ANNEX I (WORKPLAN)


The IOC-UNESCO received funding from the UNESCAP Multi-donor Trust Fund to conduct a project designed to strengthen tsunami warning and emergency response capacity. ITIC is one of the project leaders and will focus on organizing and providing the technical assistance. The ITIC will work with four countries (Myanmar, Pakistan, Philippines, and Vietnam) to build understanding and capacity to develop sound standard operating procedures for national tsunami warning centers and emergency response agencies. Three 1-week workshops will be held in each country over a 6-8 month period. Detailed results, outcomes and deliverables under Annex II: Letter of Agreement No. 207-0022 (UNESCAP/UNESCO). The ITIC will provide the deliverables, train the trainers but no necessarily will be present in all countries under this contract.

Item A.1. Develop and provide SOP training materials

Provide SOP Materials for Regional workshops and Country missions (Concept of Operation - COP/SOP Guidance and generic templates, Best Practice, other reference documents).

Total for SOP Materials for Regional workshops and Country missions $20,000

Item A.2. Prepare for and participate in Country Missions

Prepare for participating in 1-week training consultative missions to Pakistan, Myanmar, and Vietnam to build capacity to design and implement tsunami standard operating procedures for national tsunami warning centers and emergency response agencies.

Total for Prepare for and participate in Country Missions $50,000

Item A.3. Attend Project Progress meeting and coordination meetings

Total for Attend Project Progress meeting $10,000

Total Budget: $80,000

B. ITIC Training Programme-Hawaii. (ITP)

The ITIC Training Programme (ITP)-Hawaii has been conducted by the ITIC nearly annually since the 1970s. The programme brings participants to Hawaii to learn about the actual operations of the Pacific Tsunami Warning and Mitigation System, and in doing so, helps countries to build and implement their national programmes, and at the same time, establish familiarity and networking with the PTWC and fellow Member States. Typically, the training length is two weeks. A specific agenda can be customized according to the needs of participants. The training is through actual discussions with working organizations involved in the end-to-end warning system, and includes discussions on preparedness and community awareness building. The training has traditionally targeted PTWS participants and will now focus on PTWS as well as on other basins needs following guidance to be provided by UNESCO/IOC in the framework of this Implementation Partner Agreement (IPA).
**Item B.1. Support Member States participants to the ITP (Hawaii)**

Support the participation of countries in activities that strengthen national institutions for undertaking tsunami risk reduction. The activities focus on the strengthening of capacity through visits, training courses and workshops related to the establishment and/or enhancement of national tsunami warning and mitigation systems. Includes the participation of at least 2 visiting scientists for a 2-week Training Course organized in the framework of the ITSU Training Programme (ITP-Hawaii), December 2008, in Honolulu, Hawaii, USA

Total for Support Member States participants to the ITP (Hawaii) $12,000

**Total Budget:** $12,000

**C. Develop and print public awareness documents related to tsunami including brochures, CDs, posters, manuals and guides (PUB)**

The ITIC has compiled a number of basic tsunami awareness materials to support the needs of government agencies, emergency managers and educators. *Tsunami, The Great Waves* (UNESCO/IOC), *Tsunami Warning!* (UNESCO/IOC), *Earthquakes and Tsunamis* textbooks (Chile and UNESCO/IOC), the *Tsunami Safety Poster and Flyers* (UNESCO/IOC) are provided in formats to allow them to be modified to meet the needs, cultures, and languages of local communities. These files can be customized and translated; as well ITIC produces the *Tsunami Newsletter*, summarizing the activities of the former ITSU (now PTWS) and the tsunami events for which PTWC issued tsunami bulletins for.

**Item C.1. ITIC Tsunami Newsletter**

Support the publication of 4 quarterly issues of the ITIC Tsunami Newsletter (October 2008 to September 2009) for the PTWS, including design, printing, and distribution in hard copy and electronically. The Newsletter is printed in-house. Support costs are also provided by NOAA NWS.

- Color Laser Printer Maintenance and Printing Consumables: $2,000

Total for ITIC Tsunami Newsletter: $2,000

**Item C.2. ITIC Information and Library Services**

Support to maintain and improve ITIC’s electronic and web information services, and its reference library collection. Develop or improve, and distribute tsunami awareness materials. Support costs also provided by NOAA NWS.

- Information Services – software, hardware, and other maintenance costs: $500
- Library Services – collection purchases, library maintenance costs: $500
- Tsunami Awareness Materials – Development, improvement, and distribution costs: $1,000

Total for Library and Information Services: $2,000

**Item C.3. ITIC support to PTWS – publication and distribution of technical, education and awareness materials**
Support to produce, print and distribute technical, educational and awareness materials for tsunami, with main focus on PTWS member States' needs. In past, supported by NOAA NWS and non-IOC extra-budgetary or by national contributions. It includes costs for materials developed, printed, and distributed. Covers in-house duplication and third-party printing of brochures, pamphlets and other materials.

Total for ITIC Support to PTWS - publications $4,000

Total Budget: USD $8,000

D. Liaise with UNESCO's Intergovernmental Oceanographic Commission on ITIC’s international activities related to global tsunami warning and mitigation programmes

UNESCO is making a significant contribution towards the establishment of an early warning system in the Indian Ocean as recognized by the UN General Assembly\(^1\). As well, UNESCO is helping to establish these systems too in other regions of the world, convinced that such a system is needed in all oceans and seas.

The UNESCO/IOC Governing Bodies, under IOC Resolution X.23 (1977), mandated ITIC to help mitigating the effect of tsunamis throughout the Pacific and under IOC Resolution ECXXXIX-8 (2006) re-affirmed that ITIC should continue to act as the primary provider of information and expertise for technology transfer and capacity building of the Pacific. Further, Resolutions IOC XXIII.12 to 14 either welcomed the support (Indian Ocean) or decided to support through its ITIC the development of communications and capacity-building activities to assist communities to be resilient in the Pacific Ocean, the Caribbean Sea and Adjacent Regions and the North East Atlantic Ocean and Mediterranean Sea.

The US Tsunami Warning and Education Act of 3 January 2006 established ITIC as an entity of NOAA/NWS, and in Sec (7 b) called for cooperation with the Intergovernmental Oceanographic Commission.

In consequence, all international activities of ITIC will be coordinated through UNESCO to keep it consistent and coherent with the mandate and desires of its Member States.

NO budget required

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\(^1\) UN General Assembly A/RES/61/132
"12. Encourages international agencies and Governments to enhance and accelerate their support for the development, implementation and maintenance of the Indian Ocean Tsunami Warning and Mitigation System, under the Intergovernmental Oceanographic Commission of the United Nations Educational, Scientific and Cultural Organization, as the appropriate vehicle for the rapid and timely exchange of alerts and related information required to deliver effective tsunami warnings at the national level;"

UN General Assembly A/RES/62/91
"5. Urges Governments of the affected countries to identify their unmet needs in terms of financial and technical assistance in order to foster the ongoing efforts to enhance national capacity and create a reliable tsunami early warning system in the region in concert with the activities of the Intergovernmental Oceanographic Commission of the United Nations Educational, Scientific and Cultural Organization;
13. Welcomes the establishment of Tsunami Warning Focal Points capable of receiving and disseminating tsunami advisories around the clock, and encourages the continuation of the efforts of the Intergovernmental Oceanographic Commission supported by Member States, United Nations agencies and donors, including for developing national action plans for all countries participating in the Indian Ocean tsunami early warning system;"