

POWER SYSTEM OPERATION CORPORATION LIMITED
 NATIONAL LOAD DESPATCH CENTRE
 B-9, QUTUB INSTITUTIONAL AREA
 NEW DELHI - 110016

Flash Report of Initial impact of very severe cyclonic storm "Titli"

1. Time & Date of Event: Early morning of 11.10.2018
2. Affected Substation Name(s): 765/400 kV Srikakulam, HVDC Talcher- Kolar and 220 kV Station Tekkali(AP).
3. Antecedent Condition:
 1. All India Demand: 147409 MW
 2. Southern Region Demand: 35000MW
 3. Frequency: 49.90 Hz
4. Event Description: Due to very severe cyclonic storm "Titli" hitting the coastal area of Andhra Pradesh and Southern Odisha, several elements were tripped. Load in Odisha has reduced by approx. 800 MW in comparison to last day. The details of tripping of elements is given below.

Element name	Tripping Time and Date	Revival Time and Date
765/400 kV Srikakulam ICT-I	22:42 hrs, 10.10.2018	Still Under Outage
765 kV Vemagiri-Srikakulam-I	01:05 hrs, 11.10.2018	
765/400 kV Srikakulam ICT-II	01:23 hrs, 11.10.2018	
765 kV Angul-Srikakulam-II	02:33 hrs, 11.10.2018	
400 kV Mardam-Srikakulam-I	02:45 hrs, 11.10.2018	
765 kV Angul-Srikakulam-I	02:46 hrs, 11.10.2018	
765 kV Vemagiri-Srikakulam-II	02:47 hrs, 11.10.2018	
400 kV Mardam-Srikakulam-II	02:53 hrs, 11.10.2018	
HVDC Talcher-Kolar Pole-I	05:09 hrs, 11.10.2018	
HVDC Talcher-Kolar Pole-II	05:04 hrs, 11.10.2018	
220 kV Tekkali(AP) station	02:30 hrs, 11.10.2018	
Traction Supply at Navapadu and Barua	02:30 hrs, 11.10.2018	

5. Observation as per PMU and SCADA data:

- B-Phase to ground fault was observed in Talcher PMU corresponding to fault at 765/400 kV Srikakulam station.

6. Action Taken:

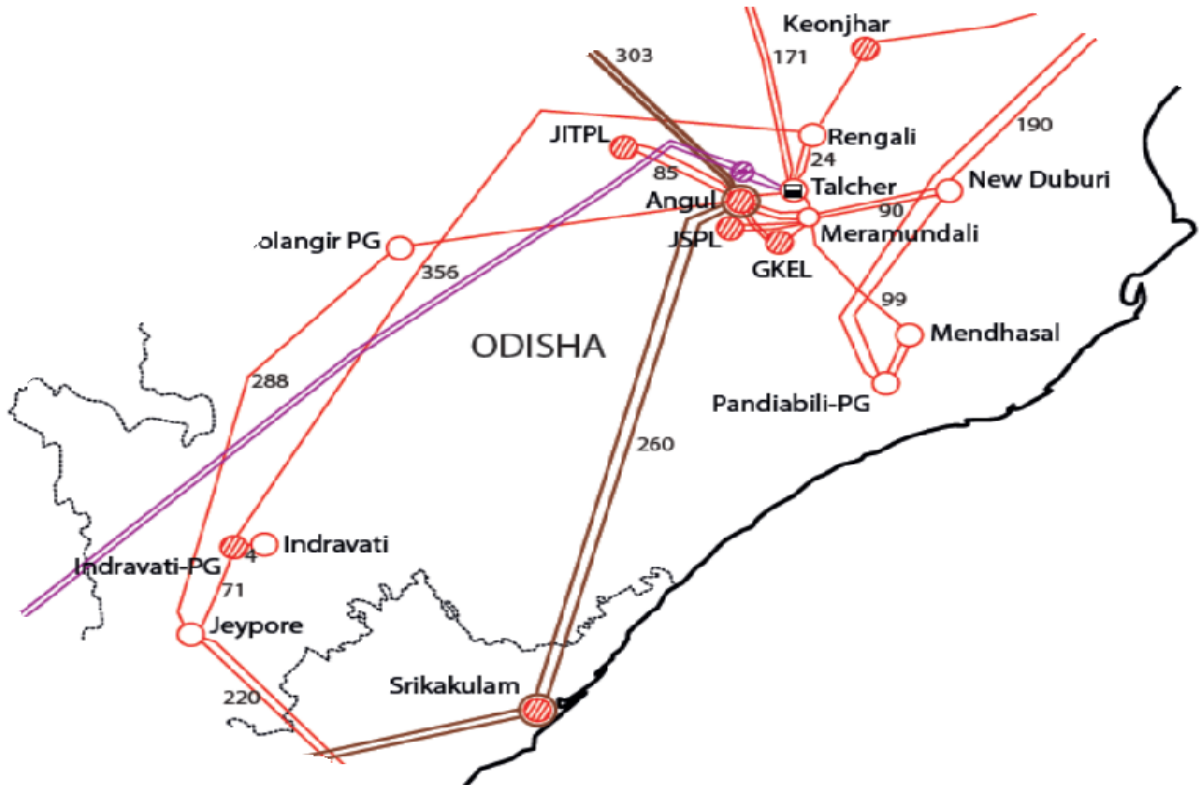
- NLDC coordinated with SRLDC for generation maximization and restricting the drawl of Southern Region constituents within their schedules.
- Instruction was given to maximize hydro generation of Southern region in view of depletion of ER-SR links.
- Talcher Stage-II was backed down by approx. 400 MW to contain loadings of lines emanating from Talcher.
- SPS 1000 was bypassed in both Talcher & SR region.
- TTC/ATC reduced in ER-SR corridor and SR import by 2000 MW.

7. System Status: At present system is under control however is on alert mode and all control centers have been sensitized to handle any contingency.


SCE/NLDC

Annexures

Annexure I The area affected by very severe cyclonic storm "Titli"



Annexure II Plots of various demand.

