



Government of Odisha

MEMORANDUM
on
CYCLONE “DANA”

OCTOBER, 2024

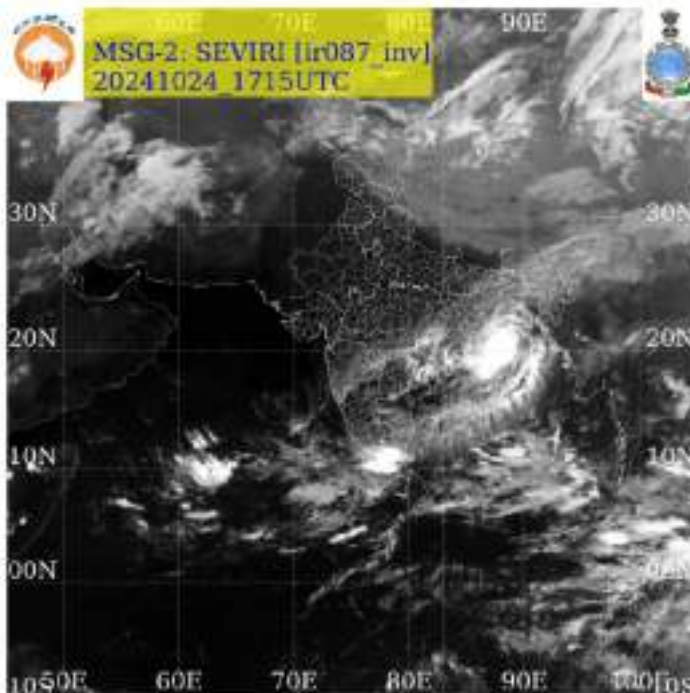
SPECIAL RELIEF COMMISSIONER

Revenue & Disaster Management Department
Government of Odisha



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CHAPTER – I

INTRODUCTION

The geographic location makes Odisha vulnerable to frequent cyclonic disturbances. The high wind, torrential rain and storm surge associated with the cyclone bring damage to the coastal settlements. Generally, the State is affected by the pre-monsoon (April, May & June up to onset of monsoon) and post-monsoon (October to December) cyclonic events.

During the last decade, the State faced either cyclone or other disasters like flood, tornado or drought every year.

Cyclone Occurrences in the recent past

The cyclone which had severe impacts on Odisha coast in the recent past is given below:

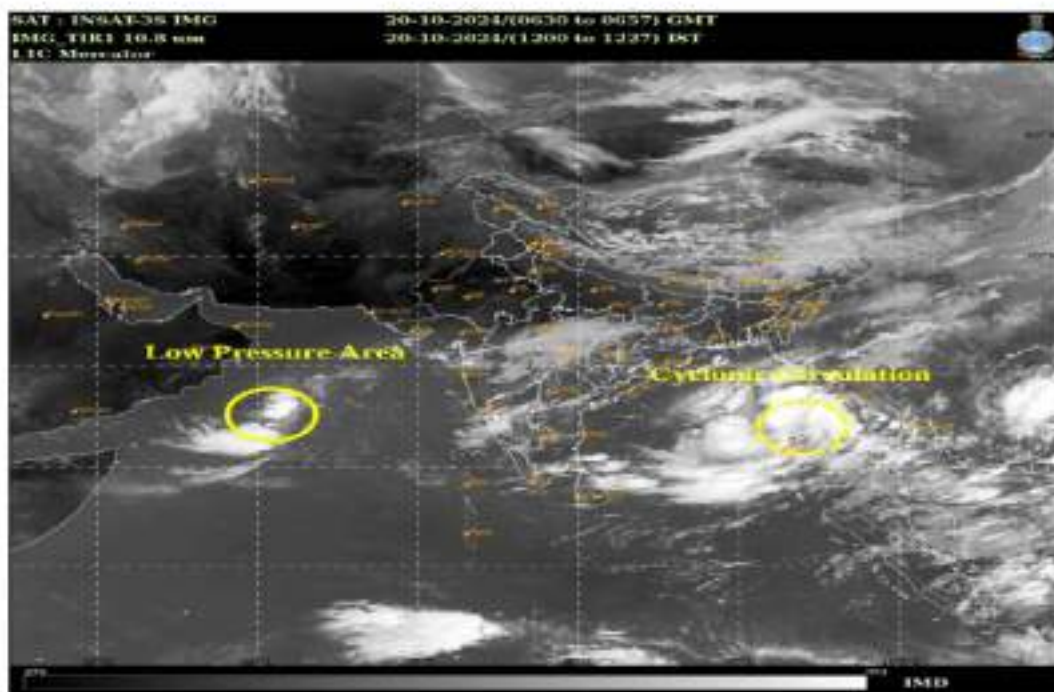
Sl. No.	Date/Year	Category of Cyclone	Place of landfall
1	25-31 October, 1999	Super Cyclone	Crossed Odisha Coast near Paradeep at noon of 29 th October
2	12-14 October, 2013	Very Severe Cyclonic Storm 'Phailin'	Crossed Odisha Coast near Gopalpur in the evening of 12 th October
3	12-14 October, 2014	Very Severe Cyclonic Storm 'Hudhud'	Crossed Andhra Pradesh Coast at Vishakapatnam and impacted south Odisha
4	10-12 October, 2018	Very Severe Cyclonic Storm 'Titli'	Crossed Andhra Pradesh Coast at Palasa and severely affected south Odisha
5	3 May, 2019	Extremely Severe Cyclone 'FANI'	Crossed Odisha Coast near Puri
6	8-10 November, 2019	Very Severe Cyclonic Storm 'Bulbul'	Affected the coastal districts of Odisha

7	20 May, 2020	Super Cyclone 'Amphan'	Crossed West Bengal coast and affected Northern Odisha and coastal Odisha
8	25-26 May, 2021	Very Severe Cyclonic Storm 'Yaas'	Crossed Odisha coast in Balasore district
9	25-27 Sept, 2021	Cyclonic Storm 'Gulab'	Crossed Northern Andhra Pradesh Coast and affected Southern Odisha
10	5 th December, 2021	Cyclonic Storm 'Jawad'	Moved parallel to Odisha coast and affected coastal districts
11	5-6 December, 2023	Severe Cyclonic Storm 'Michaung'	Crossed Northern Andhra Pradesh Coast and affected Southern Odisha
12	24-25 October, 2024	Severe Cyclonic Storm 'Dana'	Crossed Odisha Coast near Bhitarkanika of Kendrapara District

CHAPTER – II

TRACKING OF CYCLONE “DANA”

On 20.10.2024, India Meteorological Department (IMD) issued a bulletin saying that a cyclonic circulation laid over North Andaman Sea in the early morning (0530 hours IST) and persisted over the same region in the forenoon (0830 hrs IST) of 20th October 2024. Under its influence, a Low-Pressure Area was very likely to form over the East central Bay of Bengal and adjoining north Andaman Sea during next 24 hours.



SATELITE IMAGE DATE.20.10.2024

It was very likely to move west-north-westwards and intensify into a depression by 22nd October morning and into a cyclonic storm by 23rd October, 2024 over East-Central Bay of Bengal. Thereafter, it was very likely to move north-westwards and reach northwest Bay of Bengal off Odisha-West Bengal coasts by 24th October morning.

On 21.10.2024, IMD reported that a low-pressure area formed over the East central Bay of Bengal and adjoining north Andaman Sea in the early morning (0530 hours IST) of 21st October 2024 under the influence of the cyclonic circulation.

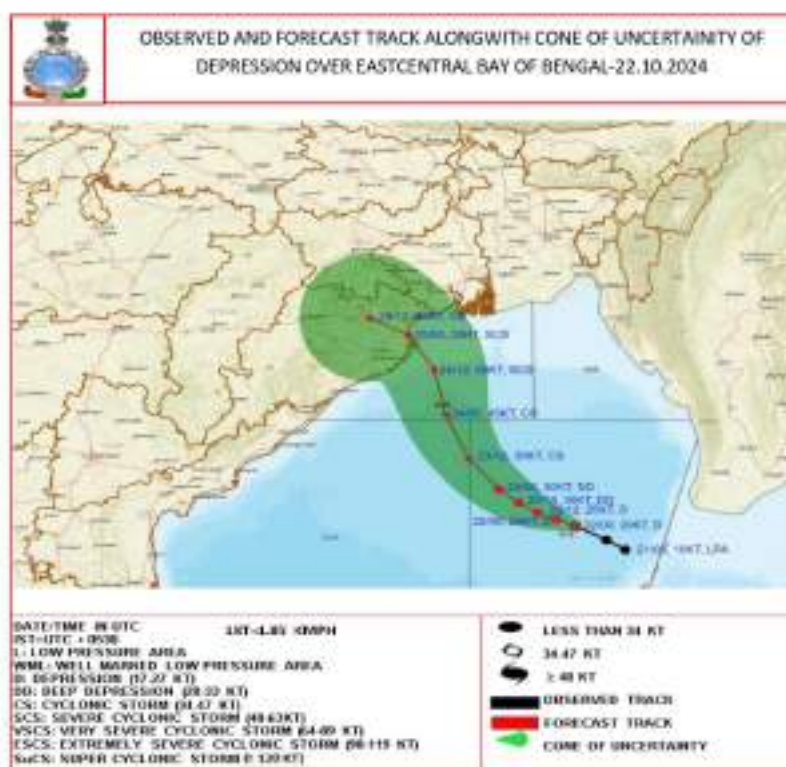
It would very likely to move west-north-westwards and intensify into a depression by 22nd October morning and into a cyclonic storm by 23rd October, 2024 over east central Bay of Bengal. Thereafter, it would very likely to move north-westwards and reach northwest Bay of Bengal off Odisha-West Bengal coasts by 24th October morning.

Soon after receiving the meteorological warning about formation of low-pressure area over the East central Bay of Bengal and possible formation of cyclonic storm that could hit Odisha, the State Government started closely monitoring the situation. A high-level review meeting was conducted under the chairmanship of Hon'ble Chief Minister on 21.10.2024 with all concerned Secretaries/Collectors and necessary directions were passed to chalk out the preparatory measures.

Based on the forecast issued by IMD and other international Agencies like Regional Integrated Mult hazard Early Warning Systems (RIMES), Joint Typhoon Warning Center (JTWC), the tracking of the system was thoroughly done by the Experts of Odisha State Disaster Management Authority (OSDMA) in GIS platform regarding possibility of its likely impact on Odisha.

On 22.10.2024, IMD reported that the well-marked low pressure area formed over East central Bay of Bengal moved west- north-westwards, concentrated into a depression and lay centred at 0530 hrs IST of 22nd October, over the same region near latitude 15.4° N and longitude 91.2°E, about 730 km southeast of Paradip (42976, Odisha), 770 km south-southeast of Sagar Island (42903, West Bengal) and 740 km south-southeast of Khepupara (41984, Bangladesh).

It would very likely to move west-north-westwards and intensify into a cyclonic storm by 23rd October, 2024 over east central Bay of Bengal. Thereafter, continuing to move north-westwards, it would very likely to intensify into a severe cyclonic storm over northwest Bay of Bengal by 0000 UTC of 24th and cross north Odisha and West Bengal coasts between Puri and Sagar Island during 1800 UTC of 24th and 0000 UTC OF 25th October, 2024 as a severe Cyclonic Storm with a wind speed of 100-110 kmph gusting 120 kmph.

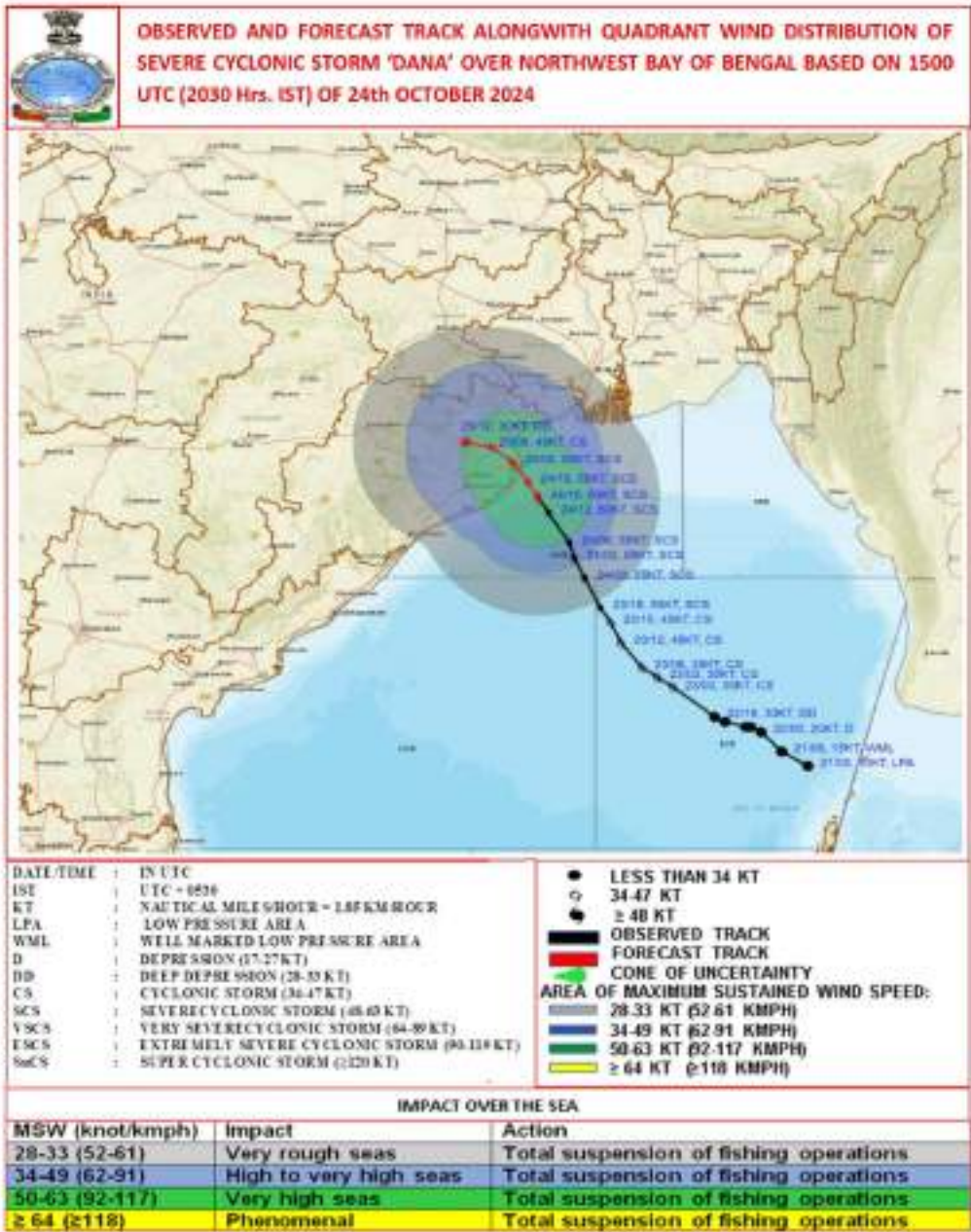


TRACK OF THE CYCLONE ON 22.10.2024

As per IMD's bulletin on 23.10.2024, the cyclonic storm "DANA" over Eastcentral Bay of Bengal moved northwestwards with a speed of 15 kmph during past 6 hours and lay centred at 0830 hrs IST of 23rd October, over the same region near latitude 16.5°N and longitude 89.6°E, about 520 km southeast of Paradip (Odisha), 600 km south-southeast of Sagar Island (West Bengal) and 610 km south of Khepupara (Bangladesh). It is very likely to move northwestwards and intensify into a severe cyclonic storm over northwest Bay of Bengal by early morning of 24th and cross north Odisha and West Bengal coasts between Puri and Sagar Island close to Bhitarkanika and Dhamara (Odisha) during night of 24th to morning of 25th October, 2024 as a severe Cyclonic Storm with a wind speed of 100-110 kmph gusting 120 kmph.

On 24.10.2024, IMD in its evening bulletin reported that the severe cyclonic storm "DANA" (pronounced as Dana) over northwest Bay of Bengal moved north-northwestwards with a speed of 15 kmph during past 6 hours and lay centred at 2030 hrs IST of 24th October, over the same region, near latitude 20.1° N and longitude 87.3°E, about 70 km east-southeast of Paradip (Odisha), 90 km south-southeast of Dhamara (Odisha) and 190 km south-southwest of Sagar Island (West Bengal).

It would very likely to move north-north-westwards and cross north Odisha and West Bengal coasts between Puri and Sagar Island close to Bhitarkanika and Dhamara (Odisha) during mid-night of 24th to morning of 25th October, 2024 as a severe Cyclonic Storm with a wind speed of 100-110 kmph gusting 120 kmph.



TRACK OF THE CYCLONE ON 24.10.2024

The system was under continuous surveillance of the Doppler Weather Radar at Paradip and Gopalpur.

Forecast track and intensity were given in the following table:

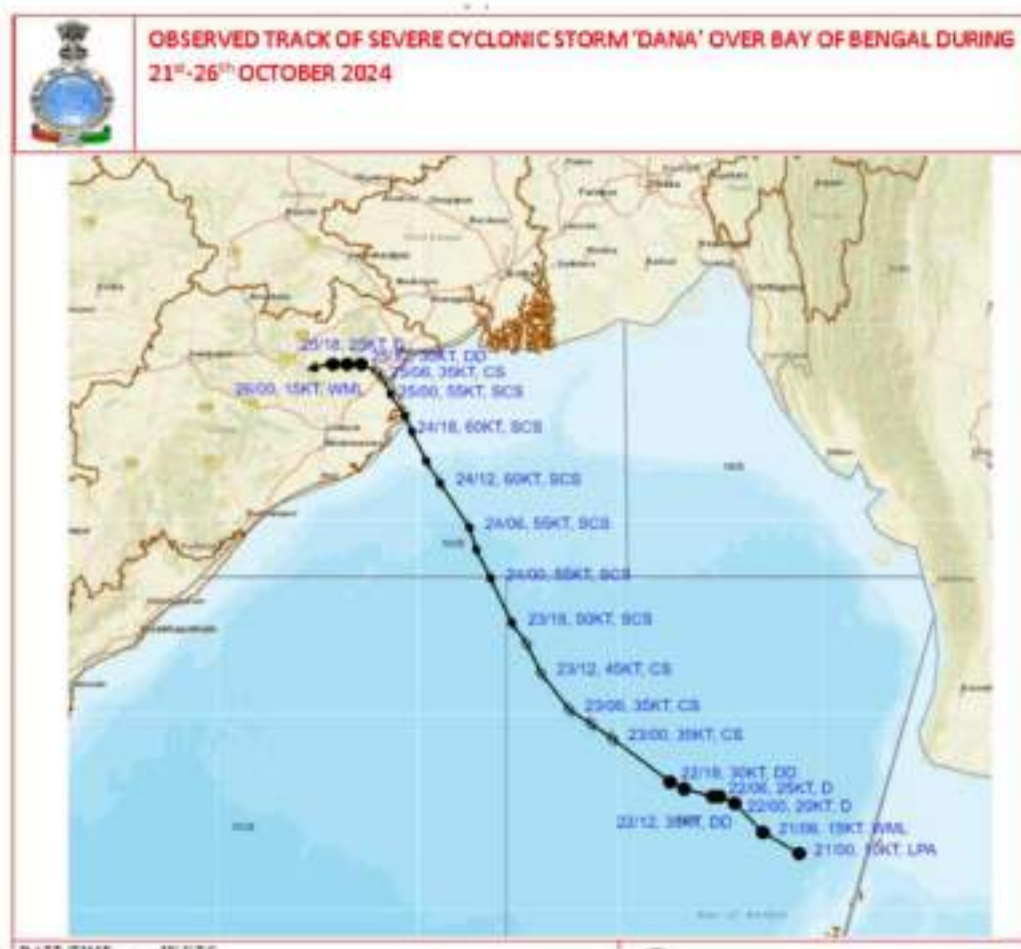
Date/Time (IST)	Position (Lat. °N/ Long. °E)	Maximum Sustained Surface Wind Speed (Kmph)	Category Of Cyclonic Disturbance
24.10.24/2030	20.1/87.3	105-115 gusting to 125	Severe Cyclonic Storm
24.10.24/2330	20.4/87.1	100-110 gusting to 120	Severe Cyclonic Storm
25.10.24/0530	20.8/86.8	100-110 gusting to 120	Severe Cyclonic Storm
25.10.24/1130	21.1/86.4	85-95 gusting to 105	Cyclonic Storm
25.10.24/1730	21.2/85.9	50-60 gusting to 70	Deep Depression

CHAPTER – III

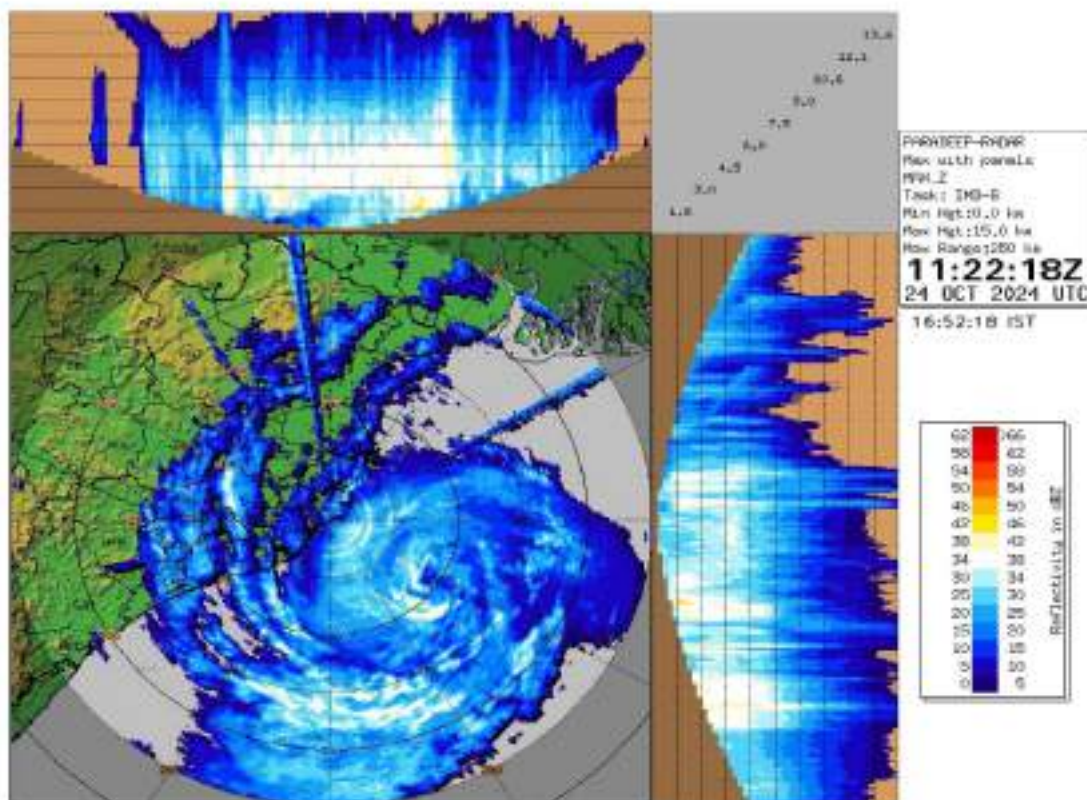
OCCURRENCE & INTENSITY

The Cyclone "DANA" (pronounced as Dana) crossed north Odisha coast close to Habalikhathi Nature Camp (Bhitarkanika) and Dhamaraduring 0130 hrs IST to 0330 hrs IST of 25th October with a wind speed of 100-110kmph gusting to 120 kmph and lay centred at 0230 hrs IST of 25th October, over Odisha coast, near latitude 20.7° N and longitude 87.0 °E, about 60 km northeast of Paradip (Odisha), 20 southeast of Dhamara (Odisha) and 150 km southwest of Sagar Island (West Bengal).

It lay centred at 0330 hrs IST of 25th October over north coastal Odisha near latitude 20.85° N and longitude 86.9°E, about 10 km north of Dhamara and 20 km north-northwest of Habalikhathi Nature Camp (Bhitarkanika). Later, it moved nearly west-north-westwards across north Odisha and weakened gradually into acyclonic storm by forenoon of 25th October.



The Doppler image at Paradeep that showed the storm before crossing the Odisha coast on 24.10.2024 can be seen below.



Rainfall Status:

The average rainfall of the state from 25th October to 26th October 2024 (cumulative) was 37.3 mm as against the normal average rainfall of 7.4 mm for two days in that month.

Bhadrak had recorded average rainfall of 239.6 mm. Three districts namely Kendrapada, Balasore and Jajpur had recorded average rainfall more than 100 mm during the above two days due to the impact of the cyclone. Besides, 6 districts had recorded average rainfall more than 50 mm.

The district wise average rainfall reports in the above two days are given below:

DISTRICT AVERAGE RAINFALL From 25.10.2024 to 26.10.2024				
(Rainfall in mm)				
Sl.	District	25.10.2024	26.10.2024	Total
1	Bhadrak	68.5	171.1	239.6
2	Kendrapara	88.0	77.1	165.1
3	Balasore	50.8	96.5	147.3

4	Jajpur	39.3	95.5	134.8
5	Mayurbhanj	30.2	59.1	89.3
6	Jagatsinghpur	20.8	30.0	50.8
7	Cuttack	22.9	22.9	45.8
8	Keonjhar	18.1	27.5	45.6
9	Khordha	30.6	3.6	34.2
10	Dhenkanal	17.6	16.4	34.0
11	Puri	24.0	7.9	31.9
12	Angul	16.1	14.7	30.8
13	Nayagarh	24.4	4.6	29.0
14	Deogarh	2.3	7.6	9.9
15	Kandhamal	2.5	4.7	7.2
16	Sundargarh	0.2	4.1	4.3
17	Balangir	3.8	0.3	4.1
18	Boudh	0.0	3.8	3.8
19	Subarnapur	2.7	0.0	2.7
20	Ganjam	0.9	1.7	2.6
21	Malkanagiri	0.0	1.6	1.6
22	Bargarh	1.3	0.0	1.3
23	Kalahandi	0.5	0.8	1.3
24	Rayagada	0.0	0.7	0.7
25	Sambalpur	0.5	0.2	0.7
26	Koraput	0.0	0.3	0.3
27	Jharsuguda	0.2	0.0	0.2
28	Gajapati	0.0	0.0	0.0
29	Nawarangpur	0.0	0.0	0.0
30	Nuapada	0.0	0.0	0.0
State Average		15.5	21.8	37.3

RAINFALL REPORTS OF DIFFERENT BLOCKS FROM 25TH OCTOBER TO 26TH OCTOBER, 2024.

3 Blocks recorded rainfall more than 300 mm in the above 2 days. Similarly, 11 Blocks recorded rainfall more than 200 mm and 30 Blocks have recorded rainfall from 100 mm to 200 mm from 25th to 26th October 2024. Thus, in all, 44 Blocks have recorded rainfall more than 100 mm. The Block wise rainfall reports in the above two days are given below:

RAINFALL STATUS OF DIFFERENT BLOCKS FROM 25.10.2024 to 26.10.2024					
(Rainfall in mm.)					
Sl. No.	District	Block	25.10.2024	26.10.2024	Total
Rainfall more than 300 mm					
1	Balasore	Oupada	109.0	240.0	349.0
2	Bhadrak	Chandbali	147.0	197.0	344.0
3	Kendrapara	Rajkanika	156.0	151.0	307.0
Rainfall more than 200 mm					
1	Balasore	Khaira	34.0	209.0	243.0
2		Nilagiri	67.0	140.0	207.0
3	Bhadrak	Dhamnagar	42.0	215.0	257.0
4		Bhandaripokhari	29.0	208.0	237.0
5		Bhadrak	70.2	161.0	231.2
6		Bonth	25.0	187.0	212.0
7		Basudevpur	110.0	92.0	202.0
8	Jajpur	Dasarathpur	55.0	196.0	251.0
9		Jajpur	60.0	143.0	203.0
10	Kendrapara	Aul	80.0	123.0	203.0
11	Mayurbhanj	Udala	60.0	141.0	201.0
Rainfall from 100 mm to 200 mm					
1	Balasore	Balasore	74.0	114.0	188.0
2		Soro	63.0	101.0	164.0
3		Simulia	49.0	114.0	163.0
4		Remuna	46.0	109.0	155.0

5		Bahanaga	53.0	79.0	132.0
6	Bhadrak	Tihidi	56.0	138.0	194.0
7	Cuttack	Nischintakoili	29.0	72.0	101.0
8	Jajpur	Bari	52.0	145.8	197.8
9		Binjharpur	60.0	110.0	170.0
10		Dharmasala	40.0	76.3	116.3
11		Badachana	37.0	65.0	102.0
12	Kendrapara	Marshaghai	110.0	49.0	159.0
13		Derabis	72.0	80.0	152.0
14		Rajnagar	100.0	50.0	150.0
15		Kendrapara	66.0	70.0	136.0
16		Pattamundai	65.9	70.0	135.9
17		Mohakalpara	90.0	44.0	134.0
18		Garadapur	52.0	57.0	109.0
19	Keonjhar	Ghasipura	28.2	94.7	122.9
20		Anandapur	26.2	77.5	103.7
21	Mayurbhanj	Besoi	68.0	92.8	160.8
22		Kaptipada	42.0	101.0	143.0
23		Kusumi	57.0	82.0	139.0
24		Badasahi	26.0	112.0	138.0
25		Khunta	34.5	101.1	135.6
26		Gopabandhunagar	35.0	96.0	131.0
27		Betanati	34.0	83.0	117.0
28		Samakhunta	39.0	75.0	114.0
29		Bijatala	45.0	59.0	104.0
30		Joshipur	39.4	62.4	101.8

CHAPTER – IV

PREPAREDNESS

Keeping in view the possible situation, the Office of Special Relief Commissioner started massive preparedness to combat the crisis. Instructions were issued to the concerned District Collectors of the vulnerable districts and the Departments to ensure necessary preparatory measures to encounter the situation. Accordingly, the Collectors of all the 14 probable affected districts such as Balasore, Bhadrak, Kendrapara Jagatsinghpur, Mayurbhanj, Jajpur, Cuttack (in red zone) and Puri, Angul, Nayagarh, Khordha, Keonjhar, Dhenkanal and Ganjam (in orange zone) convened the meeting of their respective District Disaster Management Authorities (DDMAs) and remained in full preparedness to effectively deal with the situation. The District Emergency Operation Centres including the State Emergency Centre were activated to operate round the clock. Hon'ble Chief Minister, Odisha and Hon'ble Minister, Revenue & DM visited the State Emergency Operation Centre located in the office of Special Relief Commissioner and reviewed the pre-cyclone preparedness activities. He categorically stressed open to adhere to the principle of "Zero Casualty in management of the disaster". The Control Rooms at Blocks, Sub- divisions and Tahasils were also activated. The fishermen on sea were asked to immediately return to the shore.

Shelter Buildings

- **842** Multipurpose cyclone shelters/Multipurpose flood shelters ready to accommodate the evacuated people. Besides, **5402** temporary shelter buildings have been identified by the district administration and ready for accommodation. About 10.60 Lakh people from 3026 low lying vulnerable villages were evacuated in the above 14 districts by evening. Necessary arrangements were made for provision of food, drinking water, lighting, sanitation and health facility along with baby food in such shelters.
- In addition, Lady Constables/ Home-guards/ ASHA/ AWC workers were deployed in the shelters by Collectors.

Precautionary Measures taken to combat the situation

- Engineering Departments made necessary advance arrangements for clearance of road traffic after the cyclone. At least 3/4 Earthmovers/Excavators along with Tractors shall be kept in readiness to assist the work.
- All fishing boats numbering 19362 plying Odisha coast were safely berthed in their respective FLCs/ FH.
- Ministry of Home Affairs, Govt. of India was requested to provide one Helicopter to be used for relief and rescue operations.
- Schools, Colleges, Universities as well as Anganwadi Centres in the 14 districts under warning remained closed from 23rd to 25th October.
- Leave of Government officers was cancelled from 23rd to 25th October.
- All the three port authorities Gopalpur, Paradip and Dhamara were instructed to hoist signal DC-I.
- Overhead water tanks kept filled in private and public buildings.
- Instruction was given to remove hoardings in coastal districts.
- Safety of Habishyalis and other Tourists in Puri were ensured by the district administration.
- Anti snake venoms and adequate number of technical personnel kept readily available at PHC level.
- All the Telecom Service Providers were requested for uninterrupted service through Telecom Towers with Genset, fuel backup. "Cell on Wheels"(CoWs) were arranged by the TSPs if required.
- Diesel, Kerosene, Petrol, LPG already available with the stockists.
- Sufficient polythene sheets made available with the district administration to be used as temporary shelter materials. Besides, 2500 MT polythene sheets are also available with the SRC as buffer stock.
- Hoarding of Essential Commodities and inflation of rates thereof was strictly dealt with by the Collector and FS & CW officials. Simultaneously, awareness drives to prevent panic buying by Consumers.
- 739 gangs made available with the DISCOMS for power restoration.

Response Forces

- ODRAF and NDRF teams were stationed/ deployed at strategic locations to carry out search & rescue operations.
- 51 ODRAF Teams, 178 fire service teams and 20 NDRF teams were deployed.
- Additional 40 Fire services teams were kept ready for deployment.
- Additional 5 NDRF teams were airlifted from Bhatinda and kept ready for deployment as per requirement.
- Animal Rescue was also taken up along with Human Rescue work by all rescue teams.

Review & Monitoring:

Review Meetings by Hon'ble Chief Minister

- Hon'ble Chief Minister in the presence of Hon'ble Minister, Revenue & DM took a meeting on 21.10.2024, 23.10.204, 24.10.2024. 25.10.2024, 26.10.2024 & 27.10.2024 with the concerned Collectors, Secretaries of the concerned Departments, DG Police, DG (Fire Services), ADG Law & Order and gave necessary instructions as follows-

Date	Instructions
21.10.2024	<ul style="list-style-type: none">• Puri-Habishyals and other visitors should be ensured safety.• Anti snake venom should be available in all PHCs and CHCs.• One Chopper and 10 additional NDRF teams should be stationed at Bhubaneswar brought by tomorrow.• Additional Police deployment from nearby districts which were not affected.• All MCS/MFS to be kept in readiness and baby food/dry food/drinking water to be made available.• Sanitation and hygiene to be ensured in these shelters.

	<ul style="list-style-type: none"> • After cyclone immediate clearing of road to be ensured. • Visitors of Gopalpur, Puri to be informed by special teams to leave the seashore and stay safely. • Essential items and vegetables to be procured from nearby unaffected districts. Abnormal price hike of essential commodities in the market to be strictly monitored during pre and post cyclone period. • Daily needs in market should be regularized • Loss of crops will be estimated by Dept. of Agriculture. • Preparation of Contingency Plan for Rabi crops by Dept. of Agriculture. • To avoid any rumour/misinformation among public, SRC office has to brief media. In addition, SRC, OSDMA, I&PR, R&DM, A&FE and Home department should update authentic posts in their social media handle. • Energy Dept. to ensure timely restoration of power supply. • People of low lying and Kutcha houses are to be shifted to shelter, to avoid casualty due to wall collapse and any other eventualities. • Telecom companies to be informed for emergency arrangement and Intra Circle Roaming. • Diesel, kerosene, petrol, LPG should be sufficiently procured by Stockist. • Sufficient fodders to be made available for animals. • Railway dept. to be informed to keep the track intact. • Schools to remain closed and identified for temporary cyclone shelters. • ULBs should be asked to take out the billboards/sign board.
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	<ul style="list-style-type: none"> • Shelter for animals should be ensured. • Give people assurance for safe upkeep of their properties. • Senior officers should be deployed in the probably affected districts.
23.10.2024	<ul style="list-style-type: none"> • Urged the people not to panic at all, stay safe and be alert. • Government is fully prepared to deal with the situation. • 30 percent people evacuated so far, 90 percent evacuation by 11 AM tomorrow. • Hon'ble Ministers and officers with experience have been asked to monitor the situation in concerned districts. • Reviewed the situation with Line Departments and concerned District Collectors and gave necessary instructions. • Dry food, cooked food and all related arrangements have been made for the people in cyclone shelters. • Inspected various information technology and emergency communication system in the State Emergency Operation Centre at SRC office.
24.10.2024	<ul style="list-style-type: none"> • All vulnerable people should be evacuated to safe placed. • The women having EDD within next 15days may be brought to health care centres and maternity homes in view of the cyclone. Out of 4,431 pregnant women, 1,600 have given birth to newborns. All the mothers and newborns are completely healthy and safe. • Informing about the preparedness, so far 8322 shelters have been opened. Out of these, 6008 shelters have been fully operationalised. • 19,476 livestock have been taken to safer places and

	<p>sufficient fodder has also been arranged for them.</p> <ul style="list-style-type: none"> • All the teams are fully geared up to facilitate movement, restore power supply and safe drinking water after the cyclone. • The district Collectors of Keonjhar, Dhenkanal and Angul districts have also been asked to remain alert as there is a possibility of a curve in the course of the cyclone. • The Government is keeping a close watch on the situation. The ministers are visiting the blocks and panchayats in the respective districts to monitor the preparations. • Senior officers are also in charge of the preparation of arrangements in the district.
25.10.2024	<ul style="list-style-type: none"> • Achieved our 'Zero Casualty' target as per the data available. Achieved full success in dealing with the cyclone. • District collectors have been directed to assess the post-cyclone damage. • The places where the road has been blocked by falling trees, should be cleared. • Electricity connections should be restored in places where power supply has been disrupted. • Train services have also started. Train will run from Bhubaneswar and Puri on time. • Flight operations have also returned to normalcy. The first flight started at Bhubaneswar airport at 9 AM today. • More than 1,600 of the pregnant women among others who were shifted to various health centres and maternity homes in the affected areas gave birth to

	<p>newborns safely. It is a matter of happiness for us that both the mother and the children are completely healthy.</p> <ul style="list-style-type: none"> • The impact of Cyclone 'DANA' has reduced. People have started returning to their homes from shelter homes, but extreme cautious should be maintained and people should be allowed to stay at Shelters till their houses become habitable.
26.10.2024 (Morning)	<ul style="list-style-type: none"> • The restoration of power supply in Puri, Khordha, Jagatsinghpur, Cuttack has been ensured to 100%. However, Balasore, Bhadrak, Jajpur, Kendrapara, Keonjhar and Mayurbhanj to be ensured 100% power supply restoration by this evening. • The DC-cum-Additional Chief Secretary, Water Resources department to closely monitor the flood like situation in Budhabalanga river due to heavy rainfall in upper catchments. • The low-lying areas and vulnerable locations to be closely monitored and the people may be shifted to safer places to avoid any untoward situation. Budhabalanga river is flowing at Gobindpur gauge station with water level 7.80 meter against danger level of 8.13 which should be closely monitored. • The Principal Secretary, RD informed that out of 71 blocked roads 68 roads have been cleared. It is directed that the remaining roads to be cleared by today. • There are certain roads, drinking water supply systems and power supply have been affected in the ULBs of Balasore, Bhadrak and Kendrapara. These are to be restored immediately. • The renovation of multipurpose cyclone shelters and flood shelters to be taken up. The additional shelters

	<p>shall also be constructed. The PR & DW department will make an assessment of the requirement of such shelters.</p> <ul style="list-style-type: none"> • All the damaged kutcha houses should be enumerated and detailed report shall be prepared by the PR & DW Department for construction of new pucca houses. • The I &PR Department shall make documentation of rescue, relief and other such successful works done for effective management. • Village level response committee will be constituted in each village. • The FE & CC Department to take necessary steps for mangrove plantation. • District collectors of Balasore, Bhadrak, Mayurbhanj have also been asked to remain alert for probable flood like situation.
26.10.2024 (Evening)	<ul style="list-style-type: none"> • Kendrapara, Bhadrak and Balasore districts were affected by cyclone 'Dana'. In these districts, wind fallen trees have disrupted power supply & road traffic. That should be restored by tonight. • All road blockages have been cleared in Balasore by this evening. Power supply to nearby 81 percent consumers has been restored. The remaining restoration work is on progress. • Due to the rains in Similipal, the water level of Budhabalang River in Balasore district is increasing. But since the rain is on decline, the water level may recede. As many as 20 villages in 6 GPs in Balasore district have been affected by the floods. • The administration has so far shifted 2,500 people from Remuna block and 8,000 from Balasore Sadar

	<p>block to safe shelters. R. Budhabalanga is expected to flow above the danger level and as such the district Administration, ODRAF and Fire Services are on full alert. All concerned to remain fully alert to meet any eventuality.</p> <ul style="list-style-type: none"> • Electricity and communication have been restored in Mayurbhanj. • Power Restoration is getting hindered in Bhadrak due to water logging. As of now, nearly 77 percent restoration is over. Approximately, 70 thousand consumers are still in darkness. More teams have been deployed in action and the situation will be normal soon. • Regarding Kendrapara, Hon'ble Chief Minister stated that, situation is mostly normal in the district. As of now, power has been restored to nearly 95 percent consumers. Work is going on war footing to restore power to the rest 15 thousand consumers who are still in darkness. • As observed from IMD report, Cyclone 'DANA' has dissipated but flood situation has arisen due to heavy rainfall. The Budhabalanga is little above the warning level which threatens flooding of low-lying areas of Balasore, Bhadrak. This should be closely watched and necessary measures should be taken. • 21 boats of ODRAF will be deployed for Search & Rescue operation immediately. <p>12 boats will be deployed at Balasore and 9 boats will be deployed at Mayurbhanj.</p> <ul style="list-style-type: none"> • Additional 2 ODRAF teams will be deployed at Balasore and 2 ODRAF teams will be deployed at
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	<p>Mayurbhanj.</p> <ul style="list-style-type: none"> • Boats will be deployed in Mayurbhanj & Balasore districts. • Steps will be taken for construction of Pucca houses. • Underground cabling for power supply will be done as a long term solution. • Mangrove plantation will be revived. • Temporary breaches across the roads for discharge of water from inundated area have been made which may lead to increase in the road damage. This should be prepared on priority as soon as the water recedes. • 8 lakh 9 thousand 513 people were brought to the cyclone shelters. People have returned to their homes after the situation returned to normal. At present, only 1,10,470 people are in shelters. They should be properly looked after. • Crops on about 2 lakh hectares of land have been damaged. Once the water is released, it should be properly assessed and immediate relief should be provided to the farmers.
27.10.2024	<ul style="list-style-type: none"> • Hon'ble Chief Minister appreciated Collectors and SPs of all the affected districts, Secretaries, DG Police, DG Fire, ADG (Law & Order), & Observers for their commendable job starting from preparedness till rescue & restoration work for the Cyclone "DANA" and expressed his pleasure for zero casualty and successful restoration works. He thanked all for their work beyond their regular job.



- Hon'ble Minister, Revenue and Disaster Management reviewed the situation with the Collectors and Secretaries on 22.10.2024, 26.10.2024, 27.10.2024.
- Chief Secretary also took a meeting on 20.10.2024 with the concerned Collectors, Secretaries of the concerned Departments and gave instructions to ensure preparedness in Energy, Health, Fisheries & ARD, Drinking Water, Food Supplies, Agriculture and other sectors.

Supervision by Hon'ble Ministers/ Senior Officers

- 9 Hon'ble Ministers rushed to the districts to supervise Disaster Management in the districts which may be affected by cyclone as follows-
 - Jagatsinghapur: Hon'ble Minister, Industry, Sri Sampad Chandra Swain
 - Balasore: Hon'ble Minister, PR&DW and RD, Sri Rabi Nayak
 - Bhadrak: Hon'ble Minister, Sports & HE, Sri Suraj Suryavamsi
 - Mayurbhanj: Hon'ble Minister, H&UD, Dr K C Mahapatra
 - Puri: Hon'ble Hon'ble Deputy Chief Minister, Smt. Pravati Parida
 - Kendrapada: Hon'ble Deputy Chief Minister, Sri K V Singhdeo
 - Ganjam: Hon'ble Minister, Commerce & Transport, Sri B B Jena
 - Keonjhar: Hon'ble Minister, Food & Civil Supplies, Sri K C Patra
 - Cuttack: Hon'ble Minister, Works, Law, Sri Prithviraj Harichandan
- 6 Senior IAS officers having their past experience in managing disasters were deployed in 6 more vulnerable districts namely Puri, Jagatsinghpur, Kendrapara, Mayurbhanj, Bhadrak and Balasore for overall supervision of rescue and relief operation.
- 6 senior OAS officers having previous experience in the affected districts have also been deployed to assist the district administration.

CHAPTER – V

RESPONSE

Evacuation/ Free Kitchen:

8,10,896 people were evacuated from vulnerable areas to 6,210shelters. They were provided with dry food, drinking water and free kitchen.

Sl. No.	District	No. of Shelters	No. of People Evacuated
1	Angul	53	3187
2	Balasore	1213	212940
3	Bhadrak	917	137787
4	Cuttack	260	46308
5	Dhenkanal	355	15984
6	Ganjam	269	15557
7	Jagatsinghpur	261	41167
8	Jajpur	614	58710
9	Kendrapara	646	121116
10	Keonjhar	285	10859
11	Khordha	227	14712
12	Mayurbhanj	792	116163
13	Nayagarh	92	5518
14	Puri	208	10888
	Total	6210	8,10,896

Administration of Emergent Relief

Sl.	District	Chuda in Qtl	Gur in Qtl	Polythene (in Pkts)
1	Angul	0.52	0.19	15
2	Balasore	475.74	44.6	211

3	Bhadrak	861	116	686
4	Cuttack	67.13	9.33	0
5	Dhenkanal	7.46	2	54
6	Ganjam	0	0	0
7	Jagatsinghpur	0	0	0
8	Jajpur	52	1.3	50
9	Kendrapara	989.5	108.35	17
10	Keonjhar	24.07	7.36	21
11	Khordha	23	7.91	0
12	Mayurbhanj	15.1	3.17	531
13	Nayagarh	0	0	8
14	Puri	51	6	0
	Total	2475.02	301.57	824

Aerial Survey by Hon'ble Chief Minister:

- Hon'ble Chief Minister made an aerial survey of the affected areas on 27.10.2024 & on 28.10.2024 and took a review meeting with the Hon'ble Minister, Revenue & DM, Secretaries of concerned departments and Senior Officers of the State Govt. about the damages and relief measures.

Clearance of Rural Roads:

All the roads blocked due to falling of trees and debris in Balasore, Bhadrak, Kendrapada, Jagatsinghpur, Dhenkanal, Jajpur, Mayurbhanj, Keonjhar, Khordha and Puri were cleared within 48 hours with the help of NDRF, ODRAF, Fire Service and OFDC personnel.

Restoration of Power:

22,84,264 consumers were affected in Balasore, Bhadrak, Cuttack, Jagatsinghpur, Jajapur, Kendrapara, Khordha, Keonjhar, Mayurbhanj and Puri. 98 % power was restored in 4 days.

Restoration of Water Supply:

Sl.	District	No. of PWS affected	PWS operationalized through electrification	PWS operationalized through DG set
1	Balasore	1150	687	440
2	Bhadrak	380	320	60
3	Kendrapara	409	389	20
4	Jagatsinghpur	331	331	0
5	Mayurbhanj	521	520	0
6	Jajpur	464	462	2
	Total	3255	2709	522

CHAPTER – VI

IMPACT & DAMAGES

The damages caused by cyclone 'DANA' were mainly due to gusting action of wind and heavy rainfall. As per report received from Collectors, 41.23 lakh people in 11942 villages of 153 Blocks in 14 Districts have been affected. 3,62,935.37 hectares of agriculture/ horticulture crop land have been damaged. The handicraft artisans have lost their raw materials. Livestock and poultry farmers have also sustained loss. Besides, substantial damage has been caused to public properties.

Extent of Damages

Abstract of extent of damages due to Cyclone "DANA" is indicated below:

Sl. No.	Name of the district	Blocks Affected	GPs Affected	Villages Affected	ULBs Affected	Wards Affected	Population Affected
1	Angul	6	43	68	1	2	3187
2	Balasore	12	252	1836	5	93	1361856
3	Bhadrak	7	218	1243	4	79	1420499
4	Cuttack	14	373	1679	4	113	46300
5	Dhenkanal	4	17	17	0	0	0
6	Ganjam	22	74	305	18	42	16570
7	Jagatsinghpur	8	188	1050	2	40	89460
8	Jajpur	10	311	1211	2	44	58710
9	Kendrapada	9	174	1259	2	41	954201
10	Keonjhar	13	23	95	5	16	16500

11	Khordha	10	42	66	0	70	14712
12	Mayurbhanj	26	358	2627	4	27	125789
13	Nayagarh	1	12	39	0	0	5210
14	Puri	11	98	447	4	24	10888
	Total	153	2183	11942	51	591	4123882

House Damage

17 kutcha houses have been fully damaged, 82 pucca/ kutcha houses have been severely damaged due to the cyclone. Besides, 164 pucca houses and 14,458 kutcha houses have been damaged partially. Similarly, 1290 huts and 6209 cowsheds attached to houses have been damaged. The district-wise details are given under **Appendix-VII**.

Crop Damage

Total 1,78,136.53 hectare of crop area affected, out of that 87,855.47 hectare of crop area sustained crop-loss to the extent of 33% and above due to cyclone associated with heavy rain. The details are given under **Appendix-IV**.

Loss of Livestock

77 livestock and 4220 poultry birds were lost due to cyclone & heavy rain. The district-wise figures of affected livestock are given in following table.

Sl. No.	District	Livestock lost			Poultry lost
		Large	Small	Total	
1	Balasore	2	2	4	2800
2	Bhadrak	12	40	52	0
3	Jajpur	0	1	1	1420
4	Kendrapada	2	14	16	0

5	Keonjhar	2	0	2	0
6	Mayurbhanj	1	1	2	0
	Total	19	58	77	4220

Damage to Public Properties:

Loss to public properties on account of Cyclonic Storm "DANA"-2024			
Sl.	Departments	Damage Physical term/Quantity in	Total loss in terms of Rupees (Rs. in Lakh)
1	Energy Department		
	33kv pole damaged	430 Nos.	21.09
	33kv conductor damaged	435.76 kms	218.38
	33kv VCB damaged	1 Nos.	6.00
	11kv poles damaged	6216 Nos.	310.75
	11kv conductor damaged	9075.95 kms.	4537.98
	11kv VCB damaged	1 Nos.	3.00
	Distribution Transformer damaged	387 Nos.	387.00
	LT line pole damaged	9741 Nos.	487.45
	LT line conductor damaged	8106.68 kms.	4053.34
	Minor material damaged		115.00
	Civil Works		14.10
	Man, machinery etc.		427.87
	Total		10581.96
2	Fisheries & Animal Resources Department		
	Damage to fish seed & fish farm	53	3.06
	Damage to Infrastructure of ARD Sector	5 Nos.	11.00

	Total		3.06
3	Forest & Environment Dept.		
	Plantation damaged	82 projects	223.92
	Infrastructure damaged	23	32.11
	Total		256.03
4	Housing & Urban Development Department		
	Road damaged	576 No. / 98.8 kms.	4827.67
	Breaches in road	24 No. / 0.9 km	20.00
	Culverts damaged	38 Nos.	76.00
	Drain damaged	87 No. / 17.05 kms.	2022.50
	Debris cleared from roads/ drain/ public area		321.04
	Street lights damaged	391	7.70
	Other infrastructure damaged	70+33+10+7	1178.00
	Hiring of DG Set	608 Nos	178.68
	Water supply system damaged	25 Nos.	2.10
	Total		8633.69
5	Health & Family Welfare Dept.		
	Damage to CHC/ PHC/ Sub-Centre	123 Nos.	436.45
6	Handloom & Textile Dept.		
	Artisan		0.90
	Sericulture		1.40
	Total		2.30
7	Works Dept.		
	Length of Road damaged (in Kms)	283.97 Km	2555.50
	No. of CD/Bridge damaged	5 No.	53.00
	Total		2608.50

8	PR & DW Deptt		
	Length of Road damaged	15387.76 Km	9253.89
	No. of culverts damaged	233 No.	139.80
	No of Primary School buildings damaged	2354	4378.80
	No of Panchayat Ghar/ Community Hall damaged	871	1572.50
	No of Anganwadi Centres damaged	1444	2623.50
	Total		17968.49
9	WR Deptt.		
	River/Saline/Canal Embankment		
	No./ Length of breach (in Km)	104 No./0.82 KM	152.00
	No./Length of Partial damage (in Km)	240 No. / 105.62 KM	1346.50
	Clearance of Debris from Drainage	38.08 KM	50.05
	No. of MIP Damage	17 No.	286.00
	Total		1834.55
10	Rural Development Department		
	Damage to rural roads including breaches	757.122 kms.	15061.95
	Damage to CD/ Bridges	86 Nos.	2014.30
	Debris cleared on roads/ public area		29.53
	Total		17105.78
	TOTAL (PUBLIC PROPERTIES)		59430.81

CHAPTER – VII

REQUIREMENT OF FUNDS

ABSTRACT

Sl. No.	Item	Amount required/ spent (Rs. in lakh)
1	House building assistance	948.05
2	Clothing & Utensils	65.85
4	Cost of evacuation, search & rescue measure	247.461
6	Agriculture input subsidy-SMF	8292.82
7	Operation of Relief camp	2373.766
8	Replacement of milch/ draught animals/ Poultry birds	8.02
9	Assistance to Fisheries Sector	3.06
10	Assistance to Artisans	0.9
11	Assistance for Rearing loss in Sericulture	1.40
12	Immediate repair of Roads	9957.02
13	Immediate repair of CD/ Bridges	77.40
14	Immediate repair of Drains	10.23
15	Immediate repair of Water supply system	2.10
16	Immediate repair of School Buildings	4496.00
17	Immediate repair of CHC/ PHC/ SC	246.00
18	Immediate repair of GP/ PS/ Community Hall	1586.50
19	Immediate repair of Anganwadi Centres	2623.50

20	Immediate repair of Minor Irrigation	34.00
21	Immediate repair of Power Sector	9776.52
22	Hiring of DG Sets/ Clearance of Debris	1018.70
TOTAL		41769.297

CHAPTER – VIII

Status of Expenditure from State Disaster Response Fund (SDRF)

Account (as on 31.10.2024)

Year – **2024-25**

State – **Odisha**

(Rs. in crore)

Sl. No.	Item	Amount
	(I) Receipts	
1	Opening balance in SDRF account as on 01.04.2024	5214.70
	SDRF Releases made during instant financial year (Central and	
	(a) First instalment (SDRF)	
2	(i) Central share	742.80
	(ii) State share	247.60
	(b) Total (i + ii)	990.40
3	NDRF releases during the instant financial year, if any	0.00
4	Interest received on investments made	0.00
5	Total funds available in the SDRF account(1+2+3+4)	6205.10
	(II) Expenditure	
	Expenditure incurred as per norms on approved natural calamities as per the scheme of SDRF/NDRF(indicate calamity-wise expenditure)	
	(a) Cyclone	0.172
	(b) Flood	0.194
6	(c) Fire	8.486
	(d) Hailstorm	0.557
	(e) Landslide	1.960
	(f) Pest Attack	0.007
	(g) State Specific disasters	84.205
	(h) Expenditure incurred on Capacity building activities	2.008

	(i) Expenditure incurred on procurement of search and rescue equipment etc.(as per extant approved items)	167.734
	(j) Expenditure towards combating COVID-19 outbreak	0.300
7	Total expenditure incurred (a+ b+ c+ d+ e+ f + g+ h+ i+ j)	265.623
8	Balance available in the SDRF account of the instant calamity (5-7)	5939.477

CHAPTER – IX

CONCLUSION

The State took advance preparedness based on accurate early warning by IMD for management of cyclone DANA. Professionally skilled manpower with required equipment were prepositioned at strategic locations to respond the cyclone DANA. As a result of this planning, the road communication, electricity supply and drinking water supply were restored in quick possible time.

As per the assessment made by different departments and affected districts, the requirement of funds towards different relief measures and immediate repair and restoration of damaged infrastructure in admissible sectors as per the extant norms of SDRF/NDRF comes to **Rs.417.69 crore**.

The coastal Odisha is frequently affected by cyclonic disturbances originating from the Bay of Bengal which is adversely affecting the livelihood of the people and burdening the State with huge cost for restoration of the damaged infrastructure. The energy sector takes the maximum brunt of the cyclones which requires frequent and high capital investment from the State exchequer detrimentally affecting the wage and means position of the State. The State Government feels that more support is required from the Central Government for building resilience to the public infrastructure like energy and dwelling units of the poor people staying in vulnerable coastal area of the State. The saline embankments along the coastline also need to be raised and strengthened for preventing damage to agricultural fields and habitations from surge.

The Government of India may consider supporting the State Government for taking up the above disaster resilient activities.

Appendix-II

Extent of damage due to Cyclone "DANA"

State-Odisha

Sl. No.	Item	Total
1	Total number of districts affected	14
2	Total number of Blocks in the affected Districts	166
3	Number and names of Blocks affected	131
4	Number of villages affected	11637
5	Population affected (in lakh)	41.04
6	Total land area affected (in ha.)	362935.37
7	Cropped area affected (in ha)	
	i) Total cropped area affected (in ha.)	172356.81
	ii) Estimated loss to crops (Rs. in lakh)	8292.82
	iii) Area where cropped damage was more than 33%	87855.47
8	Percentage of area held by SMF	
	i) In the State as a whole	
	ii) In the affected districts	
9	House damaged	
	a) No. of houses damaged	16417
	i) Fully damaged pucca houses	0
	ii) Fully damaged kutch houses	27
	iii) Severely damaged pucca houses	2
	iv) Severely damaged kutcha houses	29
	v) Partly damaged houses (pucca + kutcha)	14622
	vi) No. of huts damaged	1290
	b) Estimated value of damage to houses (Rs. in lakh)	2100.32
10	No. of human lives lost	0
	No. of persons with grievous injuries	0
	No. of persons with minor injuries	0

11	Animal lost	
	a) No. of big animals lost	10
	b) No. of small animals lost	67
	c) No. of poultry (birds) lost	4220
12	Damage to public properties	
	a) In physical terms (sector wise details should be given – e.g. length of State roads damaged, length of districts roads damaged, length of village roads damaged, No. of bridges damaged, No. of culverts damaged, No. of school buildings damaged etc.)	
	b) Estimated value of the damage to public properties (Rs. in lakh)	59430.81
13	Estimated total damage to houses, crops and public properties (Rs. in lakh)	69823.95

Appendix-III

Assistance for provision of temporary accommodation, food, clothing medical care etc. of the people affected/ evacuated due to Cyclone "DANA" - 2024 (Operation of Relief Camps)											
Sl. No	Name of the District	Total no. of relief camps opened	Average no. (in a day) of relief camps	Average duration of operation of relief camps	Average no. of people accommodated per day in the relief camps	Expenditure incurred on (Rs. In Lakhs)					
						Temporary accommodation	Food	Clothing	Medical care	Other essential items (to be specified)	Total
1	2	3	5	6	7	8	9	10	11	12	13
1	Angul	351	32		2287	1.377	3.805	0	0	0.071	3.876
2	Balasore	1382	443	56	112861	0	368.78	0	0	27.29	396.07
3	Bhadrak	919	579	56	85177	0	398.99	0	0	214.15	613.14
4	Cuttack	748	27	38	2673	0	74.49	0	0	33.82	108.31
5	Dhenkanal	355	250	22.5	10578	2.2	32.17	0	0.35	6.24	40.99
6	Ganjam	218	87	51	13076	38	21.375	0	0	1.07	22.45
7	Jagatsinghpur	423	382	21	35007	0	60.05	0	0	23.25	83.30

8	Jajpur	993	36		51719	0	137.57	0	0	27.52	165.09
9	Kendrapara	646	34	33	91554	15.68	331.92	0	0	30.33	377.94
10	Keonjhar	296	189	35	16156	6.361	18.205	0.031	0	9.86	34.456
11	Khordha	242	82	13	13064	22.96	12.77	0	0	1.18	36.904
12	Mayurbhanj	1042			109590	27.85	311.30	0	0.4	116.96	456.50
13	Nayagarh	73	73		5210	3.42	8.9	0	0	1.375	13.7
14	Puri	225	225	19	10888	0	15.96	0	0	5.084	21.04
Total		7913	2439	344.5	559840	117.848	1796.285	0.031	0.75	498.2	2373.766

Appendix-IV

Agriculture/ Horticulture crop loss and fund required for input subsidy due to Cyclone "DANA" - 2024											
Sl. No.	Name of the District	Total agriculture/ horticulture crop area affected (in Ha.)	Total agriculture/ horticulture crop area where crop loss is >33% (in Ha.)	Total area under crop loss of 33% & above (area in Ha.)				Agriculture input subsidy required (in Lakh)			
				Rainfed	Irrigated	Perennial	Total	Rainfed @ 8500/- per Hect.	Irrigated @17000/- per Hect.	Perennial @ 22500/- Per Hect.	Total fund required in Lakhs
1	2	3	4	5	6	7	8	9	10	11	12
1	Angul	0	0	0	0	0	0	0	0	0	0
2	Balasore	33890	3913	1591	2282	40	3913	135.235	387.94	9	532.175
3	Bhadrak	94136.87	60520.54	53436.72	7042.52	41.30	60520.54	4542.1212	1197.2284	9.29250	5748.6421
4	Cuttack	0	0	0	0	0	0	0	0	0	0
5	Dhenkanal	0	0	0	0	0	0	0	0	0	0
6	Ganjam	0	0	0	0	0	0	0	0	0	0
7	Jagatsinghpur	0	0	0	0	0	0	0	0	0	0
8	Jajpur	20294.73	17798.73	17798.73	0	0	17798.73	1512.89205	0	0	1512.89205
9	Kendrapara	19184.41	5044	5007	0	47	5054	425.595	0	10.575	436.17

10	Keonjhar	5779.72	0	0	0	0	0	0	0	0	0	0
11	Khordha	0	0	0	0	0	0	0	0	0	0	0
12	Mayurbhanj	4850.80	569.20	398.60	169.60	1	569.20	33.881	28.832	0.225	62.938	
13	Nayagarh	0	0	0	0	0	0	0	0	0	0	
14	Puri	0	0	0	0	0	0	0	0	0	0	
Total		178136.53	87855.47	78232.05	9494.12	129.3	87855.47	6649.72425	1614.0004	29.0925	8292.81715	

Appendix-VI

Assistance required towards replacement of animals lost due to Cyclone "DANA" - 2024																	
Sl. No	Name of the District	No of Livestock / Birds lost					No of animals qualifying for relief grant (i.e., subject to ceiling of 3 large milch animal or 30 small milch animals or 3 large draught animal or 6 small draught animal per household					Expenditure incurred (Milch animals- @ Rs.37500 for large animal , Rs.4000 for small animals & Draught animals- @ Rs 32,000 for large animal, Rs. 20000 for small animals)				Poultry @ 100/- per bird subject to a ceiling of assistance of Rs.10000/- per beneficiary household.	Total fund required in Rs.
		Milch Animal		Draught Animal		Poultry Birds	Milch Animal		Draught Animal		Milch Animal		Draught Animal		Amount required (12+13+14+15+16)		
		Buffalo / Cow	Sheep / Goat	Camel/ Horse/ Bullock	Calf/ Don key/ Pony	Buffalo / Cow	Sheep/ Goat	Camel/ Horse/ Bullock	Calf/ Donkey / Pony	Buffalo / Cow	Sheep/ Goat	Camel/ Horse/ Bullock	Calf/ Donkey / Pony				
		3	4	5	6	7	8	9	10	11	12	13	14	15			
1	2													16	17		
1	Angul	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2	Balasore	1	2	0	1	2800	1	2	0	1	37500	8000	0	20000	10000	75500	

3	Bhadrak	6	40	0	6	0	0	0	6	40	0	0	0	120000	0	505000
4	Cuttack	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Dhenkanal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Ganjam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Jagatsinghpur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Jajpur	0	1	0	0	1420	0	1	0	1	0	4000	0	10000	14000	14000
9	Kendrapara	1	14	0	1	0	1	14	0	1	37500	56000	0	20000	0	113500
10	Keonjhar	1	0	0	1	0	1	0	0	1	37500	0	0	20000	0	57500
11	Khordha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Mayurbhanj	0	1	1	0	0	0	1	1	0	0	4000	32000	0	0	36000
13	Nayagarh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	Puri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total		9	58	1	9	4220	9	58	1	9	337500	232000	32000	180000	20000	801500

Appendix-VII

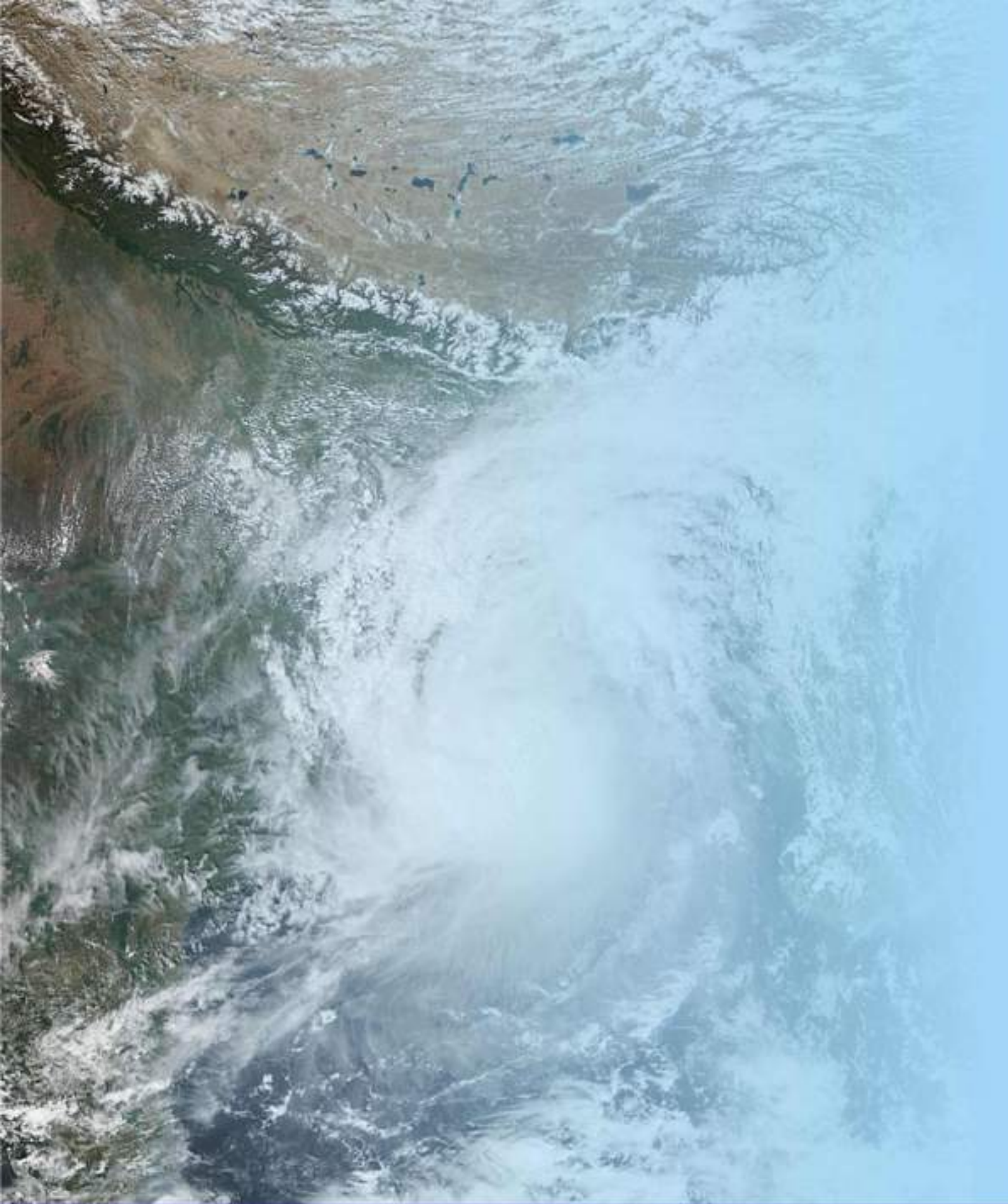
Assistance required towards repair /restoration of damaged houses (in Rs.) due to Cyclone "DANA" - 2024																				
Sl. No	Name of the District	Fully damaged		Severely damaged		Total fully/ Severely damaged pucca/ kutcha house				Partially damaged				Hut damaged		Total		Cow shed damaged		Grand total
		Pucca house	Kutcha house	Pucca house	Kutcha house	No. of house damaged	Fund required @ Rs.120000/- or Rs.130000/- per house	Pucca house	Funds required @ Rs.6500/- per house	Kutcha house	Funds required @ Rs.4000/- per house	No. of hut	Funds required @ Rs.8000/- per hut	No. of house damaged (7+9+11+13)	Funds required (8+10+12+14)	No. of cow shed	Cow Shed Damaged @ Rs.3000/- per cowshed	Funds required (16+18)		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
1	Angul	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2	Balasore	0	18	1	0	19	2280000	40	260000	2539	10156000	203	1624000	2638	14320000	618	1854000	16174000		
3	Bhadrak	0	1	0	16	17	2040000	115	747500	7539	30156000	736	5888000	8407	38831500	3948	11844000	50675500		

Appendix-VIII

Format for working out the requirements under the head of repair of damaged infrastructure of immediate nature.

Requirement of funds under the head of repair of damaged infrastructure of immediate nature due to Cyclone "DANA " -2024 (Rs. in Lakh)									
Sl. No	Sector	Items	Damage in physical terms (Kms/ Nos. etc.)	Actual damage accessed (Total damage in Lakh Rs.)	Requirement of funds for repair of immediate nature	Out of (6), amount available from annual maintenance budget	Out of (6), amount available from related schemes/ programs/ other sources	Out of (6), amount proposed to be met from SDRF/NDRF	
1	2	3	4	5	6	7	8	9	
1	Road & Breaches	GP/ PS Road damaged	15387.76 kms.	9253.89	9253.89	0.00	0.00	9232.66	
		PWD Road damaged	283.97 kms.	2555.50	869.76	0.00	0.00	170.38	
		Rural Road including breaches damaged	757.13 kms.	15061.95	7061.32	0.00	0.00	454.28	
		Urban Road damaged	99.7 kms.	4847.67	4847.67	0.00	0.00	99.70	
		Total		31719.01	22032.64	0.00	0.00	9957.02	
2	CD/ Bridges damaged	CD/ Bridges damaged/ washed away in PWD roads	5 Nos.	53.00	27.00	0.00	0.00	3.00	
		CD/ Bridges damaged/ washed away in rural roads	86 Nos.	2014.30	1229.50	0.00	0.00	51.60	
		Culvert damaged in urban roads	38 Nos.	76.00	76.00	0.00	0.00	22.80	
		Total		2143.30	1332.50	0.00	0.00	77.40	
3	Drain damaged	Drain damaged of PWD Dept.	0 Kms.	0.00	0.00	0.00	0.00	0.00	
		Drain damaged of H & UD Dept.	17.05 Kms.	2022.50	2022.50	0.00	0.00	10.23	
		Total		2022.50	2022.50	0.00	0.00	10.23	

4	Water Supply System damaged	Rural Water Supply System damaged	0 Nos.	0.00	0.00	0.00	0.00	0.00	0.00
		Urban Piped Water Supply System damaged	25 Nos.	2.10	2.10	0.00	0.00	0.00	2.10
		Tube Well/ Plat form damaged in urban area	0 Nos.	0.00	0.00	0.00	0.00	0.00	0.00
5	School Buildings	Total		2.10	2.10	0.00	0.00	0.00	2.10
		Pry./ Sec. School buildings damaged	2413 Nos.	5141.80	5141.80	0.00	0.00	0.00	4496.00
6	Community Health Center	Total		5141.80	5141.80	0.00	0.00	0.00	4496.00
		PHC/CHC/SC/DHSs damaged	123 Nos.	436.45	436.45	0.00	0.00	0.00	246.00
7	Community Buildings/ Assets/ AWC damaged	Total		436.45	436.45	0.00	0.00	0.00	246.00
		GP/PS Building & community hall damaged	878 Nos.	1592.50	1592.50	0.00	0.00	0.00	1586.50
		Anganwadi centres damaged	1444 Nos.	2623.50	2623.50	0.00	0.00	0.00	2623.50
8	Minor Irrigation sector	Total		4216.00	4216.00	0.00	0.00	0.00	4210.00
9	Power Sector damaged	Minor Irrigation Projects damaged	17 No.s	286.00	87.50	0.00	0.00	0.00	34.00
		11 KV Transformer damaged	0 Nos.	0.00	0.00	0.00	0.00	0.00	0.00
		11 KV Poles damaged	6216 Nos.	310.75	310.75	0.00	0.00	0.00	310.75
		11 KV conductor damaged	9075.95 kms.	4537.98	4537.98	0.00	0.00	0.00	4537.98
		Distribution Transformer damaged	387 Nos.	387.00	387.00	0.00	0.00	0.00	387.00
		LT line poles damaged	9741 Nos.	487.45	487.45	0.00	0.00	0.00	487.45
		LT line conductor damaged	8106.68 kms.	4053.34	4053.34	0.00	0.00	0.00	4053.34
		Total		9776.52	9776.52	0.00	0.00	0.00	9776.52
		Grand Total		55743.68	45048.01	0.00	0.00	0.00	28809.26



SPECIAL RELIEF COMMISSIONER

**Revenue & Disaster Management Department
Government of Odisha**