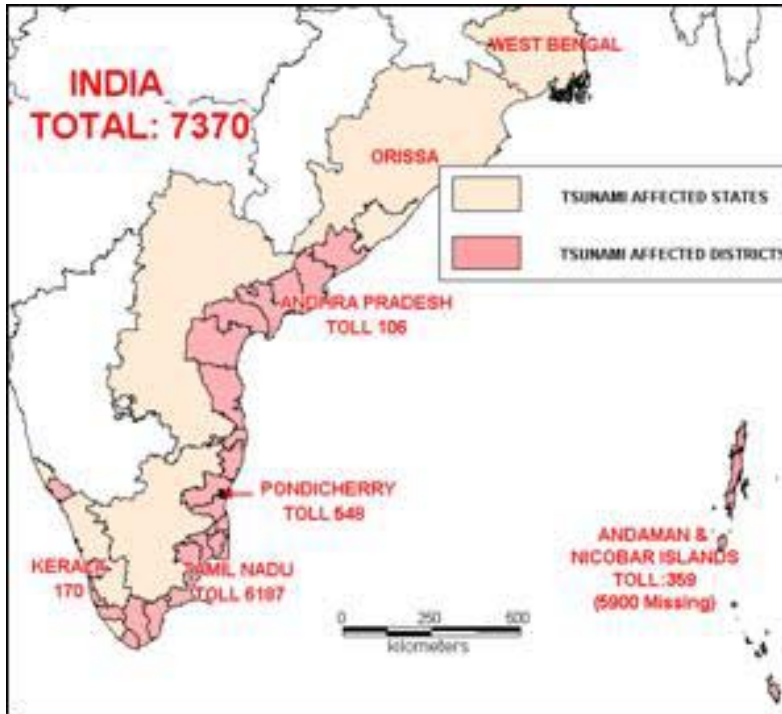


UNDMT SITUATION REPORT – INDIA

EARTHQUAKE AND TSUNAMI

DATE: 30.12.04



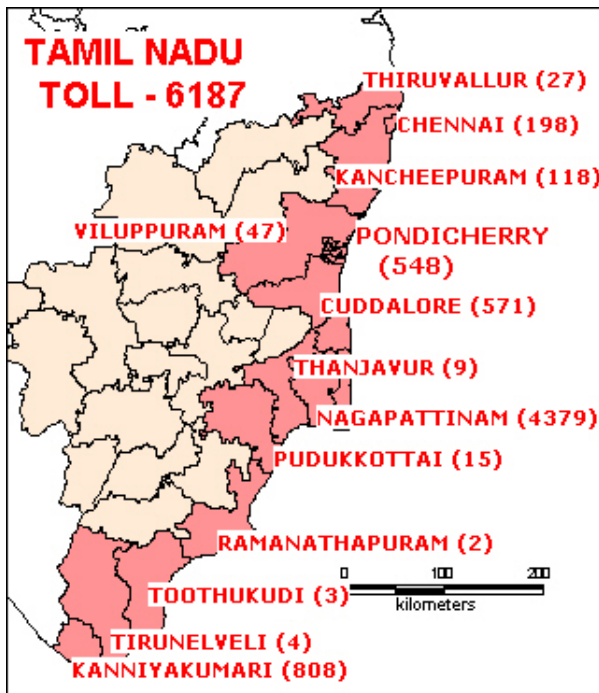
A massive earthquake of magnitude 9.0 (USGS), hit Indonesia (off the West Coast of Northern Sumatra) on 26th morning at 06:58 a.m. This is the biggest in 40 years and the fifth strongest since 1900. It triggered the tsunami in south-east Asia and coastal India.

Another Earthquake of Magnitude 7.3 occurred 81 kms W of Pulo Kunji (Great Nicobar) at 9:51:26 AM (IST) on 26th December. A series of aftershocks were also reported in this region.

These earthquakes triggered Tsunami in parts of southern India and Andaman Nicobar Islands. The death toll has already reached a figure of 7370. This will go up once confirmation regarding 5900 missing persons/feared dead in the Nicobar Group of Islands is

received ([details in Table-1](#)). The Tsunami affected a total of 2260 Kms. of the coast line besides the entire Nicobar Islands. The tidal waves on the mainland were of the height of 3 to 10 meters. These penetrated into the mainland from 300 meters to 3 Kms. The details are given in the Table II.

AFFECTED STATES



TAMIL NADU

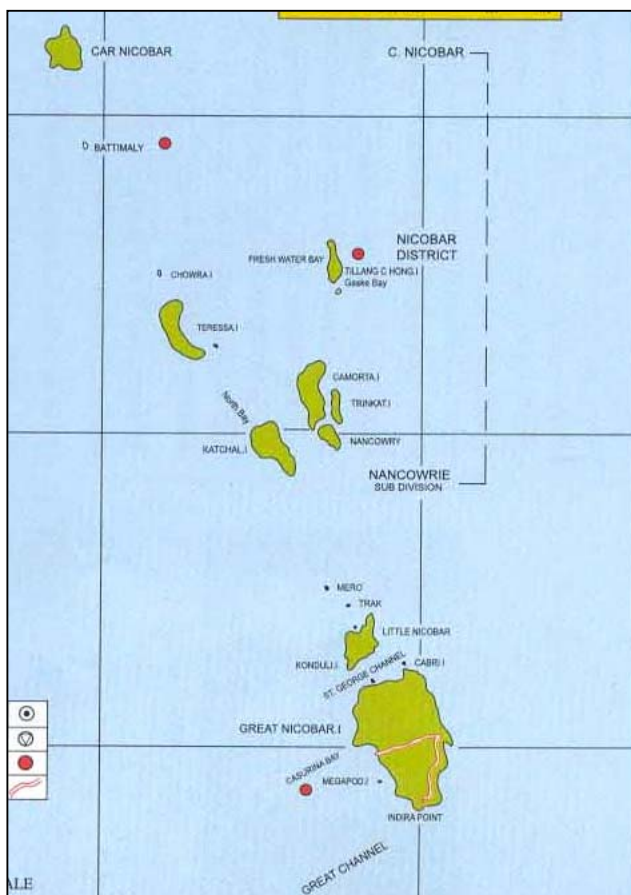
Tamil Nadu was the worst affected State with over 6187 people killed and as per the latest Government reports. All the coastal districts (12 Districts) were affected.

Nagapattanam is the worst affected district where 4379 people are dead, while over 808 in Kanyakumari and 571 have been killed in Cuddalore. 201 people were killed in Chennai, 47 in Villupuram, 118 in Kancheepuram. The tidal waves on the mainland were of the height of 7-10 meters. These penetrated into the mainland from 300 meters to 1-1.5 Kms. The State Government has set up a control room at the Chief Minister's Office. All affected districts have established control room in the District Collectorate linked to the State Control Room. The city control room has been set up at the Chennai Municipal Corporation Office, Chennai.

The State government has set up 328 relief camps in the affected districts to house the evacuated population (~ 40,000) and is providing food and drinking water. The CM has announced an ex-gratia amount of Rs 100,000/= to each of the families of the deceased. The CM has also appealed for support to relief measures from other agencies.

Demographic details

Union territory*/District	Population 2001			Density 2001	Child population (0-6)	Literacy Rate (2001)
	Persons	Males	Female			
Chennai	4,216,268	2,161,605	2,054,663	24,231	374,089	80.14
Cuddalore	2,280,530	1,148,729	1,131,801	626	271,108	71.85
Kancheepuram	2,869,920	1,455,302	1,414,618	647	317,569	77.61
Kanniyakumari	1,669,763	829,542	840,221	992	170,963	88.11
Nagapattinam	1,487,055	738,287	748,768	548	172,830	76.89
Pudukkottai	1,452,269	720,847	731,422	312	175,056	71.96
Ramanathapuram	1,183,321	582,068	601,253	287	141,809	73.05
Thanjavur	2,205,375	1,091,557	1,113,818	649	245,822	76.07
Thiruvallur	2,738,866	1,390,292	1,348,574	800	312,349	76.54
Thiruvarur	1,165,213	578,870	586,343	538	131,848	76.90
Tirunelveli	2,801,194	1,372,082	1,429,112	411	310,271	76.97
Toothukudi	1,565,743	764,087	801,656	339	173,580	81.96
Viluppuram	2,943,917	1,484,573	1,459,344	406	354,050	64.68



ANDAMAN AND NICOBAR ISLANDS

Several areas of Andaman and Nicobar Islands are effected by the Tsunami and coastal flooding (followed by Sumatra earthquake). Authorities have launched a large-scale evacuation, relief and rescue operation by deploying Air Force helicopters into action. Port Blair airport was damaged has been repaired. Damage to harbour and Jetty in both civil and naval port has been reported. One harbour at Port Blair is now fully functioning and is receiving large ships. In Nicobar Islands all small harbours and jetties have been damaged.

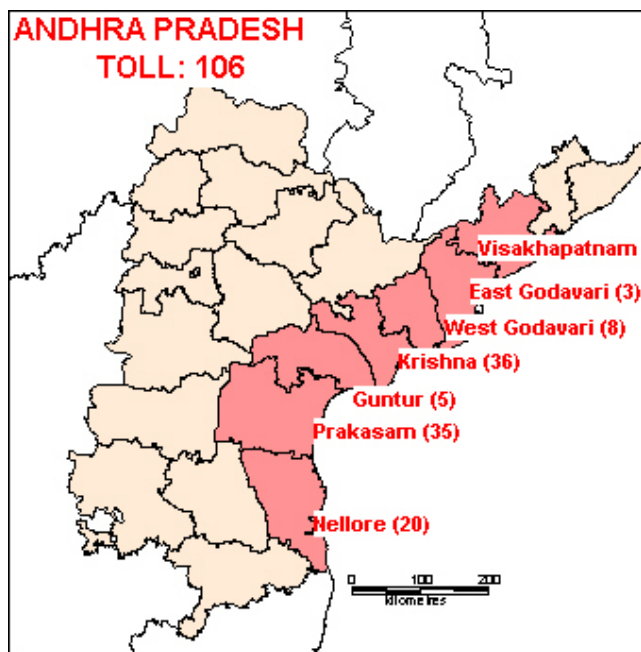
A series of after shocks were reported in the region. Andaman & Nicobar Islands are among the worst hit as they are relatively closer to the epicentre of the earthquake. As per official reports, 359 human lives have been lost. About 5900 persons are reported to be missing/feared dead in the Nicobar Islands. The worst hit were the Car Nicobar, great Nicobar and Nancowrie group of islands and the situation is so bad that rescue teams have not yet reached these places. The total population of the affected Islands is about 60,000.

Demographic details

Union territory*/District	Population 2001			Density 2001	Child population (0-6)	Literacy Rate (2001)
	Persons	Males	Female			
Andaman & Nicobar Islands	356,265	192,985	163,280	43	44	81.18
Andamans	314,239	170,378	143,861	49	39	82.35
Nicobars	42,026	22,607	19,419	23	5	72.41

PONDICHERRY

As a result of rise of sea level upto several metres, coastal areas in the Pondicherry and Karaikal region were inundated. 25 Kms. of coast length was affected by Tsunamis with penetration into the main land between 300 mtrs. to 3 Kms. The tidal waves with the height of 10 Mtrs affected 26 villages. In Karaikal, a bridge along the Arasalar river was damaged and the communication on the southern part of Kariakal region is affected. The PWD has launched repair of the bridge. Police and fire services were pressed into service. 548 deaths have been reported.



ANDHRA PRADESH

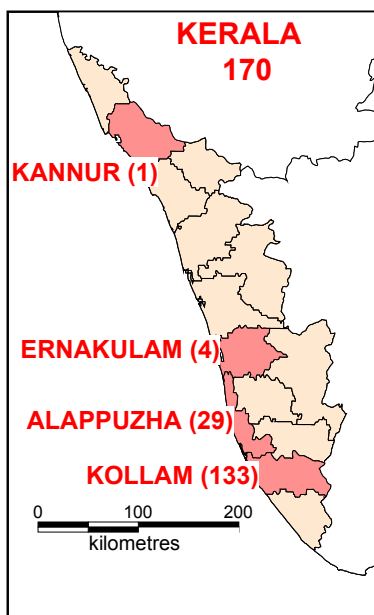
At least 106 people were killed and 30 are missing after tidal waves wreaked havoc along the 1,000-km coastline of Andhra Pradesh. The most affected districts are Krishna and Prakasam, recording 36 and 35 deaths. Other affected districts are Guntur, Nellore West Godavari, East Godavari and Vishakapatnam.

Significant tidal surge experienced in Krishna, Guntur, Prakasam and Nellore districts. The tidal waves penetrated between 0.5 - 2 Kms. into the main land and the height of the tidal waves was upto 5 meters. About 301 villages were seriously affected.

State Government evacuated about 9,000 persons to the safer places and provided food packets. Medical Teams have been deputed to tackle health situation in the affected villages.

Four Coast Guard Ships have been deployed off Kakinada, Nellore and Krishna Godavari basin for search and rescue operations. Four Indian Navy Ships are operating off Tamil Nadu and Andhra Coast for search and rescue operations. State Government has sought assistance of Coast Guards/Navy for search and rescue of missing fishermen.

KERALA



The toll in Kerala has risen to 170. Kollam district accounted for the highest toll of 133 followed by Alappuzha 32 Ernakulam 4 and Kannur 1, according to official sources here.

The toll is likely to go up as rescue teams led by navy and police are continuing the search for bodies trapped in collapsed houses. An emergency meeting of the state cabinet on 27th December decided to provide Rs 100,000 each for each adult and Rs 50,000 each child killed in the tragedy. The cabinet reviewed the rehabilitation and relief measures as around 1,00,000 people were living in 200 camps opened in the affected areas. Chief Minister Oommen Chandy said teams of ministers had been deputed to oversee the relief activities in different districts. Three ministers are given charge of relief operations in the three worst hit districts.

The Navy had sent their diving team by road on 26.12.04 and started rescue operations since 27th December,2004. People reported stranded have mostly been evacuated by the State Government with the assistance from diving team of Navy.

STATEWISE DETAILS OF LOSS OF HUMAN LIVES

Name of States/ UT/	Districts	Human lives lost	Remarks	No. of Relief Camps/persons in the camps
A & N Islands	Banderekhari	3		
	Car Nicobar	245		
	Chowra	39		
	Cambell Bay	4		
	Great Nicobar	4		
	Chancin	1		
	Dering			
	D/Pur			
	Hut Bay	24		
	Kakana			
	Kamorta	8		3/971
	Katchal	20		2/250
	Kondul			
	Nancowry	4		
	Pilpilo			
	South Andaman	5		
	Safed Ballu			
Trinket	2			
Teresa	0			
	Total	359	5900 missing /feared dead	
Andhra Pradesh	Krishna	36		
	Guntur	04		
	Nellore	20		
	Parkasham	35		
	West Godavari	08		
	East Godavari	03		
	Visakhapatnam	0		
	Total	106	22 persons missing	NIL

	Kerala	Kollam	133		
		Alleppy	32		
		Ernakulam	4		
		Kannur	1		
		Total	170		142/84,773
	Tamil Nadu	Chennai	198		
		Cuddalore	571		
		Kancheepuram	118		
		Kanyakumari	808		
		Nagappattinam	4379		
		Pudukottai	15		
		Ramanathapuram	2		
		Tirunelveli	4		
		Thoolhukuddi	3		
		Thiruvallur	27		
		Thanjavur	9		
		Tiruvayur	6		
		Villupuram	47		
		Total	6187		383/3,09,331
	Pondicherry	Karaikal	447		
		Pondicherry	101		
		Total	548		46/45,000
		Grand Total	7370		

DETAILS OF IMPACT OF THE TSUNAMIS OF 26TH DECEMBER, 2004 - ON THE MAIN LAND

Details	Andhra Pradesh	Kerala	Tamil Nadu	Pondicherry	Total
Coastal Length affected in Km	985	250	1000	25	2260
Penetration of water into main land in Km.	0.50-2.0	1-2	1-1.5	0.30-3.0	
Average height of the tidal wave	5 Mtrs.	3-5 Mtrs.	7-10 Mtrs.	10 Mtrs.	
No. of Villages affected	301	450	258	26	1035
Population affected (in million)	0.212	0.15	0.47	0.043	0.877
Houses damaged	1557	1055	25043	6403	34058
Cattles lost	195	NR	364	3445	4004

GOVERNMENT MEASURES

The Ministry of Home Affairs, the nodal Ministry for coordinating relief and response, is functioning round the clock and is in constant touch with all the affected States/ UTs as well as the concerned Ministries/Departments and Armed Forces. The Control Room is providing assistance through its help line to the public in and outside the country about their relatives and friends round the clock. One senior officer (Joint Secretary) has been deputed on 28.12.2004 to Car Nicobar to coordinate the massive relief and rescue operations there.

The Union Home Minister, Mr. Shivraj Patil visited Andhra Pradesh and Tamil Nadu for an assessment of the situation. The Crisis Management Group met in Delhi on 26 December morning and drew-up an emergency plan to carry out relief and rescue operations in the affected regions of Tamil Nadu, Andhra Pradesh and Andaman Nicobar Islands.

The Government of India in association with the States/ Union Territories focusing on relief supplies and evacuation in Nicobar Islands and rehabilitation in the affected States/UTs. The Cabinet reviewed the situation on 27.12.2004 and decided to extend requisite help to the people in the affected areas.

- The Cabinet Committee of Ministers has been set under the Chairmanship of the Prime Minister to review the relief and rehabilitation efforts on continued basis.
- An Ex-gratia of Rs.100, 000 has been announced to the next of the kin of the deceased from the PM National Relief Fund, in addition to the assistance available from the National Contingency Relief Fund. The National fund has been augmented by Rs. 50 Million
- The Cabinet has also decided to donate one month salary to the PM National Relief Fund. The Prime Minister has appealed to the people donate generously to the PM National Relief Fund and also requested the Government employees to contribute at least a day's salary.
- The UPA Chairperson, Home Minister, Defence Ministers and other Union Ministers have already visited the affected areas to review the measures and further assistance required.
- The National Crises Management Committee under the Chairmanship of Cabinet Secretary is reviewing the relief and rehabilitation measures with the Secretaries of the concerned Ministries/Departments and Chiefs of the Armed Forces. The other State Governments have also been requested to provide support in this hour of grief to the victims of the Tsunamis.
- Relief supplies from the States of Kerala, Orissa and Gujarat have been lifted for Car Nicobar and Maldives on 27.12.2004. Further relief material is planned to be airlifted from Maharashtra, Karnataka, Orissa, Gujarat and NCT of Delhi for Car Nicobar on 28.12.04. The States of Punjab, Uttar Pradesh, Madhya Pradesh have also offered assistance and logistics are being worked out. The States of Karnataka (Rs. 50 million) Maharashtra (Rs. 50 million), Gujarat (Rs.70 million) and NCT of Delhi(Rs. 20 million) have announced the cash relief to the affected States/UTs.

The State Government of **Tamil Nadu** had requested GOI assistance for disposal of dead bodies. Army is assisting the local authorities in this work. State Government was advised to deploy Civil Defence Volunteers. 400 personnel from CRPF were also deployed for relief work. State Government had constituted Teams to find out the missing people. Coast Guard has deployed two Chetak helicopters at Chennai for search and rescue. Relief Commissioner was also requested to make available assistance to Kolachala in Kanyakumari district, as they had not received the relief. 2000 packets of food had since been distributed there.

State Government of Andhra Pradesh evacuated about 9,000 persons to the safer places.

Pondicherry Administration has already evacuated the people living in low lying areas and essential commodities including meals are being provided. A three member high level Central health Team headed by Deputy Director General (Medical) has reached JIPMER Pondicherry was deployed. Pondicherry Administration is now engaged in disposal of dead bodies. It has been advised to utilize services of Civil Defence Volunteers. Government of Maharashtra has been requested to provide 20 MT relief material to Pondicherry as requested by UT admn. As

requested by the Pondicherry Administration one IL 76 load (20Mts) of relief material is being airlifted from Mumbai on 28.12.2004, courtesy Government of Maharashtra.

The Andaman & Nicobar Administration has requested the Central Government for assistance for rescue and relief operations. The following have been undertaken::

1. Armed Forces evacuated 500 people from Nicobar Islands to Chennai on 28th December and 500 persons were evacuated on 29th December. Coast Guards ships have evacuated 272 stranded people including 40 patients, 104 foreigners from Chowra, Hutbay and Campbell Bay. Evacuation of about 700 persons from remote locations in Great Nicobar is progress.
2. The Ministry of Civil Aviation has been requested to provide one additional Pawan Hans Helicopter for relief and rescue operations at Car Nicobar.
3. MHA have organized airlifting of 35 MT of relief material on 27th Dec. 2004 ,25 MT of relief material(dry food, sugar , rice , milk powder) airlifted on 28th Dec. 2004 and 7 MT of relief material (dry food, sugar , rice , milk powder) airlifted on 29th Dec. 2004 . In addition 10,000 of milk, 3000 packets of bread, 50,000 packets of biscuits, 15,000 packets of other dry foods and 5,000 packets of food were delivered/dispatched on 29th December,2004. One Metric ton water bottles were sent to Nicobar ex Bangalore on December 29th and 4 Metric ton of emergency medicines were dispatched ex Ahmedabad on 28th December,2004 and 3.5 MT on 29th December,2004 .
4. About 12,000 tents have been dispatched from various locations on 29th December,2004 . Sizeable number of tents have been mobilized and planned for airlifting on 30th December,2004 .
5. 6 MT of Sarees and blankets dispatched on 27th December,2004 . Additional about 10,000 blankets dispatched on 29th December,2004 . 93,000 clothes for ladies, gents and kids dispatched on 29th December,2004 .
6. 20 DG sets and 20 pump sets dispatched on 29th December ex Bangalore. Further, dispatch planned for 30th December.
7. Lighting items like torches, hurricane lamps, candles etc. dispatched in sizeable number of 29th and further lined up for dispatch on 30th Dec. Household kits, of sizeable number have been dispatched
8. One specialist team of 40 personnel each of CISF and ITBP made available for relief operations.
9. One Platoon of BSF has been airlifted for assisting the A & N Administration in cremation/burial dead bodies.
10. Three Naval ships reached Car Nicobar on 27th Dec. 2004. Two coast Guard ships with relief material and medical team left for Campbell Bay. One naval ship and one Coast Guard ship left for Hut Bay. Two Dornier aircraft dropped food and water at Hut Bay and Camp Bell Bay. Ship from Kolkatta is planned for movement on 30th Dec. 2004.
11. Two specialized Team in Medical First Responder (MFR) –one CISF have been flown on 27th December 2004 to Car Nicobar and from ITBP is being flown on 28th December, 2004 for assisting the local Administration in rescue and relief operations.
12. Ministry of Health has deputed a five-member team consisting of physicians and public health experts, on 27th December 2004 , to A& N Islands for emergency medical relief. The Team is also taking emergency medical stores. The Coast Guards has send 4 doctors to Chowra.

HEALTH SECTOR

District-wise health status is given below:

State	Districts affected (see map)	Comments
Tamilnadu	Nagapatinam, Kanyakumari Cuddalore Chennai Kancheepuram/Kalpakkam	<ul style="list-style-type: none"> • Health team dispatched from Government of India • All the District Immunization Officer's from other districts posted in the affected districts to supervise relief operations
Andhra	Prakasam	<ul style="list-style-type: none"> • Health team dispatched from GOI

Pradesh	Krishna Nellore Guntur Vizagapattanam\ Srikakulam East and West Godavari	<ul style="list-style-type: none"> State Health machinery has been geared up
Andamans & Nicobar	Entire area	Health team dispatched from GOI
Kerala	Kollam Alappuzha	
Orissa		
Pondichery and Karickal	Entire area	Health team dispatched from GOI

Action taken

1. The Union Health Ministry has dispatched full medical teams including Epidemiologists surgeons, etc. to Chennai, Hyderabad, Pondicherry and Port Blair (Andaman and Nicobar).
2. The Director General of Health Services focal point at the Ministry, the ADG, EMR is constantly monitoring the situation and the relief operation in the affected areas.

UN SYSTEM

- The United Nations Disaster Management Team (UNDMT) met on 27 and 29 December 2004 to review the situation. It was decided that the UNICEF office in Chennai would host a coordination team to strengthen the information flow regarding the status and facilitate UN System programmes.
- UNDMT, and UNDP Regional Disaster Reduction Advisor are contacting DMTs in the Region to offer assistance in personnel and coordination tools.
- DMT organized an information sharing meeting of partner NGOs and bilaterals/multilateral agencies on 27 December at 5:00 pm in the UN Conference Hall.
- Sitreps being prepared daily with inputs from the Government, UN Agencies and other partners are being circulated to various agencies

Agency	Response as of 29 December
Resident Co-ordinator	Discussion undertaken with Ministry of Home Affairs on welfare of population on A&N, and possibility of UN providing support.
UNICEF	The 24 hour emergency operation centre established on 26 December 2004 is fully functional at UNICEF office in Chennai. This control room is being strengthened with staff from other UN Agencies as per the recommendations of the UNDMT, in its meeting on 27 Dec. UNICEF has more and more people out into the field. International NGOs coming to the UNICEF office for information in order to organize their activities and to ensure that they are working where they can best be used. Rapid Action Field Teams are already assessing ground situation in the three worst affected districts of Kanchipuram, Cuddalore and Nagapattinam. The team from Kanchipuram has returned back with a situation assessment and human stories of devastation and psychological impact on women and children. The damage to life and property has been along the narrow strip of the coastal areas. Although relief camps are functioning and food packets being distributed there is evidence that a better organizational management would help regular and equitable food distribution and management of trauma, both physical and psychological. UNICEF views priorities as (1) sanitation and hygiene (2) camp management, (3) ORS and safe drinking water (4) psycho-social support and (5) education. UNICEF provided 2,175 water storage tanks of 500 lt. capacity to relief camps in Chengalpattu, Thirukalukundram, Villupuram, Kanyakumari, Nagapattinam, Cuddalore and Pondicherry. The District Collectors/Magistrates of these

	<p>districts are in close contact with UNICEF to ensure that the materials reach the camps where they are most needed.</p> <ul style="list-style-type: none"> • 300 water storage tanks are also being sent to Kerala and 1,200 water cans of 10 lt. capacity are being sent to Pondicherry and Karaikal. • 1,900 kgs. of bleaching powder to Nagapattinam, Cuddalore, Kanyakumari, Pondicherry/Karaikal • 3 million chlorine tablets – one million each for the districts of Nagapattinam, Cuddalore and Kanyakumari • 70,000 oral rehydration packets to Nagapattinam, Cuddalore, and Kanyakumari • UNICEF also planning to provide thick cotton quilts, cotton bed sheets and mats to the relief camps and hospitals.
WFP	Have received a formal request for food from Kerala. Are also in a position to provide support to Tamil Nadu from existing stocks.
UNDP	<p>Existing Disaster Risk Management team has been mobilized by the Ministry of Home Affairs, and is engaged in information support throughout the affected area, including in the Tamil Nadu State Co-ordination Unit. Steps will now be taken to place UNV's in each affected district, to assist in information and organization support.</p> <p>Three UNDP staff associated with disaster risk activities in the country left for assignments in Maldives (2) and Sri Lanka (1). Identification of others who can support UN teams in neighboring countries ongoing, with a view to imminent departure for three additional UNV's to Sri Lanka and two to Indonesia</p>
WHO	The team from WR India Office headed by the focal point EHA is closely monitoring the situation. The WR office is monitoring the situation with regard to: Status of relief measures/operations; Health system status; Population displacement / Relief Camps. Ministry of Health has requested guidelines for disease surveillance system, and support setting up of emergency control rooms for monitoring situation, instruments for checking quality of water. Information, supply of ORS and Vitamin-A tablets as well as measles vaccine.
UNHCR	The government run refugee camps near the sea coast in Tamil Nadu were relocated earlier and for this reason, most were not affected by the tsunami, although in one case near Pondicherry refugees did spontaneously flee. No refugee camps have been officially relocated as a result of the tsunami.
World Bank	Offer of assistance formally conveyed to Secretary, Ministry of Finance (Nodal agency) as well as to the Minister of Finance by WB President.
ADB	Offer of assistance formally conveyed by the President ADB to the Finance Minister. Staff of Indian Resident mission in touch with department of Economic Affairs.
ILO	Initial assessment underway to support initiatives by Trade Unions and their members.

SOURCES OF INFORMATION

- Central Control Room. Ministry of Home Affairs, Government of India
- Media Reports
- DMT Agency Reports
- UNDP Regional Disaster Reduction Advisor