

# **JHARKHAND ZOO AUTHORITY**

**BHAGAWAN BIRSA BIOLOGICAL PARK, ORMANJHI, RANCHI**

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## **Notice inviting Expression of Interest**

### **(For hiring a Consultant Firm/Agency for Preparing a Detailed Project Report on Solid-Liquid Waste Management)**

#### **Notice No. 06/2021**

Sealed proposals are invited from the authorized Firms/ Agencies/ individuals for providing consultancy services to BhagawanBirsa Biological Park for Selection of a Consulting Firm/Agency for Preparing a Detailed Project Report on Solid-Liquid Waste Management in BhagwaBirsa Biological Park, Interested Service providers are required to submit their proposals along with their credentials and quote their Rate including all taxes. EOI document on Scope of work and terms and conditions can be obtained from the office of the Director, BhagawanBirsa Biological Park on payment of application fee of Rs.1000/- by cash or DD from any scheduled/nationalized bank drawn infavour of Member Secretary, Jharkhand Zoo Authority. The last date of receipt of the proposals is 03.12.2021 up to 2:30 pm. The sealed proposals would be opened on 03.12.2021 at 3:00 pm in the office of the Director, BhagawanBirsa Biological Park.

**Sd/  
Member Secretary,  
Jharkhand Zoo Authority,  
Ormanjhi, Ranchi**

# Terms of Reference for Preparing a Detailed Project Report on Solid-Liquid Waste Management

## **1. Objective of the Assignment**

The hired firm/agency is expected to prepare a Detailed Project Report (DPR) of Solid Liquid Waste Management in the area under the zoological section of the Bhagwan Birsa Biological Park, Ormanjhi, Ranchi.

## **2. Scope of work**

The Consulting firm/agency is expected to design a suitable SLWM and document it in a DPR along with all necessary technical details and associated costs. The design and layout suggested must be compliant to National/State and Social Regulations / Policies and optimal in terms of cost. Detailed scope of work is as follows:

- a) Study of secondary information and general reconnaissance of scheme area covering aspects relevant to design such as topography and layout, natural drainage pathways, quantum of waste generated, statutory clearances/approvals necessary, soil testing, etc.
- b) Detailed engineering survey of scheme area
- c) Design of SLWM (with all technical and cost related details)
- d) Environmental Impact Assessment (EIA)/ESIA of proposed solution (including applicable statutory permissions / clearances) along with Environmental Management Plan to enable compliance with applicable National and State regulations.
- e) Detailed design drawings and layout of SLWM
- f) Bills of Quantities and Materials
- g) Cost computations and detailed budget
- h) Operation and maintenance action plan

Solid Waste Management, Liquid Waste Management are to be dealt with separately. As evident from the above, the DPR must consider various environmental risks associated with the proposed project and suggest ways to manage them effectively.

## **4. Reporting**

The consultant will report to the CCF and Director, Bhagwan Birsa Biological Park and any other official(s) deputed by him/her. However, the agency will have to work in close coordination with the park management.

## **5. Deliverables and Timelines:**

The start date of the assignment is expected to be **15 November 2021**. Expected deliverables and timelines will be as follows:

| S. No. | Deliverables  | Timeline                                      |
|--------|---|---|
| 1      | Presentation of draft Inception report containing <ol style="list-style-type: none"><li>a) Overall methodology</li><li>b) Reconnaissance survey results</li></ol> | Within one month from the contract award date |

| S. No. | Deliverables   | Timeline   |
|--------|--|--|
|        | &analysis<br>c) Characterization and quantity estimation of solid and liquid waste.<br>d) Outline of proposed solution(s) with pros and cons,<br>e) DPR outline<br>f) Detailed work plan |  |
| 2      | Final inception report   | Within two months from the contract award date   |
| 3      | DPR – final DPR  | Within three months from the contract award date |

### 6. Duration of the Contract:

The outputs under this assignment are to be completed within three months from the contract award date.

### 7. Desired Profile of Agency and its Manpower

- The hired agency must have been in existence for at least 5 years in the Environmental & Engineering consultancy space, and involved in Civil / Public Health contracts that include (amongst other things) SLWM system design and management.
- The average annual turnover of the firm for the preceding three financial years should be at least Rs. 50 lakhs.
- The team members of the agency are expected to be suitably qualified and experienced in SLWM. Previous experience in SLWM system design and management is desirable. The agency should have the following personnel and their experience in relevant field:

| Sl. No. | Position    | Qualifications   | Experience  | Brief Job Description   |
|---------|-------------|--|---|---|
| 1       | Team Leader | Bachelor/Master Degree in Civil/Public Health/Environmental Engineering/Environmental Science/Forestry | 12-15 years' experience in<br>1. Quantification and characterization of different kinds of solid and liquid waste and other waste such as plastic and animal waste.<br>2. Design, construction and operation of Solid | Overall monitoring & Supervision of all activities from the quantification & characterization of different kinds of waste to the finalization of DPR of SLRM Reporting to CCF and |

| Sl. No. | Position               | Qualifications  | Experience   | Brief Job Description  |
|---------|------------------------|---|--|--|
|         |                        |   | Liquid waste Management, treatment and processing unit.<br>3. Environmental compliance requirements with respect to SLWM and other waste.<br>4. Overall team management and documentation, reporting whenever required.  | Director, Bhagwan Birsa Biological Park.   |
| 2       | SLWM Specialist (2Nos) | B. Tech in Civil/ Environmental Engineering/ Master in Environmental Science. | 5-7 years' experience in<br>1. Quantification and characterization and suitable waste management technological intervention.<br>2. Design, construction and operation of sewerage and sewage treatment/disposal systems.<br>3. Over all Solid and liquid waste management. | Preparation of outlined of DPR of SLRM, planning, execution and monitoring plan. Selection of environmental and ecofriendly SLWM technologies in and finalization of DPR of SLWM and others related works. |

The agency can mention in their bid/proposal the nature of additional manpower they will be deploying such as surveyors, field engineers, expert and academician etc.

## 10. Payments Schedule:

The Payment will be made after submission of DPR of SLWM and Bid Management to the CCF and Director, Bhagwan Birsa Biological Park, Ranchi, Jharkhand and other deployed by the authority, as follows:

| SN | Head of particulars                              | Payment installment |
|----|--|---------------------|
| 1  | On presentation and approval of inception report | 10%                 |
| 2  | On submission and approval of draft of DPR       | 30%                 |
| 3  | On submission and approval of final DPR          | 60%                 |

## 11. Confidentiality and Data Ownership:

All data is confidential and property of the Bhagwan Birsa Biological Park, Ormanjhi, Ranchi Jharkhand. No data or other information pertaining to this DPR will be shared with any third party without the written approval of the aforementioned agencies.

Sd/-

CCF & Director,  
Bhagwan Birsa Biological Park,  
Ormanjhi, Ranchi

## Proposal Application

To,  
Chief Conservator of Forests and Director,  
BhagwanBirsa Biological Park, Ormanjhi, Ranchi.

**Sub. :** Proposal “for hiring of Consultant for Detailed Project Report on Solid-Liquid Waste Management”.

Ref. :- Short EOI Notice no. 06/21 Published in news paper on.....

Sir,

With reference to the above, I hereby submit my proposal along with necessary documents for the purpose of technical approval, details of which are as follows.

| Sl. No. | Particulars  | Information provided by Tenderer |
|---------|--|----------------------------------|
| 1.      | Name of Proposer & Address.  |                                  |
| 2.      | Address Proof.   |                                  |
| 3.      | Proof of Application Fee   |                                  |
| 4.      | EMD  |                                  |
| 5.      | Copy of certificate/ Licence/ permission given by competent authority to run the concerned business. |                                  |
| 6.      | GST number and upto date GST clearance from concerned department (If applicable)                     |                                  |
| 7.      | Copy of PAN  |                                  |
| 8.      | Income Tax Returns of last three years.  |                                  |
| 9.      | Letter of undertaking that the proposer is not black listed (Form-B).                                |                                  |
| 10.     | Proof of experience.   |                                  |
| 11.     | Signed EOI Document.   |                                  |

I Submit that financial bids have been made in the prescribed forms as per the EOI. I have understood the terms and conditions of the EOI and hereby agree to follow the same for providing Advisory services.

Signature of Proposer

Telephone no. :

Seal :

**FORM A**

**Financial Bid**

Ref: EOI Notice No. 06/2021

| <b>S.N</b> | <b>Work</b>   | <b>Rate (Rs.)</b><br><br><b>Inclusive of<br/>all taxes</b> | <b>Remarks</b> |
|------------|---|--|----------------|
| 1          | Proposal “for hiring of Consultant for Detailed Project Report on Solid-Liquid Waste Management”. |  |                |

Dated :

Signature of the Proposer

Name, Address & Seal

## **FORM-B**

### **UNDERTAKING**

**Sub. :** Proposal for hiring of Consultant for Detailed Project Report on Solid-Liquid Waste Management.

I am a Proposer for providing consultancy services in pursuance of your office EOI notice no. 06/2021. I have read and understood the terms and conditions for this EOI. The information provided by me is true. I declare that no criminal proceeding is pending against me in a court of law and I or my firm/agency is not blacklisted.

I undertake to abide by the terms and conditions of the EOI, if work order is given in our favour.

Signature of Proposer

Address :

Telephone no. :

Seal :