OFFICE OF THE CHIEF ENGINEER (PMGSY), PWD, RAJASTHAN, JAIPUR


NOTICE INVITING EXPRESSION OF INTEREST
(No. 24/RRSMP/2016-17)

Expression of Interest for appointment of consultant to provide “Consultancy Services to Develop and Implement a Sustainable Road Asset Management System in Rajasthan PWD”, is invited from eligible firms under Rajasthan Road Sector Modernization Project (RRSMP) funded by The World Bank (CF/RRSMP/16).


(Ch. Verma)
Chief Engineer (PMGSY), PWD, Rajasthan, Jaipur

Copy to following:-

1. PS to Addl. Chief Secy., PWD, Govt. of Rajasthan, Jaipur.
2. PS to Secretary, PWD, Govt. of Rajasthan, Jaipur
3. PS to Chief Engineer (Roads) & Addl. Secy, PWD, Rajasthan, Jaipur- for needful action as per the action plan for RAMS.
4. CE(PMGSY)/CE (SS) / CE (NH) / CE (OC)/ CE(Bldg), PWD, Raj, Jaipur.
5. Mesfin W. Jijo, Task team leader, World Bank, 18-20 Kasturba Gandhi Marg, New Delhi, e-mail: mjijo@worldbank.org
6. Financial advisor, PWD, Rajasthan, Jaipur
7. Addl. Chief Engineer, PWD, Zone: ............... (All)/PPP.
8. ACE (WB)/ SE(Road)/ System Analyst, CE office, PWD, Raj, Jaipur
9. The Superintending Engineer, PWD, Circle: ....... ............... (All)
11. EE-III & Non-Jal Officer IT/CIS (PMGSY)/EE-II/III/IV(WB)/ AE(En(WB), CE office, PWD, Raj, Jaipur.
12. Team Leader, PMC, RRSMP
13. Team leader, RAMS consultant (LASA), RRSMP.
14. Secy., Rajasthan builder association, Jaipur
15. Secy., Jaipur Builder association, Jaipur (PWD campus)

(Rajesh Chand Purohit)
Addl. Chief Engineer (WB)
REQUEST FOR EXPRESSION OF INTEREST
(No.24/RRSMP/2016-17)
(CONSULTING SERVICES – FIRMS SELECTION)
THE STATE OF RAJASTHAN - INDIA
RAJASTHAN ROAD SECTOR MODERNIZATION PROJECT (RRSMP)
Credit No.: 5310-IN

Assignment Title: Consultancy Services for “Consultancy Services to Develop and Implement a Sustainable Road Asset Management System in Rajasthan PWD”, Government of Rajasthan, Jaipur

Reference No.: CF/RRSMP/16

This request for expressions of interest follows the general procurement notice for this project that appeared in Development Business, December 2012.
The Government of Rajasthan (GoR) has received a Credit from International Development Association (IDA) toward the cost of the Rajasthan Road Sector Modernization Project, and it intends to apply part of the proceeds of this Credit for “Consultancy Services to Develop and Implement a Sustainable Road Asset Management System in Rajasthan PWD”.
The objective of the proposed road asset management system (RAMS) is to improve and implement a sustainable procedure of data collection on the road network and structures; set up application to input and store the data at a secured centralized facility at Rajasthan State Data Centre (RSDC); use tools in the application to evaluate, select, and prioritize road/bridge works; and disseminate road/bridge information within the department and to the public using modern technology and best practices suitable for Rajasthan PWD.

Project Outline
Rajasthan PWD intends to setup a sustainable RAMS that includes the following components;

a. Collection of spatial data of roads, bridges, culverts and other assets; data for inventory of PWD assets and other features within the R-o-W; condition data including roughness, structure/strength of the pavement; bridge inspection/condition, and traffic data using modern data collection procedure. Historical data will have to be collected from various PWD offices. Few data on road safety, environment and social will also be collected. The data collection will use automated equipment to improve the quality and reliability of data including collection of high-resolution R-o-W images. In the initial stage, data will be collected on a pilot project in selected divisions, which after necessary refinements and testing the system will be extended to the remaining network using balance data, to be collected through a separate agency.

b. Set up a web-GIS based application to define Rajasthan PWD road network database with up to date data related to traffic and socio-economic data, inventory and condition
of assets including pavements, culverts/bridges within the R-o-W along with appropriate tools for managing GIS based network data. The RAMS will allow storing of location and other data related to R-o-W features relevant to road safety assessment, and corridor & utility management. The web-GIS based application will have appropriate modern data reporting tools such as dashboard dynamic reporting, road chart, GIS map based interactive themes, and use of mobile applications. The tools will allow monitoring of the performance of ongoing and completed works using selected parameters. It should also allow community participation through innovative technology, such as mobile application to disseminate, and upload photograph and information related to road condition, traffic, emergency, works etc.

c. The web-GIS based application will have appropriate analytical tools, to be designed and implemented by the consultant, for the maintenance, preservation and upgradation of the network and for prioritization and optimization of works for different funding levels. The application will also have the capability to indicate the necessary funding required to maintain the network at a given service level and the consequences of various funding levels on the health of the network. The RAMS analytical tools should predict the future asset condition and value, agency/user costs for maintenance/improvement/upgrading treatment alternatives for various funding scenarios and evaluate them using measurable economic and engineering parameters to be decided in discussion with PWD during the project. Using these parameters, RAMS will have the facility to prioritize a list of candidate sections for PWD to further undertake detail project evaluation and allocation of resources from the budget. The system will be able to prepare a short term (1-2 year) program and a long term (5 year) plan.

A consultancy services carried out to define the specification of the proposed RAMS. The Consultant was required to provide a report on Needs Analysis, overall System Architecture, proposed data collection structure for the proposed RAMS. The Draft report of the Consultant is available on RRSMP website (Linkhttp://rrsmpwb.rajasthan.gov.in/Content/images/Uploadfiles/487a1f1a-41cc-45f4-9ef0-55db12014ace_Draft_Report_on_NASA_and_Data_Collection.pdf)

The consultant will design, develop and test the RAMS using the data collected on the pilot divisions, and demonstrate its suitability and compatibility based on the agreed upon parameters. After successful testing and user acceptance, it will migrate the application along with additional data (to be collected through a separate agency) on the remaining road network to the infrastructure of Rajasthan State Data Centre to roll out the RAMS to the entire PWD.

In order to improve technical skills and management capabilities of the PWD, the consultant will impart appropriate training and undertake skill enhancement of PWD officers to manage the RAMS efficiently and cost-effectively for road maintenance and improvement activities.

The consultant will be retained to maintain/troubleshoot/bug fix the system, based on user experience and to safeguard the application in case of a technology upgrade, for a period of 5 years after successful completion of the consultancy services.

The consultant will provide assistance to PWD’s RAMS Cell for coordinating data collection (to be done by a separate agency), validation in the field, check the compiled data and load the same to the RAMS software and prepare annual maintenance plan for the entire road network. The Consultant will also provide assistance to PWD’s RAMS Cell for preparing budget, annual report and training on RAMS to PWD.
Project Duration

The project is envisaged in two phases. The first phase involves system design, development, testing, training & implementation using the data collected on the pilot project in first 20 months. The second phase involves providing support, and state-wide implementation in the following 5 years. The software maintenance period will be for a minimum of five years after successful user acceptance testing. The payments for period beyond World Bank project closure shall be funded by GoR from its own resources.

Invitation

The Government of Rajasthan (GoR), through the Chief Engineer (PMGSY) Rajasthan PWD, invites eligible consulting firms (‘consultants’) to indicate their interest in providing these services. Interested consultants should provide information demonstrating that they have the required qualification and relevant experience to perform the services.

Expression of Interest should be submitted in sealed cover and delivered at the Office of the Chief Engineer (Roads), PWD Rajasthan on or before **28/10/2016 by 16:00 hours (IST)**. It shall be clearly marked ‘Expression of Interest to Develop and Implement a Sustainable Road Asset Management System in Rajasthan PWD’.

The submission shall only be made to following address:

**Chief Engineer (Roads)**  
Public Works Department, Rajasthan,  
Civil Lines, Jacob Road, Jaipur – 302006  
Tel: +91-0141-5110510 Fax: +91-0141-5110501  
Email: seroad@rediffmail.com

Further information can be obtained from the above address during office hours i.e. 0930 to 1800 hrs.

Selection Criteria

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, January 2011 (‘Consultant Guidelines’), setting forth the World Bank’s policy on conflict of interest.

Consultant may associate with other firms in the form of a joint venture or a sub-consultancy to enhance their qualification.

A consultant will be selected in accordance with the Quality and Cost Base Selection (QCBS) method set out in the Consultant Guidelines.

Information Required from Consultants

Consultant should provide information such as their roles in executing the above services, whether as a sole provider or as a partner in a joint venture; in the latter case, indicate the scope of work, and percentage of the value of its share of services provided. Provide details of scope of services of each assignment to demonstrate suitability for the present assignment,
and statement of assignments completed in the last ten years only, related to this assignment, (in joint venture for each firm), supported with completion certificate(s) from the employer of the services.

Instructions for submission of Expression of Interest:

1. Consultant shall read thoroughly the guidelines provided before preparing EOI proposal.
2. Consultant who meets short listing criteria, given later, shall prepare EOI as per the guidelines. If the Consultant feels to submit certain information not covered in the guidelines would be in his interest, he may submit such information. But required details as per EOI document must be submitted in stipulated formats only.
3. Duly complete in all respects Expression of Interest(Application) must be submitted together with a Letter of Intent not later than 16.00 hours (IST) on 28/10/2016. Documents in support of all qualification information shall be submitted with application as required. Application of EOI with qualification information shall be furnished on/ before the due date of submission at the address shown.
4. All Applications shall be submitted in English language only.
5. An association of the consultants can take either the form of Joint venture or a sub consultancy. In case of Joint venture a letter of intent indicating their intent to form a joint venture shall be submitted duly signed by all the members. An authorized representative of the Lead member shall sign the original submission letters in the required format for EOI submission and shall initial all pages. The firm providing the core expertise is to be designated the leading firm with all other partners being qualified to carry out responsibilities under of the contract.
6. The Consultant (including the individual members of any Joint Venture) shall submit only one Proposal, either in its own name or as part of a Joint Venture member in another Proposal. If a Consultant, including any joint Venture member, submits or participates in more than one proposal, all such proposals shall be disqualified and rejected.
7. The Application and all related correspondence and documents should be written in the English language only. Supporting documents and printed literature furnished by Applicant with the Application may be in any other language provided that they are accompanied with translations in the English language. Supporting materials, which are not translated into English, may not be considered. For the purpose of interpretation and evaluation of the Application, the English language translation shall prevail.
8. Incomplete and/or conditional EOI shall be liable to rejection.
9. RFP will be issued to the short-listed candidates only.
10. No claims whatsoever will be entertained if submission is not received by due date and time.
11. The EOI submission shall be placed inside of a sealed envelope clearly marked “EOI PROPOSAL”, to provide “Consultancy Services to Develop and Implement a Sustainable Road Asset Management System in Rajasthan PWD”, reference number, name and address of the Consultant, and with a warning “DO NOT OPEN UNTIL 03/11/2016, 15:00 HOURS (IST)”.
12. If the envelopes and packages with the EOI are not sealed and marked as required, the
Client will assume no responsibility for the misplacement, loss, or premature opening of the EOI.

**Guidelines for Preparation of Expression of Interest**

Following information shall be submitted using given formats and where no formats are specified, appropriate standard format/s may be used.

1. Complete name of firm, date of establishment and type of organization whether individual, proprietorship, partnership, private limited company, public limited company etc. (as per Annexure I).

2. Exact and complete corporate/registered/home office address, business address, telephone numbers, fax numbers, E-mail and cable address. For consultant of foreign registry, indicate if there is any branch office(s) established in India with details in aforesaid manner. Information is to be furnished by sole applicant or members of JV individually (as per Annexure I).

3. If present firm is the successor to or outgrowth of one or more predecessor firms, fresh name(s) of former entity (ties) and year(s) of their original establishment with details in aforesaid manner. Information is to be furnished by sole applicant or members of JV individually (as per Annexure I).

4. Present a brief narrative description of the firms. Information is to be furnished by sole applicant or members of JV individually (as per Annexure I).

5. Consultant’s substantial experience shall be given under four categories as per Annexure II.
   a. Design, development, configuration and implementation of pavement management system/road asset management system in at least two large road network agencies.
   b. State-wide planning and programming of road network maintenance, rehabilitation and improvement using HDM-4/HDM-3.
   c. Operating and managing data collection at state-wide network level using vehicle-mounted DGPS and automated road/pavement data collection equipment, and processing of data for asset management
   d. Design/maintenance/rehabilitation/improvement of highways, rural roads and bridge projects.

6. The detail must include project name, Time initiation, completion, details of work performed (Segregated by each JV member). If the experience is for the Asset Management System, the details of modules, system architecture, technology, implementation framework and current status must be mentioned. Experience for data collection must mention time duration, equipment used, network covered etc. Employer’s completion certificates shall be required to be submitted by shortlisted firms.

7. An undertaking for supply of true information shall be given as per Annexure IV.
Short listing Criteria

Experience

The criteria for shortlisting are:

1) Design, development, configuration and implementation of pavement management system/road asset management system in at least two large road network totaling 2,000 Km road length in the last 10 years, out of which one work should have been completed during the last five years.

2) Planning and programming of road network maintenance, rehabilitation and improvement using HDM-4/HDM-3 in the last 10 years for a total length of 5,000 Km.

3) Operating and managing data collection for a total length of 5,000 km using vehicle mounted DGPS, and automated road/pavement data collection equipment, and processing of data for asset management in the last 10 years.

4) Design/maintenance/rehabilitation/improvement of highways, rural roads and bridge projects in the last 5 years.

Experience in South Asia region/India will be an added advantage.

For JV, Lead Member must have completed Item (1).

(C.L. Verma)
Chief Engineer (PMGSY),
PWD, Rajasthan, Jaipur
Expression of Interest Form for Consulting Engineering Firm or Joint Venture (To be filled up by each of the constituent in case of a Joint Venture)

1. Consultant Name | Date of Establishment | Country | Type of organization
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<td>Individual</td>
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2. Corporate/registered Office/Business Address/ Telephone Nos./ Cable Address/Email address of consultant and its branch offices for Consultant (including members in case of JV)

3. Consultant’s former name and year of establishment (including that of members in case of JV)

4. Narrative description of Consultant firms if any (Use other sheet, if necessary)

5. Name of, not more than two (2) principals who may be contacted with title, telephone number/fax number, Email address.
### Annexure II: Experience

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<tr>
<th>Sr No</th>
<th>Project's Name</th>
<th>Date of Start</th>
<th>Date of Completion</th>
<th>Category of services rendered (A, B, C, and D)*</th>
<th>Category of Road Network and Length Covered</th>
<th>Details of Data Collection Equipment Used (for Category C only)</th>
<th>Total Consultancy Fees in INR (Applicant's share in case of JV)</th>
<th>Client (With complete address, contact person, telephone No., Fax No., and E-mail address)</th>
<th>Reference Page No. for certificate by Client &amp; other details</th>
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*Description of Category of services:

Design, development, configuration and implementation of pavement management system/road asset management system in at least two large road network totaling 2,000 Km road length in the last 10 years, out of which one work should have been completed during the last five years.

- **A.** Planning and programming of road network maintenance, rehabilitation and improvement using HDM-4 / HDM-3 in the last 10 years for a total length of 5,000 km.
- **B.** Operating and managing data collection for a total road length of 5,000 km using DGPS and automated road/pavement data collection equipment, and analysis procedures for asset management in the last 10 years.
- **C.** Design/maintenance/rehabilitation/improvement of highways, rural roads and bridge projects in the last 5 years.
Annexure-III

Detail of completed works with Name of Employer

Each assignment must be separately supported by detailed Project Description Sheets containing following details:

Name of Overall assignment:
Location of Overall assignment:
Client’s Name and Address:
Completion (Actual/Estimated vis-à-vis Stipulated):
Description of assignment:
Description of Services provided by the firm (Segregated by each JV member):
Undertaking

I certify that the information in the above Expression of Interest forms is true to the best of my knowledge, I also understand that any misleading or wrong information will disqualify this application by the client.

President/ Managing Director
or
Authorized Signatory of Applicant