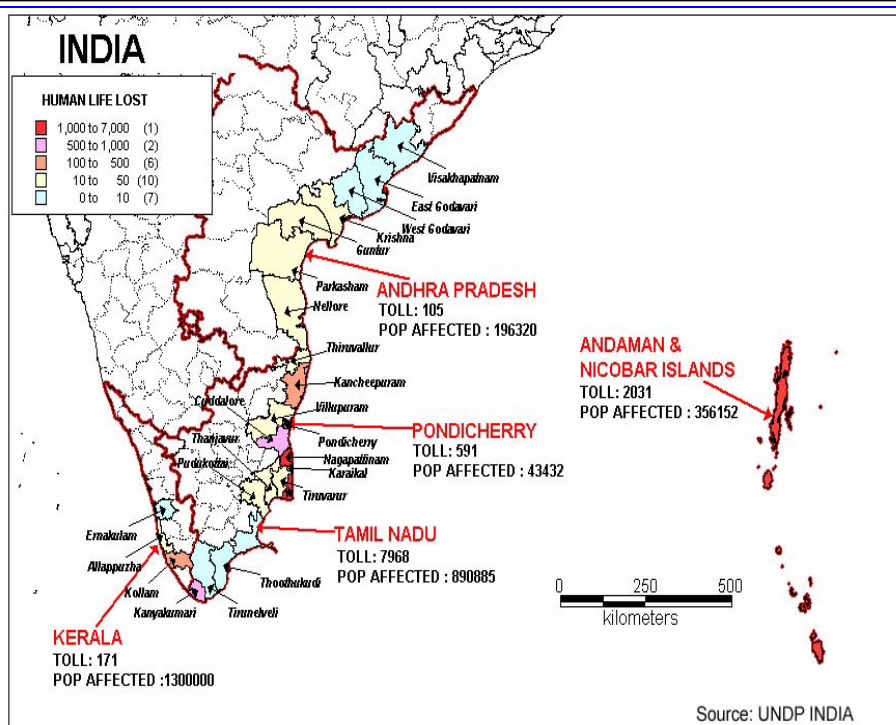


## UNDMT SITUATION REPORT – INDIA

**EARTHQUAKE AND TSUNAMI -Recovery /Rehabilitation Phase**

**DATE: 11.02.05**

A massive earthquake of magnitude 9.0 (USGS), hit Indonesia (off the West Coast of Northern Sumatra) on 26<sup>th</sup> morning at 06:58 AM. Another earthquake of Magnitude 7.3 occurred 81 kms W of Pulo Kunji (Great Nicobar, India) at 9:51:26 AM (IST) This triggered the Tsunami wave in south-east and South Asia. In India the Tsunami caused extensive damage in Andaman & Nicobar Islands (UT) and in the coastal districts of Andhra Pradesh, Kerala and Tamil Nadu states and UT of Pondicherry affecting approximately 2260 KM of the coastal area beside Nicobar islands. The tidal waves that struck the mainland were of the height of 3 to 10 meters. The waves penetrated into the mainland from 300 meters to 3 Kms. Nagapattinam and Chennai ports and Machilipatnam, located in direct lines to the epicenter of the earthquake had tidal waves rising more than 3 m (10 feet) causing maximum damages along the coastal areas as the continental shelf is abrupt at Chennai and Nagapattinam while with the continental shelf slope being very gentle at Machilipatnam.



### DETAILS OF IMPACT OF THE TSUNAMIS

Details	Andhra Pradesh	Kerala	Tamil Nadu	Pondicherry	A&N Islands	Total
Coastal Length affected in km	985	250	1000	25	NR	2260
Penetration of water into main land in Km.	0.50-2.0	1-2	1-1.5	0.30-3.0	NR	
Average height of the tidal wave (Meters)	5 Mtrs.	3-5 Mtrs.	7-10 Mtrs.	10 Mtrs.	NR	
No. of Villages affected	301	187	376	33	30 Islands	927
No of Districts Affected	7	3	13	2	2	27
Population(Total forA&N/Affected for others)	196320	1300000	896163	43432	356152	2792067
Human lives lost	105	171	7983	591	2031	10881
Total Persons missing include fisher men	11		66	75	5640	5792
Dwelling units	1557	17381	128394	10061	NR	157393*
Cattles lost	195	NR	9559	506	NR	10260
Cropped area(Ha)	790	NR	10245	792	NR	11827
Boats Damaged	1362	10065	45920	6678		64025
Persons moved to safer places	34264	24978	499962	70000	19271	648475
No. of Relief Camps/persons in the camps	65relief camps closed	29/24978 Relief camps closed	58/44207	48 relief camps closed	160/40964	360/110149
Projected Damage Reconstruction Cost (Rs Billion)	3.417	135.8	479.9	5		

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

## GOVERNMENT RESPONSE

### National Level

Ministry of Home Affairs Nodal Ministry for coordinating relief and response in all the affected States/ UTs. Under the Chairmanship of the Prime Minister the relief and rehabilitation efforts was reviewed. A National Crisis Management Committee, under the chairmanship of the Cabinet Secretary was established to oversee the relief and rescue operations in the affected regions of Tamil Nadu, Andhra Pradesh and Andaman Nicobar Islands. The operations was carried out with support from GOI, Secretaries of concerned Ministries/Departments and Chiefs of the Armed Forces. Affected states have been allocated funds from the National Calamity Contingency Fund (NCCF). Under the Chairmanship of Secretary, (Boarder Management) GOI, the National Crisis Management Group comprising members from Finance, Animal Husbandry, Surface Transport, Agriculture, Women and Child Development, Education, Rural Development and Water Resources ministries were reviewing the operations carried out the state government district administrators The projected damage/ reconstruction cost in the affected states was estimated to be at Rs 70.00 billion. An Integrated Relief Command (IRC) for Andaman & Nicobar Group of Islands is operational and is co-coordinating the rescue, relief and rehabilitation operation. At an all India Political Party meeting the Government informed that a Bill will be introduced in the Parliament. During the coming Budget Session establishing the *National Disaster Management Authority* and the Central Legislation on Disaster Management will be considered.

Ministry of Water Resources and Department of Drinking Water supply had conducted an assessment of the damages and worked out a restoration plan for Andaman and Nicobar Island. Ministry of Social Justice and Empowerment had adopted measures for rehabilitation of women, children, disable and orphans. District disability rehabilitation centers have been opened. Ministry of Power coordinated the restoration of power supply in Andaman and Nicobar islands. The estimates for restoration and reconstruction of power installation were Rs 1.5 billion. Ministry of Tribal Affairs conducted a survey of all primitive tribes in the affected island of Nicobar.

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State level	Response
ANDAMAN & NICOBAR ISLANDS	<p>Relief measures are being continued by UT Administration. Survey of all the affected islands (30) has been completed in Nicobar. An Integrated Relief Command (IRC) for A&amp;N Group of Islands is operational and continuing to co-ordinate relief operations. A&amp;N administration has evacuated 13631 persons to port Blair and 5640 to main land.</p> <p>A total of 119 relief camps were opened at 7 Islands in Nicobar district where about 27275 people are staying In Andaman District 41 relief camps are opened were 13689 persons are housed.</p> <p>Civil medical teams deployed in Port Blair and Little Andaman under the supervision of Director General Health Services and other senior officers of DGHS and ICMR. Emergency medicines and disinfectants are being delivered on priority. Trauma Specialists have also been deputed. No report of outbreak of epidemics has been received so far. The district hospital at Car Nicobar has been resumed. Medical camps are functioning in Hut Bay, Car Nicobar and Nancowry Group, Katchal and Campbell Bay. Medical teams from Bangalore and Kolkata have been deployed in Kamorta and Katchal respectively, The Port Blair Harbour is now functional. 29 jetties are now operational The Port Blair and Nicobar airport is functional. The telecommunication lines have been restored in the North, Middle, and South group of Andaman Islands.</p> <p>Power supply has been to be restored in Port Blair at Kalpong Hydro Power Station of NHPC improving power supply in North Andaman. For Nicobar Islands alternative arrangements are being made mainly by providing DG (Diesel Generator) sets. Shortage of Petroleum Products is being met. LPG stocks are being replenished on priority. Procurement of essential items for relief camps is being made locally. The provision shops and schools have re-opened in Port Blair. Relief camps in A&amp;N Islands are continuing and people are being provided with cooked food, sufficient food, water, medicines etc. are being provided and medical teams have been deployed in relief camps. The Nicobar Group of Islands would require rebuilding of dwelling units. Pending permanent housing arrangements, temporary shelters are being provided. The people in the relief camps in A&amp;N Islands would be provided temporary shelters within next one month, much before the onset of monsoon. The Central Government provided assistance of 14386 small (five men) tents and 1226 large (ten men) tents and 2, 94,000 GI sheets for construction of temporary shelters</p>
TAMIL NADU	<p>Government of Tamil Nadu issued orders on 13<sup>th</sup> January for construction of houses with all infrastructure facilities to the affected families through public/ private partnership with participation of NGOs, Voluntary agencies, Public sector undertaking, Corporate Houses etc., In continuation of the Government of Tamil , after careful consideration, has indicated that in cases where the NGOs/Corporate Houses/Public Sector undertakings/Charitable and other organizations wish to undertake one or more specific projects like construction of Schools, Child welfare Centres, Hospitals, Primary Health Centres, Community Centres, Vocational Training Centres etc., they can be permitted to do so subject to a minimum total investment of Rs. 50 million.</p> <p>In the Government Order issued on 19<sup>th</sup>, Government of Tamil Nadu has sanctioned an immediate package of assistance at a total cost of Rs.65.00 million from the State Calamity Fund in order to support interventions in livelihood sector. The above amount released by Special Commissioner and Commissioner of Revenue Administration has been re-allotted and released to the Regional Joint Director of Fisheries /Deputy Director of Fisheries for disbursement of the amount on the basis of the assessment of damages to the fishing implements due to Tsunami.</p> <p>To help students studying in the affected schools situated in the Tsunami affected areas The State Government has issued orders that a separate Public Examination for Standard X and XII (SSLC/Matric/Anglo-Indian) would be conducted for listed 66 Higher Secondary Schools and 55 High Schools separately.</p> <p>the Governor of Tamil Nadu makes an exemption in respect of tax payable on the sale of Cement, Asbestos Cement Sheets-flat or corrugated, Cement articles, Asbestos articles, Asbestos Cement by Thiruvallur Tamil Nadu Cement Corporation Limited for reconstruction works in affect the districts notified through the District Collectors</p>
ANDHRA PRADESH,	<p>The Joint Collector Krishna district held a meeting with the NGO's working for relief and long term rehabilitation, in the four affected mandals of Krishna Districts. The local NGO's were called upon to strengthen CDBP in 48 affected villages of Krishna District and were informed to of allocation of house site to NGO's who are willing to build shelters that are confirm to building standards of cyclone shelters issued by the government. The administration also highlighted intervention is required in construction and restoration of multi-purpose cyclone shelters. The state government deputed officials from Fisheries Department and SHG to conducted a joint survey of the coastal affected villages. 1600 damaged boats were identified for repair works and assistance was provided to procure new boats and one fishing net per each family. The administration organized a buyer-seller mela of fishing nets at marginal prices for fisherman in Krishna district. 15000 families were identified and an Ex-gratia amount of Rs. 3300 was provided to each affected family. The government decided to provide 50% financial assistance as grant and loan. The districts administration has sanctioned housing sites for construction of 2000 shelters.</p>
PONDICHERRY	<p>Power supply has been restored in the affected areas. One damaged Arasalar bridge at Karaikal was restored by construction of Bailey bridge by Indian Army. 4,000 Kgs. of tent materials were supplied by Defence. Medical Camps were carried out by Coastal Guards.</p>

### UN SYSTEM - RECOVERY AND REHABILITATION PHASES

During the relief phase, UN System provided support to Government of India through strengthening of the on- going programmes. The United Nations Disaster Management Team designated UNICEF as the focal point for relief activities and other agencies supported UNICEF to carry out the relief activities.

To coordinate the activities to support the Government of India's efforts in recovery and rehabilitation, the UN system has established a UN Team for Recovery Support, in Chennai. The UN team for Recovery Support group has identified the areas in which the UN's capacities can be mobilized for Tsunami recovery and rehabilitation UN coordination meeting was held in Chennai on 3<sup>rd</sup> February.

The UN system met in Delhi on 4<sup>th</sup> February and agreed to work within sub-groups based on specific area of supports extended by each UN agency. The sub-groups would develop joint strategies and specific interventions, time-frame, resource mobilization plans and identify a coordinating Agency for coordinating the efforts in Tamil Nadu and Pondicherry

Areas of support	UN Agencies	Intervention
JOINT ASSESSMENT MISSION	UN system -WB-ADB	The joint assessment mission comprising 24 sectoral experts to assess the damage, estimate the cost for reconstruction needs and sector-wise recovery planning needs for developing a framework for recovery and restoration of livelihoods.
REBUILDING LIVELIHOODS	ILO , UNIDO, FAO, UNDP	Efforts are on to organize livelihood programmes and workers education activities with social partners from workers and employers organizations. A meeting was held on 7 <sup>th</sup> February with workers organization, employers.
SHELTER AND HABITAT DEVELOPMENT	UNDP , UNIDO	Preparing guidelines on structural designs for shelters to be adopted by the Govt of Tamil Nadu.
PSYCHO SOCIAL	UNODC	An MOU would be signed with the State Government of Tamil Nadu to carry forward the UN Team Recovery Support

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SUPPORT	WHO, UNICEF, UNFPA	<p>in consultation with the State Government as per the request of the Government of India. Support to the state government for psycho-social care under the above mentioned framework will be provided. The Action Plan has been approved by the State Government.</p> <p>Facilitator's training manual for training of community level workers was submitted to the Director of Social Welfare – and subsequently has been approved. The manual will be translated to Tamil by end of the week.</p> <p>WHO conducted an orientation for resource persons on 7<sup>th</sup> of February and the training of TOT on 9<sup>th</sup> February. The funds will be provided to Directorate of Teacher Education, Research and Training and Nehru Yuva Kendra directly.</p> <p>A strategy (including manpower support needed at all levels) and a time frame for activities finalized in consultation with Ministry of Health and Family Welfare.</p> <p>Training manuals (both for adults and children) finalized and being translated into Tamil. Guidelines are being developed for community-level workers (CLWs).</p> <p>Training of trainers has commenced from 1<sup>st</sup> February. A psychosocial support cell (with a hotline) planned to be set up at the Directorate of Social Welfare, Tamil Nadu</p> <p>A MoU was signed between WHO and Dept. of Social Welfare for PSS and formation of a psychosocial cell. WHO held discussions with Director, Social Welfare, and reviewed the progress of the programme in Chennai.</p> <p>In Kerala WHO held discussions with Addl. Secretary (Health), Director of Medical Education, Director of Health Services, Secretary, State Mental Health Authority on the psychosocial support programme in Kerala. A field visit was made to the affected areas along with local doctors. Based on a series of discussions, a proposal for providing psychosocial support to tsunami-affected populations was developed. The School Mental Health module developed under the WHO-GOI collaborative programme was presented to the Ministry of Education and showed keen interest in adopting the module for Kerala schools.</p> <p>In Andhra Pradesh WHO held consultation meeting with Institute of Mental Health in Yerragadda and discussed the proposal with the Secretary, State Mental Health Authority faculty members for developing a concept/plan, which was later discussed with The Director, Medical Education for approval to develop a proposal</p>
TRAFFICKING ISSUES	UNODC; UNFPA, ILO, UNICEF, UNDP	<p>Government of Tamil Nadu is conducting a detailed household survey in the affected districts. UNICEF is funding the initiatives by Department of Social Defence to train the officials on prevention of trafficking, abuse and exploitation of Tsunami child victims.</p> <p>An orientation programme to prevent trafficking at Village level was conducted for Watch Dog Committee in Chennai. A Book on child Trafficking supported by UNICEF is under translation in local language for dissemination</p>
HEALTH	WHO, UNICEF, UNFPA	<p>Disease Surveillance in Tamilnadu</p> <p>Improving existing surveillance mechanisms; simple and practical field solutions; Building capacity through on-the-spot training; reporting and laboratory surveillance; Rapid control measures; and state-district ownership/self-reliance. Plan to strengthen 8 district-level disease surveillance cells located in Andhra Pradesh, Kerala and Pondicherry. Training of medical officers and paramedical staff has been initiated in 12 districts (including 4 districts) under tsunami support programme.</p> <p>Health System strengthening</p> <p>Public-Private Partnership for supporting various interventions and strengthening the health system service delivery is being undertaken. Private sector service provider's survey and mapping for three districts (<i>Cuddalore, Nagapattinam and Kanyakumari</i>) was conducted by UNICEF. UNICEF supported for provision of equipment to the health facilities in this district.</p> <p>Technical support would be extended to the State departments of Finance and Health for introduction of the Universal Health Insurance scheme under Government of India to cover the 220,000 fisherman below the Poverty Line in the coastal districts.</p> <p>Evidence and Information for Policy</p> <p>On request from the State Government, technical assistance has been planned for documenting the health department's response to the disaster. The <i>Plan will include guidelines on disasters management, epidemic preparedness and response, model drug formulary in disasters etc</i></p> <p>Reproductive and Child Health</p> <p>WHO held discussions with the representatives of the Federation of Obstetrics and Gynecological Societies of India (FOGSI) and Indian Academy of Pediatrics (IAP) for mobilizing support and would initiate actions focusing on maternal and newborn health services</p> <p>Immunization</p> <p>Technical assistance being provided by WHO to re-establish outreach RCH services, including routine immunization in the relief shelters in the affected districts. <i>ICDS services are being established in the relief shelters with assistance from UNICEF.</i></p> <p>Proposal for adapting IMNCI in disaster situation is being developed by WHO in collaboration with Indian Academy of Paediatrics and Institute of Child Health and with Government of Tamil Nadu.</p>
EDUCATION	UNICEF	UNICEF is carrying out a rapid needs assessment to identifying the needs for enhancing the quality of education
HIV/AIDS	WHO, UNICEF, UNFPA, UNDP, ILO	<p>UNAIDS would provide the PEP kits, which could be distributed in emergency situations and to the State Aids Control Society in Chennai. UNAIDS representative would join the Joint Assessment Mission in Pondicherry.</p> <p>UNICEF would translate the materials /guidelines on HIV provided by UNAIDS. WHO plans to integrate HIV/AIDS awareness into the recovery and Rehabilitation work.</p> <p>WHO plans to assess the mainstreaming needs of HIV prevention among the tsunami-affected populations in Tamil Nadu, WHO conducted a field visit to assess the situation, consultations with Tamil Nadu State AIDS Control Society (TNSACS), Director Professor, Institute of Community Medicine, Madras Medical College for implementation of activities.</p>
WATER SUPPLY,	WHO, UNICEF	The Health and Nutrition Assessment survey is underway.

## UNDMT SITUATION REPORT – INDIA

SANITATION, HYGIENE		<p>Technical assistance being provided by WHO for drafting of a water and sanitation plan. This will include provision of facilities for household sanitation, solid waste management, ensuring provision of clean water and monitoring of water quality, ensuring food safety; IEC and counseling for a healthy lifestyle in the relief shelters.</p> <p>Assessment of the status of water and sanitation facilities (in collaboration with the Gandhigram Rural Institute, Gandhigram) in 6 villages of Nagapattinam and 4 villages each in Kanyakumari and Karaikal districts under way.</p> <p>Chloroscopes being used by sanitary inspectors in the field for testing of residual chlorine. WHO plans are being worked out for providing technical assistance to Tamil Nadu Water and Drainage Board to assess the change of status of drinking-water quality in the coastal belt of Tamil Nadu.</p>
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### BILATERAL AGENCY /NGO'S INTERVENTION IN RECOVERY AND REHABILITATION PHASE

Organization	Assistance	Medical /Health	Psychosocial Counseling	Shelter	Sanitation & Water	Education	Livelihood	Environment	Implementing Partners
UNICEF		Medical assistance in A & N Islands							coordination with Dept of Health Services
Red Cross		Medical assistance in A & N Islands							coordination with Dept of Health Services
USAID	U.S. Government (USG), via USAID India, supports recovery initiatives valued at \$2.8 million (and expects to commit more than \$3.1 million to the recovery program).			A cash-for-work program led by World Vision India will construct 2,500 temporary shelters, under a nearly \$900,000 grant,	Grants of \$650,000 to CARE (India), and \$750,000 to Catholic Relief Services (India) are ensuring potable water and sanitation services for Indians		A grant of more than \$440,000 to Project Concern International, India, will fund recovery and rehabilitation in four villages. Activities include building temporary shelters; repairing boats for the fishing industry; starting "cash-for-work" options		Implementing partners -the India based operations of CARE, Catholic Relief Services, World Vision and Project Concern International
ECHO	Support and fund NGO partners on projects for recovery and, livelihood restoration and re-construction to be taken up in the affected villages of Tamil Nadu.								
DFID	DFID support to NGOs for transitional shelter Activities. projects.								Support Christian Aid project in Food, shelter, water and healthcare in India
OXFAM GB		water and sanitation;		Kanyakumari (TN) - provide temporary shelters 2,000 families Kollam (Kerala) - temporary shelters Cuddalore, 243 thatch-roof huts constructed for 1,215 people, Nagapattinam,- constructing 700 temporary shelters for 3,500 people					collaboration with the Government

## UNDMT SITUATION REPORT – INDIA

CARE INDIA		Child Care & Health etc. in the Andaman & Nicobar UT.	A psychosocial package, raining people at various levels — government, NGOs and local volunteers — Nagapattinam.	Nagapattinam: temporary housing for Pazhiyar village(500) Sirkazhi Block Kanyakumari: allotted 20 villages and about 4000 families on temporary shelter					association with NIMHANS, Bangalore  In consultation with the district administration
DHAN FOUNDATION				Seerkali Taluka – Kollidam Block. Chinnakottaimadu Village 42 newly constructed houses  Cuddalore District Alternate housing sites have been identified for all the 8 villages and waiting for clearance.			Chinnakottaimadu Village expressed their need for desilting and bund strengthening for continuing agriculture activities Cuddalore District. Needs assessment of the affected villages in terms of fishing boats, nets etc has been completed.		
LEAGUE FOR EDUCATION AND DEVELOPMENT (LEAD)			Cuddalore-5000 Families Carrying out survey of children and organizing counseling activities for children						
TAMIL NADU VOLUNTARY HEALTH ASSOCIATION (TNVHA)			Vallaikal Nagapattinam provided training for college students and volunteers in trauma counseling (for 1000 persons)	Chennai-petai- temporary shelter and toilets for 500 families					
JESUITS IN SOCIAL ACTION (JESA)				Nagapattinam; Nagercoil Plan to acquire land for housing		Nagapattinam; Nagercoil distribute educational materials amongst orphans			
CHURCHES' AUXILIARY FOR SOCIAL ACTION (CASA)				rebuilding 1000 houses constructing 20 multi-purpose disaster shelters in vulnerable villages in Tamil Nadu, Kerala and Andhra Pradesh			providing equipment to fishing cooperatives, desalinating 4,8000 acres of agricultural land and		
EFICOR	Providing food in camp at Port Blair			Nagapattinam- Construction of 100 temporary houses 60 toilets (Midnapur model) and 18 bath rooms have been completed Cuddalore 3 semi-permanent houses have been constructed Maramadi village in Kanyakumari district 88 out of 215 temporary shelters Kollachel village 94 temporary shelters Construction of 500 permanent houses in					completion in partnership with ESAF

**UNDMT SITUATION REPORT – INDIA**

				Kollachel village. Vaniyakudi village, 51 out 85 temporary houses are nearing completion Mandakadi, 47 temporary					
WORLD VISION			Psychosocial care	construction of temporary and/or permanent housing and cyclone shelters in Tamil Nadu Andaman and Nicobar		Children's well-being (particularly access to education)	Livelihoods security (nets and boats for fishermen as an early response)		
DAN CHURCH AID				Nagapattinam Cuddalore Kanyakumari Bapatla 3500 families –housing material for building temporary shelter -asbestos sheets, steel pipes and light roofing material, 6 villages in Tranquebar temporary permanent shelters.					
HELP AGE INDIA				Build 100 destitute homes for elderly Self Help groups of older persons formed- Nagapattinam & Cuddalore		IGP training , Self Help Groups, Capacity Building, Sambasivapuram village	Support 3500 older person in Nagapattinam, Cuddalore, Knacheepuram Kanyakumari dist TN, Kollam district –Kerala	Desalination of 1 acre of land each for 100 older persons family	
SAVE THE CHILDREN	Proposal submitted to DFID for support of livelihood intervention  Proposal submitted to ECHO for support to Child protection and Psychosocial		Project of rehabilitating ICDS- Child Development Center with State Govt. and UNICEF Child protection assessment completed in Karaikkal, Nagapattinam, Cuddalore, Kanyakumari, Villupram Community –based child protection monitoring & support system –Support Dpt of Social Welfare and UNICEF Support the network of Children 's Parliaments, Establish Children centers to be funded by ECHO				Livelihood intervention in Nellore and Prakasam District-Funded by DFID		State of Govt of Tamil , Dept of Social welfare, UNICEF, DFID, ECHO,
<b>NICOBARS DISTRICT</b> (reserve area under PAT Regulation)									
TATA Institute of Social Sciences, Mumbai			Assessment of needs and psycho-social rehabilitation. Faculty and volunteers are at Katehal Nancowry group (Teresa, Katehal, Lamorta & Nancowry)						
SANE								Conservation of ecology in Nancowry group (Teresa, Katehal, Lamorta &	

## UNDMT SITUATION REPORT – INDIA

Radha Satsangh	Somi				Construction of school buildings using pre-fab tec materials Locations finalization is under progress. Campbell Bay(Great Nicobar)					Nancowry)
Unique Services Trust. Latur					Assistance for construction of temporary and permanent shelters. Identification of locations is under progress. Campbell Bay(Great Nicobar)					
<b>ANDAMAN DISTRICT</b>										
Radha Satsangh	Soami				Construction of school buildings using pre-fab materials in Little Andaman					Locations are under discussion with Director of Education
Bharatiya Sanghatan	Jain				Construction of school buildings using pre-fab materials. Little Andaman					Locations are under discussion with Director of Education
Rotary International, Kolkata					Assistance for construction of permanent houses Little Andaman.					
Calorex Foundation					Two school buildings using pre-fab materials Little Andaman					Locations are under discussion with Director of Education

### SOURCES OF INFORMATION

Central Control Room, Ministry of Home Affairs,  
Government of India, State Government Reports,  
Media Reports,  
UN DMT Agency Reports, Assessment reports of various partner agencies.

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