

Cyclone Tauktae Response Report

8th June, 2021

Cyclone Tauktae

A low-pressure area was formed over southeast Arabian Sea on 13th May morning, which subsequently intensified into Extremely Severe Cyclone on 17th May. The landfall process started on 17th May evening continued till 18th May. It made a landfall on the Gujarat coast in Una Taluka east of Diu at 2030 hours with a maximum sustained wind speed of 150-175 kmph. It crossed Gujarat and Diu coasts in the morning, further started to weakened into well marked low pressure in evening of 19th May. IMD issued last bulletin pertaining to this system on 19th May 2021 at 19:45 hrs. Winds have ravaged coastal areas in the western state of Gujarat, uprooting trees and electricity poles. About 200,000 people were evacuated across several states as the cyclone approached. The districts of Junagadh, Gir-Somnath, Bhavnagar, and Amreli were battered by heavy rainfall and winds up to 100 km/h (62 mph). Ahmedabad recorded 114 mm (4.5 in) of rainfall within 24 hours, nearly breaking a rainfall record of 138.3 mm (5.44 in) which was recorded on May 9, 1982.

Damages

NO. OF DISTRICTS AFFECTED – 23
NO. OF VILLAGES AFFECTED – 4619
TOTAL POPULATION AFFECTED – 1,17,11,000
HUMAN LIVES LOST – 64 (TREE FALLING-06, WALL COLLAPSE-33, BUILDING COLLAPSE- 10, LIGHTING 06, CEILING FALLING-06, TOWER FALLING-01, POWER POLE-02,)
INJURED- APPROX. 200
HOUSE DAMAGED - KUCHCHA – 93231 AND PUCCA- 1593
LOSS OF LIVESTOCK – 3090
NO. OF PERSONS EVACUATED – 2,38,808
CROP AREA AFFECTED - HORTICULTURE AND SUMMER CROPS WERE DESTROYED IN 2 LAKH HECTARES IN 86 TALUKAS OF THESE NINE DISTRICTS
INFRASTRUCTURE DAMAGED - ELECTRIC POLE-104024 FALLEN TREE- 91400 ROAD DAMAGE-1262
GOVT BUILDING – 543

In terms of damage, the most affected districts are Amreli (Rajula and Jafrabad Talukas), Gir-Somnath (Una and Gir Gadadha Talukas) and Bhavnagar (Mahuva and Gogha Taluka). A large number of kutchha houses, mobile towers and electricity poles were destroyed. 2101 street light posts were damaged due to falling of trees and heavy wind velocity. The damage sustained in the power supply sector left many villages in the dark and as a result of power

outage, there are issues in the supply of water as well. By 19 May, mobile phone networks were still down in several areas after the storm hit the state. Several villages had been cut off due to damage to roads. Over 1200 roads were damaged and many villages were still isolated due to the road damage till beyond two weeks since the cyclone. In terms of infrastructure, minor damages were also reported for 130 Covid hospitals in 5 worst affected districts. The agricultural and horticulture crops have also been severely affected. The summer crops have been damaged, especially those that are standing. Kesar mango plantations in Gir Somnath and Junagadh bore the brunt of the storm along with coconut and banana plantations from other affected districts. In the animal husbandry sector, 7974 livestock have been lost owing to the cyclone.

Government Response

On 19th May, 2021, Prime Minister Narendra Modi also visited Gujarat and Diu to take a stock of the damages. PM Modi proceeded with an aerial survey in Bhavnagar, Una, Diu, Jafraabad and Mahuva. The Prime Minister announced financial assistance of Rs 1000 crore for immediate relief activities in Gujarat. Ex-gratia of Rs 2 lakh would also be given to the next of kin of those who lost their lives due to Cyclone Tauktae while those who are injured would get Rs 50,000 in all the affected states. CM Rupani assured the affected households that the government will provide assistance in repairing the houses damaged by the cyclone. He directed the officials to ensure the affected people get rooftops and other building materials at proper prices. In order to address the problems being faced by fishermen, he assured them of the state government's assistance in repairing the damaged boats, and cash doles immediately as a means of their livelihood. Apart from this, NDRF has been involved in clearing debris and fallen trees to make roads functional again.

On 2nd June, 2021, the Chief Minister announced a relief package of Rs.105 Crore for the rehabilitation of fishermen and seafarers that has been affected by Cyclone Tauktae. This is the first time in Gujarat that a relief package was assigned for the damages faced by fishermen and seafarers. This relief package provides monetary assistance in case of damage to fishing equipment. It also has scope for loan with interest subsidy and input subsidy. Apart from this, large-scale structural damages to fishing ports at Jafraabad, Nawa Bandar, Syed Rajpara, Shiyalbet will also be repaired.

Gir Somnath-

- A joint team of Forest & Panchayat conducted a survey to assess the losses of Maldharis in six forest Ranges of Gir Gadhada in GirSomnath's jurisdiction of the Gir jungle. 105 families were surveyed. Compensation to these families is to be planned and provided. Forest Dept was also mobilising fodder for cattle. Therefore, in coordination with the Mamlatdar of Gir Gadhada, trucks full of fodder were mobilized and sent for the Maldharis in the above mentioned six forest ranges of Gir Gadhada.
- After a review of the post-cyclone response by Minister Jayesh Radadiya, instructions were given to complete the process of payment of assistance for housing, agriculture, horticulture and animal husbandry on a priority.
- Maximum impact of the winds from the cyclone was on electric poles, wires and substations of Una Taluka. The electricity supply department has been working since then to restore the electric supply of the entire region. By 7th June, GETCO and PGVCL has restored the functioning of all the substations, wires and electric poles in all the villages of Una and Gir Gadhada.

Amreli-

- On 30th May, ARTO Amreli under the guidance of District Collector distributed 240 ration kits, comprising 5kg potatoes, 4kg onions & 5kg flour, to several households affected by the hurricane in Jafrabad taluka.
- PGVCL has been working in three talukas- Savarkundla, Rajula and Jafrabad to restore the supply of electricity. By now, the entire town of Rajula has been provided with power. In the taluka, a few areas are left where work is going on. Power supply in the entire taluka of Savarkundla has already been restored. PGVCL had prepared a proper timeline for the restoration of power supply in Amreli and they have been before time in their response.
- The work of distributing cash doles has been completed in Savarkundla. Eight teams in the taluka were engaged for this and the provided cash doles to 724 adults and 387 minors, across 266 families, which amounted to Rs. 2,86,860.

IAG Gujarat Response

IAG Gujarat along with its partners Human Development Resource Centre (HDRC), Sikhan Samaj Kalyan Kendra (SSSK), Utthan, Aga Khan Agency for Habitat, Bhagirath Kelvani Mandalay conducted the JRNA to assess urgent need of community related to Food, Health,

Shelter, WASH, Protection. Many members initiated the response as per identified needs across the mentioned sectors. Apart from the NGOs, several residence welfare association groups and community groups also came forward to provide food support. Most of the time, after evacuation of population to cyclone shelters, one of the main needs is cooked food. This need is often fulfilled by such welfare and community groups.

After the JRNA, based on the needs and impacts identified, a response strategy for NGOs was prepared. At the same time working groups for each of the districts was also created. Regular coordination meetings were conducted with IAG members and other NGOs working in the areas-

- 17th May, before the cyclone made landfall- to understand preparedness by NGOs. NGOs from all affected districts attended the meeting. The possible impacts and related preparations were discussed.
- 18th May- to discuss the damages by the cyclone and emerging needs. The purpose of IAG is to have a coordinated NGO response strategy and plan, which was done for Cyclone Tauktae.
- 31st May- to discuss response by the NGO partners and further action points for the early recovery phase.

IAG Gujarat was continuously in contact with the taluka and district officials to understand preparedness and response being initiated by the government. This way, a coordination mechanism was set-up. Updates on emerging needs were coming from the district officials based on which, NGO response was being planned.

The actions taken by the NGOs for response to Cyclone Tauktae affected districts are-

Gir Somnath and Junagad

Shelter- temporary shelters became imperative post the cyclone for a majority of the affected families. NGOs were involved in procurement and distribution of tarpoline sheets. 550 tarpoline sheets were distributed in the district. 1000 shelter kits were distributed in Gir Somnath's most affected villages.

Food and Ration- ration had been damaged in most households due to wind and water. The emerging needs as shared by the district officials was also that of food and ration. 19500 ration kits were distributed through local partners and NGOs. 4500 Nutrician kits for Children has been planned and will be distributed in next week by members.

Water- water for drinking was a scarce commodity post the cyclone due to the power outage. 15 water tankers were provided in the Gir gadhda and Una taluka for fetching water and supply to villages. Members also facilitated 15 DG to villages for water supply.

Women and Children- 4500 child nutri-kits were distributed. Women-led initiatives have also been greatly encouraged in the aftermath of the cyclone. In Junagad, women groups made and supplied 5000 packs of mango pickle, made from mangoes fallen in the cyclone. Women SHG federation formed by Ambuja cement foundation has provided Rs. 15,00,000 of subsidised loan to the affected SHG member families. Local social capital developed under women groups are instrumental in immediate relief and family care.

Health, Hygiene and COVID- 10 kg oxygen bottles were provided to 2 CHCs and 11 PHCs along with COVID kit (basic medicines, mask, sanitizer, PPE kit, oximeter and thermo gun). 1000 hygiene kits were also distributed.

Livelihood- Agriculture, horticulture, fishery and animal husbandry faced the maximum impact in terms of livelihood. Revival of 1500 horticulture plantations in Gir Somnath is underway. Animal healthcare support was also provided in 100 villages for cattle.

Supporting government response- while there are many NGOs that are involved in the response for Cyclone Tauktae, the government had also released cash doles and other compensations for affected families. Facilitating the process for acquiring the compensations was an obstacle for the families. NGOs were therefore, also assisting in damage assessment and preparing a case for compensation release as per the State and National Disaster Response Fund guidelines across 300 villages.

Amreli

Shelter- temporary shelter support was provided by NGOs. 1500 tarpoline sheets were distributed. Shelter kits comprising tiles, sheets and repairing material was provided to 2200 households in Rajula. A relief kit of basic household necessities was also provided to 2680 households. 2600 HHs were supported with Mangalore tiles were also provided.

Food and Ration- several organizations were also supporting with cooked food packets. 2900 food packets were distributed to the most affected in Amreli. Apart from this, food kits were provided to 6500 ration kits.

Water- 12villages were supported with drinking water supply through tankers and 18 DG sets were facilitated for power to get water from borwell.

Women and Children- 3000 child recreation kits were distributed. 800 widows of 14 villages were identified and supported through Mangalore tiles for roof repair. Apart from this, 800 kitchen garden seed kits were supplied to widow families.

Livelihood- Agriculture, horticulture, fishery and animal husbandry faced the maximum impact in terms of livelihood. Support to animal husbandry was provided by facilitating 242 animal insurance claim settlements.

Supporting government response- NGOs in Amreli facilitated damage assessment across 25 villages for ease of compensation roll out.

Bhavnagar

Shelter- 800 families are to be provided with shelter material support.

Food and Ration- ration kits were distributed to 2700 Hhs.

Water- 25 villages of the district were provided with drinking water. 12 villages were also provided generators to operate the water power pumps.

Women and Children- SHGs in the district have actively been providing support to NGOs. They provided JCB, tractors and other machinery support for infrastructure repair. They have also been monumental in catering to the domestic needs of affected population.

Livelihood- in agriculture, 150 families were provided with seed support and 200 of the most affected families were supported with kitchen gardens. Animal rearers were also supported by providing fodder to 100 families.

Details of the actions taken by NGOs for cyclone response can be found in the table (table1) attached in Annexure1 of the document.

Emerging Needs

While much has been done in terms of food, health, hygiene, shelter, etc., there is still a shortage of basic necessities such as food grains, water, basic hygiene products, products for child care, etc. Need for ration kits, hygiene kits, shelter kits and women and children support

kits is still existing. Till regular structures and services like PDS is not revived, these needs will keep emerging.

Annexure 1

Table 1: Response by NGOs in the Cyclone affected districts in Gujarat

No.	Name of Organisation	Key Person Contact Number	Taluka & District	Thematic strength	Post-cyclone
Gir Somnath and Junagadh					
1.	Human Development Resource Centre (HDRC)	Alice Morris 9825311422	Gir Somnath and Junagadh	Public awareness for precautionary measures on large scale in rural areas.	<ul style="list-style-type: none"> • Rapid Need Assessment in 23 villages covering 115 households to identify immediate needs • Shadow mapping of damage assesment for compansation of vulnerable families in 116 villages of 5 talukas of district • Provide 550 Tarpoline and 700 Food kits most vulnerable in Gir Somnath • 4500 ration kit for 21 dyas of ration and 4500 child nutrician kits are santioned and delivered soon • Women groups of Junagadh has prepared picckle out of mango fallan in cyclone and supply 5000 packs to Gir somnath. • Oxygen bollted of 10 kgs provided to 2 CHCs and 11 PHCs along with basic medicins, mask, sanitizer, PPE kit oxymeter, thermo gun etc. • Information dissemination- provision of damage assessment and compensation according to NDRF and SDRF covering 5 talukas of that area in 150 villages
2.	Ambuja Cement Foundation	Dalsukh Vaghshiya 9724328667	Coverage of 250 villages in Gir Somnath and Amreli	Relief distribution, shelter repairing, agricultural input, animal husbandry revival, water,	<ul style="list-style-type: none"> • Ambuja foundation campus provided to the horticulture and agriculture department for survey and assessment- logistic support including accommodation, food, transportation • 4 water tankers provided to Gir somanath for drinking water • 2500 Ration kit distributed in Gir Somnath. Initiated by local SHG federation of women. • Solar lights/panels- technical team sent for repair. 154 solar lights

No.	Name of Organisation	Key Person Contact Number	Taluka & District	Thematic strength	Post-cyclone
					<p>repaired mobile chargers also installed with it.</p> <ul style="list-style-type: none"> • 250 solar lanterns distributed through local APM Terminal network. • Conducting damage assessment in their field area-50 villages in Kodinar and Una- ocus on agriculture and horticulture damage.
3.	Action Aid Gujarat	Sushila Prajapati 9925610621	Gir Somnath and Amreli (Coastal talukas)	Humanitarian response and Human Rights	<ul style="list-style-type: none"> • Relief to 1000 households in Jafrabad and Rajula- support in ration kits, hygiene kits, temporary shelter kit • Also planning a second relief to 2000 households.
4.	AKRSP Gadu		Coverage- 150 villages in Junagad and Porbandar and some parts of Gi Somnath	Shelter repairing, accessing government entitlements.	<ul style="list-style-type: none"> • Talala- in 36 villages of their field area- intensive need assessment conducted for short and long term recovery- focus on agriculture based recovery • 150 villages- damage assessment for NDRF SDRF compensation- on housing, agriculture, animal husbandry, household utensils- conducted through their village committees. Listing completed to facilitated compensation. • Long term- destroyed horticulture plots to be revived for the coming agriculture season. 150 such plantations
5.	Goonj Gujarat Unit	Jigisha Maheta 8826386660	Gir Somnath and Amreli (Coastal talukas)	Humanitarian response and development	<ul style="list-style-type: none"> • Relief support – Food kit of 18 Kg. to most affected coastal area of 6000 families.

No.	Name of Organisation	Key Person Contact Number	Taluka & District	Thematic strength	Post-cyclone
6.	Agha Khan Agency for Habitat	Ali Nawaz Nanjee 9898409899	Gir Somnath	School and child care Food and non-food relief and relief camp. Awareness and technical services	<ul style="list-style-type: none"> • Deployed trained rescue teams at 3 strategic locations at Una Kodinar and Verval and Rajula • Rescue and first aid • Distribution of 600 kits to the affected households in Una, Kodinar, Jafrabad, Rajula • First hand damage assessment by their team in 50 villages
7	BAIF	Bachubahi Gohil 6353694848	Gir Somnath		Post cyclone animal health and care support provided in 100 villages through 17 cattle breeding center in Gir somnath, Junagadh and Porbandar
8	Vivekanand Research Training Institute (VRTI)	Yogesh Trivedi 9428967424	Amreli, Gir Somnath and Bhavnagar	Shelter and Fodder	Shelter and fodder support in the Nesda (Settlements in Gir forest)
Amreli					
1.	Sikshan Samaaj Kalyan Kendra	Dhirubhai Vagadiya 9427280028	In Amreli- 7 talukas- presence in around 150 villages	Relief Coordination, shelter repairing management, availing public entitlements, agriculture.	<ul style="list-style-type: none"> • Damage and need assessment in 25 villages intensively • Damage compensation by NDRF SDRF to be facilitated in in their villages • Through Local Farmer Community groups- providing initial relief and ration support to most affected families in the villages- provided more than 200 kits

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2.	Reliance Foundation	Bharat patel 9724849464 Gajera	Amreli	Relief distribution, shelter repairing, agricultural input, animal husbandry revival, water	<ul style="list-style-type: none"> Information vertical of RF- providing ration kits to Gir Somnath with help of local partner kodhaldham- 1000 kits. Planning 2nd level relief- tarpoline sheets for housing damage to coastal houses in Amreli and Gir- 500 sheets.
3.	Jamiyat Ulema E Hind, Kutch	Jabbirbhai 9574895541	Rajula Amreli	Shelter support	<ul style="list-style-type: none"> Shelter support (Tiles, sheets, and repairing) 1500 Hhs in Rajual town and villages, including contrition of 50 new houses
4	Red Cross Gujarat	Suresh Gami 9426182556	Have centres in Gir Somnath, Amreli, Bhavnagar and Botad	Humanitarian aid response, Rescue and First aid	<ul style="list-style-type: none"> Team provided rescue support in all locations of their presence Removal of fallen tree, debris In all 4 locations (Amreli, Bhavnagar, Gir somnath and - 2900 cooked food packets distributed to most affected persons First round relief—2680 initial relief kit (tarpoline sheet, toiletrie including bucket, saree, kitchen utensils) Proposal for 2nd level relief in all 4 locations for 5000 households made
5	Swadeep	Kalyan Dangar	Rajula Jafrabad and Mahuva in Bhavnagar	Education, Children and women	950 Food kit and 150 tarpaulins shred with most affected persons partners. With support of APM terminal supported 140 HHs by supply of manglore tiles in Shiyalbet area of Rajula. 30 Utensil kit s provided to families who does not have enough

No.	Name of Organisation	Key Person Contact Number	Taluka & District	Thematic strength	Post-cyclone
					for cooking. 3000 recreation children kit will be provided in this week. As schools reopen, the Para teachers are covering 2500 children in sheri shiksan (education in small groups of 5 students at home streets) in the Rajula taluka. 250 Solar lantern supplied to the families who do not have electric support till date.
6	BAIF	Tejalal Solanki 8780538318 Jigna Joshi 9904145989	Rajula	Animal health Care	300 HHs Food grain kit, 200 water cleaning support from CSPC 242 Animal insurance claim settlement Initiated Health care of injured and other health issues in 30 villages of Rajula and Jafrabad with support of Pipavav port
7	Anarde Foundation	Chandu Raiyani 9099048102	Rajula and Jafrabad	Food and non food relief	Ration kit support to 400 HHs in Rajula and water supply support
8	Gujarat Heavy Chemical Limited (GHCL)	Ramesh Makwana 9978955605	Rajula and Jafrabad	Food and water and agriculture	Ration kit supported in 1200 HHs in Rajula and Jafrabad. , 6 villages supported with drinking water supply through tanker 800 widows of 14 villages identified and supported through 50,000 Mangalore tiles for roof. 800 kitchen garden seed kit supplied to family of widow along with Bajra seeds and organic manure to ensure food security in the year. This will be done by the local SHGs. Horticulture especially Kesar mango sapling will be provided in

No.	Name of Organisation	Key Person Contact Number	Taluka & District	Thematic strength	Post-cyclone
					Khambha taluka area.
9	Vivekanand Research Training Institute (VRTI)	Rohitbhai 9099971823	Amreli and Bhavnagar	Water, Agriculture	Ration kit to 1500 HHs in Rajula area 300 tarpaulin sheets provided. They have coordinated with Altratek cement for supply of water in Kovaya area. Provided manglore tiles to 1850 HHs with support of BAPS Gadhda and Pipavav Port. Repairing of solar street light and installation of mobile phone charger units supported at 100 locations.
Bhavnagar					
1	Utthan	Praveen Bhikadia (CEO) 9426261832 Jayaben 9428181725	Presence in 100 villages across 3 talukas Bhavnagar, Mahua and Gogha	Relief distribution, shelter repairing, agricultural input, animal husbandry Revival, water	<ul style="list-style-type: none"> • Bhavnagar taluka coastal 200 households- food kits supplied • Planned for providing semi-permanent or temporary shelter support to 400 families in Rajula Jafrabad, Mahua and Bhavnagar talukas • Monsoon crop- seed support 150 families • Kitchen garden support- 200 affected families • those Pashupalaks who are dependent on community land- fodder support to 100 such families

No.	Name of Organisation	Key Person Contact Number	Taluka & District	Thematic strength	Post-cyclone
2	Gram Nirman Samaaj	Ismali bhai Kalanya 9879023350	Mahuva, Bhavnagar	Relief distribution, shelter repairing, agricultural input, animal Husbandry revival, water	<ul style="list-style-type: none"> • Provided drinking water to 25villages • Provided generator to 5 villages to run the water power pump • Fallen or bent Trees- rescue and treatment
3	Triveni Kalyaan Foundation	Ajit Jadav 9537994454	Mahuva	Agriculture and livelihood support to farmer and women groups	<p>TKF initiated cleaning of road and repairing of electricity supply in 20 villages of the farmers club in 20 villages and Sakhi mandal (SHG) 572 groups</p> <p>Sakhi madal provided easy loan to their members to survive in the cyclone</p> <p>They also provided machinery support of JCB, tractors to supply and repair of infrastructure.</p> <p>They have plan to revive next agriculture season through seeds and agriculture technical support</p> <p>Sakhi mandal is instrumental for taking care of domestics need of the families in their cluster</p>