

Lake Conservation Authority of MP, Bhopal
EXPRESSION OF INTEREST

Lake Conservation Authority of MP invites Expression of Interest for renovation, operation and maintenance of “Jal Tarang” Bhoj Wetland Interpretation Center. Details available at website www.epco.in

Chief Executive Officer

Lake Conservation Authority of MP, Bhopal
Paryavaran Parisar, E-5 , Arera Colony, Bhopal
Contact- LCA : 0755- 2460141 or Jal Tarang : 0755 - 2661421

EXPRESSION OF INTEREST

The Lake conservation Authority of MP (MPLCA) has set up Bhoj Wetland Interpretation Centre "***Jal Tarang***" in May, 2004. It is situated on a beautiful location overlooking the Upper lake of Bhopal. Many high quality, modern and interactive exhibits have been installed to educate the visitors about lake & wetland eco-system. To renovate the ***Jal Tarang***, LCA invites Expression of Interest from reputed firms/organizations/ experts who have experience in conceptualizing, developing and operating Interpretation Centers or who have designed and/or executed projects of similar nature.

The broad objective of the assignment is to design and execute renovation plan for Jal Tarang interpretation centre on a turn key basis. Expression of Interest should be in English and include the following:

- 1 Covering letter
- 2 Plan for renovation of Jal Tarang
- 3 Detailed description of the experience of dealing similar projects along with Project Photographs, brochures etc.
- 4 Curriculum Vitae of key Personnel and other experts
- 5 Annual Audit report of the organization for last three years
- 6 Financial proposal

Interested firms/institutions/organization or individuals may send in their response in writing with complete details as mentioned above in separately sealed envelope 'A' (containing item no. 1 to 5 as above) and envelope 'B' (containing item no. 6 above) on or before ***30th June 2011 up to 5.00 PM*** to the Chief Executive Officer at the address mentioned above. Interested persons/ firms are welcome to visit the ***Jal Tarang*** on all working days between 2 PM to 8 PM except on Tuesday. ***The Chief Executive Officer, Lake Conservation Authority of M.P. reserves all the rights to cancel and /or invite fresh applications without assigning any reason.***

Chief Executive Officer

Lake Conservation Authority of Madhya Pradesh

Background Material for Expression of Interest

Lake Conservation Authority of Madhya Pradesh (MPLCA) is a registered society under the Housing & Environment Department, Government of M.P. The objective of LCA is to facilitate conservation and management of water resources of the state in environmentally sustainable manner and to generate awareness among the people to conserve these precious water resources.

Jaltarang

Lake Conservation Authority has set up Bhoj Wetland (Upper & Lower lakes) Interpretation Center 'Jaltarang' near Boat Club on Van Vihar Road. 'Jaltarang' houses various working models, touch screens, diorama, panel etc. to depict the origin of Bhoj Wetland, ecosystem structure & function, conservation principles, future course of action for the sustainable use and over time changes caused by human interference and conservation efforts made by the Government.

The Interpretation Center has been established with a view to disseminate information for increasing the awareness and sensitivity of the people towards lakes and wetlands, to create awareness about the ecological value and economic importance of wetlands ecosystem and also to educate the visitors about the necessity of conserving wetlands and water resources. A wealth of information and its interpretation has been presented with the help of text, visuals, interactive models, dioramas, computers, touch screens, etc. Thousands of people including school children have visited Jaltarang and appreciated the exhibits.

Renovation of Jal Tarang

Ever since the Jal tarang was dedicated to the city of Bhopal about 45,000 people have visited the centre. In the last five years, the visitors have used the exhibits extensively hence there is felt need to upgrade the Centre. Also the technology has also witnessed many advances and more new electronic gadgets have come in the market which can be used for effective delivery of the message. Visitors also expect to see new ideas, exhibits related to above themes. In light of the above, it is proposed to upgrade the Bhoj Wetland Interpretation Centre Jal Tarang. Following five components have been envisaged.

Scope of Work	Cost (in Rs.)
I. Repairs / Replacements of existing exhibits	
<p>1. <i>River System of M.P. Model – Gallery-I</i></p> <ul style="list-style-type: none"> i) Repainting of the model ii) Repairing of electronic system iii) Direction re-orientation of map iv) Removing side glasses and cover model with top glass 	
<p>2. <i>Bhoj Wetland Bird Diorama– Gallery-I</i></p> <ul style="list-style-type: none"> i) Repairs and repainting of diorama. ii) Replacement of backdrop vinyl iii) Repair of electronic system iv) Replacement of bird photographs on side wall. 	
<p>3. <i>Cross-section of Lake Model – Gallery-II</i></p> <ul style="list-style-type: none"> i) Repair of electronic system & repainting of model 	
<p>4. <i>Lake to Home Diorama (working model) – Gallery-III</i></p> <ul style="list-style-type: none"> i) Repainting of diorama. ii) Replacement of backdrop vinyl iii) Repair of electronic system 	
<p>5. <i>Mural in Auditorium– Gallery-III</i></p> <ul style="list-style-type: none"> i) Repairs and repainting of mural ii) Replacement of broken glass dome of mural 	
<p>6. <i>Model of Globe (Children Play Area) Gallery-IV</i></p> <ul style="list-style-type: none"> i) Repair and repainting of globe model. ii) Repair of electronic system 	
<p>7. <i>Laughing Wall Gallery-IV</i></p> <ul style="list-style-type: none"> i) Repairs and repainting of Laughing wall. ii) Repair of electronic system 	
<p>8. <i>Voting Machine Gallery-IV</i></p> <ul style="list-style-type: none"> i) Repair of electronic system 	
<p>9. <i>Replacement of all Touch Screen Monitors with SAW (Surface Acoustic Wave) technology monitors.</i></p>	

Scope of Work	Cost (in Rs.)
10. <i>Replacement of all lighting system in the Centre with CFL and LED.</i>	
11. <i>Redesign of reception centre.</i>	
<p>II. Creation of new Exhibits</p> <p>This Interpretation Center is only of its kind in the country for the conservation of urban wetland. The exhibits of Interpretation center are designed and developed under Bhoj Wetland There is need to upgrade old exhibits to attract the visitors. There is scope to add new exhibits in the Interpretation Center.</p> <p>The following ideas of new exhibits can be considered for installing in the center with Computer/Video Games etc The software for water/wetland conservation games, question answer fun games, quiz contests etc. can be developed and these computer/video games can be installed in children area. These types of games will be useful for educating children and creating awareness about lake/wetland conservation.</p>	
<p>1. <i>By-scope with digital display</i></p> <p>Modified version of by-scope can be displayed as one of the exhibits in which small video filler on wetland conservation can be shown for general awareness.</p>	
<p>2. <i>Spring Boat</i></p> <p>Spring Boat can be installed in the children play area which children can row the boat and the movement of the boat will create feeling of lake environment without any fear. The surrounding area will be developed in such a way that children can also learn the lake ecosystem by showing aquatic plant and species, lithology of lakebed etc.</p>	
<p>3. <i>Roof top harvesting/Rain Water harvesting</i></p> <p>A working model of roof top/rain water harvesting can also be displayed in the center to create awareness among the people about water conservation. The working models are available in market.</p>	
<p>4. <i>Aquarium</i></p> <p>Live model of Lake Ecosystem could be developed in big size aquariums with aeration and fluorescence facilities. This will give live impact of lake ecosystem where flora and fauna specially fish may be demonstrated to know the interrelationship of different tropic levels among the aquatic communities.</p>	
5. <i>Children's Games</i>	

Scope of Work	Cost (in Rs.)
Cubical games, Electronic Quiz Sheet, tabular games, snake and ladders, Ludo, interactive fun games etc on the theme of water/wetland conservation will be developed to educate the children through learning and doing.	
<p>6. <i>Herbarium</i></p> <p>The local and indigenous plant species including aromatic and medicinal plants could be preserved and placed in the herbarium for academic and knowledge upgradation. Visitors may identify the flora with the help of herbarium that could be helpful for them to know its utility.</p>	
<p>7. <i>Fountain of joy</i></p> <ul style="list-style-type: none"> • The sculpture gives a rural touch • Water from the pots will fall over a steel plate on which the wire frame human figures will be welded. • The impact of falling water will generate vibrations and make the figures dance. 	
<p>8. <i>Souvenirs Shop</i></p> <p>A number of souvenirs, gifts like T-shirts, caps and other items etc can be prepared for sale. These can be sold in ways that will give additional income to center. This will be equipped with :-</p> <ul style="list-style-type: none"> • Souvenir made of using local craft traditions. • Develop design for display of souvenirs items for gift/memento/water fountain shop/ water sculptures/aquariums etc. ideally suited for indoor/home decoration. 	
9. <i>Installation of new vinyl Photo-text Panels in the Centre.</i>	
10. <i>Any new proposal (if any)</i>	
(III) Development of new Information and Education Material like Brochure, Posters and Booklets on subjects of interest etc.	
(IV) Annual Maintenance Contract (AMC) for all facilities in Interpretation Centre	
(V) Operation of Interpretation Centre inclusive of AMC for all facilities.	

Seal and Signature