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विद्युत शक्ति सर्वेक्षण और भार पूर्वानुमान प्रभाग  
Power Survey & Load Forecasting Division

Quarterly Report on **Mock Drill Exercises** carried out by Various  
Establishments of Power Sector  
(January 2019 to March 2019)



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**Background:**

As per provisions under section 37 of the Disaster Management act 2005, each Ministry or Department of Government of India is required to prepare a Disaster Management Plan. Accordingly, Ministry of power, in association with CEA, has prepared Crises and Disaster Management Plan (CMP) for the power sector in consultation with all stakeholders that provides a framework and direction to the power sector utilities of the country for all phases of the disaster management cycle.

The CMP for the power sector provides for undertaking periodic mock drill exercise in the various area of the power sector considering various crisis situations like terrorist threats / attack & sabotage, bomb threats & bomb explosions, strike, fire, accidents due to human error/ equipment malfunction, cyber-attack etc. to ensure the preparedness of various utilities in handling the emergent/crisis situations. The plan document also provides for submission of a quarterly report in this regard by each utility to CEA indicating the outline of crisis situations, response of the various teams, observations and effectiveness for handling the emergency situation and scope for improvements etc.

This report is a compilation of various mock drill exercises undertaken by various establishments of power sector across the width and breadth of the country during the period of January to March 2019. It would give us an insight about our preparedness towards handling untoward incidents and highlights shortcomings, if any, to prepare our self in better ways. The experiences gained from these reported mock drill exercises would be very helpful in updating policy guidelines for crisis management and building capacity for all the stakeholders to address such events more skilfully.

### Highlight of the report:

The mock drill exercises reported by various establishments during the quarter ranges from routine drills to some very specific drills. It has been observed that routine mock drill exercises such as fire, vehicle accident, terrorist attacks, anonymous bomb threats, failure of back up supply, electrocution have been carried out by most of the establishments. Apart from that, occurrence of some other less frequent mock drill exercises has also been reported such as earthquake (Chamera Power Station-II, Himachal Pradesh), Himachal Pradesh), failure of boat engine (Tanakpur Power Station), drowning (Teesta Low Dam-IV Power Station), Gas leak (Godavari Gas Power Plant, Andhra Pradesh; Sagardighi Thermal Power Project, West Bengal and Budge Budge generating station, West Bengal).

A summary of number of mock drill exercises reported by various establishment is given below:

Sl. No.	Establishments	Number of Mock Drill Exercises Reported
1.	NHPC	55
2.	Tata Power Company Ltd.	14
3.	Jaiprakash Associates Limited	1
4.	NHDC LTD	2
5.	Telangana State Power Generation Corporation Ltd	2
6.	Spectrum Power Generation Ltd., Kakinada, Andhra Pradesh	1
7.	Godavari Gas Power Plant	1
8.	The West Bengal Power Development Corporation Limited	3
9.	CESC Limited	12
10.	Power System Operation Corporation Limited	12
	<b>Total</b>	<b>103</b>

**Photographs of Mock Drill Exercise Conducted by CESC Ltd.**



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**Quarterly Mock Drill Report for the period of January to March 2019**

Sl. No	Name of Establishment	State	Location	Scenario	Date & Time	Observations/Recommendation /Suggestions/ Activity performed
Name of Organization: <b>NHPC</b>						
1.	Bairasiul Power Station, Chamba	Himachal Pradesh	Power House	Fire	30.03.2019 at 16.09 hrs	System was working satisfactory.
2.	Bairasiul Power Station, Chamba	Himachal Pradesh	Installation of the Plant	Bomb threat	26.02.2019 at 16.00 hrs	Unit in-charge de-briefed to all force personnel and appreciated the work done by team.
3.	Bairasiul Power Station, Chamba	Himachal Pradesh	Main gate on power house	Armed Attack	30.01.2019 at 16.00 hrs	All the functionaries participated in complete coordination and the drill was completed successfully.
4.	Chamera Power Station-1, Chamba	Himachal Pradesh	Power House	Armed Attack	30.01.2019 at 16:00 hrs	All the functionaries participated in complete coordination and the drill was completed successfully.
5.	Chamera Power Station-1, Chamba	Himachal Pradesh	Power House	Failure of Power back up	25.01.2019 at 11:10 hrs	Mock drill was completed successfully.
6.	Chamera Power Station-1, Chamba	Himachal Pradesh	Power House	Failure of Power back up	28.02.2019 at 11:10 Hrs	Mock drill was completed successfully.
7.	Chamera Power Station-1, Chamba	Himachal Pradesh	Power House	Failure of Power back up	30.03.2019 at 15:30 Hrs	Mock drill was completed successfully.
8.	Chamera Power Station-1, Chamba	Himachal Pradesh	Sanjpoi Store	Fire	28.02.2019 at 11:20 Hrs	Mock drill was completed successfully.
9.	Chamera Power Station-II,	Himachal	Chamera-	Failure of backup	13.02.2019	All the functionaries participated

Sl. No	Name of Establishment	State	Location	Scenario	Date & Time	Observations/Recommendation /Suggestions/ Activity performed
	Chamba	Pradesh	II,Baandh.	power	at 13:15 hrs.	in complete coordination and the drill was completed successfully.
10.	Chamera Power Station-II, Chamba	Himachal Pradesh	Switch Yard	Bomb Threat	26.02.2019 at 16:00 hrs	Mock drill was completed successfully.
11.	Chamera Power Station-II, Chamba	Himachal Pradesh	Power House	Pressure vessel explosion	29.01.2019 at 12:00 Noon	Mock drill was completed successfully.
12.	Chamera Power Station-II, Chamba	Himachal Pradesh	Control Room, Power Station	Failure of backup power	29.01.2019 at 10:42 hrs.	Mock drill was completed successfully.
13.	Chamera Power Station-II, Chamba	Himachal Pradesh	Main Gate Power House	Armed Attack	30.01.2019 at 16:00 hrs	Force personnel were suggested different approaches to tackle such situation.
14.	Chamera Power Station-II, Chamba	Himachal Pradesh	Chamera-II,Baandh.	Earthquake	13.02.2019 at 12:30 hrs	Mock drill was completed successfully.
15.	Chamera Power Station-II, Chamba	Himachal Pradesh	Grocery Campus	Electrocution	17.01.2019 at 10:38 hrs	Mock drill was completed successfully.
16.	Chamera Power Station-III, Chamba	Himachal Pradesh	Power House	Failure of Back-up Power	28.01.2019 at 11:55 hrs	Mock drill was completed successfully.
17.	Chamera Power Station-III, Chamba	Himachal Pradesh	Main Gate	Armed attack	30.01.2019 at 16:00 hrs.	Mock drill was completed successfully.

Sl. No	Name of Establishment	State	Location	Scenario	Date & Time	Observations/Recommendation /Suggestions/ Activity performed
18.	Chamera Power Station-III, Chamba	Himachal Pradesh	Project Site	Bomb Threat	26.02.2019 at 16:00 hrs.	Mock drill was completed successfully.
19.	Chamera Power Station-III, Chamba	Himachal Pradesh	Quarter Guard.	Armed attack	28.03.2019 at 16:30 hrs.	Mock drill was completed successfully.
20.	Dhauliganga Power Station, Tapovan Pithoragarh	Uttarakhand	Main Gate.	Armed attack	30.01.2019 at 16:00 hrs.	Mock drill was completed successfully.
21.	Dhauliganga Power Station, Tapovan	Uttarakhand	Project Site	Bomb Threat	29.03.2019 at 16:00 hrs.	Mock drill was completed successfully.
22.	Dhauliganga Power Station, Tapovan Pithoragarh	Uttarakhand	Project Site	Bomb Threat	26.02.2019 at 16:00 hrs.	Mock drill was completed successfully.
23.	Loktak Power Station, Churachandpur	Manipur	Power House Canteen Area.	Testing of various emergency team's response.	20.03.2019 at 11:00 hrs.	Mock drill was completed successfully.
24.	Nimoo Bazgo Power Station, Leh	Jammu & Kashmir	Outside Colony	Vehicle accident	26.03.2019 11:31 hrs.	Mock drill was completed successfully.
25.	Parbati -III, Behauli, Kullu	Himachal Pradesh	Main Gate	Armed Attack	30.01.2019 at 16:00 hrs.	Mock drill was completed successfully.
26.	Parbati -III, Behauli, Kullu	Himachal Pradesh	Project Site	Bomb Threat	26.02.2019 at 16:00 hrs.	Mock drill was completed successfully.
27.	Parbati -III, Behauli, Kullu	Himachal Pradesh	Unit Line	Armed Attack	29.03.2019 at 16:00 hrs.	Mock drill was completed successfully.



Sl. No	Name of Establishment	State	Location	Scenario	Date & Time	Observations/Recommendation /Suggestions/ Activity performed
28.	Rangit Power Station	Sikkim	Control Room, ECD	Electrocution	13.03.2019 at 10:50 hrs.	Mock drill was completed successfully.
29.	Rangit Power Station	Sikkim	Control Room, ECD	Back-up Power Failure	13.03.2019 at 11:30 hrs.	Mock drill was completed successfully.
30.	Salal Power Station, Jyotipuram	Jammu & Kashmir	R F Dam, Dhyangarh.	Armed Fidayeen attack	30.01.2019 at 16.00 hrs.	The Movement of Personnel should be swift and tactical.
31.	Salal Power Station, Jyotipuram	Jammu & Kashmir	Bidda	Fire	13.03.2019 at 15:28 hrs.	Mock drill was completed successfully.
32.	Salal Power Station, Jyotipuram	Jammu & Kashmir	RF Dam, Dhyangarh.	Armed attack	29.03.2019 at 16:30 hrs.	Mock Drill was conducted satisfactorily.
33.	Salal Power Station, Jyotipuram	Jammu & Kashmir	Adm-I Building	Bomb threat	26.02.2019 at 16:00 hrs.	The Movement of Personnel should be swift and tactical.
34.	Sewa -II Power Station Mashka, Kathua	Jammu & Kashmir	Power House	Earthquake	07.03.2019 at 16:30 hrs	Mock Drill was conducted satisfactorily.
35.	Tanakpur Power Station, Champawat, Banbassa	Uttarakhand	Barrage Reservoir	Simulating actual failure of Boat engine	05.02.2019 at 11:32 hrs	The Staff/Crew should always wear life Jacket while boating.
36.	Tanakpur Power Station, Champawat, Banbassa	Uttarakhand	Central Store	Fire	12.02.2019 at 11:24 hrs	Mock Drill was conducted satisfactorily.
37.	Teesta-V Power Station, Balutar	Sikkim	Admin Building	Fire	04.02.2019 at 11:00 hrs.	Seriousness and attention needed to be inculcated among the employees and the workers.
38.	Teesta-V Power Station,	Sikkim	17 Min	Fire	29.03.2019	Seriousness and attention needed

Sl. No	Name of Establishment	State	Location	Scenario	Date & Time	Observations/Recommendation /Suggestions/ Activity performed
	Balutar		Division Ord Unit		at 12:00 hrs.	to be inculcated among the employees and the workers.
39.	Teesta-V Power Station, Balutar	Sikkim	Power House	Fire extinguisher demonstration	05.01.2019 at 13:00 hrs.	Seriousness and attention needed to be inculcated among the employees and the workers.
40.	Teesta-V Power Station, Balutar	Sikkim	Store Division	Fire extinguisher demonstration	05.01.2019 at 15:15hrs.	Seriousness and attention needed to be inculcated among the employees and the workers.
41.	Teesta-V Power Station, Balutar	Sikkim	Rangpo Bottling Plant	Fire	09.03.2019 at 15:00 hrs	Emergency response drill was conducted successfully.
42.	Teesta-V Power Station, Balutar	Sikkim	11 kV Substation	Failure of backup power	23.03.2019 at 15:20 hrs	The demonstrations were conducted successfully.
43.	Teesta-V Power Station, Balutar	Sikkim	11 kV Substation	Failure of backup power	17.01.2019 at 11:55 hrs	More attention is needed among the employee/contract workers to cope up the situation.
44.	Teesta-V Power Station , Balutar	Sikkim	EMD Dam	Failure of backup power	21.01.2019 at 15:20 hrs	More seriousness and attention needed to be inculcated among the employees.
45.	Teesta-V Power Station, Balutar	Sikkim	17 Min Div Ord Unit.	Fire	29.03.2019 at 13:20 hrs	Emergency response drill was conducted successfully.
46.	Teesta-V Power Station, Balutar	Sikkim	Power House	Failure of backup power	28.02.2019 at 15:00 hrs	Mock Drill was conducted satisfactorily.
47.	Teesta Low Dam-IV Power Station, Kalijhora, Darjeeling	West Bengal	Power Station	Failure of back up supply	14.01.2019 at 15:00 hrs.	Mock Drill was conducted satisfactorily.
48.	Teesta Low Dam-IV Power	West Bengal	Power Station	Blockade of	28.01.2019	Mock Drill was conducted

Sl. No	Name of Establishment	State	Location	Scenario	Date & Time	Observations/Recommendation /Suggestions/ Activity performed
	Station Kalijhora, Darjeeling			approach road to civil site Office	at 12:10 hrs.	satisfactorily.
49.	Teesta Low Dam-IV Power Station Kalijhora, Darjeeling	West Bengal	Dam Site	Drowning	07.03.2019 at 11:29 hrs	Mock Drill was conducted satisfactorily.
50.	Teesta Low Dam-IV Power Station Kalijhora, Darjeeling	West Bengal	Power Station	Failure of Back up supply	18.02.2019 at 11:00 hrs	Mock Drill was conducted satisfactorily.
51.	Teesta Low Dam-IV Power Station Kalijhora, Darjeeling	West Bengal	Power Station	Blockade of approach road.	08.03.2019 at 15:15 hrs	Mock Drill was conducted satisfactorily.
52.	Teesta Low Dam-IV Power Station Kalijhora, Darjeeling	West Bengal	Control Room	Failure of Back up supply	23.03.2019 at 14:00 hrs	Mock Drill was conducted satisfactorily.
53.	Uri - I Power Station, Mohura, Baramulla	Jammu & Kashmir	Barrage area	Vehicle Accident	28.03.2019 at 11:30 hrs	Mock Drill was conducted satisfactorily.
54.	Uri - I Power Station, Mohura, Baramulla	Jammu & Kashmir	Barrage area	Fire	28.03.2019 at 11:30 hrs	Mock Drill was conducted satisfactorily.
55.	Uri - I Power Station, Mohura, Baramulla	Jammu & Kashmir	Barrage area	Power Back Up Failure	28.03.2019 at 11:30 hrs	Mock Drill was conducted satisfactorily.
Name of Organization: <b>Tata Power Company Ltd.</b>						
56.	Trombay Thermal Power Plant, Mumbai	Maharashtra	Office Building	Fire	08.02.2019	Mock Drill was conducted satisfactorily.
57.	Tata Power	Maharashtra	Project Site	Accident in	15.02.2019	Mock Drill was conducted

Sl. No	Name of Establishment	State	Location	Scenario	Date & Time	Observations/Recommendation /Suggestions/ Activity performed
	Co.Ltd,Mumbai			Operational area		satisfactorily.
58	Tata Power Co.Ltd,Haldia plant.	Maharashtra	Haldia (Waste Gas)	Fire in Plant area	19.03.2019	Mock Drill was conducted satisfactorily.
59	Jojobera Thermal Power Plant, Jojobera	Jharkhand	Project Site	Fire in Unit 3 boiler area.	17.02.2019	Mock Drill was conducted satisfactorily.
60.	Jojobera Thermal Power Plant, Jojobera	Jharkhand	Jojobera Ph # 6	Fire in scrap yard.	30.03.2019	Mock Drill was conducted satisfactorily.
61.	Bhira Hydro Power Plant, Mundra	Jharkhand	Project Site	Flood	23.03.2019	Mock Drill was conducted satisfactorily.
62.	Bhivpuri Hydro Power Plant	Maharashtra	Project Site	Fire and explosion in Transformer	13.02.2019	Mock Drill was conducted satisfactorily.
63.	Khopoli Hydro Power Plant	Maharashtra	Project Site	Fire in unit LO area	16.02.2019	Mock Drill was conducted satisfactorily.
64.	Gadag Wind Power Plant	Karnataka	Project Site	Accident to personnel	12.02.2019	Mock Drill was conducted satisfactorily.
65.	Mundra Ultra Mega Power Project (Coastal Gujarat power limited)	Gujarat	Project Site	Coal supply Interruption due to flooding.	27.02 2019	Mock Drill was conducted satisfactorily.
66.	Maithon Thermal Power Plant	Jharkhand	JNT 6 ground floor	Chlorine gas leak	13.03.2019	Mock Drill was conducted satisfactorily.
67.	Kalinganagar Waste Gas Power Plant	Odisha	TG Area	Risk of Terrorism	14.02.2019	Mock Drill was conducted satisfactorily.

Sl. No	Name of Establishment	State	Location	Scenario	Date & Time	Observations/Recommendation /Suggestions/ Activity performed
68.	Rojmal Wind Power Plant	Gujrat	Operational area	Accident in Operational area	05.03.2019	Mock Drill was conducted satisfactorily.
69.	Palaswadi Solar Power Project	Maharashtra	Project Site	Accident in Operational area	26.03.2019	Mock Drill was conducted satisfactorily.
Name of Organization: <b><u>Jaiprakash Associates Limited</u></b>						
70.	Vishnuprayag Hydro Electric Plant	Uttarakhand	Security Post at Power House.	Terrorist Strike	15.03.2019 at 14:30 Hrs.	Mock Drill was conducted satisfactorily.
Name of Organization: <b><u>NHDC LTD</u></b>						
71.	Indira Sagar Power Station, Narmada Nagar	Madhya Pradesh	Parking Area near Access Tunnel	Fire	23.02.2019 at 15:56 hrs	Mock Drill of different nature to be carried out next time.
72.	Omkareshwar Power Station, Khandwa	Madhya Pradesh	Power House	Fire	29.03.2019 at 16.45 hrs.	Mock Drill was conducted satisfactorily.
Name of Organization: <b><u>Telangana State Power Generation Corporation ltd</u></b>						
73.	K.T.P.S(O&M), Paloncha Khammam	Telangana	Near MCC-I/CHP/VII	Fire	28.03.2019 at 11:00 Hrs.	Mock Drill was conducted satisfactorily.

Sl. No	Name of Establishment	State	Location	Scenario	Date & Time	Observations/Recommendation /Suggestions/ Activity performed
			Stage/KTPS			
74.	RTS-B, Ramagundam	Telangana	Near Chemical Lab	Fire	28.03.2019 at 18.40 hrs.	Mock Drill was conducted satisfactorily.
Name of Organization: <b><u>Spectrum Power Generation Ltd., Kakinada, Andhra Pradesh</u></b>						
75.	Spectrum Power Gas Power Plant, Kakinada	Andhra Pradesh	Chlorine Tonner Room	Chlorine gas leak	30.03.2019 at 15:31 hrs.	Mock Drill was conducted satisfactorily.
Name of Organization: <b><u>Godavari Gas Power Plant</u></b>						
76.	Godavari Gas Power Plant, Jegurupadu East Godawari	Andhra Pradesh	Gas Conditioning skid at GGPP.	Gas leak	28.03.2019 at 16:01 hrs.	Mock Drill was conducted satisfactorily.
Name of Organization: <b><u>The West Bengal Power Development Corporation Limited</u></b>						
77.	Sagardighi Thermal Power Project	West Bengal	Stg.I#2 MOT.	Fire	16.03.2019 at 16:30 Hrs.	Such drills should be done at all hazardous operation.
78.	Bakreswar Thermal Power Project	West Bengal	Stage-1 D M Plant Building.	Fire	22.03.2019 at 10:00 hrs	Cleaning/ housekeeping system shall have to be improved. Road shall be properly barricaded during emergency situation.
79.	Santaldih Thermal Power Project	West Bengal	Ground Floor, Technical Building.	Fire	06.03.2019 at 04:20 hrs	Mock Drill was conducted satisfactorily.

Sl. No	Name of Establishment	State	Location	Scenario	Date & Time	Observations/Recommendation /Suggestions/ Activity performed
Name of Organization: <b>CESC Limited</b>						
80.	Budge Budge generating Station	West Bengal	Coal Control Room.	Fire	02.02.2019 at 12:09 hrs	Performance of the Emergency response was found satisfactory.
81.	Budge Budge generating Station	West Bengal	Rotary Breaker Floor	Fire	17.02.2019 at 23:56 hrs.	Performance of the Emergency response was found satisfactory.
82.	Budge Budge generating Station	West Bengal	Pump House Bridge.	Intrusion of two unauthorized Personnel.	19.03.2019 at 08:30 hrs.	Performance of the Emergency response was found satisfactory.
83.	Southern Generating Station	West Bengal	D.S.Building	Assess the response of Security Guard.	15.03.2019	Response time & promptness of the security personnel to be improved..
84.	Southern Generating Station	West Bengal	LDO storage area	Fire	14.03.2019. at 17:30 hrs	A minor Leakage in Foam Monitor was observed.
85.	Titagarh Generating Station	West Bengal	Coal stack Yard near RH-3	Fire	22.03.2019 at 12:05 hrs	Efforts should be made to minimize response time in future.
86.	Titagarh Generating Station	West Bengal	Project Site	Fire	22.03.2019 at 13:10 hrs	Mock Drill was conducted satisfactorily.
87.	CESC Hose, Corporate Office Building.	West Bengal	Project Site	Fire	20.03.2019 at 16:25 hrs	Mock Drill was conducted satisfactorily.
88.	Jadavpore Sub Station	West Bengal	Project Site	Fire	03.01.2019	Mock Drill was conducted satisfactorily.

Sl. No	Name of Establishment	State	Location	Scenario	Date & Time	Observations/Recommendation /Suggestions/ Activity performed
89.	East Calcutta Sub Station	West Bengal	Project Site	Fire	05.02.2019	Mock Drill was conducted satisfactorily.
90.	New Cossipore Sub Station	West Bengal	Project Site	Fire	13.02.2019	Mock Drill was conducted satisfactorily.
91.	Patuli Sub Station	West Bengal	Project Site	Fire	05.03.2019	Mock Drill was conducted satisfactorily.
Name of Organization: <b>Power System Operation Corporation Limited</b>						
92.	Western Regional Load Dispatch Centre, Mumbai	Maharashtra	Parking area near AC Plant.	Fire	07.03.2019 at 16.00 hrs.	Mock Drill was conducted satisfactorily.
93.	Western Regional Load Dispatch Centre, Mumbai	Maharashtra	Terrace area	Terrorist attack	08.03.2019 at 16.30 hrs.	Mock Drill was conducted satisfactorily.
94.	Northern Regional Load Dispatch Centre, New Delhi	Himachal Pradesh	AD Hydro , Phozal & Malana-2 HEP	Black Start	03.01.2019 at 10.40 hrs.	More such exercises should be conducted to train large number of people.
95.	Northern Regional Load Dispatch Centre, New Delhi	Himachal Pradesh	Koldam HEP	Black Start	11.01.2019 at 10:30 hrs.	More such exercises should be conducted to train large number of people.
96.	Northern Regional Load Dispatch Centre, New Delhi	Uttrakhand	Tehri HEP	Black Start	22.02.2019 at 11:00 hrs.	More such exercises should be conducted to train large number of people.
97.	Northern Regional Load	New Delhi	Main & HR	Fire	23.01.2019	Mock Drill was conducted



Sl. No	Name of Establishment	State	Location	Scenario	Date & Time	Observations/Recommendation /Suggestions/ Activity performed
	Dispatch Centre, New Delhi		Buidling, New Delhi		at 12:00 hrs.	satisfactorily.
98	Eastern Regional Load Dispatch Centre, Kolkata	West Bengal	TLDP-III, RAMBI	Black Start	10.01.2019 at 13.12 hrs.	Mock Drill was conducted satisfactorily.
99	Eastern Regional Load Dispatch Centre, Kolkata	Sikkim	GATI/Chuzachen, Sikkim	Black Start	15.01.2019 at 13.25 hrs.	Black start with Gangtok load may be planned next.
100	Eastern Regional Load Dispatch Centre, Kolkata	Jharkhand	Suberna rekha HPS/JUUNL	Black Start	09.02.2019 at 11:00 hrs.	Mock Drill was conducted satisfactorily.
101	Eastern Regional Load Dispatch Centre, Kolkata	Odisha	Burla PH/OHPC	Black Start	07.03.2019 at 11:00 hrs.	Mock Drill was conducted satisfactorily.
102	Eastern Regional Load Dispatch Centre, Kolkata	Odisha	Balimela PH/OHPC	Black Start	11.03.2019 at 11:00 hrs.	Island may also be made with a distant load like Jeynagar or Theruvali in future.
103	Eastern Regional Load Dispatch Centre, Kolkata	Odisha	Rengali PH/OHPC	Black Start	12.02.2019 at 11:00 hrs.	Island may also be made with a distant load like Barkote in future.

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