Imphal (PG)-Imphal (MA) line 2 was under planned shutdown. 132 kV Imphal (MA)-Karong line is under outage due to construction work. 132 kV Kongba-Kakching line was kept opened for overloading of 132 kV Loktak - Ningthongkhong line. At 09:15 Hrs on 15.06.2019, 132 kV Imphal (PG)-Imphal (MA) line 1 tripped. Due to tripping of this element, Imphal area of Manipur Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	52	0	0.01	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
96	NER	132 kV Balipara-Khupi Line	NEEPCO & DoP, Arunachal Pradesh	17-Jun-19 15:31	17-Jun-19 15:51	20 mins	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Khupi line. At 15:31 Hrs on 17.06.2019, 132 kV Balipara - Khupi line tripped. Due to tripping of this element, Khupi area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	18	0	0.006	GD 1
97	NER	132 kV AGTCCP - Kumarghat line, 132 kV Kamalpur - P.K Bari line and 132 kV Gamaitila - Baramura line.	TSECL, POWERGRID	18-Jun-19 11:44	18-Jun-19 12:02	18 mins	<p>Tripura Power System except part of Tripura Power System [Udaipur, Rokhia, Kailashahar, Dharmanagar, P.K Bari, Ambasa, Gamaitila] was connected with rest of NER Grid through 132 kV AGTCCP -Kumarghat line, 132 kV Kamalpur - P.K Bari line and 132 kV Gamaitila - Baramura line.</p> <p>At 11:32 Hrs on 18.06.19, fault initiated in 132 kV Agartala – Rokhia 1 line due to touching of bamboo. AGTCCP Unit-1, 2 &3 tripped on under voltage stage-1 protection & STG-2 tripped subsequently due to tripping of GTGs. 132 kV Palatana - Surajmaninagar line tripped at Palatana in Distance Protection (DP), Zone-III. 132 kV Rokhia - Agartala I & 2 lines tripped and fault was cleared from the system. Tripping of GBCs at Palatana & subsequent tripping of Module-1 of Palatana, OTPC were also reported.</p> <p>At 11:43 Hrs, 132 kV Kamalpur – P.K Bari line tripped due to fault in this line (root cause analysis not submitted by TSECL). Subsequently, 132 kV Gamaitila - Baramura line tripped (root cause analysis not submitted) and 132 kV AGTCCP - Kumarghat line</p>	0	102	0	0.0306	GD 1
98	NER	132 kV Mokokchung(PG)-Mokokchung (DoP, Nagaland) D/C line and 132 kV Doyang-Mokokchung line	POWERGRID & NEEPCO	20-Jun-19 11:52	20-Jun-19 12:24	32 mins	<p>Mokokchung area of Nagaland Power System was connected with rest of NER Grid through 132 kV Mokokchung(PG)-Mokokchung (DoP, Nagaland) D/C line and 132 kV Doyang-Mokokchung line.</p> <p>Prior to incident, 132 kV Doyang-Dimapur line-2 and 132 kV Doyang Mokokchung line were connected to 132 kV Bus-2 at Doyang.</p> <p>At 11:52 Hrs on 20.06.2019, 132 kV Mokokchung(PG)-Mokokchung (DoP, Nagaland) D/C line and 132 kV Dimapur -Doyang 2 Line along with Bus coupler bay tripped on E/F. Due to tripping of these elements, Mokokchung area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.</p>	0	28	0	0.0149	GD 1
99	NER	132 kV Mokokchung(PG)-Mokokchung (DoP, Nagaland) D/C line and 132 kV Doyang-Mokokchung line	POWERGRID & NEEPCO	21-Jun-19 08:43	21-Jun-19 09:03	20 mins	<p>Mokokchung area of Nagaland Power System was connected with rest of NER Grid through 132 kV Mokokchung(PG)-Mokokchung (DoP, Nagaland) D/C line and 132 kV Doyang-Mokokchung line.</p> <p>Prior to incident, 132 kV Doyang-Dimapur 2 line and 132 kV Doyang Mokokchung line were connected to 132 kV Bus-2 at Doyang.</p> <p>At 08:43 Hrs on 21.06.2019, 132 kV Mokokchung(PG)-Mokokchung (DoP, Nagaland) D/C line and 132 kV Dimapur -Doyang 2 Line along with Bus coupler bay tripped on E/F. Due to tripping of these elements, Mokokchung area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.</p>	0	32	0	0.011	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
100	NER	132 kV Mokokchung(PG)-Mokokchung (DoP, Nagaland) D/C line and 132 kV Doyang-Mokokchung line	POWERGRID & NEEPCO	21-Jun-19 10:23	21-Jun-19 11:30	1 hrs 7 mins	<p>Mokokchung area of Nagaland Power System was connected with rest of NER Grid through 132 kV Mokokchung(PG)-Mokokchung (DoP, Nagaland) D/C line and 132 kV Doyang-Mokokchung line.</p> <p>Prior to incident, 132 kV Doyang-Dimapur 2 line and 132 kV Doyang Mokokchung line was connected to 132 kV Bus-2 at Doyang.</p> <p>At 10:23 Hrs on 21.06.2019, 132 kV Mokokchung(PG)-Mokokchung (DoP, Nagaland) D/C line and 132 kV Dimapur -Doyang 2 Line along with Bus coupler bay tripped on E/F. Due to tripping of these elements, Mokokchung area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.</p>	0	26	0	0.029	GD 1
101	NER	132 kV Palatana - S M Nagar line, 132 kV Jirana - Budhjungnagar line, 132 kV Monarchak-Rokhia line, 132 kV Agartala- Dhalbill line, 132 kV Agartala - Rokhia I & II lines, 132 kV Agartala - AGTCCPP I & II lines	POWERGRID, TSECL	22-Jun-19 13:03	22-Jun-19 13:28	25 mins	<p>Tripura Power System (Udaipur, Kailashahar, Dharmanagar, P K Bari, Kamalpur, Ambasa, Jirana, Baramura, Gamaitila, Monarchak, Rabindranagar) was connected with rest of NER Grid through 132 kV Palatana - Surajmaninagar line, 132 kV Jirana - Budhjungnagar line, 132 kV Monarchak - Rokhia line, 132 kV Agartala- Dhalabil line, 132 kV Agartala - Rokhia I & II lines, 132 kV Agartala - AGTCCPP I & II lines.</p> <p>At 13:03 Hrs on 22.06.2019, 132 kV Palatana - S M Nagar line, 132 kV Jirana - Budhjungnagar line, 132 kV Monarchak-Rokhia line, 132 kV Agartala- Dhalbill line, 132 kV Agartala - Rokhia I & 2 lines, 132 kV Agartala - AGTCCPP I & 2 lines tripped . Due to tripping of these elements, Tripura Power System (Udaipur, Kailashahar, Dharmanagar, P K Bari, Kamalpur, Ambasa, Jirana, Baramura, Gamaitila, Monarchak, Rabindranagar) was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.</p>	175	75	0.072	0.031	GD 1
102	NER	132 kV Ziro - Daporijo Line	POWEGRID	23-Jun-19 12:00	23-Jun-19 12:56	56 mins	<p>Daporijo area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Ziro - Daporijo Line.</p> <p>At 12:00 Hrs on 23.06.2019, 132 kV Ziro - Daporijo Line tripped. Due to tripping of this element, Daporijo area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.</p>	0	11	0	0.01	GD 1
103	NER	132 kV Dimapur - Kohima line and 132 kV Wokha - Kohima line	POWERGRID & DoP, Nagaland	23-Jun-19 12:56	23-Jun-19 14:42	1 hrs 46 mins	<p>Capital area of Nagaland Power System and Karong substation of Manipur Power System were connected with rest of NER Grid through 132 kV Dimapur - Kohima line and 132 kV Wokha - Kohima line. 132 kV Imphal (MA) - Karong Line was under planned shutdown for maintenance work.</p> <p>At 12:56 Hrs on 23.06.2019, 132 kV Dimapur -Kohima line and 132 kV Wokha - Kohima line tripped. Due to tripping of these elements,Capital area of Nagaland Power System and Karong area of Manipur Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.</p>	0	25	0	0.044	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
104	NER	132 kV Doyang-Sanis line and 132 kV Kohima- Wokha line	POWERGRID & DoP, Nagaland	23-Jun-19 19:22	23-Jun-19 19:56	34 mins	Capital area of Nagaland Power System and Karong area of Manipur Power System were connected with rest of NER Grid through 132 kV Doyang-Sanis-Wokha-Kohima line.132 kV Dimapur -Kohima line was under outage since 12:56 Hrs of 23.06.2019. 132 kV Imphal (MA) - Karong Line was under planned shutdown for maintenance work. At 19:22 Hrs on 23.06.2019, 132 kV Doyang-Sanis line and 132 kV Kohima- Wokha line tripped. Due to tripping of these elements,Capital area of Nagaland Power System and Karong area of Manipur Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.	0	38	0	0.021	GD 1
105	NER	132 kV Doyang-Sanis line, 132 kV Kohima- Wokha line and 132 kV Karong - Kohima line	DoP, Nagaland, MSPCL	23-Jun-19 20:22	23-Jun-19 20:55	33 mins	Capital area of Nagaland Power System and Karong area of Manipur Power System were connected with rest of NER Grid through 132 kV Doyang-Sanis line, 132 kV Kohima-Wokha line and 132 kV Karong - Kohima line.132 kV Dimapur -Kohima line was under outage since 12:56 Hrs of 23.06.2019. 132 kV Imphal (MA) - Karong Line was under planned shutdown for maintenance work. At 20:22 Hrs on 23.06.2019, 132 kV Doyang-Sanis line, 132 kV Kohima- Wokha line and 132 kV Karong - Kohima line tripped. Due to tripping of these elements,Capital area of Nagaland Power System and Karong area of Manipur Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.	0	28	0	0.0154	GD 1
106	NER	132 kV Dimapur - Kohima line	POWERGRID,DoP, Nagaland	24-Jun-19 10:09	24-Jun-19 10:48	39 mins	Capital area of Nagaland Power System and Karong area of Manipur Power System were connected with rest of NER Grid through 132 kV Dimapur - Kohima line. 132 kV Wokha - Kohima line was under outage since 20:22 Hrs of 23.06.2019 and 132 kV Imphal (MA) - Karong Line was under planned shutdown for maintenance work. At 10:09 Hrs on 24.06.2019, 132 kV Dimapur -Kohima line tripped. Due to tripping of this element, Capital area of Nagaland Power System and Karong area of Manipur Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.	0	22	0	0.0143	GD 1
107	NER	132 kV Loktak-Ningthoukhong line & 132 kV Loktak-Rengpang line.	MSPDCL	26-Jun-19 17:13	26-Jun-19 18:10	57 mins	Rengpang & Ningthoukhong areas of Manipur Power System were connected with rest of NER Grid through 132 kV Loktak-Ningthoukhong line & 132 kV Loktak-Rengpang line. 132 kV Imphal(PG)-Ningthoukhong line & 132 kV kakching-Kongba line kept open for overloading of 132 kV Loktak-Ningthoukhong line, 132 kV Jiribam (MA) - Rengpang line is under long outage. At 17:13 Hrs on 26.06.2019, 132 kV Loktak-Ningthoukhong line & 132 kV Loktak-Rengpang line tripped. Due to tripping of these elements, Rengpang & Ningthoukhong areas were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	45	0	0.042	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
108	NER	132 kV Palatana - S M Nagar line, 132 kV AGTCCPP-Agartala 1 & 2 lines, 132 kV Agartala - Rokhia 1 & 2 lines, 132 kV Agartala - Budhjungnagar line and 132 kV Agartala - Dhalabil line.	TSECL, POWERGRID	27-Jun-19 03:01	27-Jun-19 03:16	15 mins	<p>Tripura Power System except part of Tripura Power System [Dhalabil, Kamaipur, P.K. Bari, Budhjungnagar, Jirania, Baramura, Gamaitilla, Ambassa, Kailashahar & Dharmanagar] was connected with rest of NER Grid through 132 kV Palatana - S M Nagar line, 132 kV AGTCCPP-Agartala 1 & 2 lines, 132 kV Agartala - Rokhia 1 & 2 lines, 132 kV Agartala - Budhjungnagar line and 132 kV Agartala - Dhalabil line. (132kV Palatana - Udaipur line was under shutdown).</p> <p>At 03:01 hrs on 27.06.19, all 132 kV lines connected to 132 kV Agartala substation was tripped on Distance Protection, Zone-2 from remote end or Zone-IV at Agartala except for 132 kV Agartala – Surajmaninagar - I line which tripped on Distance Protection, Zone-I. Along with these lines, 132 kV Palatana- Surajmaninagar line tripped at Palatana on tripped on Distance Protection, Zone-2. Subsequently Agartala, Surajmaninagar, Monarchak and Rokhia substations got blackout. Due to tripping of these elements, Tripura Power System except part of Tripura Power System [Dhalabil, Kamapur, P.K. Bari, Budhjungnagar, Jirania, Baramura, Gamaitilla, Ambassa, Kailashahar & Dharmanagar] was connected with rest of NER Grid through 132 kV Palatana - S M Nagar line, 132 kV AGTCCPP-Agartala 1 & 2 lines, 132 kV Agartala - Rokhia 1 & 2 lines, 132 kV Agartala - Budhjungnagar line and 132 kV Agartala - Dhalabil line.</p>	182	110	0.045	0.047	GD 1
109	NER	132 kV Rokhia-Agartala 1 & 2 lines and 132 kV Rokhia-Monarchak line	TSECL	28-Jun-19 05:29	28-Jun-19 05:55	26 mins	<p>Rokhia Power Station of Tripura was connected with rest of NER Grid through 132 kV Rokhia-Agartala 1 & 2 lines and 132 kV Rokhia-Monarchak line.</p> <p>At 05:29 hrs on 28.06.19, 132 kV Rokhia-Agartala 1 & 2 line and 132 kV Rokhia-Monarchak line tripped resulting in bus dead of Rokhia substation. Due to tripping of these elements, Rokhia Power Station of Tripura was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.</p>	56	32	0.024	0.013	GD 1
110	NER	132 kV Badarpur - Kolasib line and 132 kV Aizawl - Kolasib line	POWERGRID	30-Jun-19 07:06	30-Jun-19 07:21	15 mins	<p>Kolasib area of Mizoram Power System was connected with rest of NER Grid through 132 kV Badarpur - Kolasib line and 132 kV Aizawl - Kolasib line.</p> <p>At 07:06 hrs on 30.06.19, 132 kV Badarpur - Kolasib line and 132 kV Aizawl - Kolasib line tripped. Due to tripping of these elements, Kolasib area of Mizoram Power System was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.</p>	39	2	0.009	0.0005	GD 1
111	NER	132 kV Monarchak - Udaipur line	TSECL	30-Jun-19 10:58	30-Jun-19 11:02	4 mins	<p>Rabindranagar area of Tripura Power System was connected with rest of NER Grid through 132 kV Monarchak - Udaipur line. 132 kV Rokhia-Monarchak line was under outage since 10:00 Hrs on 30.06.2019.</p> <p>At 10:58 hrs on 30.06.19, 132 kV Monarchak - Udaipur line tripped. Due to tripping of this element, Rabindranagar area of Tripura Power System was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.</p>	68	6	0.004	0.0004	GD 1

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
1	NER	BgTPP Unit 2	NTPC	09-Dec-18	06:01:00	09-Dec-2018	06:45:00	BgTPP Unit 2 tripped at 06:01 Hrs on 09.12.18 due to Condenser Vacuum Pressure low. (Revision of schedule from Block No. 28 on 09.12.18).	65	0	0.048	GI-II
2	NER	AGBPP Unit 1, 2, 4, 5, 6, 7, 8 & 9	NEEPCO	09-Dec-2018	09:40:00	09-Dec-18	10:15:00	AGBPP Unit 1, 2, 4, 5, 6, 7, 8 & 9 tripped at 09:40 Hrs on 09.12.2018 due to tripping of PCV malfunctioning. (Revision of schedule from Block No.42 on 09.12.2018).	203	0	0.0019	GI-II
3	NER	400/132/33 kV 315 MVA ICT 3 at Silchar; 400 kV Silchar - Palatana I & II Main Bay, 400 kV Silchar-Azara Main Bay and 400 kV Silchar-Byrnihat Main Bay	OTPC	15-Dec-18	10:29:00	15-Dec-2018	10:45:00	400/132/33 kV, 315 MVA ICT 3 at Silchar and 400 kV Silchar Bus I tripped at 10:29 Hrs on 15.12.18 due to operation of Bus Bar Protection. As a result backing down of Palatana and Monarchak was done. (Revision of schedule from Block No. 44 on 15.12.18).	90	0	0.024	GI-II
4	NER	BgTPP Unit 2	NTPC	17-01-2019	10:55:00	17-01-2019	11:45:00	BgTPP Unit 2 tripped at 10:55 Hrs on 17.01.19 due to Class A Trip relay operation during commissioning work of Transfer Bus. (Revision of schedule from Block No. 48 on 17.01.19).	153	0	0.128	GI-II
5	NER	AGBPP Unit 6	NEEPCO	20-01-2019	10:05:00	20-01-2019	11:00:00	AGBPP Unit 6 tripped at 10:05 Hrs on 20.01.2019 due to Power supply failure. (Revision of schedule from Block No.45 on 20.01.2019).	26	0	0.021	GI-II

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
6	NER	AGTPP Unit 3 and AGTPP (STG - II)	NEEPCO	27-01-2019	05:30:00	27-01-2019	06:15:00	AGTPP Unit 3 tripped at 05:30 Hrs on 27.01.19 due to Differential Air filter problem which subsequently tripped AGTPP (STG - II) due to unavailability of both GTG 3 and GTG 4. (Revision of schedule from Block	27	0	0.020	GI-I
7	NER	AGTPP Unit 3	NEEPCO	29-01-2019	00:39:00	29-01-2019	01:15:00	AGTPP Unit 3 tripped at 00:39 Hrs on 29.01.19 due to Air filter house differential pressure high. (Revision of schedule from Block No. 06 on 29.01.19).	14	0	0.008	GI-I
8	NER	Kopili Unit 1	NEEPCO	07-02-2019	07:13:00	07-02-2019	07:45:00	Kopili Unit 1 tripped at 07:13 Hrs on 07.02.19 due to Stator E/F. (Revision of schedule from Block No. 32 on 07.02.19).	27	0	0.014	GI-II
9	NER	AGBPP Unit 8	NEEPCO	11-02-2019	06:38:00	11-02-2019	07:30:00	AGBPP Unit 8 tripped at 06:38 Hrs on 11.02.19 due to APRDS problem. (Revision of schedule from Block No. 31 on 11.02.19).	6	0	0.005	GI-II
10	NER	AGBPP Unit 2, 5, 8	NEEPCO	24-02-2019	09:21:00	24-Feb-19	10:15:00	AGBPP Unit 2, 5, 8 tripped at 09:21 Hrs on 24.02.19 due to tripping of Gas Compressor I and III. (Revision of schedule from Block No. 42 on 24.02.19).	63	0	0.057	GI-II

List of Grid Incidents												
S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
11	NER	AGTPP Unit 1,2,3,STG-I, STG-II	NEEPCO	24-Feb-2019	09:21:00	24-Feb-2019	10:15:00	AGTPP Unit 1,2,3,STG-I, STG-II tripped at 01:46 Hrs on 25.01.19 due to tripping of central UPS system (Revision of schedule from Block No. 11 on 25.02.19).	86	0	0.063	GI-I
12	NER	AGBPP Unit 2	NEEPCO	24-Feb-2019	09:21:00	24-Feb-2019	10:15:00	AGBPP Unit 2 tripped at 03:44 Hrs on 25.01.19 due to low gas pressure (Revision of schedule from Block No. 20 on 25.02.19).	30	0	0.030	GI-II
13	NER	AGBPP Unit 6	NEEPCO	24-Feb-2019	09:21:00	24-Feb-2019	10:15:00	AGBPP Unit 6 tripped at 17:27 Hrs on 26.02.19 due to low gas pressure (Revision of schedule from Block No. 81 on 26.02.19).	27	0	0.042	GI-II
14	NER	AGTPP STG-II	NEEPCO	24-Feb-2019	09:21:00	24-Feb-2019	10:15:00	AGTPP STG-II tripped at 22:15 Hrs on 27.02.19 due to problem in AVR circuit (Revision of schedule from Block No. 93 on 27.02.19).	6	0	0.005	GI-I

Grid Incidents from Mar'19to Jun'19

List of Grid Incidents												
S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
1	NER	AGTCCPP Unit-1	NEEPCO	03-Mar-19 05:56	03-Mar-19 7:00	01:04:00	AGTCCPP Unit-1 tripped due to IGV (Inlet Guide Vane) control trouble(Revision of schedule from Block No. 28 on 03.03.19).	18	0	0.02	0	GI 1
2	NER	AGTCCPP Unit 2	NEEPCO	04-Mar-19 05:21	04-Mar-19 06:15	00:54:00	AGTCCPP Unit 2 tripped at 05:21 Hrs on 04.03.19 due to loss of Communication with controller. (Revision of schedule from Block No.26 on 04.03.19).	16	0	0.01	0	GI 1

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
3	NER	AGTCCPP Unit 1	NEEPCO	04-Mar-19 06:32	04-Mar-19 07:15	00:43:00	AGTCCPP Unit 1 tripped at 06:32 Hrs on 04.03.19 due to malfunctioning of network switch communicating with one of the controller and other devices of machine. (Revision of schedule from Block No.30 on 04.03.19).	17	0	0.01	0	GI 1
4	NER	BGTPP Unit 1	NTPC	08-Mar-19 17:48	08-Mar-19 18:45	00:57:00	BGTPP Unit 1 tripped at 17:48 Hrs on 08.03.19 due to loss of flame failure. (Revision of schedule from Block No.76 on 08.03.19).	158	0	0.15	0	GI 2
5	NER	PALATANA Unit GTG-1	OTPCL	09-Mar-19 05:50	09-Mar-19 06:30	00:40:00	PALATANA GTG 1 tripped at 05:50 Hrs on 09.03.19 due Stator E/F protection. (Revision of schedule from Block No.27 on 09.03.19).	241	0	0.16	0	GI 2

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
5	NER	PALATANA Unit STG-1	OTPCCL	09-Mar-19 05:50	09-Mar-19 06:30	00:40:00	PALATANA STG 1 tripped at 05:50 Hrs on 09.03.19 due GT tripped to ST protection. (Revision of schedule from Block No.27 on 09.03.19).	126	0	0.08	0	GI 2
6	NER	AGTCCPP Unit 2	NEEPCO	10-Mar-19 06:23	10-Mar-19 07:00	00:37:00	AGTCCPP Unit 2 tripped at 06:23 Hrs on 10.03.19 due to loss of Communication with controller. (Revision of schedule from Block No.29 on 10.03.19).	17	0	0.01	0	GI 1
7	NER	AGTCCPP Unit 1	NEEPCO	10-Mar-19 09:03	10-Mar-19 09:45	00:42:00	AGTCCPP Unit 1 tripped at 09:03 Hrs on 10.03.19 due to Generator electrical fault. (Revision of schedule from Block No.40 on 10.03.19).	19	0	0.01	0	GI 1

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
8	NER	AGTCCPP Unit 1	NEEPCO	10-Mar-19 13:03	10-Mar-19 13:45	00:42:00	AGTCCPP Unit 1 tripped at 13:03 Hrs on 10.03.19 due to Generator electrical fault (Revision of schedule from Block No. 56 on 10.03.19).	16	0	0.01	0	GI 1
9	NER	AGTPP Unit 1	NEEPCO	11-Mar-19 18:38	11-Mar-19 19:15	00:37:00	AGTCCPP Unit 1 tripped at 18:38 Hrs on 11.03.19 due IGV control trouble. (Revision of schedule from Block No 78 on 11.03.19).	5	0	0.003	0	GI 1
10	NER	AGTPP EXTN Unit STG-1	NEEPCO	13-Mar-19 17:05	13-Mar-19 17:45	00:40:00	AGTCCPP STG-1 tripped at 17:05 Hrs on 13.03.19 due main steam temperature low . (Revision of schedule from Block No 72 on 13.03.19).	6	0	0.004	0	GI 1

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
11	NER	AGBPP Unit 9	NEEPCO	13-Mar-19 19:40	13-Mar-19 20:15	00:35:00	AGBPP Unit-9 tripped at 19:40 Hrs on 13.03.19 due to tripping of Unit-5. (Revision of schedule from Block No 82 on 13.03.19)	12	0	0.01	0	GI 2
12	NER	AGBPP Unit-6	NEEPCO	24-Mar-19 11:24	24-Mar-19 12:00	00:36:00	AGBPP Unit 6 tripped at 11:24 Hrs on 24.03.19 due high vibration. (Revision of schedule from Block No 49 on 24.03.19).	28	0	0.02	0	GI 1
13	NER	AGBPP Unit-3	NEEPCO	25-Mar-19 17:02	25-Mar-19 17:45	00:43:00	AGBPP Unit 3 tripped at 17:02 Hrs on 25.03.19 due to boiler high temperature . (Revision of schedule from Block No 72 on 25.03.19).	29	0	0.02	0	GI 2

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
14	NER	AGBPP Unit-2	NEEPCO	25-Mar-19 18:03	25-Mar-19 18:45	00:42:00	AGBPP Unit 2 tripped at 18:03 Hrs on 25.03.19 due to boiler high temperature . (Revision of schedule from Block No 76 on 25.03.19).	26	0	0.02	0	GI 2
15	NER	BgTPP Unit-3	NTPC	31-Mar-19 15:31	31-Mar-19 16:15	00:44:00	BGTPP Unit-3 tripped at 15:31 Hrs on 31.03.19 due to flame failure. (Revision of schedule from Block No 66 on 31.03.19).	117	0	0.09	0	GI 2
16	NER	AGTCCPP Unit-3	NEEPCO	31-Mar-19 18:05	31-Mar-19 18:45	00:40:00	AGTCCPP Unit-3 tripped at 18:05 Hrs due to lube oil temperature high. (Revision of schedule from Block No 76 on 31.03.19).	18	0	0.01	0	GI 1

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
17	NER	AGTCCPP Unit-3	NEEPCO	02-Apr-19 18:14	02-Apr-19 19:15	1 hrs 1 mins	AGTCCPP Unit-3 tripped at 18:14 Hrs on 02-04-19 due to Stator earth fault. (Revision of schedule from Block No 78 on 02.04.19).	15	0	0.02	0	GI 1
18	NER	AGBPP Unit 6	NEEPCO	09-Apr-19 16:10	09-Apr-19 16:30	20 mins	AGBPP Unit 6 tripped at 16:10 Hrs on 09.04.19 due to high vibration. (Revision of schedule from Block No 67 on 09.04.19).	25	0	0.01	0	GI 2
19	NER	AGBPP Unit 7	NEEPCO	10-Apr-19 14:33	10-Apr-19 15:15	42 mins	AGBPP Unit 7 tripped at 14:33 Hrs on 10.04.19 due to high vibration. (Revision of schedule from Block No 62 on 10.04.19).	30	0	0.02	0	GI 2

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
20	NER	AGTCCPP Unit 2	NEEPCO	13-Apr-19 20:03	13-Apr-19 20:30	27 mins	AGTCCPP Unit-2 tripped at 20:03 Hrs on 13-04-19 due to Earth Fault. (Revision of schedule from Block No 83 on 13.04.19).	10	0	0.01	0	GI 1
21	NER	Loktak Unit 2	NHPC	16-Apr-19 12:12	16-Apr-19 13:00	48 mins	Loktak Unit 2 tripped due to high GT B-Ph Winding temperature at 12:12 Hrs on 16-04-19. (Revision of schedule from Block No 53 on 16.04.19).	34	0	0.03	0	GI 1
22	NER	AGTCCPP Unit 1	NEEPCO	19-Apr-19 18:15	19-Apr-19 18:45	30 mins	AGTCCPP Unit 1 tripped due to NVD start at 18:15 Hrs on 19-04-19. (Revision of schedule from Block No 76 on 19.04.19).	20	0	0.01	0	GI 1

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
23	NER	BgTPP Unit 3	NTPC	24-Apr-19 11:26	24-Apr-19 12:00	34 mins	BGTPP Unit-3 tripped at 11:26 Hrs on 24.04.19 due to Problem in Governor control valve. (Revision of schedule from Block No 49 on 24.04.19).	139	0	0.08	0	GI 2
24	NER	Palatana STG II	OTPC	25-Apr-19 02:55	25-Apr-19 03:30	35 mins	PALATANA STG 2 tripped at 02:55 Hrs on 25.04.19 due to opening of steam control valve. (Revision of schedule from Block No.15 on 25.04.19).	100	0	0.06	0	GI 2
25	NER	AGTCCPP Unit 4	NEEPCO	25-Apr-19 14:05	25-Apr-19 14:45	40 mins	AGTCCPP Unit 4 tripped at 14:05 Hrs on 25-04-19 due to high lube oil temperature. (Revision of schedule from Block No 60 on 25.04.19).	19	0	0.01	0	GI 1

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
26	NER	AGTCCPP Unit 1	NEEPCO	26-Apr-19 15:05	26-Apr-19 15:45	40 mins	AGTCCPP Unit 1 tripped at 15:05 Hrs on 26-04-19 due to earth fault at 11 kV bus. (Revision of schedule from Block No 64 on 26.04.19).	18	0	0.01	0	GI 1
27	NER	BgTPP Unit 3	NTPC	27-Apr-19 00:11	27-Apr-19 01:15	1 hrs 4 mins	BGTPP Unit-3 tripped at 00:11 Hrs on 27.04.19 due to load fluctuation, Throttling Valve problem. (Revision of schedule from Block No 6 on 27.04.19).	202	0	0.22	0	GI 2
28	NER	BgTPP Unit 1	NTPC	27-Apr-19 16:03	27-Apr-19 16:45	42 mins	BGTPP Unit-1 tripped at 16:03 Hrs on 27.04.19 due to flame failure. (Revision of schedule from Block No 68 on 27.04.19).	132	0	0.09	0	GI 2

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
29	NER	AGTCCPP Unit 4	NEEPCO	27-Apr-19 19:21	27-Apr-19 20:00	39 mins	AGTCCPP Unit 4 tripped at 19:21 Hrs on 27-04-19 due to high oil temperature. (Revision of schedule from Block No 81 on 27.04.19).	16	0	0.01	0	GI 1
30	NER	AGTCCPP Unit 1	NEEPCO	28-Apr-19 12:06	28-Apr-19 13:00	54 mins	AGTCCPP Unit 1 tripped at 12:06 Hrs on 28.04.19 due to loss of Communication with controller. (Revision of schedule from Block No.53 on 28.04.19).	18	0	0.02	0	GI 1
31	NER	AGTCCPP Unit 1	NEEPCO	01-May-19 08:28	01-May-19 09:15	47 mins	AGTCCPP Unit 1 tripped at 08:28 Hrs on 01.05.19 due to IGB Control Trouble Trip. (Revision of schedule from Block No.38 on 01.05.19).	17	0	0.01	0	GI 1

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
32	NER	AGTCCPP Unit 1	NEEPCO	02-May-19 16:12	02-May-19 16:45	33 mins	AGTCCPP Unit 1 tripped at 16:12 Hrs on 02.05.19 due to IGB Control Trouble Trip. (Revision of schedule from Block No.68 on 02.05.19).	19	0	0.01	0	GI 1
33	NER	AGTCCPP Unit 1	NEEPCO	03-May-19 12:45	03-May-19 13:30	45 mins	AGTCCPP Unit 1 tripped at 12:45 Hrs on 03.05.19 due to Generator Electrical Fault. (Revision of schedule from Block No.55 on 03.05.19).	13	0	0.01	0	GI 1
34	NER	AGTCCPP Unit 4	NEEPCO	04-May-19 07:03	04-May-19 08:00	57 mins	AGTCCPP Unit 4 tripped at 07:03 Hrs on 04.05.19 due to Voltage jerk. (Revision of schedule from Block No.33 on 04.05.19).	18	0	0.02	0	GI 1

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
35	NER	AGTCCPP Unit 6	NEEPCO	06-May-19 03:07	06-May-19 04:15	1 hrs 8 mins	AGTCCPP Unit 6 tripped at 03:07 Hrs on 06.05.19 due to STG console trip. (Revision of schedule from Block No.17 on 06.05.19).	11	0	0.01	0	GI 1
36	NER	BgTPP Unit 1	NTPC	08-May-19 06:59	08-May-19 07:45	46 mins	BGTPP Unit-1 tripped at 06:59 Hrs on 08.05.19 due to boiler flame failure. (Revision of schedule from Block No 32 on 08.05.19).	138	0	0.11	0	GI 2
37	NER	Khandong Unit 2	NEEPCO	09-May-19 19:42	09-May-19 20:30	48 mins	Khandong Unit 2 tripped at 19:42 Hrs on 09.05.19 due to high thrust bearing temperature. (Revision of schedule from Block No 83 on 09.05.19).	25	0	0.02	0	GI 1

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
38	NER	AGBPP Unit 4	NEEPCO	12-May-19 09:50	12-May-19 10:45	55 mins	AGBPP Unit 4 tripped at 09:50 Hrs on 12.05.19 due to tripping of Gas Compressor 1. (Revision of schedule from Block No 44 on 12.05.19).	13	0	0.01	0	GI 2
39	NER	Kopili Unit 1	NEEPCO	12-May-19 11:44	12-May-19 13:00	1 hrs 16 mins	Kopili Unit 1 tripped at 11:44 Hrs on 12.05.19 due to Stator Earth Fault. (Revision of schedule from Block No 53 on 12.05.19).	40	0	0.05	0	GI 2
40	NER	AGBPP Unit 6 and 9	NEEPCO	12-May-19 18:09	12-May-19 19:30	1 hrs 21 mins	AGBPP Unit 6 tripped at 18:09 Hrs of 12.05.2019 due to high vibration and Unit 9 tripped at 18:09 Hrs of 12.05.2019 due to non availability of Unit 5 & 6. (Revision done from block number 79 on 12.05.2019)	66	0	0.09	0	GI 2

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
41	NER	Pare Unit 2	NEEPCO	16-May-19 16:19	16-May-19 17:15	56 mins	Pare Unit 2 tripped at 16:19 Hrs of 16.05.2019 due to failure of governor primary signal. (Revision done from block number 70 on 16.05.2019)	48	0	0.04	0	GI 1
42	NER	BgTPP Unit 2	NTPC	23-May-19 03:37	23-May-19 04:30	53 mins	BGTPP Unit-2 tripped at 03:37 Hrs on 23.05.19 due to low vacuum level. (Revision of schedule from Block No 19 on 23.05.19).	194	0	0.17	0	GI 2
43	NER	Khandong Unit 1	NEEPCO	25-May-19 15:57	25-May-19 16:45	48 mins	Khandong Unit 1 tripped at 15:57 Hrs on 25.05.19 due to high thrust bearing temperature. (Revision of schedule from Block No 68 on 23.05.19).	24	0	0.02	0	GI 1

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
44	NER	AGTCCPP Unit 3	NEEPCO	27-May-19 13:48	27-May-19 14:30	42 mins	AGTCCPP Unit 3 tripped at 13:48 Hrs on 27.05.19 due to under voltage & over-current. (Revision of schedule from Block No.59 on 27.05.19).	18	0	0.01	0	GI 1
45	NER	AGBPP Unit 2	NEEPCO	27-May-19 23:54	28-May-19 00:45	51 mins	AGBPP Unit 2 tripped at 23:54 Hrs of 27.05.2019 due to tripping of Gas compressor 1. (Revision done from block number 4 on 28.05.2019)	29	0	0.02	0	GI 2
46	NER	AGBPP Unit 3, 4 & 8	NEEPCO	28-May-19 00:33	28-May-19 01:30	57 mins	AGBPP Unit 3, 4 & 8 tripped at 00:33 Hrs of 28.05.2019 due tripping of Gas Compressor 3 & 4. (Revision done from block number 7 on 28.05.2019)	58	0	0.06	0	GI 2

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
47	NER	AGBPP Unit 1, 5, 7 & 9	NEEPCO	28-May-19 03:03	28-May-19 04:00	57 mins	AGBPP Unit 1, 5, 7 & 9 tripped at 03:03 Hrs of 28.05.2019 due tripping of Gas Compressor 2. (Revision done from block number 17 on 28.05.2019)	71	0	0.07	0	GI 2
48	NER	Kopili Unit 2	NEEPCO	28-May-19 14:50	28-May-19 16:00	1 hrs 10 mins	Kopili Unit 2 tripped at 14:50 Hrs on 28.05.19 due to high thrust bearing temperature. (Revision of schedule from Block No 65 on 28.05.19).	36	0	0.04	0	GI 2
49	NER	AGTCCPP Unit 1	NEEPCO	29-May-19 21:43	29-May-19 22:30	47 mins	AGTCCPP Unit 1 tripped at 21:42 Hrs on 29.05.19 due to flash-over in bus duct of Unit-1. (Revision of schedule from Block No.91 on 29.05.19).	16	0	0.01	0	GI 1

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
50	NER	AGTCCPP Unit 6	NEEPCO	01-Jun-19 08:30	01-Jun-19 09:30	1 hrs 0 mins	AGTCCPP Unit 6 tripped at 08:30 Hrs on 01.06.19 due to voltage jerk. (Revision of schedule from Block No.39 on 01.06.19).	6	0	0.006	0	GI 1
51	NER	AGBPP Unit 5	NEEPCO	08-Jun-19 05:40	08-Jun-19 06:30	50 mins	AGBPP Unit 5 tripped at 05:40 Hrs of 08.06.2019 due to low Gas fuel interval pressure. (Revision done from block number 27 on 08.06.2019)	29	0	0.024167	0	GI 2
52	NER	AGBPP Unit 2	NEEPCO	10-Jun-19 13:25	10-Jun-19 14:30	1 hrs 5 mins	AGBPP Unit 2 tripped at 13:25 Hrs of 10.06.2019 due to tripping of Gas Compressor. (Revision done from block number 59 on 10.06.2019)	28	0	0.030333	0	GI 2

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
53	NER	AGBPP Unit 4, 7 & 8	NEEPCO	10-Jun-19 15:21	10-Jun-19 16:00	39 mins	AGBPP Unit 4, 7 & 8 tripped at 15:21 Hrs of 10.06.2019 due to tripping of Gas Compressor 3 & 4. (Revision done from block number 65 on 10.06.2019)	72	0	0.0468	0	GI 2
54	NER	AGBPP Unit 4	NEEPCO	11-Jun-19 20:25	11-Jun-19 21:30	1 hrs 5 mins	AGBPP Unit 4 tripped at 20:25 Hrs of 11.06.2019 due to tripping of Gas Compressor. (Revision done from block number 87 on 11.06.2019)	31	0	0.033583	0	GI 2
55	NER	Ranganadi Unit 1	NEEPCO	11-Jun-19 20:31	11-Jun-19 21:15	44 mins	Ranganadi Unit 1 tripped at 20:31 Hrs of 11.06.2019 due to Rotor Earth Fault. (Revision done from block number 86 on 11.06.2019)	112	0	0.082133	0	GI 2

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
56	NER	AGBPP Unit 6	NEEPCO	13-Jun-19 13:20	13-Jun-19 14:00	40 mins	AGBPP Unit 6 tripped at 13:20 Hrs of 13.06.2019 due to high vibration in turbine bearing. (Revision done from block number 57 on 13.06.2019)	26	0	0.017333	0	GI 2
57	NER	Khandong Unit 2	NEEPCO	14-Jun-19 07:09	14-Jun-19 08:00	51 mins	Khandong Unit 2 tripped at 07:09 Hrs of 14.06.2019 due to Governor Problem. (Revision done from block number 33 on 14.06.2019)	23	0	0.01955	0	GI 1
58	NER	AGTCCPP Unit 1,2,3 and STG-1 & 2	NEEPCO	18-Jun-19 11:32	18-06-2019 12:45:00	73 mins	AGTCCPP Unit 1,2,3 and STG-1 & 2 tripped at 11:32 Hrs on 18/06/19 due to Under voltage stage-1 operation. Revision done at Block No 52.	82	0	0.099767	0	GI 1

List of Grid Incidents

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserviced (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
59	NER	Palatana Module-1	OTPC	18-Jun-19 11:32	18-06-2019 12:30:00	58 mins	OTPC Module-1(GT and ST) tripped at 11:32 Hrs on 18/06/19 due to tripping of gas booster compressor.Revision done from Block No.51 on 18/06/19.	323	0	0.312233	0	GI 2
60	NER	KHANDONG UNIT-1	NEEPCO	21-Jun-19 16:55	21-06-2019 17:30:00	35 mins	Loktak Unit-1 tripped at 16:55 Hrs on 21/06/19 due to thrust bearing temperature high. (Revision carried out at 71 block)	21	0	0.01225	0	GI 1
61	NER	AGTCCPP Unit 4, AGTCCPP STG-1 and AGTCCPP STG-2	NEEPCO	26-Jun-19 08:38	26-06-2019 09:15:00	37 mins	AGTCCPP Unit 4, AGTCCPP STG-1, AGTCCPP STG-2 tripped at 08:38 Hrs on 26/06/19 due to Voltage jerk.Revision done from Block No.38 on 26/06/19.	90	0	0.0555	0	GI 1

Summary of UFR Inspection & identification of additional feeders for UFR of Tripura Power System
-24.06.19 to 27.06.19

Background:

Grid Disturbance of category GD-V occurred in NER grid on 20.04.19 affecting the power System of Manipur, Mizoram, South Assam, Part of Meghalaya, Tripura including Bangladesh (along with South Comilla load). Simultaneous tripping of 400 kV Silchar – Byrnihat line & 400 kV Silchar – Azara line occurred at 11:50 Hrs. Subsequently, SPS-3 operated at Palatana which in turn tripped HV side CB of GT-1 at 11:50:55.241 Hrs and GT-2 at 11:50:55.236 Hrs. GT-1 went to house load at 11:50:55.241 Hrs and finally tripped on Gas purge fault trip at 11:51:18.356 Hrs. Similarly, GT-2 went to house load at 11:50:55.246 Hrs. These tripping resulted in overloading of 132 kV Byrnihat-EPIP -II D/C lines of Meghalaya and tripped on operation of overcurrent at 11:50:56.729 Hrs.

Due to tripping of these lines, power System of Manipur, Mizoram, South Assam, Part of Meghalaya, Tripura including Bangladesh (along with South Comilla load) separated from the main grid and sudden dip in frequency was observed at 132 kV Agartala PMU.

132 kV Agartala frequency dropped from 50.07 Hz to 48.16 Hz within 1 sec & touched 45.30 Hz from 48.16 Hz within 3 seconds (Fig-1).

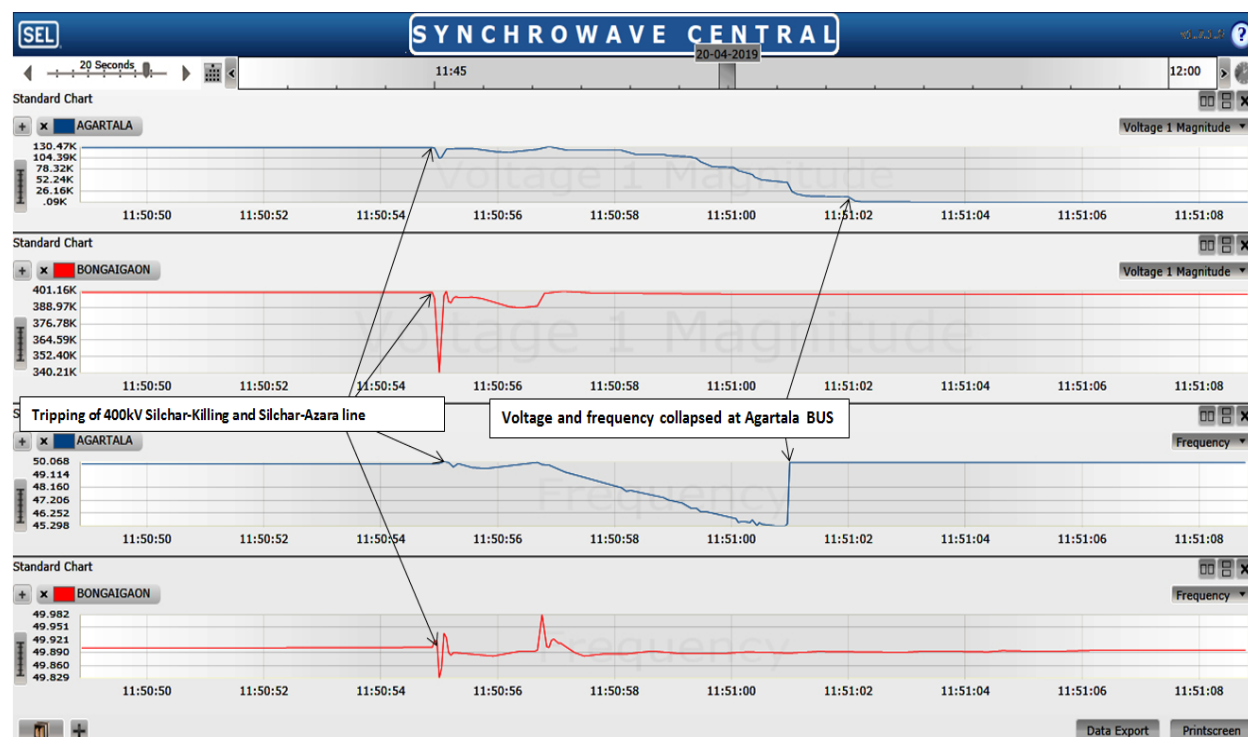


Fig 1: PMU Plot of 132 kV Agartala frequency for the grid disturbance on 20.04.19

It was reported that 132 kV Palatana-Udaipur line and 132 kV Palatana-SM Nagar line tripped at Palatana on operation of under frequency relay for island-2 formation. Operation of other UFRs for island scheme-2 formation was not reported.

No UFR operation was reported by SLDC, Tripura. As decided in OCC meeting, team comprising of members from NERTS, TSECL, NERLDC & NERPC carried UFR inspection from **24th Jun'19 to 27th Jun'19**.

Summary of testing of existing UFR is given below:

Date of Testing	Name of Substation	Name of feeder	Existing Setting	Summary of testing	Load relief at Peak(MW)	Recommendations if any
24.06.19	132/33 kV 79 Tilla	1. 33 kV Mohanpur	49.0 Hz, 300 msec	UFR operated. However, relay operating time is on the higher side (60-90 msec).Also, upon reducing time delay beyond 150 msec results in undesired & abnormal tripping of the feeder	9	Relay operating time should be minimum & time delay should be 0 msec (instantaneous). Matter to be taken up with OEM at the earliest.
		2. 33 kV Durjoynagar	49.0 Hz, 300 msec		7.5	
		3. 33 kV College Tilla	48.8 Hz, 300 msec		11.5	
		4. 33 kV Banamalipur	48.6 Hz, 300 msec		18	
26.06.19	66/33/11 kV Badarghat Substation	1. 33 kV Bishalgarh	49.2 Hz, 150 msec	UFR test operation unsuccessful. Tripping not issued by relay	6	
		2. 33 kV Stadium	48.8 Hz, 200 msec		12	
26.06.19	132/33 kV Surjamaninagar	1. 33 kV Jungalia (Bishalgarh)	49.2 Hz, 150 msec	UFR test operation unsuccessful. Tripping not issued by relay	16.4	Relay to be replaced
27.06.19	132/66/33/11 kV Rabindranagar	1. 33 kV Melaghar	49.2 Hz, 150 msec	UFR operated. However, relay operating time is on the higher side (60-90 msec).Also, upon reducing time delay beyond 150 msec results in undesired & abnormal tripping of the feeder	3.65	Relay operating time should be minimum & time delay should be 0 msec (instantaneous). Matter to be taken up with OEM at the earliest.

Summary of testing of UFR for islanding scheme-2 is given below:

Date of Testing	Name of Substation	Name of feeder	Existing Setting	Summary of testing	Recommendations if any
26.06.19	400/132 kV Palatana	1. 132 kV Udaipur	48.8 Hz, 500 msec	Relay operated correctly.	-
		2. 132 kV SMNagar		Testing could not be done as shutdown was not accorded	Testing shall be done on next opportunity S/D & report to be submitted to NERPC by OTPC
25.06.19	132 kV Kumarghat	1. 132 kV AGTCCPP			Testing shall be done on next opportunity S/D & report to be submitted to NERPC by NERTS
		2. 132 kV P.K Bari		-	
-	400/132 kV Silchar	1. 132 kV P.K Bari 1 Line		-	
		2. 132 kV P.K Bari 2 Line		-	

Summary of inspection & identification of additional feeders for installation of UFR for islanding scheme

Date of inspection	Name of Substation	Feeders identified	Load Relief		Recommended UFR settings
			Peak	Off Peak	
25.06.19	132/33/11 kV Ambassa	1. 33 kV Gandacherra	3.48	3	48.8 Hz, 500 msec
		2. 33 kV Salema	2.2	1.7	
		3. 33 kV Manu	6.2	5.5	
		4. 7.5 MVA, 132/33/11 kV Transformer	3	2	
25.06.19	132/33/11 kV P.K Bari	1. 132 kV Silchar(PG) - P.K Bari D/C at Silchar(PG)			
		2. 33 kV Kanchanpur	3.1	2.1	
		3. 11 kV Darchawi	2.3	1.1	
		4. 11 kV Fatikroy	1.3	1.1	
		5. 11 kV kanchanbari	1.1	0.89	
25.06.19	132/33/11 kV Dhalabil	1. 33 kV kalyanpur	2.6	0.13	
		2. 33 kV Tulashikar	2.6	2.3	
		3. 33 kV Ampura	1.09	1.35	
		4. 15 MVA, 132/11 kV Transformer	5.9	2.3	
26.06.19	132/66/33/1	1. 66 kV Bagafa	9.1	6	

	1 kV Udaipur	2. 33 kV Udaipur Town	4	3.6	
		3. 33 kV Rani	7.1	4.8	
		4. 33 kV Killa	0.95	0.5	
27.06.19	132/66/11 kV Rokhia	1. 66 kV Badarghat	5.8	4	
		2. 66 kV Rabindranagar	20.5	13.5	
		3. 66 kV Boxanagar	3.8	2	
Total identified load			86.12	57.8 7	
Total Load to be identified as decided in PCC			100	70	

Sd/-