

No.32-5/2004-NDM-I  
Government of India  
Ministry of Home Affairs

**Subject: Tsunami impact (26<sup>th</sup> December 2004) in A &N Islands, UT of Pondicherry and other coastal States of Tamil Nadu, Andhra Pradesh and Kerala –Relief, Rehabilitation and other follow up measures**

The Tsunamis have caused extensive damage in Andaman & Nicobar Islands, the States of Andhra Pradesh, Kerala and Tamil Nadu and UT of Pondicherry. 117 aftershocks have been reported so far of which 105 are between >5.0-6.0< and 12 are > 6.0 on Richter scale. The death toll is at 10,012. The details of deaths, missing and relief camps are in [Annexure I](#). The details of damage to crops, dwelling units and population affected are in [Annexure-II](#).

2. As per the reports from Indian Mission, 7 Indian national have died and 12-15 are reported missing in Sri Lanka ; one in Maldives , 3 in Thailand and 2 in Indonesia .

3. An All Party meeting has been convened on 9<sup>th</sup> January 2005 to discuss the relief, rehabilitation and reconstruction efforts in the Tsunami affected areas and assistance provided to the neighbouring countries in the region who were also affected by the Tsunami.

4. A&N administration have evacuated the people from smaller Islands to 8 Islands ; 6 in Nicobar (Car Nicobar, Great Nicobar ( Campbell Bay ), Katchal, Kamorta, Nancowry and Teressa) and 2 in Andaman (Little Andaman ( Hut Bay ) and South Andaman (Port Blair) ) where the relief efforts are concentrated. 44201 persons are in 125 relief camps. Islands from where the population has been completely evacuated are Bambooka, Chowra, Little Nicobar, Pilo Millow, Tilanchang and Trinket in Nicobar.

5. The Armed Forces have launched operation “Sea Waves” for relief, rescue and evacuation in the wake of Tsunami disaster which has been coordinated by Integrated Defence Staff (IDS). The aircrafts have undertaken 340 sorties for A&N Islands , 41 sorties for main land States. 9284 people were evacuated including 7419 civilians and 1865 service personnel in A&N Islands . 19,450 personnel were evacuated in Tsunami hit main land states.

6. Under operation “Rainbow” for Sri Lanka , 231 sorties have been undertaken and 181 personnel evacuated. Under Operation “Castor” for Maldives 44 sorties were under and 15 peoples were evacuated from outlying Islands . 27 ships, 16 helicopters and 5 fixed wing aircrafts of the Indian Navy are engaged in relief operations, deploying 4500 naval personnel. Under operation “Gambhir” for Indonesia , the Navy has provided relief materials besides running a medical camp. The Navy in its efforts has also been supported by the ships, Dornier Aircrafts and personnel of the Indian Coast Guard.

7. The Shipping Corporation of India has made 27 berthing position (Harbour/Jetties) functional out of 49. 11 commercial ships have been sent from main land ex- Chennai, Kolkata, Haldia and Vizag carrying relief supplies.
8. Ministry of Petroleum and Natural Gas is meeting the full demand of POL. Ministry of Civil Aviation (Indian Air Lines and Jet Airways) have undertaken 107 flights including 17 flights for Cargo. They have brought out 7371 passengers and 227 infants ex- Port Blair. They have airlifted a cargo load of 303.5 MT to Port Blair. Ministry of Social Justice and Empowerment have been entrusted with the task of overseeing relief measures for women and child in all the Tsunami affected States/UTs and is deputing Central Teams to the affected areas. The Ministry of Science and Technology is organizing brainstorming session in a workshop on 21<sup>st</sup> and 22<sup>nd</sup> January 2005 in Delhi to evolve a road map for Tsunami early warning system.
9. About 116 doctors, 20 nurses and 62 paramedics have been deputed by MoH in the affected areas and central medical teams have attended 13,940 patients. All children between 6 months to 5 years of age are being vaccinated for measles and being given recommended doses of Vitamin-A supplement.
10. The Ministry of Rural Development has released the Central share of allocation of funds under Indira Awaas Yojana (IAY) for the year 2004-05 to the States of Andhra Pradesh (Rs. 85.43 crore), Kerala (Rs. 27.29 crore), Tamil Nadu ( Rs. 48.41 crore), A& N Islands (Rs. 3.53 crore) and Pondicherry (Rs. 1.08 crore). Additional Central assistance approved by the Cabinet for construction/reconstruction of damaged houses in the rural areas would be released after the receipt of the report of the Central Teams.
11. A total of 2801.16 MT relief materials (731.71 MT by Air and 2069.45 MT by ship) has been delivered to A&N Islands comprising of 757.01 MT food items, 726.14 MT drinking water, 87.56 MT medicines/disinfectant, 10477 tents, 31563 torches, 715 Gen. Sets, 82 Pump sets. The movement status of relief material for all affected States/ UTs is in [Annexure-III](#).
12. The detailed situation report is at [Annexure IV](#).
13. The situation report can also be viewed at Web [www.ndmindia.nic.in](http://www.ndmindia.nic.in).

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**ANNEXURE-I**  
**MINISTRY OF HOME AFFAIRS**  
**NDM DIVISION**

Human lives lost in the wake of Tsunami/ Tide Wave in the Bay of Bengal- 26<sup>th</sup> December 2004

Name of States/ UT/	Districts/Islands	Population (Total for A&N/Affected for others)	Human lives lost	Total Persons missing inclgd fisher men	Persons moved to safer places	No. of Relief Camps/persons in the camps
<b>A &amp; N Islands</b>	Bambooka	55	00	06	00	Evacuated
	Car Nicobar	20292	382	494	7730	53/20000
	Chowara	1385	41	14	09	Evacuated
	Great Nicobar/ Campbell Bay	44	102	16	1300	14/4678
	Kondul	150	38		200	Evacuated
	Kamorta	3412	39	399	300	5/1180
	Katchal	5312	303	4335	101	5/3679
	Little Andaman	17528	37	12	3315	7/ 7000
	Little Nicobar	353	43			Evacuated
	Middle Andaman	54385	03			
	Nancowry	927	01	01		19/ 550
	Pilmillow	145	163		222	Evacuated
	Trinket	432	03	224		Evacuated
	Terassa	2026	45	30		8/2893
	South Andaman includes Port Blair	181949	05		2624	14/4221
	Strait Island	42	00	00	29	
	<b>Total</b>	<b>288437</b>	<b>1205</b>	<b>5531*</b>	<b>15830</b>	<b>125/ 44201</b>
<b>Andhra Pradesh</b>	Krishna	13061	27			
	Guntur	30700	12			
	Nellore	16578	20			
	Parkasham	92547	35			
	West Godavari	2395	08			
	East Godavari	7836	03			
	Visakhapatnam	33203	00			
	<b>Total</b>	<b>196320</b>	<b>105</b>	<b>11</b>	<b>34,264</b>	<b>People gone back. All 65 Relief Camps closed</b>
<b>Kerala</b>	Kollam	600000	131			
	Allappuzha	400000	35			
	Ernakulam	300000	5			
	<b>Total</b>	<b>1300000</b>	<b>171</b>		<b>24978</b>	<b>29/24978</b>
Name of States/ UT/	Districts/Islands	Population	Human lives Lost	Total Persons missing inclgd fisher men	Persons moved to safer places	No. of Relief Camps/persons in the camps
<b>Tamil Nadu</b>	Chennai	65322	206		30000	25/ 30000
	Cuddalore	99704	612		61054	38/24204
	Kancheepuram	100000	128		60000	44/ 28792

	Kanyakumari	187650	817		46280	62/ 41250
	Nagapattinam	196184	6035		196184	96/91036
	Pudukottai	66350	15		4857	7/ 4857
	Ramanathapuram	6815	6		8350	36/ 8350
	Tiruneveli	27948	4		11170	20/11170
	Thoothukudi	13072	3		13072	23/11625
	Thiruvallur	25600	28		15600	13/4700
	Thanjavur	24000	24		4600	13/ 4600
	Tiruvarur	NA	16		11295	21/ 11295
	Villupuram	78240	47		37500	14/37500
	<b>Total</b>	<b>890885</b>	<b>7941</b>		<b>499962</b>	<b>412/ 309379</b>
<b>Pondi cherry</b>	Karaikal	17432	483	73	15000	22/ 5200
	Pondicherry	26000	107	9	55000	26/ 900
	<b>Total</b>	<b>43432</b>	<b>590</b>	<b>82</b>	<b>70,000</b>	<b>48/ 6100</b>
	<b>Grand Total</b>	<b>2719074</b>	<b>10012</b>	<b>5624</b>	<b>645034</b>	<b>614/384658</b>

\*Information is based on the Survey being undertaken of inhabited Islands .

# A&N Island total population of Islands /

**Annexure -II**  
Ministry of Home Affairs  
NDM Division

DETAILS OF IMPACT OF THE TSUNAMIS OF 26<sup>TH</sup> DECEMBER, 2004 - ON THE MAIN LA  
STATES

Details	Andhra Pradesh	Kerala	Tamil Nadu	Pondicherry	Total
1	2	3	4	5	7
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	187	376	33	897
Population affected (in lakh)	2.11	24.70	8.90	0.43	36.14

Dwelling units	1557	<b>17381</b>	128394	10061	157393*
Cattle lost	195	NR	9559	506	10260
Cropped area (Ha)	790	NR	2732	792	4314

NR = Not Reported.

\* There is increase due to increase in reported damage from Kerala and Tamil Nadu.

Note:- The Tsunamis have caused extensive damage in Nicobar Islands , which will require more or less rebuilt/ reconstruction.

### ANNEXURE-III

Ministry of Home Affairs  
NDM Division

#### Status of Relief resources movement (All affected States/ UT)

##### Overall Lifting Position

Total stock lifted as on 07.01.2005 at 0900 hrs	3946.20 MT( 854.17 MT by Air, 1975.62 MT by Ship, 1121.20 MT by Train )
Total stock lifted as on 08.01.2005 at 0900 hrs.	4416.46 MT(904.52 MT by Air and 2395.53 by Ship, 1121.20 MT by Train)
Stock planned to be lifted as on 08.01.2005	240 MT (40 MT by Air and 200 MT by Ship)

##### Status of Relief Materials Movement

Item	Total resources mobilized (in MT)	Cumulative lifting/ delivery (in MT)	Lifted/ Delivered on 7 <sup>th</sup> Jan. 2005	Planned for dispatch/delivery MT
Food items	1693.23	1630.33	189.10	62.90
Water	871.14	827.14	41.30	44.00
Emergency medicines/disinfectants	138.88	103.68	7.65	35.20
Tentage	541.09	370.39	18.74	170.70
Clothing	297.35	233.47	7.00	63.88
Lighting material	30.82	30.81	0.20	0.01
Diesel Gen. Sets./pumps	142.00	108.00	0.00	34.00
House hold items	84.73	84.73	7.72	0.00
Equip. & Machinery	1143.92	1027.92	198.55	116.00
<b>Total</b>	<b>4943.15</b>	<b>4416.46</b>	<b>470.26</b>	<b>526.69</b>

##### Status of delivery of High Priority Items

Item	Cumulative stock dispatched	Dispatched/ delivered as on 07.01.05	Planned for dispatch 08.01.05
Water (MT)	827	84	50
Food	78	0	20

Packets(MT)			
Food Stuff (MT)	1553	104	40
Small Tents (No.)	10817	0	300
Large Tents (No.)	1918	377	100
Torches	41563	0	100
Generators	715	0	10
Pump Sets	82	0	5
Desalination Plant (No.)	3	3	3

#### Status of deployment of Public Health/disaster management/ and Volunteer Teams

Type (number of persons)	Mobilized	Deployed
Specialized Medical Intervention Teams	148	148
Disaster Response Teams	2222	2156
Disaster Volunteers Teams	100	100
<b>Total</b>	<b>2470</b>	<b>2404</b>

#### No. of Aircrafts made available as on:

(i) 07.01.05	: 1 IL-76, 1 Alliance aircraft
(ii) 08.1.05	: 1 IL-76, 1MHA Aircraft (Blue Dart) & 1 Alliance Aircraft

#### ANNEXURE- IV

**No.32-5/2004-NDM-I  
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#### Detailed situation report on the impact of Earthquake/Tsunami in Indonesia , A & N Islands and other coastal States- Relief, rehabilitation and other follow-up measures

#### ANDAMAN & NICOBAR ISLANDS

#### ANDAMAN ISLANDS

**Health:** There are 12 CGHS Doctors deployed; 8 in Port Blair and 4 in Little Andaman and other senior officers of DGHS and ICMR are camping at Port Blair to review the medical relief activities and assist the State Government doctors to provide medical relief. Emergency medicines and disinfectants are being delivered on priority. 120 bed hospital is being operated on INS Magar. Medical relief is under continuous surveillance by MoH. Trauma Specialists have also been deputed. No report of outbreak of epidemics has been received so far.

**Water Supply:** 80% pipeline water supply has been restored in Port Blair, 2 fresh water sources have been located in Little Andaman. Quarry Lake (2.5 Km) from Jetty have been connected by motorable road and Fire Tender is being used for supply.

**Shipping:** Harbour at Port Blair is now fully functional and is receiving large ships. There are 49 Nos. of Jetties in A&N Islands of which 29 are now operational including 11 Jetties in Andaman district. Of the 6 Jetties at Port Blair 4 are operational. A team from Ministry of Shipping has been deputed for making assessment of repairs.

**Civil Aviation:** Port Blair airport which was damaged is now functional. The total air lift capacity from mainland to Car Nicobar and Port Blair has been augmented to 100 MT (Approx) and 20 MT by Civil Aircrafts.

**Telecom:** 38 telephone exchanges in the North group, middle group and south group of Andaman Islands are now functional. The telephone facilities which were temporarily disrupted are functional. Police wireless has started working and ISRO has established satellite links and efforts are on to restore BSNL network in Little Andaman.

**Power:** 20 MW capacity in Port Blair is severely affected and as per the assessment of NTPC and CEA, repair could be completed in four weeks time. The power supply has improved to 40-50%. One unit (1.7 MW) at Kalpong Hydro Power Station of NHPC has been made operational in the evening of 6<sup>th</sup> January 2005. This has improved power supply in North Andaman. Pending operationalization of normal power supply, alternative arrangements are being made by deployment of DG sets etc.

**Relief and Rescue:** Relief measures by UT Administration are continuing. All people from Chowra and Bambooka Islands have been evacuated. 21 Relief camps have been opened in Andaman district and 11221 people are staying in these camps. There is sufficient drinking water supply in Port Blair. 11 ships of Ministry of Shipping, Road Transport & Highways are scheduled from Chennai, Visakhapatnam and Kolkatta carrying the passengers and relief materials. Road clearance is being undertaken by CPMFs/ Defence personnel. The situation in various islands is stabilizing gradually.

#### Deployment of CPMFs (Relief Teams)

Name of Islands .	CRPF	CISF	BSF	ITBP	RAF	Total
Car Nicobar	--	100	--	51	--	<b>151</b>
Katchal	--	--	315	204	--	<b>520</b>
Campbell Bay	150	--	--	--	--	<b>150</b>
Port Blair	699	--	62	33	246	<b>1039</b>
Hut Bay	--	142	--	--	--	<b>142</b>
<b>Grand Total</b>	<b>849</b>	<b>242</b>	<b>377</b>	<b>288</b>	<b>246</b>	<b>2002</b>

The personnel are deployed in search and rescue operation, road clearance, disposal of dead bodies, sanitation activities like spraying bleaching powder, DDT, Phenyl in relief camps, distribution of relief materials, unloading and guarding of relief materials etc. 257 dead bodies have been cremated by cremation parties, so far.

#### NICOBAR ISLANDS

**Shipping:** All small harbours and jetties have been damaged and not possible to park any vessels. Efforts on to restore the facilities. Pending restoration of shipping facilities, the supplies are being airlifted. Indian Coast Guards ships have reached Hut Bay and Campbell Bay with relief materials. Three Jetties; one each at Car Nicobar, Nancowry (Kamorta) and Nancowry (Champin) are fit for operations. A team from Ministry of Shipping has been deputed on 05.1.05 for making assessment of repairs Four Ships of Indian Coast Guard are deployed in relief and rescue operations.

**Civil Aviation:** The airport is functional only for An-32 flights and other small aircrafts. The link has been established on the small airstrip at Camp Bell Bay and the Dornier aircraft is operating. Helipad at Katchal is also operational.

**Telecommunications:** 3 Telephones exchanges; 1 each at Campbell, Car Nicobar and Kamorta are working. 2 MB, VSAT has been installed at Car Nicobar and testing of equipment is under progress. Commissioning of the equipment would augment STD lines. Necessary Satellite equipment and OFC equipment sent to Hut Bay for restoration. Communication has however been established through satellite Phones in all main Islands where relief measures have been undertaken. BSNL has deputed 6 teams of 18 people along with the equipments to establish

point-to- point communication in these Group of Islands. Communication has also been established in all affected islands through Police Wireless.

**Power:** 300 Gensets have been airlifted to Car Nicobar of which 119 are now operational at Car Nicobar. Remaining DG sets have been sent to Kamorta (50), Campbell Bay (35), Katchal (20) and Hut Bay (61). Power restored partially in Car Nicobar, Kamorta, Great Nicobar and Little Andaman. 20 Nos. of 21.5 KVA trolley mounted DG sets have been sent to Car Nicobar from Agra of which 10 are operational from 5<sup>th</sup> January 2005 . 10 Nos. of Gensets are being lifted to Kamorta and Campbell Bay . 21 relief camps in Car Nicobar have been electrified on 6<sup>th</sup> January 2005 . Relief camp at Nancowry was electrified on 7<sup>th</sup> January 2005 .

**Road:** Efforts for making road clearance between Little Andaman and Hut Bay is under progress. Road clearance is being undertaken with assistance from CPMFs and Defence personnel and Tractor Detour is being opened at the sites of breaches. 20 Kms. road opened from Air Field to Muse Jetty. Balance stretch needs major repairs.

**Health: There are 25 CGHS doctors deployed; 12 in Carnic, 4 each in Katchal, nancowry & Campbell and 1 in Terrsa .** The district hospital at Car Nicobar has been operationalized. 20 staff nurses have been deployed in worst affected Islands from Central Government Hospitals. Additional 40 Paramedics have been deputed to assist the central medical teams. 3 Medical camps at Hut Bay , 3 at Car Nicobar and 01 each at Nancowry Group, Katchal and Campbell Bay are functioning. Defence personnel have also opened 02 medical camps at Car Nicobar and 01 each at Campbell bay and Hut Bay . Medical teams have also been airlifted from Bangalore to Kamorta and from Kolkata to Katchal.

**Water:** 01 Drinking water well and 4 water point have been activated with DG sets in Car Nicobar. Temporary water supply through one army and one civil well has been resumed. Restoration work for regular supply is under progress in Katchal. In other islands water is available through wells/ springs and efforts are being made to restore piped water. Air dropping of drinking water is continuing in remote areas. Water supply has been restored partially at Kamorta, Car Nicobar, Teressa, Nancowry and Little Andaman. 01 Desalination Plant (800 ltr. per day) and one Brackish Water Treatment Plant have been shipped on 6<sup>th</sup> January 2005 .

**Rescue and Relief:** Of the 38 inhabited islands, 30 islands are affected. Survey of all islands have been completed. The Islands with small population namely Bambooka, Chowra, Little Nicobar, Pilo Millow, Tilanchang and Trinket in Nicobar have been totally evacuated. Air dropping of (food packets, Drinking water, emergency medicines, household kits, milk etc.) to affected Islands is continuing. A total of 90 relief camps have been opened at 6 Islands in Nicobar districts where about 30,000 people are staying. 01 Relief Commissioner, 04 Special Relief Commissioner and 03 Special Officers have been deputed by the A & N administrations for coordinating relief and rescue operation. 2 IAS, 5 DANICS and 4 DANIPS officers have been assisting A&N administration.

**Supply of Petroleum Products (POL):** Full demand of POL products is being met. LPG stocks are being replenished on priority and additional 500 KL Kerosene has been released. ATF at Car Nicobar at Car Nicobar has been tested and found that products meet the specification. 6 ATF re-fuellers are available for dispensing. A dedicated tanker (MT Harsha) carrying 1400 KL ATF, 450 KL SKO and 5000 KL HSD reached Port Blair in the morning of 4<sup>th</sup> January 2005 from Haldia. There is sufficient stock to cover Petrol (30 days), Diesel (17 days), Kerosene (21 days), ATF (5 days at Andaman and 38 days at Car Nicobar) and LPG (11 days). LPG tanker is expected to reach Port Blair on 11.1.2005 with sufficient stock to last 75 days. A team of IOC is camping at Port Blair to monitor the stocks & supplies.

## **MAINLAND (ANDHRA PRADESH, KERALA, TAMILNADU, PONDICHERRY)**

**Shipping:** All seaports harbors are now fully functional including for export consignments.

**Civil Aviation:** All Airports are functional.

**National highway:** All national Highways are functional. The Ministry of Surface Transport have constituted and deployed Field level teams in all affected States/UTs for assessment of damage and repairs.



**Telecommunications:** There was temporary disruption in telecom facilities in the coastal areas. The telecommunication facilities have since been restored.

**Supply of Petroleum Products (POL):** Full demand of POL products is being met including LPG in the affected areas on priority. Additional Kerosene 10,000 KL each to Tamil Nadu and Andhra Pradesh, 7,000 KL to Kerala and 400 KL to Pondicherry has been released by the Ministry of Petroleum and Natural Gas.

#### **Relief and Rescue:**

**Andhra Pradesh:** the State Government is continuing the relief and rescue operation. 4 Coast Guards ships and 5 Naval ships helped in search and rescue. 101 Stationary medical Teams, 72 mobile medical teams and 568 para medical teams have been deployed to provide medical aid to the victims. The situation has improved considerably and people have since returned to their homes from the relief camps.

The Central Team deputed has returned and the State Government has projected the damage /reconstruction cost at Rs. 341.70 crore.

**Kerala:** Relief operations are continuing and Army, Navy and Coast Guards have been assisting the local administration. The priority being accorded to supply of fumigation and disinfectant in affected areas to avoid outbreak of epidemics. Roads have been cleared and supply of drinking has been restored. Adequate medical arrangements have been made. State Government has deployed 224 doctors in the affected areas. The situation has improved considerably.

The Central Team deputed has returned and the State Government has projected the damage /reconstruction cost at Rs. 1358.62 crore.

**Tamil Nadu:** Relief operations are continuing and Army, Navy and Coast Guards have been assisting the local administration. 412 relief camps have been opened where over 3,00,000 persons are staying. 750 doctors have been deputed from outside the affected districts. Two Chetak Helicopters, Two Dornier Aircrafts, Indian Naval ships and one Coast Guard helicopters were deployed at Nagipattanam. Indian Navy diving team is continuing operations in Vellar River in Chennai for clearance of fishing nets and location of dead bodies. Union Health Minister is camping at Chennai and coordinating with the State authorities for providing medical relief and prevent outbreak of epidemics. 16 ships, 09 helicopters and 02 fixed wing aircrafts of Indian Navy are deployed for relief operations. Ministry of Shipping, Road Transport & Highways has made operational the ferry service, as a short term measures pending the installation of temporary bridge with Steel bridge & Steel Deck, which will take about two months, in place of damaged bridge of Pazhyar near Kanhyakumari.

The Central Team deputed has returned and the State Government has projected the damage /reconstruction cost at Rs. 4799.54 crore.

**Pondicherry :** Relief operations are continuing and Army and Navy have been assisting the local administration. One ship of Coast Guard is also engaged in relief and rescue operations in Kariakal area. The situation is gradually returning to normalcy. The fishermen in Pondicherry region have slowly started venturing into the sea for fishing activities. The fishermen in Kariakal region are being periodically counsellors.

The Central Team deputed has returned and the Government of Pondicherry has projected the damage /reconstruction cost at Rs. 500.65 crore.

#### **RELIEF ASSISTANCE FROM STATES AS ON DATE:**

**Karnataka:** 302.83 MT of relief materials worth Rs. 14.50 crore.

**Maharashtra :** 792 MT of relief materials

**Orissa:** 170.35 MT of relief materials

**West Bengal :** 111.20 MT of relief materials

**Delhi :** 151.90 MT of relief materials

**MP:** 7.0 MT of relief materials

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