

LESSONS LEARNTCYCLONE AMPHAN:
LOCAL LEVEL RESPONSE AND
CHALLENGES CAUSED BY COVID19INDIA EXPERIENCE



Cyclone Amphan



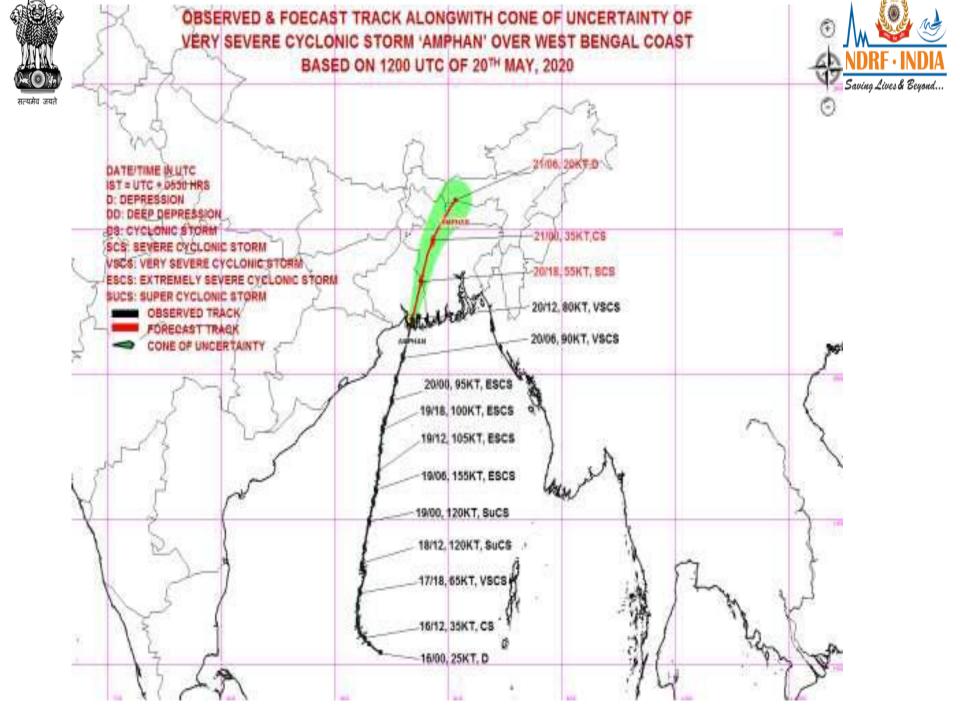
- ➤ It was the strongest cyclone to strike the Indian coast since the 1999 Odisha Super cyclone. The name 'Amphan' was given by Thailand.
- ➤ Initial forecast issued by **IMD** on **13.05.2020**.
- ➤ Intensified from a low-pressure area formed 300 km east of Colombo, Sri Lanka, on 13 May 2020.
- ➤ NDRF Battalions were alerted and the situation was monitored. Rescue teams were pre-positioned.
- ➤ Monitoring at highest level- First NCMC held on 16.05.2020.



Cyclone Amphan



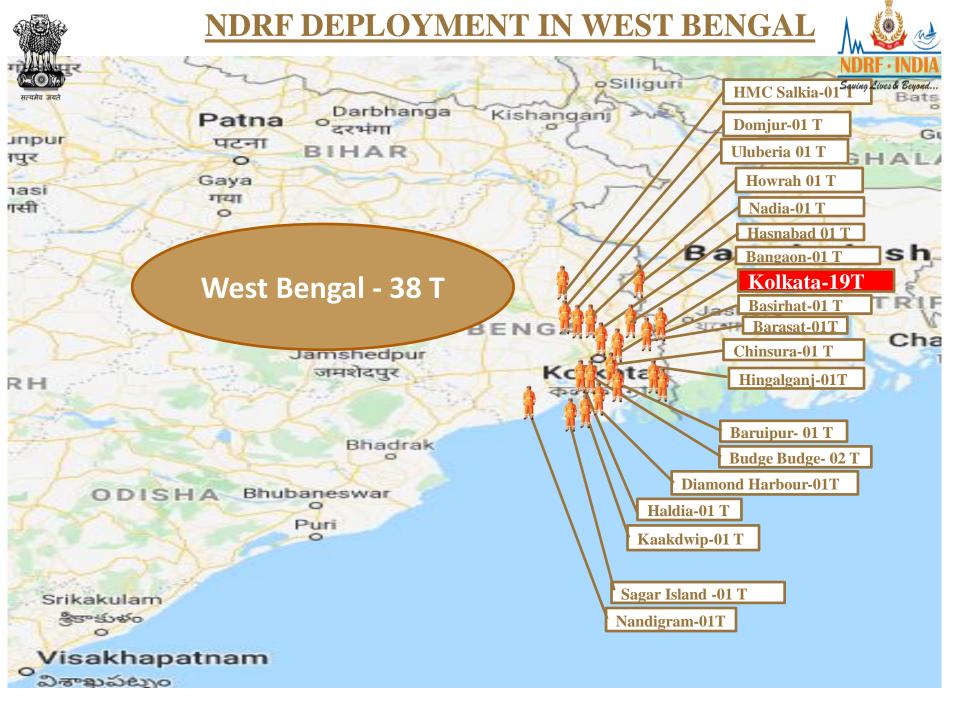
- On 17 May, **Amphan** underwent rapid intensification and became an extremely severe cyclonic storm within 12 hours and subsequently into Super cyclone (wind speed 222 kmph).
- ➤ On 20th May 2020 landfall process began as extremely severe cyclonic storm near Sunderbans in West Bengal at 1430 Hrs and completed by 7 pm.
- ➤ The Coastal areas in West Bengal (E/Midnapur, 24 Parganas (N & S), Kolkata, Hooghly, and Howrah as well as the coastal areas of Odisha were severely affected by the cyclone. It also caused significant destruction in Bangladesh.

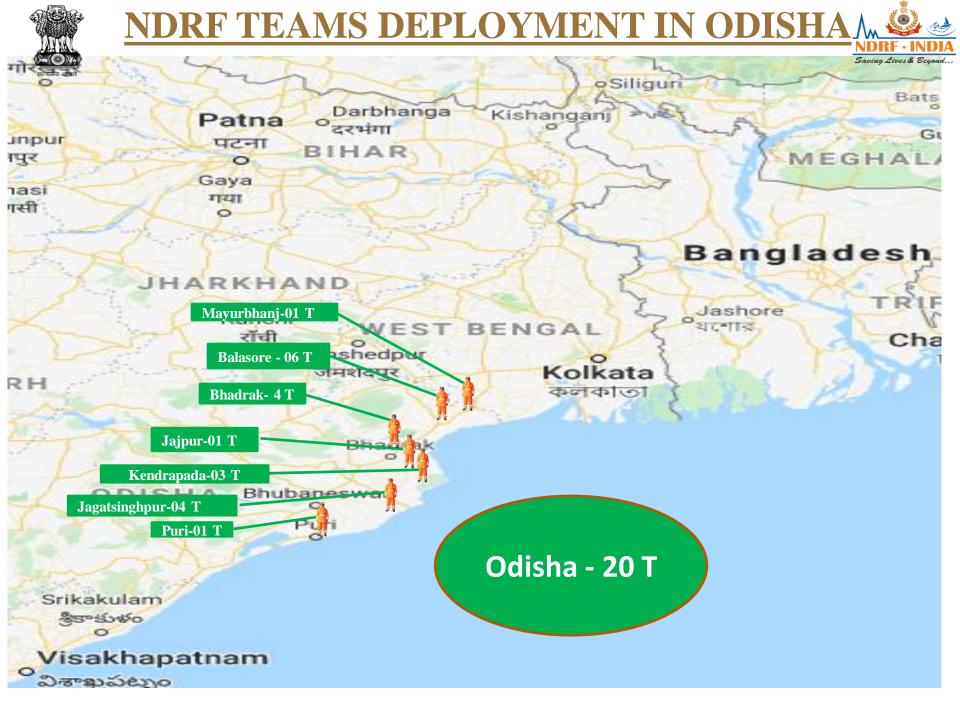






- ➤ Prior to the landfall, NDRF teams started **Awareness Campaign** and assisted State administration in evacuation.
- ➤ Post land fall, NDRF, SDRF and other stakeholders started response on 20th May afternoon itself in Odisha and 20th May evening in West Bengal as soon as the weather situation permitted.
- ➤ 20 NDRF, ODRAF and local agencies were engaged in the affected districts of Odisha.
- ➤ 38 NDRF teams, SDRF and local agencies were engaged in restoration work in the affected districts of West Bengal.













EVACUATION DURING "CYCLONE AMPHAN"



States	People Evacuated
West Bengal	8,13,092
Odisha	2,37,296



RESTORATION WORK IN WEST BENGAL







RESTORATION WORK IN ODISHA





RESTORATION WORK IN WEST BENGAL



PURANA DAD ROAD WARD NO 87,KMC KOLKATA









WARD NO -33,108 CIT ROAD, SCHEME IV, KOLKATA







SOUTHERN AVENUE ROAD KMC KOLKATA







WARD NO 112-PATULI KMC KOLKATA





TENTULIA - SWARUPNAGAR ROAD, BASIRAHAT, NORTH 24 PGNS





SAWAROOP NAGAR BASHIRHAT DIST NORTH 24 PGS









RESTORATION WORK IN ODISHA







SUMMARY OF RESTORATION WORK IN WEST BENGAL

I. Live stock - 7650 Nos.

II. Trees Removed - 7392 Nos.

III. Electric Pole removed - 1150 Nos.

IV. Road cleared - 3152.5 Kms.

SUMMARY OF RESTORATION WORK IN ODISHA

I. Trees Removed

- 515 Nos.

II. Electric Pole removed

- 30 Nos.

III. Road cleared

- 354.5 Kms.

PLANNING

- > A close watch was kept over both the Cyclonic systems.
- Coordination.
- ➤ All teams had multilayered communication system.
- Teams were equipped with tree cutters/pole cutters for post land fall restoration.
- ➤ In view of the current COVID-19 scenario, all teams were reoriented for facing dual challenge and also equipped with PPE etc.



COVID-19: ABCD ANALSIS AND PREPAREDNESS BY NDRF



A

(Neck above & hand protection)

- Head cover (water proof)
- Googles/visor
- Masks (water resistant)
- Gloves (skin tight upto wrist/elbow)

B

(Hip above protection)

Good quality light water/ wind proof jacket with hood which can be easily washed/ disinfected

(Full body protection)

Full water/rain proof two piece suit – (with hood)

D

(Hygiene & sanitation)

- Hand sanitizers
- Area disinfectants
- Masks for rescued civilians during evacuation
- Medicines for own troops



PLANNING



- ➤ Public safety guidelines in view COVID-19 Pandemic scenario.
- ➤ Representatives of NDRF were placed at SEOC for smooth flow of information.
- Tac HQ was established at Kakdwip (West Bengal) for Cyclone Amphan for coordination & supervision of NDRF teams.
- ➤ Briefing of Do's, don'ts to Officers & all the Team Commanders by the Unit Commandant.
- > Availability of rain coat with each rescuer was ensured.
- > Portable lighting systems.



EXECUTION OF OPS



- Entire affected area was divided into zones and subzones for the purpose of response.
- > Evacuation measures.
- > Search & rescue, clearance of uprooted trees & damaged electric poles.
- > Restoration of electricity.
- > Clearing of main highways/link roads.
- ➤ De-mobilisation.



CHALLENGES



- > Evacuation issues.
- ➤ Provisions at cyclone shelters / evacuation centers keeping in view the COVID advisories about physical distancing & should also have quarantine facility.
- Lack of COVID-19 safe accommodation.
- Requirement of large no. of evacuation centers and vehicles for mass evacuation.
- Disrupted communication network
- > Speedy and timely assistance to the affected & needy people.



CHALLENGES



- Continued adverse weather conditions.
- > Operations in confined space.
- ➤ Prolonged duration of ops. Hardly any rest & relief for the responders and stakeholders.
- ➤ COVID-19 infection to responders and stakeholders during operations (including 74 NDRF personnel).
- Maintaining the high moral of responders and stakeholders during odd situations and extended ops durations.



LESSONS LEARNT



- COVID-19 pandemic.
- The importance of equipment spare parts and field workshop.
- Tailor-made training on COVID-19.
- Regular briefing and debriefing paid dividends.
- Community involvement.
- > Coordination- both at macro and micro level.
- Homogeneity between central, state and local agencies
- > Effective media and social media management.
- ➤ India's preparedness and EWS contained the loss of lives to just double digits.



Nonk You.