

STATE EMERGENCY OPERATION CENTE (SEOC), BHUBANESWAR, ODISHA

Situation Report on Very Sever Cyclonic Storm "TITLI" and Subsequent Floods

Date: 16.10.2018

The Very Severe Cyclonic Storm 'TITLI' crossed the coast near Palasa in Srikakulam district of Andhra Pradesh to the southwest of Gopalpur as a very severe cyclonic storm with estimated maximum sustained surface wind speed of 140-150 kmph gusting to 165 kmph between 0430 and 0530 hours IST of 11th October 2018. Gopalpur recorded 126 kmph wind speed at 0430 hrs IST of 11th October.

Rainfall during last 24 hours: Average rainfall of the state recorded on 16th October 2018 for the last 24 hours is 0.3 mm.

Flood Situation: Due to heavy downpour flood situation occurred in the river Rushikulya and Vanshadhara.

River's Water Level in Mtr.

River	Forecast Station	DL	WL	Present Water Level (16.10.2018)		
				(6 AM)	(9 AM)	
Vansadhara	Gunupur	84.00	83.00	81.83 F	81.82 F	
	Kashinagar	54.60	53.60	53.93 F	53.90 F	
Rushikulya	Purushotampur	16.83	15.83	14.22 F	14.18 F	
Baitarani	Akhuapada	17.83	17.33	17.02 F	17.06 R	
Budhabalanga	NH 5	8.13	7.21	04.72 F	04.48 F	
Jalaka	Mathani	05.50	56.20 F	05.13 F	

Information on impacts and evacuation

Sl.No	Name of the district Affected	Blocks Affected (Nos.)	Village Affected (Nos.)	Human Casualties (Nos.)	Live Stock Casualties (Nos.)	House Damaged (Nos.)	Crop Affected (in hect.)	Person Evacuated	Relief Center Opened	Beneficiary Covered
1.	Balsore	7	222	NR	NR	473	13788	1727	29	1727
2.	Cuttack	11	382	1	NR	932	14686	3579	62	3579
3.	Dhenkanal	3	66	NR	NR	234	NR	NR	NR	NR
4.	Gajapati	7	1636	18	4233	34278	39123	22303	258	22303
5.	Ganjam	22	3250	3	23752	11615	85612	292647	1043	292647
6.	Jagatsinghpur	1	30	NR	NR	NR	13982	13923	20	13923

7.	Jajpur	1	2	NR	NR	NR	NR	123	1	123
8.	Kandhamal	10	385	1	45	793	18917	290	1	290
9.	Kendrapada	9	461	NR	NR	NR	NR	2632	38	2632
10.	Keonjhar	2	6	1	NR	12	136	0	0	0
11.	Khorda	9	242	0	0	368	7586	3085	56	3085
12.	Mayurbhanja	10	57	0	0	412	6798	1220	9	1220
13.	Nayagarh	5	130	1	0	615	2021.6	0	0	0
14.	Puri	11	464	0	3254	1591	2760	17150	76	17150
15.	Angul	4	55	1	0	103	NR	315	3	315
16.	Rayagada	2	14	0	88	NR	28797	1138	16	1138
	Total	114	7402	26	31372	51426	234207	360132	1612	360132

Infrastructure Damage:

- Electricity and road communication disrupted due to falling of trees in Gajapati District.
- Major portion of Foot Bridge over Kalingadala barrage (River Bahuda) has been washed away due to heavy rain in Ganjam district.
- Land slide occurred at Bengedangaghat, Daringibadi due to heavy rainfall In Kandhamal District.
- Raikia to Simanbadi bridge, Karada to Indragada bridge, Tudupaju bridge and Chhatigarh bridge have been damaged in Kandhamal District. Bakingia to raikia Culvert, Brahamanapada to Chakapada culvert and Dandakia Culvert have also been damaged in Kandhamal district.
- Ghatiguda RD Road & Brahamanpada to Badala Road in Chakapada block, Katargada to Raikala road, Katalagada to Bearpanga & Uduagiri to Sirki road in G. Udayagiri block of Kandhama district have been damaged.
- A breach on embankment has occurred near village Arkhakuda of Krushnaprasad Block due to storm surge in Puri district.
- Breach of 50 feet width on the embankment of Malaguni River near Mankadakhia bandha of Brahmagiripatna village under Dibyasinghpur GP of Kanasa Block of Puri district.
- A breach occurred in Ichhapur village under Sapua tributary in Cuttack district which marooned 5 villages and 1500 population under Athagarh block of Cuttack district.
- More than 10 nos. of PACS and LAMPCS of Gajapai District have been damaged.
- 8 Roads of length 22 Km in Rayagada, Bisam Cuttack, Muniguda, K-Singhpur and Kolnara blocks and 15 roads of length 65 km in Gunupur, Padampur, Ramanaguda, Gudari and Chandrapur blocks under Rayagada district have been damaged.
- 80 nos. of RD Roads of length 671.37 km in Kasinagar, Gumma, Gosani and Rayagada blocks and 15 nos. of RD Roads of length 80 km in Mohana, R.Udayagiri, Nuagada & Chandragiri blocks have been damaged in Gajapati district.
- Breaches in 5 roads (3 roads in Chakapada block, 1 each in Tikabali and Raikia blocks) have been occurred and 11 roads of length 2 km in Tikabali, Raikia and Chakapada blocks have been damaged in Kandhamal district
- In Ganjam district 64 nos of roads of length 60 km have been damaged and 141 nos. of breaches of 4.62km length have been occurred in Aska, Dharakote, Belaguntha, Saroda, Bhanjanagar and J.N.Prasad blocks. Similarly 30 nos of roads of length 50 km in Hinjili, Patrapur, Rangeilunda,Chikiti,Ganjam, Sheragada and Digapahandi blocks have been damaged.

- **Livestock:** As per preliminary report of the Directorate of Animal Husbandry & Veterinary Service, Odisha 738942 no. of livestock affected (LA- 291080, SA- 173178, Poultry-274662) and 31372 livestock casualty (LA-256, SA-537, Poultry-30573) occurred in Puri, Gajapati, Ganjam, Kandhamal, Rayagada, Khordha and Cuttack districts.
- **Loss & Damage in Fisheries Sector:** As per the preliminary loss & damage report received from Fisheries & ARD Department, 300 nos. of fishing Boats (35- fully damaged & 265- partly damaged), 473 nos. of net units (121- fully damaged & 352- partly damaged), 607 nos. of fish ponds covering 428.97 ha and 69 nos. of private fish seed farms covering an area of 47.250 ha also 5 nos. of Govt., Fish farms covering an area of 14.66 ha were damaged.

Action Taken by Districts

1. Gajapati

- 22,303 persons were evacuated and sheltered in 258 shelters.
- Fire Service Team & NDRF team engaged in cutting of trees for road clearance.
- DG (Fire Services) has sent 45 power saws and manpower available at Cuttack to Gajapati district.
- OFDC has sent 70 skilled persons with 13 Power Saws & axe and other equipment for road clearances.
- 6 rescue team consisting 30 personnel with 6 boats are in operation in Gajapati district.
- 3 trucks loaded with 4000 pcs of polythene sheets despatched to Gajapati district.
- 500 packets of Chuda & Gur have been sent to Badagarh, Gangabada GP of Rayagada Block.
- 2 out of 3 PHCs affected have been restored to normal.
- 29 Medical Relief Centers opened and 21 no. of Mobile medical teams have been deployed in the district.
- 69 pregnant women shifted to Maa Gruha .
- 59 no. of minor ailment/ injured treated by MRC/ Mobile teams
- 809 no. of open water sources disinfected in affected areas.
- 34 No. of Cattle camps organized.
- 7 Mobile Veterinary Units have been mobilized to organize Veterinary Health Camps/De-worming camps in each affected village.
- 10 Rapid Response Teams have been engaged to provide necessary Veterinary Services.
- 163 MT of cattle feed supplied and the distribution is ongoing (as on date 22 MT of cattle feed distributed).
- NH to Sundhipudi towards Paralakhemundi road approx 5 Km cleared.
- Mohana to Parlekhamundi road cleared of 120- 125 km
- Chandragiri to R. Udayagiri Road cleared
- Mohana to R. Udayagiri block road cleared.
- Roads in Mohona Block Cleared
- Nuagada to Khajuripada block road cleared.
- Adasingh to Machamara road Cleared.
- Mochamara to Goshani block Cleared.
- Kashinagar to Paralakhemundi via Sitapur By pass road cleared.
- Paralakhemundi to Rayagada cleared.
- Restoration of roads of Gunupur block completed.
- Paralakhemundi to Gunupur block road cleared.
- Gopili to palasa road Cleared.

- Gopili to Gandahati via Kinchilingi, Mahendragarh Cleared.
- 42 out of 63 no. of affected roads in Mohana, R Udayatir and Nuagada Blocks have been cleared and made trafficable.
- 143 out of 182 no. of affected roads in Gumma, Kashinagar & Paralakhemundi have been cleared and made trafficable.
- Water supply provided in 40% area using DG set .
- Roads of block Headquarters have been restored.
- Connectivity to villages have been restored.
- BSNL Services have been improved.
- All the Telecom Service Providers have been instructed by E&IT department, Government of Odisha to restore the telecom service at the earliest.
- 108 fire personals with 75 power saw and 8 power boats are working in the district.
- Drinking water supply has been restored in Mohana Block.
- Mobile Connectivity in all the blocks of Gajapati District have been restored.

2. Ganjam

- 292647 people were evacuated and sheltered in 1043 shelters
- 44 nos. of mobile medical teams deployed. (Today on 15.10.2018 – 10 Teams).
- 93 no. of Minor ailment/ injured have been treated by MRC/ Mobile teams.
- 145 nos. of Medical Relief Centres were opened.
- 115 Pregnant women were shifted to Maa Gruha
- 13310 no. of ORS pkts and 21800 halazone tablets have been distributed.
- 29 No. of affected Public Health Facilities have been restored to normal (4-CHC, 8- PHC, 17-SC)
- 15 no. of Doctors deployed from outside district
- 829 no. of open water sources disinfected in affected areas.
- Cleanliness drives initiative by GKS/ Other taken in 110 no. of villages.
- 50 fire teams consisting of 150 personnel with Power saw and Power boats are engaged in rescue operations.
- 150 fire personnel divided into 25 teams with 25 power boats deployed to different places for rescue operation.
- Additional 12 fire teams consisting of 65 personnel mobilized from Cuttack, Bhubaneswar and Puri deployed to Aska for rescue & relief
- 2120 no. of food packets have been air dropped in Aska, Purushottampur and Patrapur
- Electricity have been restored in most of the places.
- 10 no. of boats have been deployed.
- 23 no. of veterinary teams deployed
- 22 Mobile Veterinary Units have been mobilized to organize Veterinary Health Camps/De-worming camps in each affected village.
- 198 no. of cattle camps organized
- 313 MT of Cattle feed supplied and the distribution is ongoing (as on date 75 MT of cattle feed distributed)
- Aska Town- by using 3 DG sets and power supply of South Co. all the 16 production well sources and 1 surface source (intake well-wtp) have made functional. Pumping is in progress. All the sources have started with proper chlorination.
- Water supply pipe line restoration work completed in Purushottampur. There is no more power supply problem.
- The relief has been provided to the villagers of Gangabada GP

- Dry food packets containing Rice, Dal, Chuda, Gur, Cake, Biscuits, Clothes and Rs.3000/- per household, candle and match box have been distributed.
- Polythene rolls have been distributed in the village Baraghara
- Steps are being taken on war foot basis for restoring electricity, road communication and telecommunication.

3. Rayagada

- 16 Free kitchen centers at 14 villages were opened at Gunupur & Rayagada covering 1138 beneficiaries.
- Polythene have been distributed to the people whose houses are damaged
- Fire Services deployed to the affected areas.
- Road clearing is going on.
- 5 Medical Relief Centre opened
- 8 no. of mobile medical teams were deployed (Today 04 no. of teams are in the field)
- 67 Pregnant women were shifted to Maa Gruha.
- 159 no. of minor ailment/ injured treated by MRC/ mobile teams.
- 16 No. of open water sources disinfected in affected areas.
- Cleanliness drives initiative by GKS/ other taken in 42 no. of villages
- 37 no. of cattle Camps organized.
- 11 Rapid Response Teams have been formed to provide necessary Veterinary Services.
- 11 Mobile Veterinary Units have been mobilized to organize Veterinary Health Camps/De-worming camps in each affected village.
- Gangs from Energy Department have been deployed in rural areas of Gunupur block for restoration of electricity. Post rain disinfection has been started.
- Disinfection of wells at in different villages under Gudari block is being undertaken.
- Mobile health units of Kalhandi districts have been sent to Rayagada district.

4. Puri

- Cooked food & Chuda was provided to 15798 persons.
- 76 No. of Relief Camps were Opened for 17150 people.
- 15 nos of pump set engaged for dewatering in Puri Municipality
- 125 Qtl Chuda and 13 Qtl Gur have been distributed among the beneficiaries
- 22 Medical teams have been deployed
- 22 Veterinary teams have been deployed.
- 11 Mobile Veterinary Units have been mobilized to organize Veterinary Health Camps/De-worming camps in each affected village.
- 105 cattle camps organized.
- Action has been taken for closure of breach at village Brahmagiripatna under Kanasa Block by DoWR.

5. Kandhamal

- 290 persons were evacuated and sheltered in 1 shelter: continuing
- 600 nos. of rolls of Polythene sheets distributed to 2400 affected population
- 01 No. of Medical Teams deployed
- 01 No. of Veterinary teams deployed
- 01 no. of Mobile Veterinary Units engaged.
- 03 no. of cattle camps organized.

6. Khorda

- 3085 persons were evacuated and sheltered in 56 shelters.
- 1 Medical Relief Center opened
- 6 Medical teams have been deployed.

- 26 pregnant women shifted to Maa Gruha
- 352 no. of ORS pkts. and 3700 no. of Halazone Tablets distributed.
- 5 Veterinary teams have been deployed.

7. Cuttack

- 3579 persons were evacuated and sheltered in 62 relief camps.
- Cooked & dry food provided to 18737 persons
- 30 Qntl of Rice, 9.12 Qtl. Chuda and 85 Kg of Gur, 1100 bread, 900 pkt. biscut provided to people in Cuttack district
- 8 no. of doctors deployed from outside district.
- 38 Medical teams were deployed. (Today 03 teams are in the field).
- 08 no. of Medical Relief Centers Opened
- 08 no. of Pregnant women shifted to Maa Gruha.
- 379 no. of monor ailment/ injured treated by MRC/ mobile teams.
- 837 no. of open water sources disinfected in affected areas.
- Cleanliness drives initiative taken by GKS/ others in 05 no. of villages.
- 5 Rapid Response Teams have been formed to provide necessary Veterinary Services.
- 12 no. of cattle camps have been organized (today 7 camps).
- 2 Mobile Veterinary Units have been mobilized to organize Veterinary Health Camps/De-worming camps in each affected village.
- Repair work Narasinghpur and Athagarh is going on.

8. Jagatsinghpur

- Cooked food provided to 1644 persons and dry food provided to 7137 persons.
- 20 Relief Centres opened for 13923 beneficiaries.
- Medicals team are available in each block.
- 8 Mobile Veterinary teams have been deployed for regular vaccination to animals

9. Nayagarh

- 01 No. of Medical team deployed to Bhapur block.
- 08 no. of Veterinary teams deployed

10. Balasore

- 1727 no. of persons were evacuated and accommodated in 29 relief camps
- 32 no. of Boats deployed for evacuation
- 02 NDRF teams, 02 ODRAF teams and 02 Fire Service Teams have been deployed.
- 05 no. of cattle camps opened.
- Chuda, Gud & other dry foods, free kitchen provided.
- 23 no. of Doctors deployed from outside district.
- 06 no. of Medical Relief Centres opened
- 03 no. of Mobile Medical Teams have been deployed.
- 01 no. of Pregnant Women shifted to Maa Gruha.
- 382 no. of Minor ailment/ injured treated by MRC/mobile team.
- 35 no. of open water resources disinfected in affected areas.

11. Mayurbhanj:

- 1220 persons were evacuated and sheltered in 09 relief camps.
- 02 no. of medical teams deployed

- 02 no. of veterinary teams deployed

12. Jajpur:

- 123 persons were evacuated and sheltered in 01 relief camp

13. Angul:

- 315 persons were evacuated and sheltered in 03 relief camps
- 109 Kg Chuda, 10 Kg, Sugar and 60 pkts of biscuits distributed.

Other Action Taken by Departments

A. Panchyati Raj and Drinking Water Department

- 62 no. of water tankers engaged in Ganjama, Gajapati and Rayagada districts.
- 551900 no. of Water pouch distributed in Ganjam, Gajapati and Rayagada.
- 2 nos. of Mobile Water Treatment Plant are engaged at Purusottampur and Aska of Ganjam district each providing 4000 pouch per hour.
- 2615 no. of Tube Wells have been disinfected and 407 nos. of PWS out of 491 have been made functional.
- One 10000 litres and one 5000 litres water tanker from Bhubaneswar and one 5000 litres water tanker from Nayagarh has been moved to Mohana of Gajapati district for smooth water supply.
- One 10000 litres & 5000 litres water tanker from Angul division and one 10000 litres water tanker from RWS&S Mechanical Division, Bhubaneswar has been moved to Paralakhemundi of Gajapati district for smooth water supply.
- 1 lakh litres water pouch to be supplied to Mohana and Paralakhemundi by Executive Engineer RWS&S Berhampure to Paralakhemundi.
- 10 no of 3 phase Gen Set to be arranged and sent to Mohana and Paralakhemundi by E.E., RW&SS, Bhubaneswar.

B. Directorate of Animal Husbandry & veterinary Services, Odisha (Department of Fishery and ARD)

The following Livestock Health Care measures have been provided in cyclone/ flood affected districts.

- Rapid Response Teams have been formed (22 in Puri district, 10 in Gajapati, 22 in Ganjam, 11 in Rayagada & 1 in Kandhamal) to provide necessary Veterinary services.
- Mobile Veterinary Units (11 in Puri, 7 in Gajapati, 22 in Ganjam, 11 in Rayagada, 2 in Cuttack) & 1 in Kandhamal) have been mobilized to organize Veterinary Health Camps / De-worming Camps in each affected villages.
- 13 Special Veterinary teams from Cuttack(2), Koraput(7), Khorda(3), Rayagada(1) have been engaged in animal health care activities in Gajapati district. 9 MVU vehicles and 52 Veterinary staff consisting of 20 BVO/VAS, 26 LIs, 6 attendants have been engaged.
- 5 VAS & 5 LIs have been deputed from Khorda district for Ganjam district.
- Adequate Medicines, vaccines etc. are available with the CDVOs. However, all CDVOs have been instructed to lift the medicines from the Directorate as and when required.
- CDVOs of concerned districts have been instructed to organize Animal Health Camps.

- Today 116 Veterinary Doctors, 355 Para-Vets & supportive staff have been engaged for ensuring Health Care measures in flood affected areas.
- 384 nos. of camps have been organized.
- 19799 nos. of animals have been treated & 21100 animals have been vaccinated.
- CDVOs have been instructed to ensure vaccination in the flood affected villages, where ever necessary.
- A total of 476.00 MT of Cattle Feed have been supplied to flood affected districts i.e 313.00 MT in Ganjam district & 163.00 MT in Gajapati district. A total of 22.00 MT of cattle feed in Gajapati district & 75 MT of cattle feed in Ganjam district have been distributed so far till the date.

C. Agriculture and Farmers Welfare Department

- Due to Cyclonic Storm and heavy rain., Kharif cropped are of 2,13,801 ha (Paddy 1,48,681 ha and non-paddy 65,120 ha) have been affected in 9 districts i.e Ganjam, Gajapati, Rayagada, Khandamal, Mayurbhanja, Cuttack, Khurda, Balasore and Puri.
- Assessment of crop damage is under progress and final report is expected within a week.

D. Works Department

- Ganjam-45 out of 45 breaches occurred in State Roads have been closed.
- Rayagada- 1 number of breach occurred in State Roads have been closed.
- Gajapati- 8 out of 9 no. of breaches occurred in State Roads have been closed.
- Kandhamal-8 out of 9 no. of breaches occurred in State Roads have been closed.
- National High Way – 2 out of 3 breaches in Ganjam district and 3 out of 3 breaches in Gajapati district has been closed.
