



कार्यालय पर्यावरण वानिकी वनमंडल भोपाल (म0प्र0)

पता - 74 बंगला खेल परिसर भोपाल -462003

E-Mail :-dfoevaniki.bpl@mp.gov.in

Phone :- 0755-2462079

क्रमांक / 32  
प्रति,

भोपाल, दिनांक 05/01/24

अपर प्रधान मुख्य वन संरक्षक  
(सूचना प्रौद्योगिकी)  
मध्यप्रदेश भोपाल

विषय :-

REQUEST FOR EXPRESSION OF INTEREST (REOI) को वन विभाग की  
वेबसाईट पर अपलोड करने के संबंध में।

—00—

विषयांतर्गत निवेदन है कि पर्यावरण वानिकी वनमंडल भोपाल द्वारा फर्म/संस्थाओं से  
निम्न विषय पर दिनांक 29.01.2024 तक Eoi आमंत्रित की गई है।

**Assessment and Valuation of Plantations done under Paryavarana Vaniki  
Vanmandal Bhopal (Former Capital Project Forestry Wing), Bhopal in terms of Ecological &  
Project impact assessment, Biodiversity assessment, Carbon Stocks measurement and  
Ecosystem Services Valuation".**

प्रस्तावित Eoi का ड्राफ्ट वन विभाग की वेबसाईट पर अपलोड करने हेतु साफ्ट/हार्ड  
कॉपी में आपकी ओर संलग्न प्रेषित किया जा रहा है।

वन संरक्षक  
पर्यावरण वानिकी, वनमंडल  
भोपाल

भोपाल, दिनांक 05/01/24

पृ0क्र0 / लेखा / 33

प्रतिलिपि :- प्रधान मुख्य वन संरक्षक (अनुसंधान विस्तार एवं लोक वानिकी) मध्यप्रदेश भोपाल की  
ओर सूचनार्थ संप्रेषित।

वन संरक्षक  
पर्यावरण वानिकी वनमंडल  
भोपाल

**कार्यालय पर्यावरण वानिकी वनमंडल भोपाल (म0प्र0)**

पता – 74 बंगला खेल परिसर भोपाल –462016

**E-Mail :-dfoevaniki.bpl@mp.gov.in**

**Phone :- 0755-2462079**

**Expression of Interest (Eoi) आमंत्रण हेतु सूचना**

पर्यावरण वानिकी वनमंडल भोपाल के अंतर्गत निम्न विषय पर कार्य करने हेतु संबंधित फर्म/संस्था से Eoi आमंत्रित की जाती है।

**"Assessment and Valuation of Plantations done under Paryavaran Vaniki Vanmandal (Former Capital Project Forestry Wing), Bhopal in terms of Ecological & Project impact assessment, Biodiversity assessment, Carbon Stocks measurement and Ecosystem Services Valuation".**

उपरोक्त विषय से संबंधित अनुभव/रुचि रखने वाली संस्था/फर्म अधोहस्ताक्षरकर्ता के कार्यालय में आवेदन प्रस्तुत कर सकती है। आवेदन से संबंधित समस्त जानकारी वन विभाग की वेबसाईट (<https://www.mpforest.gov.in>) पर अपलोड की गई है। आवेदन पत्र के बारे में विवरण किसी भी कार्य दिवस पर वन संरक्षक पर्यावरण वानिकी वनमंडल भोपाल के कार्यालय से कार्यालयीन समय में प्राप्त की जा सकती है। आवेदन प्रस्तुत करने की अंतिम तिथि 29.01.2024 शाम 04:00 बजे तक।

वन संरक्षक  
पर्यावरण वानिकी वनमंडल  
भोपाल



**REQUEST FOR EXPRESSION OF INTEREST (REOI)**

**FOR**

**“Assessment and Valuation of Plantations done under Paryavaran Vaniki Vanmandal, Bhopal. (Former Capital Project Forestry Wing), Bhopal I in terms of Ecological & Project impact assessment, Biodiversity assessment, Carbon Stocks measurement and Ecosystem Services Valuation”.**

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**DFO Paryavaran Vaniki Vanmandal, Bhopal**  
**74 Bangla Khel Parisar Bhopal (M.P.)-462003**  
**Phone:- 0755.2462079 – E-Mail [dfoevaniki.bpl@mp.gov.in](mailto:dfoevaniki.bpl@mp.gov.in)**

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## Office of The DFO Paryavaran Vaniki Vanmandal,Bhopal

Expression of Interest (EOI) are invited from reputed experienced Consulting Firm/Society/ Company/Trust for “Assessment and Valuation of Plantations done under **Paryavaran Vaniki Vanmandal,Bhopal**. (Former Capital Project Forestry Wing), Bhopal in terms of Ecological & Project impact assessment, Biodiversity assessment, Carbon Stocks measurement and Ecosystem Services valuation”. The EOI should be submitted in two part Cover-I technical and Cover -II: Financial and on behalf of **Paryavaran Vaniki Vanmandal,Bhopal M.P.**.

The complete document of EOI can be viewed and downloaded from website of MP forest department (<https://www.mpforest.gov.in>). The EOI for this project can be submitted through offline (hardcopy) at the Office of Environmental Forestry Division, address Office of the Divisional Forest Officer, Paryavaran Vaniki Vanmandal,Bhoapl 74 Bangla Khel Parisar, Bhopal (M.P.) 462003.

The brief details of the REOI are as under:

Sl. No	Item	Description
1.	Mode of EOI	Technical- offline Financial - Offline
2.	Location	Bhopal, Madhya Pradesh
3.	Duration of Assignment	1 year from the date of award.
5.	Application Deadline	29.01.2024

1. All updates regarding the procurement will be available on the website only.

## DFO, Paryavaran Vaniki Vanmandal, Bhopal, M.P.

### Terms of Reference

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**Selection of a firm for “Assessment and Valuation of Plantations done under Paryavaran Vaniki Vanmandal, Bhopal. (Former Capital Project Forestry Wing), Bhopal I in terms of Ecological & Project impact assessment, Biodiversity assessment, Carbon Stocks measurement and Ecosystem Services valuation”**

#### **1. Background and Context:**

After the Bhopal gas tragedy in the year 1984, the environment of the city Bhopal had become highly polluted. Keeping in view the environment in Bhopal city, the utmost need of plantation was being felt. Illegal encroachment on government land was also seen. Keeping in view the above circumstances, Capital Project Forest Division, Bhopal was established by the Government of Madhya Pradesh by order number / 870/32/86 dated 21.02.1986 of Housing and Environment Department, under the capital project administration.

**Paryavaran Vaniki Vanmandal, Bhopal.** is working to fulfill the following objectives-

1. In Bhopal city, which is mostly hilly and stony, tree plantation should be done in a planned manner and the plants should be maintained till they are fully established.
2. Based on requirement and demand of planting site, ornamental, shade providing, flower species and plants of environmental importance should be planted.
3. Beautification of the city by planting.
4. Environmental upgradation through extensive and intensive planting as well as micro climate areas in Bhopal city.
5. Improving and upgrading the environment by planting suitable species around dirty drains.
6. Preventing soil erosion and improving landscape by soil conservation measures.
7. Planting and maintaining suitable species on the land and sites owned by government, semi-government departments, institutions, and bodies from their or environment's planning and coordination organization's budget.
8. Regular protection, maintenance, and supervision of the planted areas, cutting and pruning in a forest-enhancing method
9. Pruning/sapping and eradication of unwanted vegetation.
10. To provide study place for post graduate and research level students of various colleges by collecting various plant species (including medicinal plants) in parks at one place.
11. Preparation of plants of various wild and local species by making nurseries for planting. Preparation of organic fertilizers to meet the requirement of local plantations.



12. Proper management of small and big tree forests situated on the revenue land situated in the city and adjacent to it.
13. Plantation work in Bhoj wet land catchment area around Bada Talab.
14. Brief Summary of the projects undertaken under Paryavaran Vaniki Vanmandal Bhopal.

Sl. No	Project Name	Year	Number of sites*	Remark
1 (a)	Bhoj Wetland (Buffer Zone)	1989-2003	147	List of the plantations enclosed.
(b)	Bhoj Wetland (Road Side)	1989-2003	21	
2.	Parks and Nagar van Maintained	-	12	
3.	Urban Plantation	1986-2023	1,228	
	Total		1,408	

\*Some of the sites may be combined.

The current TOR is only for the part of the project being implemented in Bhopal, Madhya Pradesh. The project is being managed by the Principal Chief Conservator of Forests (PCCF), Research, Extension & Lokvaniki, in the State Forest Department. The project envisages to apply part of the grant proceeds for “Assessment and Valuation of Plantations done under Paryavaran Vaniki Vanmandal, Bhopal. (Former Capital Project Forestry Wing), Bhopal I in terms of Ecological & Project impact assessment, Biodiversity assessment, Carbon Stocks measurement and Ecosystem Services valuation”. Though the area may be less but it is the lungs of the city of Bhopal

## 2. Objective of the Assignment:

In order to achieve the objectives of this assignment, Environmental Forestry (Capital Project Forest wing), Madhya Pradesh Forest Department, proposes to select an independent and external consulting firm/company with the requisite skills and proven experience in the field of Monitoring and Evaluation of Plantations, Biodiversity assessment, Carbon Stock measurement, Valuation of Ecosystem Services and Project Impact Assessment (EIA) (for the project- “Assessment and Valuation of Plantations done under Paryavaran Vaniki Vanmandal, Bhopal. (Former Capital Project Forestry Wing), Bhopal I in terms of Ecological & Socio-Cultural impact, Increase in Biodiversity and Ecosystem Services).

The aim of this assignment is to assess and document the increase/change in the green cover using secondary data and satellite imagery from year 1986 to 2023, assessment of carbon stocks and carbon sequestration from these plantations, valuation of Ecosystem Services in terms of

Environmental, Socio-cultural and Economic benefits to the citizens of Bhopal city; because of the initiatives done under Capital Project by Environmental Forestry division.

Organization should have a minimum of 10 years experience in the implementation/research studies on policy issues, forests plantations monitoring, evaluation and assessment, NTFP/medicinal plants (development of protocols for sustainable harvesting processing and value addition, capacity building), Forest landscape restoration and climate change mitigation and adaptation Projects handles. The organization should have implemented at least 10 field projects during the period (10 years). These aspects will be evaluated based on publications and repots.

Team Leader	Forester/Forestry professional, forest researches and academicians having master's degree in the concerned subjects about 25 years of experience in forestry research, monitoring and evaluation of National and International projects, planning and management of forest plantations, supervised use of remote sensing and GIS application in Forestry, carbon sequestration, carbon assessment , NTFP/medicinal plants, forest ecosystem services improvement projects (ESIP) etc.
Experts	Remote sensing and GIS with degree in the subjects and work experience of about 20 years; experts of avifauna, ecological assessment, social economic experts, soil and water conservation experts with relevant higher education (Masters degree essential) , the experts should have handled projects at National/State level.

### 3. Scope of Work:

Keeping in view the above objectives of the project following is the scope of work for the proposed assignment:

1. Assessment of increase/change in the green cover because of the plantations of Environmental Forestry project.
2. Satellite image Analysis (pre and current) using google images for the project sites (1986 to 2023).



3. Valuation of Ecosystem Services and identify Environmental, Socio-cultural and economic benefits to the citizens of Bhopal from the project.
4. Measurement of Carbon Stocks and Carbon Sequestration from the plantation's sites.
5. Ecological Assessment and monitoring of Biodiversity of the plantation's sites.

The selected consulting firm/company will undertake the following specific tasks as part of the assignment. Please note, a few additional tasks may be required, if identified, during the course of implementing the assignment, which may not have been identified at this stage.

#### 4. Duration of the Assignment (Contract Period)

The total duration of the assignment is 1 year from the signing of the contract. ; renewal for any additional period will be subjected to satisfactory performance in the initial contract period and further requirements (if any) by O/o P.C.C.F., Research and Extension division, M.P. Forest Department, Bhopal (M.P.).

#### 5. Deliverables and Payment Schedule

S. No.	Deliverable	Timeline – Months from Signing of Contract	Payment - % of Contract Value
1.	Inception Report <sup>1</sup>	1 month	10%
2.	Pre-Current Satellite Image Analysis		
3.	Measurement of Carbon Stocks and Carbon Sequestration	4 months	15%
4.	Ecological Assessment and monitoring of Biodiversity of the plantation's sites and Valuation of Ecosystem Services	8 Month	20%
5.	Draft report presentation & submission <sup>2</sup>	10 Month	15%
6.	Final Report Submission (incorporating suggestions)	12 Months	40%

<sup>1</sup> The inception report **should cover** initial review of relevant documents, setting out the conceptual framework to be used in project, the key evaluation questions and methodology, including information on data sources and collection, sampling and key indicators. It should also include a timeline for the evaluation project and drafts of data collection instruments.

<sup>2</sup> The consulting agency needs to submit 03 separate reports for; 1) on Boj Wetland (Buffer and Road side ), 2) Parks and Nagar Van, 3. Urban Plantations.



## 6. Team Composition (Human Resource)

The consulting firm/company should have technical and other human resources as may be required; however, the following personnel are necessary to be deployed during the course of the assignment:

Sl. No.	Expert/Consultant Designation	Qualification	
		Essential	Desirable
1.	Forestry/ Ecosystems Service Specialist	<ol style="list-style-type: none"> <li>1. Post Graduate/PG Diploma in, Botany, forestry or Forest Management or equivalent course. (<math>\geq 50\%</math>)</li> <li>2. Minimum 10 years' experience of working in projects related to the component of Forestry and Ecosystem Services.</li> </ol>	<ol style="list-style-type: none"> <li>1. Paper published in the field of Ecosystem services.</li> <li>2. Experiences in the field of afforestation, carbon sequestration, NTFPs, sustainable land management practices, forest based livelihoods, Bio-diversity or other components relevant to the ESIP.</li> <li>3. Retired Forest officer with an experience of 25 years of service.</li> </ol>
2.	Database and GIS Expert	<ol style="list-style-type: none"> <li>1. Post Graduate in Geo-informatics or equivalent subject OR Post Graduate in Computer Science with PG Diploma in Remote Sensing / GIS Or Post Graduate in Geography.</li> <li>2. Minimum 5 years experience using GIS / RS in a professional setting.</li> </ol>	<ol style="list-style-type: none"> <li>1. Knowledge of Arc GIS, Q-GIS, Erdas and other open source SW.</li> <li>2. Experience in creating, organizing and managing GIS and spatial databases.</li> <li>3. Experience in image analysis, survey data handling.</li> <li>4. Knowledge of SQL and basis relational database usage.</li> <li>5. Proficiency in Python. Adobe Illustrator or Inkscape.</li> <li>6. Strong experience working with Microsoft Office Suite. Excel in particular.</li> <li>7. Ability to understand technical requirements and communicate lower level concepts in plain language.</li> <li>8. Fluency in oral and written Hindi and English with strong communication skills in presenting, discussing, and resolving difficult issues.</li> </ol>

3.	Carbon Forestry expert	1. Post Graduate/PG Diploma in Botany, forestry or Forest Management or equivalent course. ( $\geq 50\%$ ) 2. Minimum 5 years' experience of working in projects related to the component of Carbon stock measurement.	1. Experiences in the field of afforestation, carbon sequestration analysis and accounting
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In support of the above, the bidders shall submit the Curriculum Vitae (C.V.) of the concerned person duly signed and stamped by the authorized signatory of the bidder.

### 7. Preparation and Submission of EOI

- Consulting firms/ Company are advised to submit their EOI in the appropriate formats specified in this document as Annexures.
- Your EOI shall demonstrate technical competence and geographical experience based on project references entered in full registration under your Organization Profile in Annexure -I and Firm/ Company Experience in Annexure II .
- We encourage you to complete your registration prior to filling EOI.
- Consulting firms/ Company are requested to go through the EOI document carefully before preparing and submitting their proposal.

8. An EMD in the form of DD Rs 2.00 lakh (Two lakh) drawn in favour of DFO Paryavaran Vaniki Vanmandal Bhopal in the shape of DD Should a company the Tender Bid.

9. The proposals, which are not submitted in the required format, are liable to be rejected by the O/o DFO Paryavaran Vaniki Vanmandal, Bhopal.

- The Firms may be disqualified, if complete information sought in the EOI is not provided.
- Any proposals containing vague and indefinite expressions will not be considered.

10. At any time before the submission of proposals, O/o Divisional Forest Officer, Paryavaran Vaniki Vanmandal, Bhopal may, for any reasons, whether at its own initiative or in response to a clarification requested by a consulting firm modify the document by amendment. Chief Conservator of Forest Bhopal, will constitute a committee to evaluate the received EOIs. The



amendment will be notified in the website aforesaid and revised documents / clarification if any shall also be uploaded on the website.

#### **11 . Shortlisting Criteria:**

- The final selection of the Consulting firm/company for the said assignment will be in accordance with the Selection Based on the Quality cum Cost Based Selection (QCBS) method.
- Your technical bid will be seen first and if found eligible, the financial bid will be opened and considered.
- The stage I selection will be evaluation based on the technical qualification of the bidder. The technical proposal will have a weightage of 80% in the selection criteria. The minimum qualifying marks for technical proposal will be 75 out of 100.

#### **Stage-I**

- The Expression of Interest should include the following information, which will form part of the short-listing criteria (information in annexure 1).
- The firm/company should be in business for at least the last 05 years holding a valid Permanent Account Number (PAN)/TAN and GST Registration Number.
- The agency should have an average annual turnover of Rs. 10.00 Lakh or above for the past 03 financial years (2020 – 2021; 2021-2022, 2022-23).
- Consulting firms/company may associate with other firms in the form of a joint venture or a sub-consultancy to enhance their technical qualifications. The submission should clearly state the type of association, including whether it is a joint venture or a sub-consultancy.
- Years of experience of the firm's nature of work with similar types of requisite experience and capabilities in doing Assessment and Valuation of Plantations, Project impact assessment, Biodiversity assessment, Carbon Stocks measurement and Ecosystem Services valuation.
- Proven ability to work closely with Government Departments and coordinate with diverse government, non-governmental, and autonomous-governmental agencies.
- The agency should not have any unsatisfactory track record resulting in adverse action taken by any Government in India (an undertaking must be submitted).
- Availability of qualified experts in fields relevant to lead the proposed work.
- Proposed methodology for the scope of work.

12. Consulting firm/company qualifies for technical qualification; their financial proposal will be opened. Stage-II - The financial proposal will have a weightage of 20% in the selection process and will be evaluated based on **Budget approach/cost effectiveness**.

13. A committee constituted by the O/o P.C.C.F., Research and Extension, M.P. State Forest Department will complete the evaluation and selection of the firm.

14. Interested consulting firms/company may obtain further information at the address below during office hours i.e., 11.00 to 1600 hours on all working days.

15. Expressions of Interest must be delivered in written form and should include the firm's demonstrated capacity to provide the required expertise. Expressions of Interest must be delivered to the address below through registered post/speed post/ by hand as hard copy and soft copy (CD) latest by 29-01-2024 till 16:00 hours.

**Address for Correspondence:-**

**Paryavaran Vaniki Vanmandal,Bhopal.**

,74 Bangla Khel Parisar, Bhopal (M.P.)-462003

Phone:- 0755-2462079 & E-Mail -dfoevaniki.bpl@mp.gov.in

Website: <https://www.mpforest.gov.in/>



## Prescribed format for applying for

**Selection Of A Consulting Firm/ Company For “Assessment And Valuation Of Plantations Done Under Paryavaran Vaniki Vanmandal,Bhopal.(Former Capital Project Forest Divisionn), In Terms Of Ecological & Project Impact Assessment, Biodiversity Assessment, Carbon Stocks Measurement And Ecosystem Services Valuation”**

**I) Organizational Profile**

<b>A – Firm’s Profile (Maximum 2 pages)</b>				
1.	Name of the Organization			
2.	Postal Address			
3.	Telephone: Mobile / Fax / E-mail			
4.	Contact Person Name and Designation with contact details			
5.	Registration Details: Registered on (Date) No. of Completed Years	Provide copy of the Registration Certificate and indicate whether Society/Trust/company/Others		
6.	Financial Average Turnover: Annual turnover should be at least Rs. 30.00 Lakh during the last three financial years required (Enclose Audited Balance Sheet)	Provide turnover of the Organization (on the basis of the audited account) in the last three financial years in Indian Rupees.		
		<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>
<b>B – Firm’s Experience</b>				
1.	The firm should be in business for at least the last three years holding a valid Permanent Account Number (PAN)/ TAN and Service Tax Registration / GST Number or equivalent Registration in case of foreign applicants.			
2.	Evidence of the firm’s experience with similar types of requisite experience and capabilities in “Assessment and Valuation of Plantations done under Paryavaran Vaniki Vanmandal,Bhopal. (Former Capital Project Forestry Wing), Bhopal I in terms of Ecological & Project impact assessment, Biodiversity assessment, Carbon Stocks measurement and Ecosystem Services valuation”.			
3.	Proven ability to work closely with Government Departments and coordinate with diverse government, non-governmental, and autonomous-governmental agencies.			
4.	The agency should not have unsatisfactory track record resulting in adverse action taken by Central/State Governments in India (an undertaking must be submitted).			

**ii) EOIs will be evaluated based on the short-listing criteria listed below.**

S.No	Shortlisting Criteria	Criteria	Documents to be submitted	Proposed Scoring Criteria
1	2	3	4	5
1	The organization should be in business for at least the last three years holding a valid Permanent Account Number (PAN)/TAN and GST Registration Number.	Must Meet	Registration certificate, Copies of PAN, TAN and GST registration	-
2	The organization should have an <u>average annual turnover</u> of Rs. 30.00 Lakhs or above for the past 3 financial years (2020– 2021; 2021 – 2022; 2022-2023).	Must Meet	Statutory Audit report to be attached	-
3	Evidence of the firm's experience with similar types of requisite experience and capabilities in related assignments.	5 marks each for completed project in the field	Enclose list of relevant assignments, including evidence of conducting similar exercises in the development sector etc. with customer name and address, contact details, order value, and performance Certificates if any. Annexure-II	30
4	Proven ability to work closely with Government Departments and coordinate with diverse government, non-governmental, and autonomous-governmental agencies.	5 marks each for projects done for Govt./Semi-govt./PSU	Relevant orders, certificates, completion orders, etc. should be provided as evidence.	15
5	Availability of qualified experts in fields relevant to lead the proposed work.	10 marks each for desirable qualification and local language expert having proficiency	Consent document of the proposed expert.	30
6	Proposed methodology for the scope of work	5 marks for methodology for each scope of work		25
7	The firm should not have any unsatisfactory track record resulting in adverse action taken by any Government in India (an undertaking must be submitted)	Must Meet	As per format provided at	-
	Total Score			100



## FIRMS'S EXPERIENCE – FORMAT

Assignment name:	Country: Location within country:
Name of Client:	Address:
Duration of assignment (months): Start date (month/year): Completion date (month/year):	Total No. of staff-months of the assignment:
Approx. value of the contract (in current INR):	Estimated contract value Rs. 50.00 Lakh (Rupees fifty lakh only)
Name of associated Firms, if any:	
Name of associated consultants/Team Members:	Name of senior professional staff of your firm involved and functions performed (indicate most significant profiles such as Project Director/Coordinator, Team Leader etc):
Narrative description of Project:	
Description of actual services provided by your staff within the assignment:	

**(On the letter head of the agency/firm)**

**Declaration**

**Date:.....**

**To whomsoever it may concern**

I/We hereby solemnly take oath that I/We am/are an authorized signatory in the Firm/Society/ Company/Trust and hereby declare that "Our Firm does not face any sanction or any pending disciplinary action from any authority." Further, it is also certified that our firm does not have any unsatisfactory track record resulting in adverse action taken by any Government in India. In case of any further changes which effect this declaration at a later date, we would inform the O/o DFO **Paryavaran Vaniki Vanmandal,Bhopal M.P.** accordingly.

Authorized Signatory

(with seal)