

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

Subject: Tsunami impact (26th 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. 111 aftershocks have been reported so far of which 99 are between >5.0-6.0< and 12 are > 6.0 on Richter scale. The death toll is at 9682. 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. As per preliminary estimates a total financial loss for the mainland states of Tamil Nadu, Andhra Pradesh, Kerala and Pondicherry is estimated at Rs. 5322. 05 crore (US dollar 1.18 billion). The figures for Tamil Nadu are Rs. 2730.70 crore, Andhra Pradesh Rs.720.73 crore, Kerala Rs. 1358.62 crore and Pondicherry Rs.512 crore. The detailed damage assessment for A&N Islands is being made.
4. A&N administration have evacuated the people from smaller Islands to 8 Islands; 6 in Nicobar and 2 in Andaman where the relief efforts are concentrated. 41227 persons are in 111 relief camps. All relief camps in Nicobar are being run by the administration. A few camps in Andaman (Port Blair) are being run by Nehru Yuva Kendra Sangathan, Rama Krishna Mission and Marwari Association. Islands from where the population has been completely evacuated are Bambooka, Chowra, Little Nicobar, Pilo Millow, Tilanchang and Trinket in Nicobar.
5. The power supply in the A&N Islands is based on Diesel Gensets. 715 Diesel Gensets have been sent and distributed to different Islands . Telephone lines in Andaman except Little Andaman (Hut Bay) are functional. Telephone lines in Car Nicobar, Kamorta are partially restored. All the affected Islands are provided with satellite telephones and point-to-point communication established including police wireless system. Three Jetties; one each at Car Nicobar, Nancowry (Kamorta) and Nancowry (Champin) are fit for operations. Central Para Military and Defence personnel are helping in road clearance and other relief activities. The Ministry of Health is monitoring the situation round the clock and there are no reports of epidemic.
6. As per the field reports received by the Ministry of Shipping, Road Transport and Highways, 162 Km. of National Highways and 462 Km. of State/district Highways, 7 bridges and 34 culverts have been damaged due to Tsunami in all mainland States/UTs. Team of officers have been dispatched on 05.1.05 for repair of Jetties and other structures.

7. A total of 1922.20 MT relief materials (631.88 MT by Air and 1290.32 MT by ship) has been delivered to A&N Islands comprising of 499.90 MT food items, 486.14 MT drinking water, 104.24 MT medicines/disinfectant, 10045 tents, 26563 torches, 715 Gen. Sets, 82 Pump sets. The movement status of relief material for all affected States/ UTs is in [Annexure-III](#).

8. The detailed situation report is in [Annexure IV](#).

9. The situation report can also be viewed at Web 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- 26th December 2004

| Name of States/ UT/ | Districts/Islands | Human lives lost | Total Persons missing including fishermen | Persons moved to safer places | No. of Relief Camps/persons in the camps |
|--------------------------|--------------------------------------|------------------|---|-------------------------------|--|
| A & N Islands | Bambooka | 00 | 06 | | Evacuated |
| | Car Nicobar | 336 | 494 | 4449 | 39/20000 |
| | Chowara | 40 | 14 | 09 | Evacuated |
| | Great Nicobar/ Cambell Bay | 102 | 16 | 1300 | 14/4678 |
| | Kondul | 38 | | | Evacuated |
| | Kamorta | 33 | 438 | 300 | 5/1180 |
| | Katchal | 96 | 4657 | 100 | 5/2000 |
| | Little Andaman | 37 | 12 | 3315 | 7/ 7000 |
| | Little Nicobar | 43 | | | Evacuated |
| | Middle Andaman | 03 | | | |
| | Nancowry | 01 | 01 | | 19/ 550 |
| | Pilmillow | 163 | | | Evacuated |
| | Trinket | 03 | 224 | | Evacuated |
| | Terassa | 01 | 52 | | 8/1500 |
| | South Andaman includes Port Blair | 05 | | 2095 | 14/4319 |
| Strait Island | 00 | 00 | 29 | | |
| | Total | 901 | 5914* | 11597 | 111/ 41227 |
| Andhra Pradesh | Krishna | 27 | | | |
| | Guntur | 12 | | | |
| | Nellore | 20 | | | |
| | Parkasham | 35 | | | |
| | West Godavari | 08 | | | |

| | | | | | |
|----------------------------|--------------------------|-------------------------|--|--------------------------------------|---|
| | East Godavari | 03 | | | |
| | Visakhapatnam | 00 | | | |
| | Total | 105 | 11 | 34,264 | People gone back. All 65 Relief Camps closed |
| Kerala | Kollam | 130 | | | |
| | Allappuzha | 35 | | | |
| | Ernakulam | 5 | | | |
| | Total | 170 | | 22474 | 35/ 22474 |
| Name of States/ UT/ | Districts/Islands | Human lives Lost | Total Persons missing including fishermen | Persons moved to safer places | No. of Relief Camps/persons in the camps |
| Tamil Nadu | Chennai | 206 | | 30000 | 25/ 30000 |
| | Cuddalore | 606 | | 61054 | 38/24204 |
| | Kancheepuram | 128 | | 60000 | 44/ 28792 |
| | Kanyakumari | 817 | | 46280 | 62/ 41250 |
| | Nagapattinam | 6023 | | 196184 | 96/91036 |
| | Pudukottai | 15 | | 4857 | 7/ 4857 |
| | Ramanathapuram | 6 | | 8350 | 36/ 8350 |
| | Tiruneveli | 4 | | 11170 | 20/11170 |
| | Thoothukudi | 3 | | 13072 | 23/11625 |
| | Thiruvallur | 28 | | 15600 | 13/4700 |
| | Thanjavur | 24 | | 4600 | 13/ 4600 |
| | Tiruvarur | 16 | | 11295 | 21/ 11295 |
| | Villupuram | 47 | | 37500 | 14/37500 |
| | Total | 7923 | | 499962 | 412/ 309379 |
| Pondi chery | Karaikal | 476 | 77 | 15000 | 22/ 5400 |
| | Pondicherry | 107 | 9 | 55000 | 26/ 1150 |
| | Total | 583 | 86 | 70,000 | 48/ 6550 |
| | Grand Total | 9682 | 6011 | 638297 | 606/379630 |

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

Annexure -II
Ministry of Home Affairs
NDM Division

DETAILS OF IMPACT OF THE TSUNAMIS OF 26TH 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 | 17381 | 125194 | 10061 | 154193* |
| Cattle lost | 195 | NR | 9367 | 506 | 10068 |
| Cropped area (Ha) | 790 | NR | 2669 | 792 | 4251 |

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 05.01.2005 at 0900 hrs | 3063.89 MT(755 MT by Air and 1187.83 MT by Ship, 1121.20 MT by Train) |
| Total stock lifted as on 06.01.2005 at 0900 hrs. | 3469.16 MT(673.78 MT by Air and 1579.75 by ship, 1121.20 MT by Train) |
| Stock planned to be lifted as on 07.01.2005 | 220 MT (80 MT by Air and 140 MT by Ship) |

Status of Relief Materials Movement

| Item | Total resources mobilized (in MT) | Cumulative lifting/ delivery (in MT) | Lifted/ Delivered on 5 th Jan. 2005 | Planned for dispatch/delivery MT |
|------|-----------------------------------|--------------------------------------|--|----------------------------------|
| | | | | |

| | | | | |
|-----------------------------------|----------------|----------------|---------------|---------------|
| Food items | 1371.40 | 1315.30 | 125.48 | 56.10 |
| Water | 587.14 | 547.14 | 178.66 | 40.00 |
| Emergency medicines/disinfectants | 118.24 | 86.04 | 2.26 | 32.20 |
| Tentage | 498.85 | 328.15 | 46.76 | 170.70 |
| Clothing | 256.48 | 205.03 | 3.69 | 51.45 |
| Lighting material | 30.62 | 30.61 | 0.16 | 0.01 |
| Diesel Gen. Sets./pumps | 142.00 | 108.00 | 0.00 | 34.00 |
| House hold items | 76.91 | 76.91 | 15.51 | 0.00 |
| Equip. & Machinery | 859.99 | 771.99 | 33.40 | 88.00 |
| Total | 3941.62 | 3469.16 | 405.86 | 472.46 |

Status of delivery of High Priority Items

| Item | Cumulative stock dispatched | Dispatched/ delivered as on 05.01.05 | Planned for dispatch 06.01.05 |
|-------------------|-----------------------------|--------------------------------------|-------------------------------|
| Water (MT) | 547 | 84 | 80 |
| Food Packets(MT) | 78 | 21 | 20 |
| Food Stuff (MT) | 1294 | 104 | 100 |
| Small Tents (No.) | 10404 | 1870 | 300 |
| Large Tents (No.) | 1441 | 0 | 100 |
| Torches | 36563 | 0 | 100 |
| Generators | 715 | 0 | 10 |
| Pump Sets | 82 | 0 | 5 |

Status of deployment of Medical Teams/Disaster Response Teams and Volunteers

| Type (number of persons) | Mobilized | Deployed |
|--|-------------|-------------|
| Specialized Medical Intervention Teams | 148 | 148 |
| Disaster Response Teams | 2222 | 2156 |
| Disaster Volunteers Teams | 100 | 100 |
| Total | 2470 | 2404 |

No. of Aircrafts made available as on:

| | |
|--------------------|--|
| (i) 05.01.05 (MHA) | : 3 IL-76, 8 AN 32 1 Blue Dart Aircraft, 1 Alliance aircraft |
| | 2 AVRO, 5 MI 8, 5 MI 17, 4 Chetak, 1 Dornier |
| (ii) 06.1.05 (MHA) | : 2 IL-76, 3 AN 32 1 Blue Dart Aircraft, 1 Alliance aircraft |
| | 2 AVRO, 5 MI 8, 25 MI 17, 4 Chetak, 1 Shipping, 1 Dornier, |

ANNEXURE- IV

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

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 11 civil medical teams at Port Blair. Director General Health Services 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. 10 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 these almost half of them have suffered substantial damage. 25 Nos. are now operational, in which 11 Jetties in Andaman district. A team from Ministry of Shipping is being deputed on 05.1.05 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. 121 persons and 27 MT of relief materials was carried by India Airlines/Alliance Air on 4th January 2005 in 5 flight to Port Blair.

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%. 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 more than 11000 people are staying in these camps. There is sufficient drinking water supply in Port Blair and water is being air dropped in other Islands. 11 more 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. 22 MT of relief materials is planned to be airlifted on 5th January 2005.

Deployment of CPMFs (Relief Teams)

| Name of Islands . | CRPF | CISF | BSF | ITBP | RAF | Total |
|--------------------------|-------------|-------------|------------|-------------|------------|--------------|
| Car Nicobar | -- | 100 | -- | 51 | -- | 151 |
| Katchal | -- | -- | 315 | 205 | -- | 520 |
| Campbell Bay | 150 | -- | -- | -- | -- | 150 |
| Port Blair | 699 | -- | 62 | 32 | 246 | 1039 |
| Hut Bay | -- | 142 | -- | -- | -- | 142 |
| Grand Total | 849 | 242 | 377 | 288 | 246 | 2002 |

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.

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 Cambel 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 is being deputed on 05.1.05 for making assessment of repairs Four Ships of Indian Coast Guard are deployed in relief and rescue operations. Jetty at Car Nicobar, Nacowry, Kamorta are operational.

Civil Aviation: The airport is functional only for An-32 flights. 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: 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. Of the 3 telephone exchanges in Great Nicobar Island, 01 at Campbell Bay is operational, 03 in Car Nicobar Island, 01 at Car Nicobar is functional and 04 at Nicobar group of Islands, 01 at Kamorta is working. 02 others at Katchal, Nancowry and Teresa are not working. 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 are being 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 now operational on 5th January. 10 Nos. of Gensets are being lifted to Kamorta and Campbell Bay .

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: The district hospital at Car Nicobar has been operationalized. 23 doctors at Car Nicobar, 5 at Teresa, 4 each at Katchal, Nancowry and Kamorta and 8 at Great Nicobar are deployed. 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. Medical camps, 3 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, Teresa, Nancowry and Little Andaman.

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 Bamboka, Chowra, Little Nicobar, Pilo Millow, Tilanchang and Trinket in Nicobar have been totally evacuated. 15 Ships of Navy and Coast Guards and 16 Aircrafts fixed wings/Helicopters have been pressed in to service for relief and rescue work. Coast Guard has deployed 20 ships, established 14 relief camps and 01 medical camp in Campbell area. 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. Defence forces have established 20 resettlement colonies and distributed 45 MT of rations in Car Nicobar. 14 Camps established by Navy at Katchal, Teressa, Kamorta and Nancowry. Relief materials (food, water, medicines etc) dispatched to Little Andaman (61 MT), Car Nicobar (112 MT), Nancowry, Kamorta and Katchal (116 MT) and Campbell Bay (23 MT) till 5th January 2005 . In addition, tents, Kerosene, Diesel, POL have also been dispatched to these Islands . Dog Squad and handlers have been airlifted to Car Nicobar for search operations.

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 4th 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. All fuel requirements are being met by IOC.

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 Stationery 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 State Government has made a damage assessment of Rs. 720.73 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 State Government has made a damage assessment of 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 Nagipattnam. 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.

The State Government has made a damage assessment of Rs. 2730.70 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 State Government has made a damage assessment of Rs. 512 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: 171.7 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
