

	<b>WEST BENGAL POLLUTION CONTROL BOARD</b> "Paribesh Bhavan", 10A, Block-LA, Sector-III, Bidhannagar, Kolkata-700098, India
<b>Capacity Building for Industrial Pollution Management Project (CBIPMP)</b> (Loan no- 7924-IN and Credit no- 4755-IN) Advt.Ref: 006/WBPCB/WB-CBIPMP/ 2013-14      Date: 27.02.2014	
<b>EXPRESSION OF INTEREST</b>	
<p>1. This invitation for bids follows the general procurement notice WB2018 for this project that appeared in United Nations' <i>Development Business on</i> 08.05.2010. The Ministry of Environment &amp; Forests (MoEF), Govt. of India has received a credit from the International Development Association / loan from the International Bank for Reconstruction &amp; Development towards the cost of CBIPMP Project:</p>	
<p>2. The West Bengal Pollution Control Board, the Executing Agency for the State of West Bengal, intends to apply a part of the proceeds of this loan / credit for payment under the contract for the following consultancy services</p>	
<p><b>A Consultancy Services Supervision Consultant for the containment &amp; closure of MSW dumpsite at Dhapa, Kolkata</b></p>	
<p>3. The West Bengal Pollution Control Board now invites eligible consultants to indicate their interest in providing the above mentioned Services. Interested consultants must provide information indicating that they are qualified to perform the Services (brochures, description of similar assignments, experience in similar conditions, availability of appropriate skills among staff, etc.). Consultants may associate to enhance their qualifications. <i>[The "Association" may take the form of a joint venture (with joint and several liability) or of a sub-consultancy].</i></p>	
<p>4. Consultants will be selected in accordance with the procedures set out in the World Bank's Procurement Guidelines: <i>Selection and Employment of Consultants by Bank Borrowers</i> May, 2004, revised October 2006 and May 2010.</p>	
<p>5. Interested Consultants may obtain further information from Project Director, CBIPM Project, Ph- 91-33-23358213 Fax- 91-33-23352813 from 11 a.m. to 5p.m. The informations can also be obtained on the WBPCB Websites: <a href="http://cbipmp.wbpcb.gov.in">cbipmp.wbpcb.gov.in</a> or <a href="http://www.wbpcb.gov.in">www.wbpcb.gov.in</a> (select CBIPM Project).</p>	
<p>6. Expression of interest must be submitted by 2.00 p.m. of <b>17.03.2014</b> from the date of publication, (in case it falls on holiday, then the next working day shall be applicable as the last date of submission by 2.00 p.m. Expression of Interest must be clearly superscripted as "Consultancy services for Supervision Consultant the containment &amp; closure of MSW dumpsite at Dhapa, Kolkata " and may be dropped in the Box marked <b>"EOI for Supervision Consultant for the containment &amp; closure of MSW dumpsite at Dhapa "to be kept at "Paribesh Bhawan ,10A, Block – LA, Sec – III, Bidhan Nagar, Kolkata – 98. Sd/- Project Director, CBIPMP/Member Secretary, WBPCB</b></p>	

## **TERMS OF REFERENCE (TOR)**

FOR

### **SUPERVISION CONSULTANT FOR MONITORING AND QUALITY ASSURANCE OF WORKS OF CONTAINMENT & CLOSURE OF MSW DUMPSITE AT DHAPA**

#### **1. Introduction**

The Government of India, through the Ministry of Environment and Forests (MoEF) is implementing a project on Capacity Building and Industrial Pollution Management (CBIPMP) with financial assistance from the World Bank. West Bengal Pollution Control Board (WBPCB) is the nodal agency for the state of West Bengal. Under the Project, the Closure and Containment of Municipal Solid Waste (MSW) dumpsite is being implemented. A consulting firm is engaged for conducting the detailed studies of the dump, proposing remedial options, drawings for the final selected remediation plan and preparation for the bidding documents. The remedial option is finalised and the works pertaining to the containment and closure of dumpsite is under process.

In this regard, West Bengal Pollution Control Board seeks the services of an experienced Consulting firm for conducting 3rd party technical supervision, monitoring and Quality Assurance of works being implemented at closed MSW Dumpsite at Dhapa in east Kolkata.

#### **2. Site Description**

Kolkata is the capital of the state of West Bengal. The city generates about 3,500 to 3,700 tonnes of municipal solid waste daily. This waste is almost entirely disposed at the Dhapa Dumping Area which is located about 10 km south-east of Kolkata city inside the East Kolkata Wetlands (EKW). Geographically, the co-ordinates of the project site are 22°32'38.43"N latitude and 88°25'10.75"E longitude.

The Dhapa Dumping Area spread over about 35 hectares is owned by the Kolkata municipal Corporation (KMC). It consists of two unlined dumpsites spaced about 500m apart – one closed dump of area about 12.14 ha and one active dump of area of about 23 ha within Ward Nos. 57 and 58 of the KMC administrative boundaries. The area can be accessed via EM Bypass Road.

The project site is the closed dumpsite of approximately 12.14 ha with an estimated volume of 2 million m<sup>3</sup> and an area of about 1500 m<sup>2</sup> close to the dumpsite earmarked for Leachate Treatment Plant

#### **3. Objectives & Scope**

The objective of engaging the consultancy services is to assist West Bengal Pollution Control Board (WBPCB):

- i) In successful and timely completion of the project
- ii) To understand the drawings given by the remediation consultants and work in co-ordination with the remediation consultant and the contractor.
- iii) Monitoring and Comprehensive supervision of project implementation activities carried out by the contractor
- iv) To ensure compliance with the drawings, technical specifications and materials used
- v) Contract management and to suggest /assist in making engineering decisions,
- vi) Quality assurance in the execution of the works using latest tools and techniques
- vii) verification of quantities and quality, recording of measurements and certification of measurement and bills of the contractor executing the works
- viii) Monitoring of implementation of Environmental Management and safety plan being implemented by the contractor

**The Scope of the consultancy is as follows:**

1. The Consultancy firm will act as Supervision Consultant for the containment & closure of MSW dumpsite at Dhapa, Kolkata by providing expert advice to WBPCB on all the engineering aspects, design criteria given by the remediation consultant and as per the bid document of the contractor.
2. The anticipated scope of works will be related to Closure and Containment of the MSW dumpsite as per the MSW rules 2000 of Govt. of India.
3. The consulting firm shall be responsible for usage of material as specified, implementation of the works as per the design criteria in accordance with the drawings given by the remediation consultant.
4. Monitor progress of the Works, identify causes, or potential causes, of any delay and advise the Employer of suitable corrective actions in a timely manner;
5. The supervision consultant will make all necessary measurements and control the quality of works. Ensure that the quality of the works is in accordance with the contractual specifications.
6. The supervision consultant will make all engineering decisions in co-ordination and on approval of WBPCB as required for the successful and timely implementation of the project
7. Administer the closure and containment contract, approve materials and recommend variation orders to the employer for issue to contractors.
8. Associate with the tests being carried out by staff of the Contractor and undertake additional tests as necessary to ensure the quality of works.
9. Measurement of quantities and certification, recording of measurements, and verification of invoices of the contractor. All necessary arrangements for any measurements offsite or onsite have to be made by the consultant. The offsite facility shall have necessary approvals and quality certifications, while for onsite measurements calibration of the instruments with valid certification is a must.
10. Suggest justified modifications in the contractor's work program, method statements, material sources, etc., to the employer for consideration and approval.
11. Provide assistance to the Employer in respect of contract implementation, claims and other matters;
12. Advise and assist the Employer with respect to the arbitration, the appeal of arbitration or litigation relating to the works, whenever required;
13. Provide other specialist services relevant to the Project as may be agreed to, during negotiations or ordered by the Employer (WBPCB).
14. Initiate advance actions for handing over of site and/ or issue of drawings, and/ or advise Employer.
15. Furnish quality assurance System of consultant and obtain quality assurance system of Contractor and approve it in co-ordination with WBPCB
16. Review and check the safety management plan prepared by the Contractor, and undertake daily safety assessment.
17. Examine the requests for advances and monthly statements of contractors.
18. Prepare fortnightly reports fully describing the progress of work and the services rendered by the consultant during the month under review.
19. To verify the Contractor's proposed personnel for positions nominated in the Contract are in the field
20. Maintain record of measurements & provide timely certification of RA bills & final bills submitted by all contractors.
21. Ensure that the contractors submit 'As Built' drawings and certify them before the closure of the contract.

**4. Technical clarifications:**

To interact with the remediation Consultants and provide technical clarifications to the contractors on the specifications, designs and drawings of the tender document, as may be required from time to time.

**5. Qualifications and experience :**

<b>Key personnel</b>	<b>Minimum Qualification</b>	<b>Experience</b>
Team Leader – One	Graduate in Civil Engineering	Minimum 15 years in similar projects

Civil Engineers – Two	Graduate in Civil Engineering	Minimum 10 years in similar projects At least one person to have experience in Quality Control in similar projects
Environmental Engineer - One	Graduate in Environmental Engineering	Minimum 5 years in similar projects
Junior Civil Engineer - Two	Diploma in Civil Engineering	Minimum 5 years in similar projects Preferably at least one person to have experience in HSE.

Further to the above, the consultant firm is expected to have at least 5 years experience in executing or supervising landfill projects and/or similar construction projects.

**6. Timeframe:**

Fifteen months including monsoon months from the date of issue of contract.

**7. Deliverables :**

- a. Fortnightly reports on progress of the work.
- b. Monthly joint measurement reports

**N.B: After shortlisting, selection of consultant will be made under QCBS method of World Bank Procurement Guidelines for Consultants**