

REQUEST FOR EXPRESSIONS OF INTEREST

(Individual Consultant - Selection)

COUNTRY: INDIA
NAME OF PROJECT: ECOSYSTEM SERVICES IMPROVEMENT PROJECT
Grant No.: TF0A3990
Assignment Title: Database and GIS expert
ReferenceNo.: IN-SPIU-MP-40451-CS-INDV

The Government of Madhya Pradesh has received financing from the World Bank toward the cost of the Ecosystem Services Improvement Project (ESIP), and intends to apply part of the proceeds for consulting services.

The consulting services ("the Services") include engagement of Individual Consultant (IC) for implementing ESIP in the state of Madhya Pradesh in the districts, divisions and landscapes selected to be treated under ESIP project. The consultant would need to look into the availability of data and identify data gaps, set out a plan for spatial and temporal data collection, its analysis resulting into prescriptions flowing from the project. IC should also facilitate the monitoring and evaluation of different components of the project. The initial duration of the contract for this assignment is for a period of two years.

The office of the Principal Chief Conservator of Forests and head of Forest Forces, (section: Green India Mission) MP Forest department, Satpura Bhawan, Bhopal invites eligible individual consultants to indicate their interest in providing the Services. Interested candidates should provide information demonstrating that they have the requisite qualifications and relevant experience in database and GIS etc.

Essential Qualification:

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
2. Minimum 5 years' experience using GIS/ RS in a professional setting

Desirable Qualification:

1. Knowledge of Arc GIS, Q-GIS, Erdas and other open source SW.
2. Experience in creating, organizing and managing GIS and spatial databases.
3. Experience in image analysis, survey data handling.
4. Knowledge of SQL and basic relational database usage.
5. Proficiency in Python, Adobe Illustrator or Inkscape.
6. Strong experience working with Microsoft Office Suite, Excel in particular.
7. Ability to understand technical requirements and communicate lower level concepts in plain language.
8. Fluency in oral and written Hindi and English with strong communication skills in presenting, discussing and resolving difficult issues.

Preference shall be given to candidates having an experience of working with Centre / State Government / Govt. Agency for GIS based project implementation.

The attention of interested Consultants is drawn to paragraph 1.9 of the World Bank's *Guidelines: Selection and Employment of Consultants [under IBRD Loans and IDA Credits & Grants] by World Bank Borrowers [Government of India, 16 August 2017]* ("Consultant Guidelines"), setting forth the World Bank's policy on conflict of interest.

A Consultant will be selected in accordance with the Selection Based on the individual consultant selection method set out in the Consultant Guidelines. A consultant shall submit individual CVs as per the prescribed format. The individual consultants are to be selected on the basis of their relevant experience, qualifications, and capability to carry out the assignment.

Expression of interest must be delivered in a written form either through postal mail or by email in the prescribed format

- Further information can be obtained at the address below during office hours [1100 to 1730 hours]:

Office of the Additional PCCF/ Nodal officer, Green India Mission,
Room no 103, Satpura Bhawan, Bhopal, Madhya Pradesh, Bhopal, 462004
E-mail: appcfjim@mp.gov.in

TOR for the position of Database and GIS expert for implementing ESIP in the state of Madhya Pradesh

A. Background of the Project

The National Mission for Green India (GIM) is one of the eight missions under the national Action Plan on climate change (NAPCC) launched in order to safeguard the country's biological resources and associated livelihoods against the perils of climate change, recognising vital impacts of Forestry on ecological sustainability, biodiversity conservation and food, water and livelihood security to the nation. The overarching objective of the mission is to increase forest tree cover in 5 M hectare of land and improve quality of forest cover in another 5 million hectare of land, in the process improving ecosystem services from 10 million hectare of these lands and Increase forest based livelihood income of about 3 million Forest dependent household and enhance CO2 sequestration by 50 to 60 million ton in the year 2020.

The state of MP has prepared a perspective plan for meeting the above challenge by identifying areas highly vulnerable To climate changes and in the process impacting the climate and in the need of immediate treatment. the areas have been identified in 18 forest divisions spread over 16 districts located in 8 different Climate based landscapes(L1 Level landscapes). For actual operation 122 Mili watersheds(L2 level landscapes) 735 Micro watershed (L3 level landscapes) Have been identified.

The ecosystem improvement project (ESIP) will support the goals of GIM by demonstrating models for adaptation based mitigation through sustained land and Ecosystem management and livelihood benefits .The pilot in Madhya Pradesh and Chattisgarh will help demonstrate the potential for nationwide scaling up of the proposed ESIP will directly support India's NDC that aims to create an additional carbon sink of 2.5 to 3 billion tons of CO2 equivalent and by adding additional forest and tree cover by 20:30.Ecosystem services improvement project. The forest divisions Taken up under the ESIP are Satna, Umaria, Dindori, South Balaghat, Hoshangabad, South Seoni, North Sagar, West Betul, Raisen, Sehore, Dhar, Jhabua, Badwani, Sendhwa, South Sagar, South Panna, Shivpuri and Sheopur.

The ESIP project has following components

1. strengthen capacity of government institutions in Forestry and Land management programs
2. Investments for improving forest quality in selected landscapes which include enhancing and restoring carbon stock in forest land
3. developing community based models for sustainable utilisation of NTFP
4. Scaling-up of Sustainable land and Ecosystem management in selected landscapes

B. Roles and responsibilities of database and GIS expert in the project:

1. the database and GIS expert would be reporting to the nodal officer Green India Mission and taking directions from him
2. the position offered is for two years which may be increased or decreased with the project depending upon the performance
3. The successful implementation of the project is highly dependent upon the performance of the database and GIS expert. The expert would be expected to look into the availability of data and identify data gaps, set out a plan for spatial and temporal data collection, its analysis resulting into prescriptions flowing from the project.
4. Information Technology wing of the department has huge data source including GIS system. the consultant should be able to understand and segregate the data sets required for formulating implementing and monitoring the ESIP project from the data available at forest department headquarters, other development agencies and the various field formation.

- 5. The ESIP project is a time bound and target oriented project with defined project development objectives with clearly defined indicators and the intermediate results as outlined in the project appraisal document of the project. Consultant should be able to quickly setup data flow systems including formats for flow of data both existing and new.
- 6. The consultant should be able to analyse the data along with the progress of a project provide meaningful indicators and solutions to the project director and the field formation, suggest mid course correction.
- 7. the expert should be able to collaborate with the partner agencies viz. ICFRE, FSI, MOEFCC, World Bank, SFRI and other Consulting agencies and ensure keeping the progress of the project as per decided time table.
- 8. should design and share periodic progress reports(weekly, monthly, quarterly and annual) with all the relevant stakeholders..
- 9. Expert should also facilitate the monitoring and evaluation of different components of the project.
- 10. Should ensure data conformity with existing data bases and identify and remove data gaps.

C. The deliverables

- 1. The expert should be able to collect, collate information about the various indicators outlined in the project appraisal document. The analysis of the data so collected should help the project to get the Milli watershed, micro watershed, district, Forest division and forest Ranges wise information regarding the following.
 - a) area of forest land and corridors under biodiversity monitoring using protocol developed by the project
 - b) Area of landscape restored through treatment with project support
 - c) people in targeted forest and adjacent communities with increase monetary or non monetary benefits from forests (disaggregated by female, ethnic minorities/ indigenous people)
 - d) average cumulative carbon sequestered per hectare in area supported by the project
 - e) targeted beneficiary groups engaged in participatory Planning under the project. the beneficiaries group include tribal, vulnerable ,Women, farmers, livestock owners, forest dependent communities, producer groups.
 - f) number of direct project beneficiaries
 - g) integrate with the ICFRE efforts on SLEM best practices implementation and identify suitable data which would be used for assessing it.
 - h) generate community level baseline assessment of livelihood dependency on NTFPs for developing local plans for sustainable and equitable use of NTFP in communities.
- 2. The information is required to be presented in tabular format as well as through GIS maps.
- 3. The information should be presented in easy to understand, and easy to use abstract tables, supported with detailed annexures and maps.
- 4. any database, application or system developed by the expert should be compatible with and fit into the broader framework of department's database as created and maintained by the IT wing of the department.

5. Interim reports, tables, analyses etc as desired by the projectunit from time to time for smooth implentation of the ESIP project.

D. Remuneration: The consultant would be suitably compensated with package commensurate with the work quality, experience richness and the value brought to the project. Depending upon the capabilities the annual package would be fixed around 6 to 8 lakh per annum on annual contract basis subject to renewal. Any revision in the package would be based upon annual performance.

Pro-forma for application

1. Advertisement number
2. Post applied for
3. Photograph (to be affixed on top right hand side of the application)
4. Name (in block letters)
5. Date of birth
6. Nationality
7. Father's / Husband's name
8. Gender
9. Permanent Address
10. Address for correspondence
11. Educational qualifications from secondary level in following format (Along with copy of self-attested certificates)

S. No.	Course	Board/University/Institute	Year	Marks in %

12. Total experience relevant to the post applied for in following format (in months)
(Along with copy of self-attested certificates)

Name of Organization	Period (from – to)	Position	Nature of work

13. Declaration: I affirm that information given in this application is true and correct. I also fully agree that if at any stage it is found that any attempt has been made by me to will-fully conceal or misrepresent the facts, my candidature may summarily be rejected or employment terminated.

Place:

(Name/ Signature of the applicant)