

No. MoES/Misc/Oceanarium/1/2010

Dated 7/10/2010

GLOBAL TENDER

SUBJECT: INVITATION FOR EXPRESSION OF INTEREST (EOI) FROM INTERNATIONAL CONSULTANTS FOR PROVIDING PROJECT MANAGEMENT CONSULTING SERVICES FOR SETTING UP A WORLD CLASS NATIONAL OCEANARIUM PROJECT IN GOA, INDIA.

This invitation for Expression of Interest is open to International Consultant/Consultancy Firms with or without an Indian Partner.

The Ministry of EARTH SCIENCES (MOES), Government of India – the employer/Executing Agency on behalf of the President of India – has decided towards the implementation of a State-of-Art OCEANARIUM Project in Goa, India

The Ministry of EARTH SCIENCES (MOES), Government of India invites Expression of Interest (EOI) from International Consultants/Consultancy Firms/Consortium with or without an Indian Partner. The State level Coordinating and implementing Agency(s) for the Project is the National Centre for Antarctic and Ocean Research (NACOR), an autonomous Society under the Ministry of Earth Sciences, at Goa. The shortlist of consultants will be done by the Ministry of Earth Sciences (MOES). The Expression of Interest (EOI) is invited as per details given below:-

1 **OBJECTIVE OF THE PROJECT:**

The objective of the project is as follows:

- a) To build and set up a modern research facility in marine biology and marine biotechnology to be used as the research base by the Indian Research institutions.
- b) To build and set up facilities for school children where they can have a unique experience to learn more about ecosystems and unique aquatic environments and the various aspects of marine life and related aspects in a natural surroundings.
- c) To popularize ocean Sciences and Technology among the visiting students, teachers, research scholars by organizing interesting films on marine life, popular lectures,

visits to the research laboratories to be set up by the Ministry in the proposed oceanarium.

- d) To generate awareness in the society about limitless resources from the ocean etc.
- e) To generate awareness of ocean ecology and sustainability of ocean animal sciences.

2. **SCOPE OF PROJECT WORK:**

The Project Management Consultants will be responsible to provide technical inputs and concept design of the National Oceanarium. The consultant will assist the MoES in formulating the tenders for architect, executing agency(ies). The consultant will assist the MoES from initialization of the concept of the completion of the project. The consultant will continue to provide assistance/support to MoES for one year after the commencement of the NATIONAL OCEANARIUM.

The consultant will be required to provide comprehensive Project Management Consultancy services for the entire project of which details are as given below:

- a) The consultants need to be experienced in managing complicated large-scale projects as a Project Managers, as well as to be involved in planning, site evaluation,, design and construction of a State-of-Art NATIONAL OCEANARIUM, infrastructure and utilities improvement projects and development of site/complex for domestic and foreign tourists on projects basis. For this purpose, the project management team of the consultants may include Architectural Specialists, Environmental Scientists, Oceanarium Technology & Management Specialists, Specialist Civil & Structural Engineers, Hydraulic design consultants, Mechanical, Electrical, Security and Communication Engineers, Specialist Human & Marketing Associated, Project Management, Disease control and health management, Disaster Specialist.
- b) The consultants will be required to carry out technical feasibility and detailed feasibility analysis in respect of the following aspects – Design and Design innovation, Technology transfer and training, Equipment imports and Hydraulic controls, Marine life support systems, Special efforts computer Hardware/Software, Fire protection and security systems, Waste Water Treatment and Sewage Treatment Plants, Construction Materials, Construction of lab proposed and quality assurance, Portion/Procurement of fish stocks, feed stocks and surveys, Emergency Evacuation Planning for visiting tourists and personnel of the National OCEANARIUM, Site beautification in adjoining Public Areas, Project Maintenance, Training and ongoing management, Technology replenishment, Technology Transfer, etc. The objective behind this is to maintain 15,000 marine animals in harmony with each other.

- c) The consultants will be required to coordinate with local responsible authorities, implementing agencies and Indian research institutions for Project implementation.
- d) As the Project will be executed in a time bound manner, the consultant should be familiar with the procurement guidelines, financial management methods and the necessary procedures followed for execution of such projects.
- e) This project aims to develop the NATIONAL OCEANARIUM with aesthetic sense along with spreading the benefits to surrounding areas and local communities. To meet this end the consultants have to ensure that their local staff acquires skill and technique to become capable of participating in the project at local levels.
- f) The consultant should have the expertise to design and develop modern and attractive facilities in the proposed NATIONAL OCEANARIUM in terms of planning, design, function and operational method.
- g) Management of tendering, approval procedures, finance and budget in addition to the implementation management of construction works such as study, planning, design and construction management will also be handled by the consultants. The Consultants will use the latest tools and techniques of Project Management.
- h) The proposed centre will be also equipped with the state-of-the-art facilities in the field of Marine Biology and biotechnology to be used as the research base by the select Indian research institutions, having collaborations with similar reputed International Oceanarium Centres abroad, to carry out live stock researches on the various aspects of Oceanarium, e.g., effects of heavy metal contamination in marine environments, exotoxicology, biomedical research etc.
- i) The consultant will play a leading role for the works of survey/investigation, planning, design development, pre-tendering and construction supervision for the following sub projects:-
 - Study, planning, architectural design, bidding document preparation for setting up a world class NATIONAL OCEANARIUM based on the site selection, site development sub-projects.
 - Services for construction management for NATIONAL OCEANARIUM and site development sub projects.
 - Link Road Improvement/construction, internal road construction, pathways, drives for all weather use by vehicles and pedestrians, elevators along with associated mechanical equipments, for convenience of elderly and disabled from the entrance lobby area to the main OCEANARIUM.
 - Visitor Centre
 - General assisting services for Project Management Unit
 - General assisting services for Advisory Committee.

- General assisting services for Site Management Unit.
- Study, planning, design and bidding document preparation for link road improvement and site development sub-projects.
- Review and monitoring services for design development for utility services sub projects.
- Assisting service for bid, evaluation and contract sub projects.
- Monitoring service for construction supervision activities of projects.
- Assisting for the development of an aesthetic content enriched dynamic website for providing complete information about the NATIONAL OCEANARIUM to the visiting tourists and the general public and its periodic updation (as and when required).

The NATIONAL OCEANARIUM will also be equipped with the following ancillary facilities:

- Audio-Visual Show, using special effects, light and sound, to entertain and educate the visitors in order to illustrate how the different creatures survive in the Sea in different environments.
- Touch pool is a facility to allow visitors to safely view and carefully handle creatures such as small sharks, sea shells, crustaceans, colorful fishes, baby sharks, etc. a great attraction for children.
- Micro world to allow the students and visitors to play back and zoom out the pictures/image of small creatures using video cameras when return to their class rooms/the place they belong to.
- The NATIONAL OCEANARIUM is also proposed to have facilities such as Souvenir, restaurants, coffee houses, library, etc.
- A convention hall with sufficient seating capacity for conducting meetings, national and international seminars, conferences, workshops, trainings etc.
- The centre will also to be equipped with Internet and modern communications facilities, a virtual museum and a library, facilities to print, bind prepare documents, presentations for students and researchers.
- It will be used as a centre for feeding, mating, spawning and behavioral studies.
- A mechanism for treatment of fishes from diseases, protozoan, microbial, parasites, infections, as well from pollutions when they are transferred to the OCEANARIUM. The facilities to undertake studies on the health aspects of ornamental, marine and cultivable fishes.
- A mechanism for training of officers and staff in the fields of marine biology, fisheries and aquaculture, marine biodiversity, marine biotechnology and environmental issues.

- Utilities including Water Supply, Water Drainage, and Electricity Supply including emergency power back up, evacuation plan for tourist and personnel of the Oceanarium in all emergencies etc.
- A facility for the research groups to extract bioactive substances from potential marine organism with a view to evaluate their pharmacological and other properties.
- To be equipped with facilities to undertake research in aquaculture, breeding of fishes, studies of endangered species. etc.
- A pavilion with seating capacity for sufficient people with dolphins and sea lions display. Pavilion for Arctic and Antarctic animals such as penguins and seals and other animals may also be considered.
- Utilities required for the main project – collection, lodging, acclimatization, regulation of feeding habits (in such a way that big fishes are not thrive on the small ones), the list of the feasible marine animals, as sub projects.
- Utilities required for the main project – Water management. The gradual modification of water parameters (salinity, hardness, acidity/alkalinity, temperature, water quality) for adaptation of the fishes to suite the changed conditions. The aspects of harmful chemicals and disposal of waste products by filtration (by physical, chemical method and biological processes), as sub projects.
- Utilities required for the main project – Wastewater treatment. The NATIONAL OCEANARIUM will also house on site – alone waste water and sewage water treatment facility using the most modern methods as sub projects.
- Utilities required for the main project – Emergency power back up of appropriate capacity, a mechanical and maintenance workshop for maintenance related works, Graphical and educational signage, laboratory equipments, compressed air system and aeration/oxygenation water for OCEANARIUM water, and for workshop maintenance and scuba diver usage, piping systems for OCEANARIUM, as sub projects.
- Supporting programs including community participation, visitor promotion, and education and training of staff and educational Officers posted at the NATIONAL OCEANARIUM Complex and others.
- Creation of virtual reality concept for oceanarium related visualization.

3. **NATURE OF SERVICE AND PROJECT DURATION:** The Project Management Consultants will be responsible to provide all technical inputs and concept design of the National Oceanarium. The consultant will assist the MoES in formulating the tenders for architect, executing agency(ies). The consultant will assist the MoES from initialization of the concept to the completion of the project. The consultant will continue to provide

assistance/support to MoES for one year after the commencement of the NATIONAL OCEANARIUM.

4. **POSSIBLE LOCATION OF PROJECT MANAGEMENT CONSULTANTS:** Goa, India

5. **POSSIBLE LOCATION OF PROJECT SITES:** Proposed location of Oceanarium is at a plot measuring 33,000 sq. mt. near Meeramar beach at Goa, India.

6. **ELIGIBILITY:**

i) The International Consultant/Consultancy Firms/ Consortium with or without an Indian Partner.

ii) The Consultant/Consultancy Firms/Consortium should have executed at least one similar mega project.

7. **FINANCIAL TERMS:**

(i) The Consultant/Consultancy Firms/Consortium will not quote any financial terms while bidding for EOI. They will also not express financial terms while presenting their concept design. The technical & financial bids in a sealed envelope will be called separately from the shortlisted Consultant/Consultancy Firms/Consortium.

(ii) No financial compensation of any sort will be provided by MoES to any Consultant/Consultancy Firms/Consortium either for attending any meeting in MoES or for presenting their concept design.

8. **DOCUMENTS TO BE SUBMITTED:**

Interested International Consultant/Consultancy Firms/Consortium for the National OCEANARIUM Project must submit the following documents:-

- Letter of Expression of Interest. It should also indicate the address for correspondence viz. e-mail, FAX, Telephone, Postal address etc.
- Experience and Capability of the applicants in the light of size and the nature of the Project. Proof of execution of similar mega project(s).
- Financial and operational capability including the balance sheets of the firms for the last 3 years certified by authorized accountants.
- Availability of experienced personnel and their areas of specialization along with their bio-data.
- A photocopy of the business registration certificate by a Competent National Authority stating the full name of the applicant, the person or persons or board authorized to represent the application, the date and place of registration as a Consultant.

- Detailed information of current and future commitments of contractual or other nature together with their financial status.
- A statement of the application that has no overdue debts towards the Revenue Authorities/ Customs of the Government of India or his home country.
- If the Applicants wish to submit further information to demonstrate their technical ability and/or to support their previous working record, they should attach such supplementary information to their applications.
- In case of consortia or more than one agency, agreements between each of the associates, their individual financial and technical capabilities with proof should be furnished.
- All information in the application shall be in English. Information in any other language shall be accompanied by the translation in English.

9. **Clarification of Expression of Interest (EOI)**; A prospective Bidder requiring any clarification of this Expression of Interest may notify in writing by fax or e-mail. The following personnel may be contacted for this purpose.

Name of the Officer	Designation	Contact particulars
Dr.M. Sudhakar	Advisor (MoES)	Tele: 011-24306825 Fax: 24362644/24360336 E-mail: sudhakarstore@gmail.com

The MoES shall respond to any request of clarification of this Expression of Interest, which it receives not later than 9/11/2010 in a pre-bid meeting to be convened on 10/11/2010 at 3.00 PM 10.

10. **Amendment (s) to the Expression of Interest**

At any time before the deadline for submission of applications, the Ministry may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective applicant, modify the Expression of Interest by amendment(s).

All prospective Applicants who have received the Expression of Interest shall be notified of the amendment(s) in writing by e-mail and/or post, and all such amendments shall be binding on them, and this Expression of Interest along with amendment(s) shall constitute the complete Expression of Interest. The amended Expression of Interest will also be kept on the website www.moes.gov.in of the Ministry.

11. **Short listing of EOI Applications and their Evaluation and Comparison**

A one-stage procedure will be adopted for evaluation of applications received with the technical evaluation being completed, using the following criteria.

S.No.	EVALUATION CRITERIA	Marks
1.	Experience in having executing similar Oceanarium project (certificate from the clients also to be enclosed).	40
2.	Technical concept design, development, implementation schedule – Presentation by the Project Management Consultants/Team Leader.	40
3.	Biodata and Experience of Subject Specialists (Please refer to S.No.2(a) and 7 above).	20

The applications of only those bidders who are found up to the satisfaction (marks more than 70) of the Ministry at the end of the technical evaluation process will be considered for short listing of their application.

12. **SUBMISSION TIME:**

Applications must be submitted in sealed envelopes clearly marked “Expression of Interests for Project Management Consultant (PMC) for National Oceanarium Project” addressed to the Tender Box, Ministry of Earth Sciences, Government of India, Mahasagar Bhavan, C.G.O. Complex, Lodhi Road, New Delhi-110001 by registered mail or by courier at the above mentioned address or if by hand, it must be dropped into the Tender Box in Room No.001, Block-12, Ministry of Earth Sciences, Government of India, Mahasagar Bhavan, CGO Complex, Lodhi Road, New Delhi from 10.00 AM – 5.00 PM on working days on or before 11/11/2010 by 2.30 PM as per the following enclosed sheet.

Global Tender Important Dates Sheet

Tender Document No.	MoES/Misc./Oceanarium/1/2010
Name of the Ministry	Ministry of Earth Sciences
Date of Issue	8/10/2010
Last date for submission of queries	9/11/2010
Date for Pre-Bid Conference	10/11/2010 at 3.00 PM
Last date and time for Receipt of EOI	22/11/2010 at 2.30 PM
Date and Time of Opening of Technical Bids	22/11/2010 at 3.00 PM
Date of Technical Presentation of the shortlisted consultants	23/11/2010 at 11.00 AM onwards.
Place of Pre-Bid Conference, Opening of EOI and technical Presentations	Conference Hall, Block No.12, CGO, Complex, Lodhi Road, New Delhi, India.
Address for submission of offer	Dr. M. Sudhakar (Advisor), Ministry of Earth Sciences, Room No.111, Block No.12, CGO Complex, Lodhi Road, New Delhi-110003, INDIA

Ministry of Earth Sciences, Government of India reserves the right to accept or reject any/all applications in part or in full -

**Dr. M.Sudhakar,
Advisor,
Ministry of Earth Sciences,
Government of India,
Date: 07/10/2010**