

फ़ैक्स/स्पीड पोस्ट /FAX/SPEEDPOST

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| भारत सरकार केंद्रीय विद्युत प्राधिकरण दक्षिण क्षेत्रीय विद्युत समिति बेंगलूरु - 560 009 |  सत्यमेव जयते | Government of India Central Electricity Authority Southern Regional Power Committee Bengaluru - 560 009 | |
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| सं/No. | SRPC/SE-II/2019 / 5296 - 337 | दिनांक / Date | 30.10.2019 |

To
As per list enclosed

Sir

Sub: **1st Meeting of Regional Level Disaster Management Group (RDMG)
for power sector – Reg.**

Please find enclosed Minutes of the 1st Meeting of RDMG held on 23.10.2019 at SRPC, Bengaluru for kind perusal and necessary action. The same is available at SRPC website (<http://www.srpc.kar.nic.in>).

धन्यवाद /Thanking you,

भवदीय / Yours faithfully

संलग्न : यथोपरि / Encl: As above



(ए बालन/ A BALAN)

सदस्य सचिव/Member Secretary

Copy for kind information to Chief Engineer, PS&LF Division, CEA, New Delhi

Mailing list:**SDMA**

1. Managing Director, APSDMA, Kunchanapalli, Guntur
2. Principal Secretary, Revenue Department (Disaster Management), Bengaluru
3. Principal Secretary, R & DM, KSDMA, Thiruvanthapuram
4. Joint Director, RA, Disaster Management & MD, Chennai
5. Chief Special Secretary, Revenue Department, TSSDMA, Hyderabad
6. Special Officer, Department of Revenue & Disaster Management, Puducherry

Civil Defence

7. Director General, State Disaster Response and FSD, Vijayawada
8. DGP, CGHG & DCD, DGF & ES, Bengaluru
9. DGP, DG, Fire & Rescue Services, Thiruvanthapuram
10. ADGP/Director Civil Defence/ Addl. C G Home Guards, Chennai
11. DG, Telangana State Disaster Response & Fire Services, Hyderabad

Regional HODs CPSUs

12. Regional Executive Director, SRHQ, NTPC, Hyderabad
13. Director (Power), NLCIL, Neyveli
14. Associate Director, NPCIL, Mumbai
15. CEO, NTECL, Vallur
16. CEO, NTPL, Tuticorin
17. Executive Director, SRTS-I, PGCIL, Hyderabad
18. Executive Director, SRTS-II, PGCIL, Bengaluru

State TRANSCOs/Power Department

19. CMD, APTRANSCO, Vijayawada
20. MD, KPTCL, Bengaluru
21. CMD, KSEBL, Thiruvanthapuram
22. Chairman, TNEB, Chennai
23. CMD, TSTRANSCO, Hyderabad
24. Secretary (Power), Government of Puducherry, Puducherry

Others

25. Chief Engineer (Monitoring South), Central Water Commission, Bengaluru
26. Deputy Director General, Indian Metrological Department, Chennai
27. Group Head, Ocean Information & Forecast Service Group, Hyderabad
28. Executive Director, SRLDC, Bengaluru

Mailing list-Nominees:

1. Shri K Kanna Babu, Special Commissioner, AP Disaster Management & EOAS, Guntur
2. Shri E Swamy, RFO, AP State Disaster Response & Fire Services, Vijayawada
3. Shri V Papaiah, RFO, Telangana State Disaster Response & Fire Services, Hyderabad
4. Shri Gurulingaiah, CFO, Karnataka Fire & Emergency Services, Bengaluru
5. Shri Sidha Kumar V, RFO, Kerala Fire & Rescue Services, Thiruvanthapuram
6. Shri Premadas T, GM(OS), SRHQ, NTPC, Secunderabad
7. Shri A Ravindran, ED (Thermal), NLCIL, Neyveli
8. Shri R Suresh Kumar, STE (E&I), KKNPP, Kudankulam
9. Shri V Keshavadas, CE (Tr.&SO), KSEBL, Kalamassery
10. Shri T Senthilvelan, Director (Trans Project), TANTRANSCO; Ms M A Helen, Director (Distribution), TANGEDCO, Chennai
11. Shri B Narsinga Rao, Director (GO); Shri T Jagath Reddy, Director (Tr); Shri P Suresh Babu, SE (SLDC), TSTRANSCO, Hyderabad
12. Shri R Murali, SE cum HOD, Electricity Department, Puducherry
13. Shri Jitendra Panwar, SE, MSO, CWC, Bengaluru
14. Dr Geeta Agnihotri, Scientist "E" Head MC, IMD, Bengaluru
15. Shri S P Kumar, Sr GM, SRLDC, Bengaluru

Southern Regional Power Committee, Bengaluru
Minutes of the 1st Meeting of RDMG held on 23.10.2019 at SRPC,
Bengaluru

1. Introduction

First Meeting of Regional Disaster Management Group (RDMG)-SR was held on 23rd October 2019 at SRPC, Bengaluru. Officials from Andhra Pradesh SPDR&FS, APTRANSCO, Karnataka F&ES, Kerala F&R Dept, KSEBL, TSTRANSCO, TSGENCO, Puducherry ED, NTPC, NLCIL, NPCIL, NTECL, NTPL, PGCIL, CWC, SRLDC and SRPC participated in this meeting. The list of participants is given at **Annexure-I**.

Background

CEA vide letter dated 09.07.2019 had informed that in compliance to Section 37 of Disaster Management Act 2005, MoP in association with CEA has prepared Crisis and Disaster Management Plan for the Power Sector (available on CEA's website http://cea.nic.in/reports/others/planning/pslf/cmp_powersector.pdf).

The salient roles and responsibilities of Power Utilities as per Crisis and Disaster Management Plan for Power Sector are at **Annexure-II**.

Composition of Regional Level Disaster Management Group is as follows:

- a) Member Secretary (RPC) - Chairman
- b) Secretary in-charge of Rehabilitation and Relief of the effected State of the Region
- c) Representatives of each State Civil Defence
- d) Regional HODs CPSUs (NTPC, NHPC, PGCIL etc.)
- e) CMDs State TRANSCOs/Power Departments
- f) Chief Engineer, Central Water Commission (CWC) for flood related early warnings
- g) Deputy Director General, Indian Metrological Department (IMD) for Earthquake and Cyclone related warnings.
- h) Group Head, Ocean Information and Forecast Services Group (ISG for Tsunami related early warnings

i) Head of RLDC

The responsibilities of RDMG are as given below:

- a) To provide inter-state emergency & start up power supply
- b) To coordinate early restoration of regional grid.
- c) To participate in damage assessment.
- d) To facilitate resource movement to affected state (s) from other regional states

Shri A Balan, Chairman, RDMG & MS, SRPC welcomed the senior officials from the stakeholders to the first meeting of RDMG. He appraised the forum about the genesis of RDMG and stated that power sector being critical infrastructure needed to have its own CDMP. Interstate cooperation was very much required during crisis time.

2. Summary of the deliberations in the meeting

2.1 The details of the nominations received are given at **Annexure-III**. It was noted the nominations were awaited from the following:

- i. Rehabilitation and Relief of Karnataka State (Revenue Department- Disaster Management, Bengaluru)
- ii. Rehabilitation and Relief of Tamil Nadu State (RA, Disaster Management & MD, Chennai)
- iii. State Civil Defence of Tamil Nadu (ADGP/Director Civil Defence/ Adl. Commandant General Home Guards, Chennai)
- iv. Department of Revenue & Disaster Management, Puducherry
- v. SRTS-I, PGCIL, Secunderabad
- vi. Group Head, Ocean Information and Forecast Services Group

The missing information in Annexure needed to be furnished and any subsequent change in RDMG nominations needed to be communicated with the necessary details.

SRPC presentation on the CDMP / RDMG is at **Annexure-IV**.

2.2 CWC

CWC representative informed that Bengaluru MO is monitoring & forecasting of inflows of eight reservoirs four in Cauvery basin and four in Tungabhadra basin. There are similar CWC MOs in Hyderabad (KGBO) and Coimbatore (C&SRO).

CWC, Bengaluru is engaged with 42 M.O. stations in Karnataka on Cauvery, Tunga, Bhadra, Malaprabha & Ghatprabha rivers. River water limits are observed hourly on real time during monsoon period. Besides, CWC, Bengaluru also issues inflow forecast for Hemavathi, Harangi, Kabini and KRS dams in Cauvery basin and Upper Tunga, Bhadra, Hidkal and Malaprabha dams in Krishna basin and available on CWC website (<http://www.cwc.gov.in> → Activities → Flood forecasting [<http://www.cwc.gov.in/flood-forecasting-hydrological>] → link to flood forecast) during monsoon period. Above information can be used by group.

The following was agreed:

- SRPC would seek nominations from CWC MOs KGBO, Hyderabad and C&SRO, Coimbatore.
- It was noted that as per the RDMG, CWC has to provide flood related early warnings. CWC was suggested to provide flood related early warning to RDMG web group and mobile group as and when it is formed. CWC agreed for the same.

2.3 IMD

It was noted there was no representation from IMD.

The following was agreed:

- It was noted that as per RDMG, IMD has to provide warnings for Earthquake and Cyclone.
- IMD was suggested to provide warnings for Earthquake and Cyclone to RDMG web group and mobile group as and when it is formed.

2.4 Ocean Information and Forecast Services Group

It was noted there was no representation from OIFSG.

The following was agreed:

- It was noted that as per RDMG, OIFSG has to provide Tsunami related early warnings.
- It was noted that there were number of thermal and nuclear stations on the coast.
- KKNPP informed that any Tsunami alert was being received by them through concerned agencies.
- OIFSG was suggested to provide Tsunami related early warnings to RDMG web group and mobile group as and when it is formed.

2.5 NTPC / NTECL / NLCIL / NTPL / NPCIL / TSGENCO

NTPC / NLCIL informed that they had extended help in the past natural disaster incidents like cyclone in Southern Region.

All the GENCOs informed that they had exhaustive on-site and off-site crisis / disaster management plans in place.

NTPC informed that based on the recent cyclone experience, the disaster management plan for Simhadri was updated. If required, NTPC wagons could also be spared during disaster.

NTPC informed that they were also developing local help groups.

NLCIL elaborated on the on-site and off-site plans in place for the stations / mines. Warning systems were also in place and necessary support systems (to be used during disaster management) were being periodically tested. The respective groups were meeting regularly to discuss and review the recovery plans and resolve issues if any.

All GENCOs had well established black start procedures and mock drills were being carried out in coordination with SRLDC/SLDCs. It was further informed that the DG was being tested each day.

KKNPP / NPCIL informed that the KKNPP plant is complying to flood / fire standards. They were having adequate backup redundant DG supply during external power failure.

The following was agreed:

- Disaster Management plan would be updated by the GENCOs keeping in view the CDMP for power sector released by CEA / MoP and other guidelines etc and share it to RDMG. Cyber security aspects also needed to be included as per the CDMP.
- All the GENCOs would furnish the list of personnel, materials/spares, equipments etc at each of the generating station which could be made available for affected entities during disaster to RDMG.
- All the GENCOs would make efforts to make a help group with generating stations in near vicinity.

2.6 **APTRANSCO / KSEBL / TSTRANSCO / PUDUCHERRY ED**

APTRANSCO informed that mutual help during disasters was very much required. In recent cyclones, AP was able to restore the power system within 7-15 days with resource mobilisation within and outside the state. The need for adequate number of ERS by each of the states / PGCIL/Transmission Licensees was highlighted and these ERS needed to be made available during disasters.

KSEBL informed that they had extended help to SR states as well as to Odisha during natural disasters and they have also received help from others during the floods. The flood levels have been marked for power sector assets in the state after the past two years flooding. Further, they have worked with CWC on rule level and emergency action plan for reservoir operation for power generation. KSEBL stressed on the

communication needs during disaster and suggested that the communication service providers could be the member of RDMG.

TSTRANSCO supported the need for mutual assistance during natural disasters. TSTRANSCO had extended support to power sector utilities during natural disasters. The need for central pool of reserves for power sector was highlighted. Recently a review meeting on CDMP for power sector was held on 17.10.2019 (**Annexure-V**) to discuss the readiness of GENCOs / TRANSCO and DISCOMs.

Puducherry ED stated that the states Tamil Nadu, Andhra Pradesh & Kerala could extend support to Karaikal, Yanam and Mahe as being done and could be covered in the respective disaster plans of the states. The need for mobile SS in each of the states was also highlighted.

The following was agreed:

- Disaster Management plan would be prepared / updated by the TRANSCOs / DISCOMs / SLDCs keeping in view the CDMP for power sector released by CEA / MoP and other guidelines etc. The same would be submitted to RDMG.
- Assistance required from other states (TRANSCOs/ DISCOMs/ GENCOs), other states DSMA and other states Civil Defence would also be posted in the RDMG.
- Adequate number of ERS needed to be maintained as per the guidelines of CEA and as outlined in MoP directive.
- ERS Sub stations could also be considered appropriately by DISCOMs / TRANSCOs. The need of drones was also highlighted.
- The issue of communication and their representation in various levels of Disaster Management groups would be taken up with CDMG.
- Lessons learnt on cyclones/flooding etc needed to be shared with RDMG.
- The details of OEMs, Electrical Contractors & Electrical Supervisors etc could be shared to the RDMG.
- The following is to be submitted as per the MOM of the meeting held at MoP on 20.08.2019 (**Annexure-VI**).
 - ✓ Details of Nodal Officers of DISCOMs / TRANSCOs,
 - ✓ Requirement of spares (poles, conductors, cables, insulators, distribution transformers, DG sets etc), tools, machinery which could be stored at strategic locations by central agency. The commercial terms / procedure for utilising the spares could also be suggested.

- ✓ Need for communication equipments which may be maintained as centralised spares could also be specified.
- ✓ State utilities also needed to look into the aspect of insurance from natural / manmade disasters for making the restoration of electrical infrastructure viable.

The information needed to be submitted to MoP at the earliest.

2.7 **Andhra Pradesh SDR&FS / Karnataka F&ES / Kerala F&R Dept**

All the entities stated that they were willing to help the power sector of the affected states. However, for extending help to power sector of other states, it was pointed out that the resource were under the Principal / Chief Secretary (Disaster Management) of the state and understanding / MoU, if required, could be at the highest level for resource mobilisation.

All the entities highlighted the need that the power sector utilities (generation/transmission/DISCOMs) needed to follow the codes, guidelines etc in respect of fire and disaster management which are extremely necessary during restoration. They have also extended help whenever sought by the power sector utilities for complying to such codes, guidelines etc and are willing to help in future also.

APSDR&FS stated that they were receiving flooding information from their SDMA.

The following was agreed:

- The issue of extending help by state DMA & Civil defence to power sector of affected states through understanding / MoU would be taken up with CDMG.

2.8 **POWERGRID**

PGCIL, SR-II informed that they were extending help to the affected states in the disasters. During recent flood in Kerala, a maintenance hub was put up to rectify and test distribution transformers by SR-II. More than 100 distribution transformers were rectified.

O&M staff was being strategically deployed. Spares, tools etc were being also stored at different substations for quick mobilization.

The details of the spares / equipments could be submitted to MoP for PGCIL to take further action.

The following was agreed:

- Disaster Management plan would be prepared / updated by the CTU keeping in view the CDMP for power sector released by CEA / MoP and other guidelines etc. The same would be submitted to RDMG.

2.9 SRLDC

SRLDC informed that Black Start Procedure was being updated annually and point to point mock drill was being carried out. Other actionable points would be complied as stipulated in the CDMP.

2.10 SRPC

SRPC informed that all the information would be posted in the dedicated web group. A separate page of RDMG has been created in SRPC website (<http://www.srpc.kar.nic.in>) wherein all the information related to RDMG would be posted. Mobile group will be activated as and when the crisis arises or envisaged.

3. Conclusion

Member Secretary, SRPC thanked the participants for the active and informative deliberations and hoped that RDMG would serve the intended purpose of mutual assistance etc.

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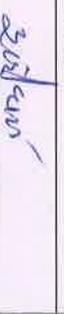
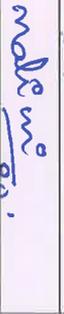
First Meeting of RDMG held on 23rd October 2019 at SRPC, Bengaluru

List of participants

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First Meeting of RDMG held on 23rd October 2019 at SRPC, Bengaluru

List of participants

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**Crisis and Disaster Management Plan for Power Sector
Regional Level Disaster Management Group (RDMG) – Southern Region**

1. Composition of Regional Level Disaster Management Group is as follows:

- a) Member Secretary (RPC) - **Chairman**
- b) Secretary in-charge of Rehabilitation and Relief of the effected State of the Region
- c) Representatives of each State Civil Defense
- d) Regional HODs CPSUs (NTPC, NHPC, PGCIL etc.)
- e) CMDs State TRANSCOs/Power Departments
- f) Chief Engineer, Central Water Commission (CWC), for flood related early warnings
- g) Deputy Director General, Indian Metrological Department (IMD), for Earthquake and Cyclone related warnings
- h) Group Head, Ocean Information and Forecast Services Group (ISG), for tsunami related early warnings
- i) Head of RLDC

Responsibilities:

- a) To provide inter-state emergency & start up power supply
- b) To coordinate early restoration of regional grid.
- c) To participate in damage assessment.
- d) To facilitate resource movement to affected state (s) from other regional states

2. Salient Roles and Responsibilities of Power Utilities as per Crisis and Disaster Management Plan for Power Sector

2.1 State TRANSCOs/DISCOMs/SLDCs

- At the State level, utilities associated with construction and operation of generation, transmission, distribution and load dispatch centres are required to prepare their basic disaster management plan. Disaster Management (DM) Plan is intended to provide guidance to all agencies within the sector with a general concept of potential emergency and roles and assignments before, during, and following emergency situations.
- Creation of State Disaster Management Group (SDMG).
- State Load Dispatch Centre (SLDCs) would be State level control room.
- Hazard Risk & vulnerability Analysis involves vulnerability mapping, zoning for wind, cyclones, earthquakes, Tsunami, floods etc and building power structures in accordance with the Zone in which it falls and safety factor as per relevant Indian Standard.
- Building resilience at planning, design and operation stage.

- Directions for programmes in Building Resilience in Electricity infrastructure, Mock Drill Exercises, Public Awareness Programmes, Risk assessment and Vulnerability study in each area of responsibility etc.
- Measures for quick restoration of power supply, restoration of transmission line, Emergency Restoration Systems (ERS), restoration of Sub-Stations, restoration of load dispatch centres (LDCs) and Building back disaster resilient infrastructure.
- To identify major resources, man power material & equipment needed to make the plan operational.
- Financial Arrangements: The disaster management fund would be 1% of the annual revenue of the station/ Utility. These funds would be non-lapsable and would be accumulated. The management funds would be at the full discretion of emergency management group once emergency has been declared.
- Assistance/Relief related works: Ministry of Power provides the relief for repair of damaged power sector infrastructure of immediate nature. The assistance will be given to damaged conductors, pole and transformers up to the level of 11kV as per the norms of assistance issued by SDRF and NDRF from time to time.
- Post event investigation & analysis and strategy for the future: Preparation of updated Disaster preparedness plans based on what did not work, and identify gaps in the current system and specific ways of improving disaster preparedness.
- The General Do's and Don'ts during emergency/crisis in respect of Power sector should be put in public domain. Also organizing public awareness programs when prior information is available about a situation that may lead to disaster in near future.
- Periodic Mock drill exercises to be undertaken considering various crisis situations and quarterly report to be sent to CEA for submission to MoP.
- Utilities need to interact with CERT to imbibe all the new tools for mitigating risks from cyber security attacks.
- Appointment of Cyber security Officer in utilities IT cell for cyber security. Transmission licensees are more prone to cyber attacks.
- Mutual assistance Agreements to be signed for sharing men/material sources.
- State level support groups shall identify category-wise all the generating sub-station grid centres and load dispatch centres based on their strategic importance. The highest vulnerable centres shall be provided the highest type of security..
- Locations where black start facilities are available should be listed.
- Safety audit on annual basis.
- Utilities to constantly review equipment/system design standards. The equipment which frequently creates problems need to be replaced.
- Capacity Building to be taken up

2.2 Generators under State Control Areas & IPPs located within a state

- Utilities have to develop a crisis management plan.
- Constitution of Plant level Emergency Management Group (EMG)
- Utilities to form certain committees to carry out certain activities during crisis period.
- Hazard Risk & vulnerability Analysis involves vulnerability mapping, zoning for wind, cyclones, earthquakes, Tsunami, floods etc and building power structures in accordance with the Zone in which it falls and safety factor as per relevant Indian Standard.
- To identify major resources, man power material & equipment needed to make the plan operational.
- Building resilience at planning, design and operation stage.

- Directions for programmes in Building Resilience in Electricity infrastructure, Mock Drill Exercises, Public Awareness Programmes, Risk assessment and Vulnerability study in each area of responsibility etc.
- Measures for quick restoration of power supply, restoration of transmission line and Building back disaster resilient infrastructure.
- Safety audit on annual basis.
- Utilities to constantly review equipment/system design standards. The equipment which frequently creates problems need to be replaced.
- Financial Arrangements: The disaster management fund would be 1% of the annual revenue of the station/ Utility. These funds would be non-lapsable and would be accumulated. The management funds would be at the full discretion of emergency management group once emergency has been declared.
- Post event investigation & analysis and strategy for the future: Preparation of updated Disaster preparedness plans based on what did not work, and identify gaps in the current system and specific ways of improving disaster preparedness.
- The General Do's and Don'ts during emergency/crisis in respect of Power sector should be put in public domain. Also organizing public awareness programs when prior information is available about a situation that may lead to disaster in near future.
- Periodic Mock drill exercises to be undertaken considering various crisis situations and quarterly report to be sent to CEA for submission to MoP.
- Utilities need to interact with CERT to imbibe all the new tools for mitigating risks from cyber security attacks.
- Appointment of Cyber security Officer in utilities IT cell for cyber security. Transmission licensees are more prone to cyber attacks.
- Safety audit on annual basis.
- Utilities to constantly review equipment/system design standards. The equipment which frequently creates problems need to be replaced.
- Capacity Building to be taken up
- Mutual assistance Agreements to be signed for sharing men/material sources.

2.3 Central Sector Generators

- Utilities have to develop a crisis management plan.
- Constitution of Plant level Emergency Management Group (EMG)
- Utilities to form certain committees to carry out certain activities during crisis period.
- To identify major resources, man power material & equipment needed to make the plan operational.
- Hazard Risk & vulnerability Analysis involves vulnerability mapping, zoning for wind, cyclones, earthquakes, Tsunami, floods etc and building power structures in accordance with the Zone in which it falls and safety factor as per relevant Indian Standard.
- Building resilience at planning, design and operation stage.
- Directions for programmes in Building Resilience in Electricity infrastructure, Mock Drill Exercises, Public Awareness Programmes, Risk assessment and Vulnerability study in each area of responsibility etc.
- Measures for quick restoration of power supply and Building back disaster resilient infrastructure.
- Financial Arrangements: The disaster management fund would be 1% of the annual revenue of the station/ Utility. These funds would be non-lapsable and would be accumulated. The management funds would be at the full discretion of emergency management group once emergency has been declared

- Post event investigation & analysis and strategy for the future: Preparation of updated Disaster preparedness plans based on what did not work, and identify gaps in the current system and specific ways of improving disaster preparedness.
- The General Do's and Don'ts during emergency/crisis in respect of Power sector should be put in public domain. Also organizing public awareness programs when prior information is available about a situation that may lead to disaster in near future.
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- Utilities need to interact with CERT to imbibe all the new tools for mitigating risks from cyber security attacks.
- Appointment of Cyber security Officer in utilities IT cell for cyber security. Transmission licensees are more prone to cyber attacks.
- Safety audit on annual basis.
- Utilities to constantly review equipment/system design standards. The equipment which frequently creates problems need to be replaced.
- Mutual assistance Agreements to be signed for sharing men/material sources.

2.4 ISTS Transmission Licensees

- Utilities have to develop a crisis management plan.
- Hazard Risk & vulnerability Analysis involves vulnerability mapping, zoning for wind, cyclones, earthquakes, Tsunami, floods etc and building power structures in accordance with the Zone in which it falls and safety factor as per relevant Indian Standard.
- Building resilience at planning, design and operation stage.
- Directions for programmes in Building Resilience in Electricity infrastructure, Mock Drill Exercises, Public Awareness Programmes, Risk assessment and Vulnerability study in each area of responsibility etc.
- To identify major resources, man power material & equipment needed to make the plan operational.
- Measures for quick restoration of power supply, restoration of transmission line, Emergency Restoration Systems (ERS), restoration of Sub-Stations, restoration of load dispatch centres (LDCs) and Building back disaster resilient infrastructure.
- Financial Arrangements: The disaster management fund would be 1% of the annual revenue of the station/ Utility. These funds would be non-lapsable and would be accumulated. The management funds would be at the full discretion of emergency management group once emergency has been declared.
- Post event investigation & analysis and strategy for the future: Preparation of updated Disaster preparedness plans based on what did not work, and identify gaps in the current system and specific ways of improving disaster preparedness.
- The General Do's and Don'ts during emergency/crisis in respect of Power sector should be put in public domain. Also organizing public awareness programs when prior information is available about a situation that may lead to disaster in near future.
- Periodic Mock drill exercises to be undertaken considering various crisis situations and quarterly report to be sent to CEA for submission to MoP.
- Utilities need to interact with CERT to imbibe all the new tools for mitigating risks from cyber security attacks.
- Appointment of Cyber security Officer in utilities IT cell for cyber security. Transmission licensees are more prone to cyber attacks.

- Utilities to constantly review equipment/system design standards. The equipment which frequently creates problems need to be replaced.
- Capacity Building to be taken up
- Mutual assistance Agreements to be signed for sharing men/material sources.
- Safety audit on annual basis.

2.5 SRLDC

- Utilities have to develop a crisis management plan.
- Regional/ Load Dispatch Centre (RLDCs) would be Regional control room.
- Building resilience at planning, design and operation stage.
- Directions for programmes in Building Resilience in Electricity infrastructure, Mock Drill Exercises, Public Awareness Programmes, Risk assessment and Vulnerability study in each area of responsibility etc.
- Identifying all State level Generating Stations/grid sub-stations/LDCs according to their critical importance w.r.t safe operation of grid. Security arrangements shall increase from lowest to highest critical station.
- Measures for quick restoration of power supply, restoration of transmission line, Emergency Restoration Systems (ERS), restoration of Sub-Stations, restoration of load dispatch centres (LDCs) and Building back disaster resilient infrastructure.
- Locations where black start facilities are available should be listed.
- Post event investigation & analysis and strategy for the future: Preparation of updated Disaster preparedness plans based on what did not work, and identify gaps in the current system and specific ways of improving disaster preparedness.
- The General Do's and Don'ts during emergency/crisis in respect of Power sector should be put in public domain. Also organizing public awareness programs when prior information is available about a situation that may lead to disaster in near future.
- Periodic Mock drill exercises to be undertaken considering various crisis situations and quarterly report to be sent to CEA for submission to MoP.
- Utilities need to interact with CERT to imbibe all the new tools for mitigating risks from cyber security attacks.
- Appointment of Cyber security Officer in utilities IT cell for cyber security. Transmission licensees are more prone to cyber attacks.
- Capacity Building to be taken up

2.6 NLDC

- Ministry of Power has designated NLDC as Central Control Room to deal with emergency situations in power sector. CEO NLDC is designated as nodal officer to coordinate with RLDCs to handle emergency situations.
- The interface of Central control room with nodal officers of Central Public Sector Undertakings (CPSUs) as well as State level control rooms is also required.
- Measures for quick restoration of power supply, restoration of transmission line, Emergency Restoration Systems (ERS), restoration of Sub-Stations, restoration of load dispatch centres (LDCs) and Building back disaster resilient infrastructure.

- Post event investigation & analysis and strategy for the future: Preparation of updated Disaster preparedness plans based on what did not work, and identify gaps in the current system and specific ways of improving disaster preparedness.
- The General Do's and Don'ts during emergency/crisis in respect of Power sector should be put in public domain. Also organizing public public awareness programs when prior information is available about a situation that may lead to disaster in near future.
- Periodic Mock drill exercises to be undertaken considering various crisis situations and quarterly report to be sent to CEA for submission to MoP.
- Utilities need to interact with CERT to imbibe all the new tools for mitigating risks from cyber security attacks.
- Appointment of Cyber security Officer in utilities IT cell for cyber security. Transmission licensees are more prone to cyber attacks.
- Capacity Building to be taken up

2.7 Central Electricity Authority

- Plan Management (Development, Approval, implementation, Review and Revision): Chief Engineer (PS&LF Division), CEA will be responsible for developing, maintaining, revising, reviewing and updating the basic Crisis and Disaster Management Plan, annexes, appendices, and supplementary documents, such as checklist, SOPs, etc. for Power sector at the National level. These documents shall be reviewed every year in January to update the names and contact details of officers concerned. The document shall be reviewed in the third year for updating of contents.
- CEA (Nodal agency for Disaster Management in Power Sector) to conduct trainings, workshops, seminars and conferences for concerned officers of different organizations in Disaster Management.
- The General Do's and Don'ts during emergency/crisis in respect of Power sector should be put in public domain. Also organizing public public awareness programs when prior information is available about a situation that may lead to disaster in near future.
- Quarterly report on Mock drill to be sent to CEA for submission to MoP.

2.8 SRPC

- RDMG related works
- Identifying all State level Generating Stations/grid sub-stations/LDCs according to their critical importance w.r.t safe operation of grid. Security arrangements shall increase from lowest to highest critical station.
- Updating of Islanding schemes of each State on continuous basis.

Regional Level Disaster Management Group (RDMG) SR- List of Members/ Nominees

| S. No. | State/ Organization | Utility | Member as per constitution S/Shri | Nominee S/Shri | Designation | Contact No. | E-Mail | | | | | | | | | | |
|--------|---------------------|---------------------------|-----------------------------------|----------------|------------------|--|----------------------------|---|-----------|----------------------------|---|-------------------------------------|---|----------------|--------------------------------------|---|----------------------|
| 1. | SR | SRPC | A Balan | | MS | Mob:9845451121 Phone:080-22287205 Fax:080-22259343 | msrpc-ka@nic.in | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 2. | Andhra Pradesh | APTRANSCO, Vijayawada | Dr. Srikanth Nagulapalli | K Kanna Babu | Spl Commissioner | Mob: Phone/ Fax:08645246600 | commr_relief_rev@ap.gov.in | | | | | | | | | | |
| | | | | | | | | AP State Disaster Management Authority, Tadepalli, Guntur | E Swamy | RFO | Mob:9492923004 | rfosr2019@yahoo.com | | | | | |
| | | | | | | | | | | | | | AP State Disaster Response & Fire Services Vijayawada | | | | |
| 3 | Karnataka | KPTCL, Bengaluru | Dr. N Manjula | | MD | Mob: 9448544274 Phone:080-22214342 Fax: 080-22213526 | md@kptcl.com | | | | | | | | | | |
| | | | | | | | | Karnataka Fire & Emergency Services, Bengaluru | M N Reddi | DGP & DG | Phone:080-25570733 080-22971501 Fax: 080-22971501 | | | | | | |
| | | | | | | | | | | | | | C Gurulingaiah | CFO | Mob:9448189212 Phone:080-22971513 | cfo@kfses@ka.gov.in gurur6fire@gmail.com | |
| 4 | Kerala | KSEBL, Thiruvananthapuram | N S Pillai | | CMD | Mob:9446008002 Phone:0471-2442125 | cmdksebl@ksebl.in | | | | | | | | | | |
| | | | | | | | | Disaster Management Department, Thiruvananthapuram | Dr. Venu | Principial Secretary, R&DM | Mob: 9496019100 Phone:0484-2555965 Fax:0484-2543850 | cesolksv@gmail.com ceso@ksebl.in | | | | | |
| | | | | | | | | | | | | | Kerala Fire & Rescue Services, Thiruvananthapuram | A Hemachandran | DG | Phone:0471-2320868 Fax:0471-2337422 | dg_fts@kerala.gov.in |
| | | | | | | | | | | | | | | | | | |

| | | | | | | | |
|---|------------|---|-----------------|----------------|-------------------------------------|---|-------------------------|
| | | Services, Thiruvananthapuram | | Sidha Kumar V | RFO | Fax:0471-2337422 Mob:9074573936 Phone:0471-2320872 | hq-fts@kerala.gov.in |
| 5 | Tamil Nadu | TANTRANSCO, Chennai | Vikram Kapur | T. Senthivelan | CMD | Mob: 9444654545 Phone:044-28521378 | dirtp@tnebnnet.org |
| | | | | Ms. M A Helen | Director(Distribution), TANGEDCO | Mob: 9445853333 Phone:044-28510070 | ddtangedco@tnebnnet.org |
| 6 | Telangana | TSTRANSCO, Hyderabad | D Prabhakar Rao | B Narsinga Rao | CMD | Phone:040-23317657 Fax: 040-23320565 | cmd@tstransco.in |
| | | | | T Jagath Reddy | Director(Tr.) | Mob:9490499486 Phone:04023317689 Fax:04023317686 | dir.trans@tstransco.in |
| | | | | P Suresh Babu | SE (SLDC) | Mob:9440679432 Phone:04023396000 Fax:04066665136 | se.slde@tstransco.in |
| | | TS Disaster Response & Fire Service Department, Hyderabad | V Papaiah | | RFO (CR) | Mob:8008559142 Phone:040-23442955 040-23442944 | rfo_cr@yahoo.com |
| 7 | Puducherry | Electricity Department | Devesh Singh | R Murali | Secretary (Power) | Mob:9489080301 Phone:0413-2334277 Fax:0413-2331556 | secypower.pon@nic.in |
| | | | | | SE Cum HoD | Mob:9650992770 | se1ped.pon@nic.in |
| 8 | NTPC | SRHQ, Secunderabad | D K Dubey | Premadas T | RED (S) GM (OS.) | Mob: 8332959350 Phone:040-27683030 Fax:040-27546338 | tpremadas@ntpc.co.in |

| | | | | | | | |
|----|-------|---|--|------------------------|-------------------------|---|---------------------------|
| 9 | NLCIL | Neyveli | | | CMD | | |
| | | TPS-I Expansion Campus | | A Ravindran | ED (Thermal) | Mob:9443044662 Phone:04142-265303 Fax:04142-265303 | ed.thermal.co@nlcindia.in |
| 10 | NPCIL | Mumbai | | | | | |
| | | MAPS,KGS,KKNPP | | R Suresh Kumar | STE (E&I) | Mob:9442202187 7397581257 (whatsapp) | rsuresh@npcil.co.in |
| 11 | NTPL | NTPL, Tuticorin | | K S Gopalakrishnan | CEO | Mob:94943212800 Phone:04612352844 Fax:04612352844 | ceo.ntpl@nlcindia.in |
| 12 | NTECL | NTECL, Vallur | | BasurajGoswami | CEO | Mob:9650992094 Phone:044-65351053 Fax:044-27968759 | |
| 13 | PGCIL | SRTS-I, Secunderabad | | | | | |
| | | SRTS-II, Bengaluru | | S Ravi | ED | Mob:9440908902 Phone:080-23093701 Fax:080-23093702 | sravi@powergridindia.com |
| 14 | CWC | Monitoring South Organization, Bengaluru | | Shusil Kumar | CE | Mob:9422646384 | cemons-cwc@nic.in |
| | | | | Jitendra Pawar | SE (HO&CC) | Mob:9868280104 Phone:080-29724081 Fax:080-29724047 | secobangalore-cwc@nic.in |
| 15 | IMD | Chennai | | | Deputy DG | | |
| | | MC, Bengaluru | | Dr. Geeta Agnihotri | Scientist"E" Head MC | Mob: 9886702921 Phone:080-22211118 080-22235675 | geeta124@hotmail.com |
| 16 | RLDC | SRLDC, Bengaluru | | A Garita | ED | Mob: 9869088058 Phone:080-22250047 Fax:080- 222592192 2252612 | agarita@posoco.in |
| | | | | | S P Kumar | Sr GM | Mob:8310468661 |

1st Meeting of Regional Level Disaster Management Group (RDMSG) for Power Sector – Southern Region

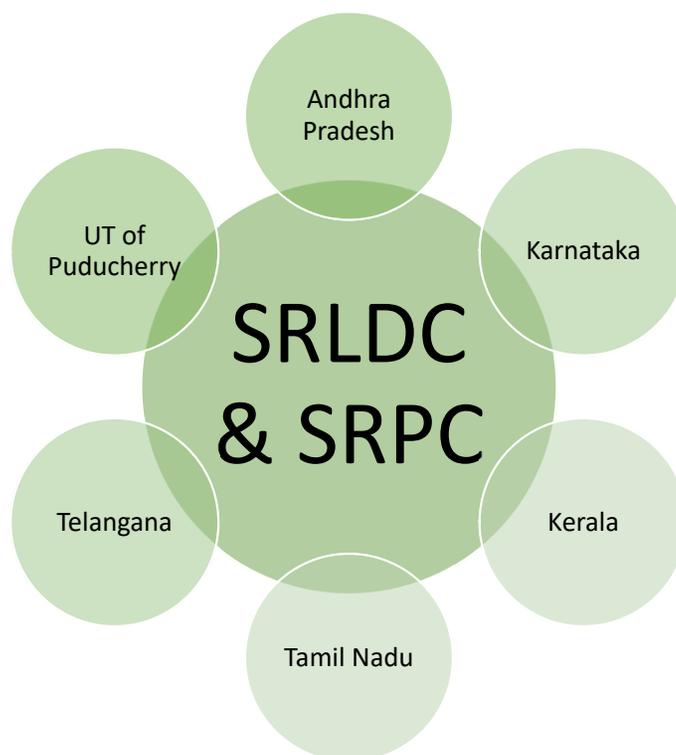
Southern Regional Power Committee (SRPC)
23.10.2019

Southern Regional Power Committee

Constituted under the provision of Section 2, Subsection 55 of the Electricity Act 2003

Southern Regional Load Despatch Center (SRLDC)

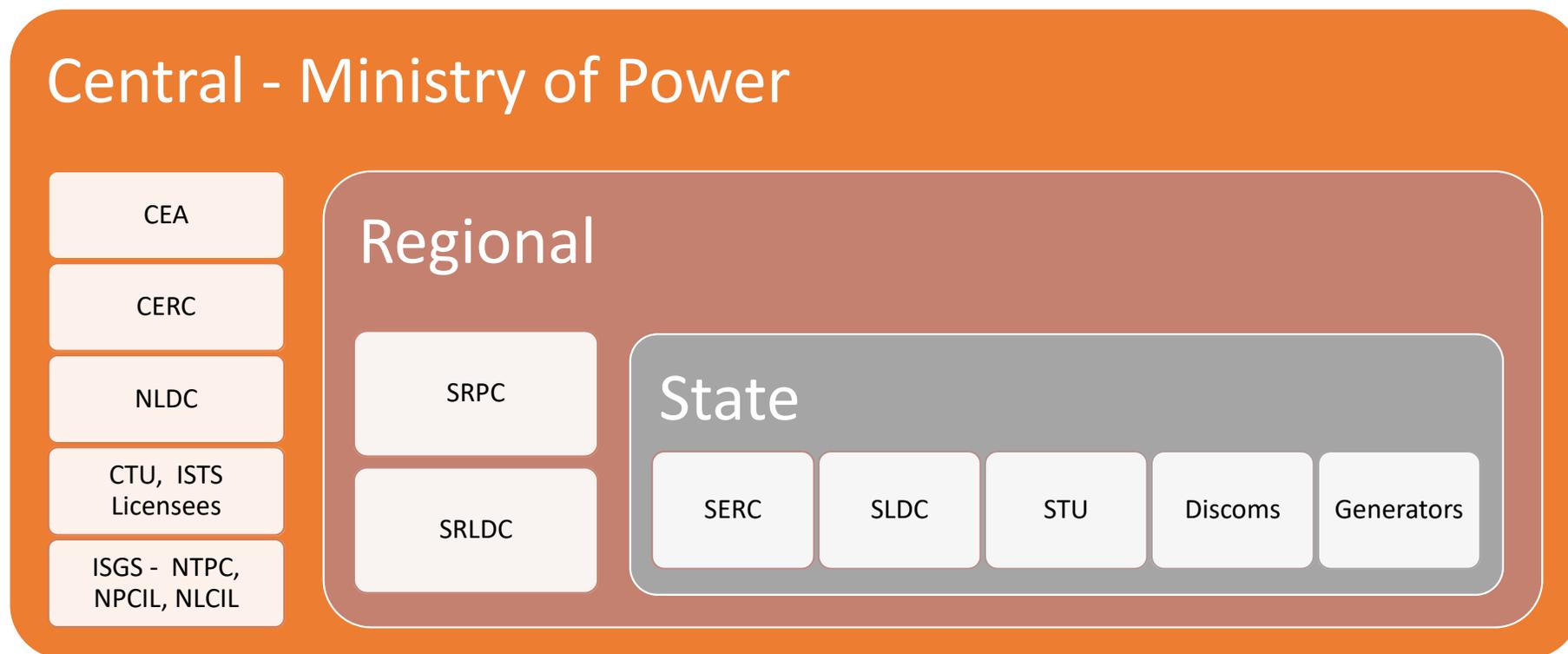
Established under Section 28 of Electricity Act, 2003)



RLDC is the apex body to ensure integrated and power system in each region. The RLDC is responsible inter-alia for dispatch of electricity within the regions, monitoring grid operations etc. The directions given by the RLDC for ensuring grid stability etc. are required to be complied with by the licensees, generating company, generating stations, sub-stations and any other person connected with the operation of the power system.

Southern Regional Power Committee

Constituted under the provision of Section 2, Subsection 55 of the Electricity Act 2003



CRISIS AND DISASTER MANAGEMENT PLAN FOR POWER SECTOR

- [Prepared by Central Electricity Authority in fulfilment of provisions of DM Act 2005](#)
- [CEA letter 09.07.2019](#)

Institutional arrangements for Disaster Management in Power Sector

Central level Disaster Management Group (CDMG)

Regional Level Disaster Management Group
(RDMG)

Plant level Emergency
Management Group
(EMG) ISGS

State level Disaster
Management Group
(SDMG)

Plant level Emergency
Management Group
(EMG) ISGS

Central Level Disaster Management Group (CDMG)

| Sl No | Member |
|-------|---|
| 1 | Secretary (Ministry of Power, Government of India) - Chairman |
| 2 | Chairperson, CEA |
| 3 | CEO, Power System Operation Corporation (POSOCO) |
| 4 | Chairman of RPCs |
| 5 | CMDs of NTPC, NHPC & Power Grid Corporation of India Limited |
| 6 | Chief Engineer(PS&LF), CEA - Convener |

Responsibilities of CDMG

To facilitate development of comprehensive disaster management plan & policy formulation for power sector

To interact with the National Disaster Management Group

To facilitate support from other national & state level agencies.

To coordinate for any assistance in terms of men and materials at national level.

To act as information source desk for all related developments in the event of a disaster.

Composition of Regional Level Disaster Management Group

[Status](#)

| Sl no | Member |
|-------|--|
| 1 | Member Secretary (RPC) – Chairman |
| 2 | Secretary in-charge of Rehabilitation and Relief of the effected State of the Region |
| 3 | Representatives of each State Civil Defense |
| 4 | Regional HODs CPSUs (NTPC, NHPC, PGCIL etc.) |
| 5 | CMDs State TRANSCOs/Power Departments |
| 6 | Chief Engineer, Central Water Commission (CWC), for flood related early warnings |
| 7 | Deputy Director General, Indian Metrological Department (IMD), for Earthquake and Cyclone related warnings |
| 8 | Group Head, Ocean Information and Forecast Services Group (ISG), for tsunami related early warnings |
| 9 | Head of RLDC |

Responsibilities of RDMG

To **provide** inter-state emergency & start up power supply

To **coordinate** early restoration of regional grid.

To **participate** in damage assessment.

To **facilitate** resource movement to **affected state (s)** from other regional

State level Disaster Management Group (SDMG)

| Sl No | Member |
|-------|--|
| 1 | Principal Secretary / Secretary (Energy) of the State - Chairman |
| 2 | MDs of Generation, Transmission, Distribution companies |
| 3 | Representatives of health and welfare agencies |
| 4 | Chief fire safety officer |
| 5 | Inspector General of Police |
| 6 | GM (SLDC) - Convener |

Responsibilities of SDMG

To mobilize resources for restoration

To ensure that disaster management plans are in place

To mobilize financial resources

To facilitate inter-agency support

To coordinate information

To facilitate damage assessment

Plant level Emergency Management Group (EMG)

| Sl No | Member |
|-------|---|
| 1 | In-charge of the installation |
| 2 | Plant safety manager |
| 3 | Chief Plant Operation Administration |
| 4 | Representative of District Administration |

Responsibilities of Plant Level EMG

To direct action in the affected area taking into consideration the priorities for safety of plant personnel, minimize damage to plant, property and the environment

To direct fire and security personnel for immediate action.

To ensure that all non-essential workers/staff in the affected area are evacuated to safer places

Set up communication points

Report all development and requirements/ assistance needed

Preserve all evidences so as to facilitate any inquiry into the cause and circumstances which caused or escalated the emergency

Salient Roles and Responsibilities of Power Utilities as per Crisis and Disaster Management Plan for Power Sector

State TRANSCOs/DISCOMs/SLDCs

Generators under State Control Areas & IPPs located within a state

Central Sector Generators

ISTS Transmission Licensees

SRLDC

NLDC

Central Electricity Authority

SRPC



TRANSMISSION CORPORATION OF TELANGANA LIMITED
 VIDYUT SOUDHA :: HYDERABAD – 500 082. Off: PABX: 040-23396000
 Website:tstransco.in CIN No:U40102TG2014SGC094248

O/o. Director/Transmission,
 TSTRANSCO/VS/Hyderabad

Memo.No.Dir(Tran.)/DE-T/Peshi/F.No.09/ D.No: 150 /19, Dated: 21/10/2019.

Sub: Crisis and Disaster Management Plan for Power Sector – Zonal level Disaster Management Group – Instructions - Reg.

* * * * *

During the review Meeting on **Crisis and Disaster Management Plan for Power Sector** held on 17.10.2019 in the TSGenco main meeting hall, VidyutSoudha, Hyderabad, it was resolved to form a **Zonal level Disaster Management Group** as per CEA procedure in regard to establishing Plant Level Emergency Management Group (EMG) with following members.

- a) Zonal In- charge (CE)
- b) Safety Manager for each circle (SE)
- c) Divisional Operation Administration (DE)
- d) Representative of District Administration.

Responsibilities of the Group:

- i. To direct action in the affected area taking into consideration the priorities for safety of plant personnel, minimize damage to plant, property and the environment
- ii. To direct fire and security personnel for immediate action.
- iii. To ensure that all non-essential workers/staff in the affected area are evacuated to safer places
- iv. Set up communication points
- v. Report all development and requirements/assistance needed
- vi. Preserve all evidences so as to facilitate any inquiry into the cause and circumstances which caused or escalated the emergency
- vii. To coordinate with District Administration for necessary finance, medical facilities law & order etc.

Contd..2

:: 2 ::

In addition to the above, the Zonal level Disaster Management Group shall monitor to carry out the following works.

- i. Trail run of Diesel sets during Morning shift and record the same in Log sheet / Log book by Shift Engineer.
- ii. Checking of condition of Battery set by switching off AC Supply. (Weekly basis)
- iii. Checking of DC Emergency lamp (Weekly basis).
- iv. Healthiness of Fire fighting system, availability of sand in the buckets near PTRs / ICTs.
- v. Fire mock exercises on quarterly basis.
- vi. Cyber Security Audit (SAS substations) on yearly basis with certified agency.
- vii. Protection Audit & Safety Audit.
- viii. Mock drills with the help of District Administration.

The above may be included in the MIS report being submitted to the Head Quarters.

Accordingly, all the Zonal Chief Engineers are hereby requested to form the **Disaster Management Group** in coordination with the *District Administration* and report compliance.

Matter shall be treated on top-priority


Director/Transmission

To

The Chief Engineer/ _____

Copy to:

- ✓ The Chief Engineer/SLDC/ TSTRANSCO/VS/Hyderabad
- The Chief Engineer/Transmission/ TSTRANSCO/VS/Hyderabad
- The Chief Engineer/Construction/TSTRANSCO/VS/Hyderabad
- The Chief Engineer/400kV/TSTRANSCO/VS/Hyderabad

Copy to:

- SE/Tech to The Chairman & Managing Director/TSTRANSCO/VS/Hyderabad.
- ADE/Tech to The Director/LIS/TSTRANSCO/VS/Hyderabad
- DE/Tech to The Director/Projects/TSTRANSCO/VS/Hyderabad
- AE/Tech to The Director/Grid Operation/TSTRANSCO/VS/Hyderabad
- PS to The Joint Managing Director/Fin, Comml & HRD/TSTRANSCO/VS/Hyderabad
- The Member Secretary/SRPC/Bengaluru
- The Executive Director/SRLDC/POSOCO/Bengaluru

Energy saved is energy produced // Electricity saved is electricity produced



सं. 20/4/2019-ओएम

भारतसरकार

Government of India

विद्युत् मंत्रालय

Ministry of Power

श्रमशक्तिभवन, रफीमार्ग, नयीदिल्ली-110 001

Shram Shakti Bhawan, Rafi Marg, New Delhi-110 001

Dated 23rd September, 2019

OFFICE MEMORANDUM

Subject:- Minutes of the meeting taken by Chief Engineer (OM & RR), Ministry of Power on 20th August, 2019 regarding Manual of electrical infrastructure for natural disaster related to SRPC.-reg.

Please find enclosed herewith a copy of the minutes of the meeting on the above subject held on 20.08.2019 under the Chairmanship of Chief Engineer (OM) for necessary action.

Encl: as above

(D. Guha)

Under Secretary to Govt. of India

Tele/Fax: 23719229

Email id:-opmonitor-power@nic.in

Distribution: As per list annexed

Copy to:

Sr. PPS to CE (OM)/PS to DS (OM)

Minutes of the meeting held on 20.08.2019 under the Chairmanship of Chief Engineer (OM), MoP regarding Manual of electrical infrastructure for natural disaster related to SRPC

Chief Engineer (OM&RR), MoP informed that some of the coastal states like Andhra Pradesh, Tamil Nadu, Odisha, Gujarat and Kerala are frequently facing the brunt of the natural disasters like cyclones, floods etc. Chairperson, SRPC had taken up the issue of creation of basic material pool for electrical infrastructure revival after natural disaster and creation of separate fund for restoration and for equipping themselves to be disaster resilient. He appreciated the efforts of Andhra Pradesh Power utilities / Administration for the preparedness and early restoration of the system during recent Fani Cyclone. However, there was considerable delay in restoration of electrical infrastructure in Odisha. He informed that the crisis management plan document was under approval and would be released shortly. During the recent disasters power and communication have turned out to be focus areas.

SE, SRPC informed that Southern Region especially Andhra Pradesh and Tamil Nadu are facing one or two severe cyclones each year. Kerala and Karnataka have also been affected by floods in last two years. Southern Regional Power Committee in its 35th meeting had suggested that manual for recovery of electrical infrastructure during natural disasters may be prepared. A meeting in this regard was held on 30.04.2019 and a draft manual was prepared in consultation with the TRANSCOs and DISCOMs. The same was approved in the 36th SRPC meeting held on 12.07.2019. Further, in compliance to Section 37 of Disaster Management Act 2005, MoP in association with CEA has prepared Crisis and Disaster Management Plan for the Power Sector and it is available on CEA's website. Southern Regional states has sought for funding for enabling them to be disaster prepared / resilient and for enhanced funding after recovery.

The following issues were deliberated:

Nodal officers from DISCOMs /TRANSCOs

It was agreed that Nodal Officers details (senior level) from DISCOMs/TRANSCOs would be communicated from the states of Andhra Pradesh, Tamil Nadu, Odisha, Gujarat and Kerala. The coordinator would directly interact through NLDC / MoP for the natural disasters (before/during/after the natural disaster).

Central Basic Pool material

Each DISCOM / TRANSCO of the state will work out the requirement of the spares (poles, conductors, cables, insulators, distribution transformers, DG sets etc), tools, machinery which could be stored at strategic locations by a central agency. The commercial terms/procedure of utilizing these spares could also be suggested. Procedure for ensuring healthiness of the spares also needed to be highlighted. The locations where these spares can be placed could be suggested along with proper justification.

PGCIL to work out the spares requirements (quantification and estimate) for the centralized spare procurement/placement once the inputs are communicated by the state DISCOMs / TRANSCOs.

Communication issues

CE(OM&RR), MoP stated that the way forward for effective communication during natural disaster needed to be discussed and firmed up.

Use of Satellite phones, micro wave etc or any other technology could be suggested. It was felt that coordination with the local communication service providers along-with adequate fuel / manpower would be essential for recovery.

Need for communication equipments which may be maintained as centralized spares could also be specified.

Electrical infrastructure recovery

It was noted that effective planning could considerably reduce the restoration time. OPTCL and CESU stated that the assessment of damage at the earliest was very much essential to plan the restoration. Use of drones was also suggested.

TANGEDCO informed that during Gaja cyclone, with effective planning they were able to restore the essential services like general hospitals, collectorate etc within a day, priority supply in corporation area within 3 days and major system was restored within a fortnight. The experience in this regard would be shared.

TANGEDCO stated that though cable was expensive however replacing the damaged overhead lines with cables in cyclone prone coastal areas could be a better techno economic option. TANGEDCO sought for central assistance in this regard.

REC stated that the connectivity diagram/alternate supply of the essential services and Administration needed to be prepared.

CE (OM&RR), MoP stated that these details could be covered in the recovery procedure to be prepared by the state utilities.

Insurance/Funding

CE (OM&RR), MoP stated that the funding aspects needed to be taken care by the state utilities. Only part assistance could be considered by the Central agencies. Some funds needed to be earmarked for electrical infrastructure during disaster by these states specifically. He stated that state power utilities could seek fund from SDRF.

OPTCL, CESU and TANGEDCO stated that there was virtually no fund available for power sector from SDRF.

On a query by CE, PGCIL and NTPC informed that their infrastructure was being ensured for natural disasters. CE (OM&RR), MoP stated that state utilities also needed to look into the aspect of insurance from natural/manmade disasters for making the restoration of electrical infrastructure economically viable. He suggested the states to revert back on the issue of insurance.

CE(OM&RR), MoP stated that the review meeting would be called within a month.

Distribution List

1. Chairperson, Central Electricity Authority, Sewa Bhawan, R.K.Puram, New Delhi-110066
2. CMD, NTPC, NTPC Bhawan, SCOPE Complex, Institutional Area, Lodhi Road, New Delhi - 110003.
3. CMD, PGCIL, Saudamini, Plot No.2, Sector-29, Gurgaon-122001.
4. CMD, REC, Core-4, Scope Complex, 7, Lodhi Road, CGO Complex, Pragati Vihar, New Delhi-110003
5. Member Secretary, South Regional Power Committee (SRPC), Central Electricity Authority, No.-29, Race Course Cross Road, Bangalore-560009
6. Principal Secretary (Energy), Energy Deptt, Block-5, 5th Floor, Govt. of Gujarat, Sachivalya, Gandhinagar-382010.
7. Principal Secretary, Department of Energy, Govt. of Odisha, Bhubaneswar-751001
8. Addl. Chief Secretary (Power), Govt. of Kerala, Secretariat, Thiruvananthapuram-695001.
9. Principal Secretary (Power), Govt. of Tamilnadu, Fort St. George, Sectt. Chennai-600009.
10. Secretary (Energy) Government of Andhra Pradesh, Energy Department Vidyutsoudha, Khairatabad, Hyderabad 500 001