

Expression of Interest (EOI) for
Consultancy Services for Automated Data Collection and updation of Road Information System for
NHDP Corridors

(GLOBAL COMPETITIVE BIDDING)

1. Government of India has launched major initiative to upgrade and strengthen National Highways through National Highways Development Project (NHDP). It is estimated that this will involve investment of about Rs. 2,20,000 Crore (US\$ 50 billion) over the next 8 - 10 years. The National Highways Authority of India (NHAI)-the nodal body- is implementing NHDP. NHAI has developed a web-based Road Information System (RIS) for operation & maintenance, strategic planning and decision making of National Highways entrusted to it. The RIS has own website www.nhai-ris.org and available on NHAI website www.nhai.org also. The RIS is populated with data of year 2000-2003.
2. NHAI invites Expression of Interest (EOI) form reputed International and National firms in Joint Venture or otherwise for Automated Data Collection on completed sections of NHDP Corridors and updation of Road Information System. The firms having experience in area of Automated Traffic counting, Road Inventory and Pavement data collection, Differential Global Positioning survey, and entering the same into a GIS based and web-enabled information system will be given preference. The selection will be on Quality – Cost based selection (QCBS). The total estimated cost of work is Rs. 40.00 Crore (US\$ 9 million) over a period of 36 months. The selection process will be two stage process viz. Prequalification, and detailed Technical & Financial proposal evaluation. The Request for Proposal (RFP) will be issued to firms qualified as per the criterion given below.
3. The total work of 7000 km is proposed to be divided into two parts of 3500 km each. The shortlisted firms will be asked each to participate only for one part. Thus, a separate Consultant will be appointed for each part of 3500 km. The Consultant will undertake all activities related to data collection / collation / coding etc. for the part and will deploy the required equipments and personnel for doing all these activities and give final processed data to NHAI. The total period of contract will be three years. The work in each part comprises of Classified Traffic Volume Count Survey, Speed and Delay Survey, Axle Load Survey, Accident Data Collection and Collation, Toll Data Collection and Collation, Road Inventory Survey with DGPS Survey, Pavement Condition Distress and Corridor Efficiency Parameter Survey, Roughness Survey, Pavement Structural Assessment Survey, Bridge Inventory and Assessment, Updating the GIS database using Satellite Digital data, and Collection and Collation of As-built drawings (**Annexure - A**).
4. Firms should meet each of the following criterions:
 - (i) In the last three years i.e. 2003-04 to 2005-2006 should have achieved, in at least two financial years, a minimum annual financial turnover of Rs. 30.00 cr. Certificate of turnover achieved to be furnished only by Statutory Auditors of the firms. Details to be furnished in **Form I (a) & (b)**.
 - (ii) Experience in similar nature of work of technical Data Collection on National Highway.

The similar nature of work represents:

 - (ii)(a) Technical data collection on minimum 4 lane dual carriageway highways for atleast 1000 km in last five financial years and
 - (ii)(b) Technical data collection for DPRs for a total length of 1000 km in not more than 10 completed works involving 4 lane dual carriageway highways in last five financial years and
 - (ii)(c) Completed work of Information extraction and its collation from satellite digital data and imagery having value of Rs. 10 lacs (minimum) in last three financial years.

Details to be furnished in **Form II** separately for each of above. Firms to attach a self-certified copy of completion certificate issued by its client and if same is not available a copy of the work order with an affidavit mentioning quantities executed and payments received.

 - (iii) Each firm should further demonstrate the availability (either owned or leased or procurement basis) of the following key and critical equipment for this work, along with technical and operational details: (Details to be furnished in **Form III**).

List of Standard Equipments	Minimum No.
Portable type Automatic Traffic Classifier and Counter	10
Portable Axle (wheel) load equipment	6
Vehicle mounted Digital video system integrated with GPS	2
Riding quality measurement using Response Type Road Roughness Measuring System (RTRRMS) type equipment including calibration system	3
Falling Weight Deflectometer (FWD)	6
Skid Resistance Tester; SCRIM with locked wheels or 15% slip on special vehicles, Grip Tester	6

Note: For leased / procured equipments consultant should give proof of tie-up for the existing and proposed.

- (iv) All firms shall also include the following information and documents with their proposals:
 - (a) Copies of original documents defining the constitution or legal status (**Form IV**),
 - (b) Numbers of qualified and experienced personnel to be made available for the task (**Form V**),
 - (c) Litigation / Arbitration history for last three years (**Form VI**).
3. Firms may enhance their qualifications by association or Joint Venture with other firms. In case of Joint Ventures (JV), the information shall be provided for each partner of the joint venture. Attach the Letter of Intent signed by all partners to execute a Joint Venture Agreement in the event of a successful bid. The parties in a JV shall be jointly and severally liable. Maximum number of partners in the JV shall be three. The contribution of the Lead Partner in JV should not be less than 50% (**Form VII**).
4. All proposals must be accompanied by a non-refundable fee of Rs. 5000.00 (US\$ 200) in the form of a Demand Draft/Cashier's cheque/Certified cheque in favour of National Highways Authority of India, payable at New Delhi drawn from Any Indian Nationalised Bank or any Scheduled Commercial Bank approved by RBI.
5. NHAI will not be responsible for any delay in receiving the document and reserve the right to accept / reject any or all application without assigning any reason thereof.
6. Expression of Interest indicating the above details must be delivered to the address below by 1400 hrs, 26th February 2007. The EOI will be opened at 1500 hrs on 26th February 2007. Interested consultant may obtain further information at the address below during Office hours - 1000 hrs to 1200 hrs upto 23rd February 2007 or from Manager (GIS), RIS Centre, Software Technology Park, NSIC Bhawan, Okhla Phase – III, New Delhi 110 020. Tel : 26933318. E-Mail : rbalaji@nhai.org. This advertisement in abridged version is available on NHAI's web site.

Address for communication:

**Manager (Tech), IT & Planning Division,
National Highways Authority of India (NHAI),
G-5 & 6, Sector-10, Dwarka, New Delhi-110075, India,
Tel: 91-11-25074100/4200 Ext- 1416,2448
Fax-91-11-25093519, E-mail – vinodgiri@nhai.org**

Application Submission Form

Date:

To:

Manager (Tech), IT & Planning Division,
National Highways Authority of India (NHAI),
G-5 & 6, Sector-10, Dwarka, New Delhi-110075, India,

Sir

We, the undersigned, apply to be pre-qualified for the referenced notice and declare that:

- (a) we have examined and have no reservations to the Prequalification Documents, including Addendum(s) No(s).
- (b) we, including any subcontractors or suppliers for any part of the contract resulting from this prequalification process, have nationalities from eligible countries:
Nationality of the Applicant,

Nationality of all partners in case of a Joint Venture

- (c) we, including any subcontractors or suppliers for any part of the contract resulting from this prequalification, do not have any conflict of interest;
- (d) we, including any subcontractors or suppliers for any part of the contract resulting from this prequalification, have not been declared ineligible by the Employer's country laws, official regulations, or under execution of a Bid Securing Declaration in the Employer's Country, or by an act of compliance with a decision of the United Nations Security Council;
- (e) *"we are not a Government owned entity" or "we are a Government entity, and we meet the requirement;*
- (f) we declare that the following commissions, gratuities, or fees have been paid or are to be paid with respect to the prequalification process, the corresponding bidding process or execution of the Contract:

<u>Name of Recipient</u>	<u>Address</u>	<u>Reason</u>	<u>Amount</u>

- (g) We understand that you may cancel the prequalification process at any time and that you are neither bound to accept any application that you may receive nor to invite the pre-qualified applicants to bid for the contract subject of this prequalification, without incurring any liability to the Applicants.

Signature(s) of an authorized representative(s) of the Applicant

Name

In the Capacity of

Duly authorized to sign the application for and on behalf of:

Applicant's Name:

Address:

Dated on:

Prequalification Data Sheet
A. General
The Employer is: National Highways Authority of India (NHAI), G-5 & 6, Sector-10, Dwarka, New Delhi-110075, India,
The name of the Project is: Consultancy Services for Data Collection on completed sections of NHDP Corridors and updation of Road Information System
(i) The parties in a JV shall be jointly and severally liable. (ii) Maximum number of partners in the JV shall be: 3
B. Contents of the Prequalification Document
For clarification purposes, the Employer's address is: Manager (Tech), IT & Planning Division, National Highways Authority of India (NHAI), G-5 & 6, Sector-10, Dwarka, New Delhi-110045, India, Tel: 91-11-25074100/4200 Ext- 1416,2448 Fax-91-11-25093519, E-mail – vinodgiri@nhai.org
C. Preparation of Applications
The language of the application as well as of all correspondence is: English
The Applicant shall submit with its application, the following additional documents: (a) Copies of original documents defining the constitution or legal status (Form IV), (b) Numbers of qualified and experienced personnel to be made available for the task (Form V), (c) Litigation / Arbitration history for last three years (Form VI).
In addition to the original, the number of copies to be submitted with the application is: Only Original in hard bound
D. Submission of Applications
Applicants <i>shall not have</i> the option of submitting their applications electronically. For application submission purposes only, the Employer's address is: Manager (Tech), IT & Planning Division, National Highways Authority of India (NHAI), G-5 & 6, Sector-10, Dwarka, New Delhi-110045, India, Tel: 91-11-25074100/4200 Ext- 1416,2448 Fax-91-11-25093519, E-mail – vinodgiri@nhai.org The deadline for application submission is: Date: 26th Feb 2007 Time: 1400 hrs Number of copies: Only one Original copy in hard bound Late applications will be returned unopened to the Applicants.
E. Procedures for Evaluation of Applications
A margin of preference <i>shall not apply</i> for eligible domestic bidders.
The Employer <i>does not intend</i> to execute certain specific parts of the Works by subcontractors selected in advance.

F. Scope of the Works					
Contract Period: 3 Years					
Details of Work					
SI No	Survey	Duration/Periodicity	Method/Equipment	Coverage and Output	Information Quality level
1	Classified Traffic Volume Count Survey	7 days – 24 hour continuous, twice in a year of contract period	Automatic traffic counter cum classifiers	7000 centerline km with survey locations at every 50 km (centerline refers to the centerline of median) Output – Standard as per RIS requirement	II
2	Speed and Delay Survey	One run covering representative peak period, once in full length and then twice in a year only in urban areas (approximately 10% of total original coverage length) during contract period	Moving car observer method	7000 centerline km (centerline refers to the centerline of median) Output – Standard as per RIS requirement	III
3	Axle Load Survey	48 hours continuous in both direction, once in contract period	Using portable wheel load pads	7000 centerline km with survey locations at least at every 200 km (centerline refers to the centerline of median) Output – Standard as per RIS requirement	II
4	Accident Data Collection and Collation	Accident Statistics on monthly basis during contract period from PIU /O & M Contractor	Manual	7000 centerline km (centerline refers to the centerline of median) Output – Standard as per RIS requirement; aggregated to 1km for reporting	III
5	Toll Data Collection and Collation	Collation of Toll Statistics on monthly basis during contract period from Toll Plaza / Toll Software	Manual	7000 centerline km (centerline refers to the centerline of median) Output – Standard as per RIS requirement; aggregated to 1km for reporting	III
6	Road Inventory Survey (geo-referenced asset mapping) with DGPS Survey	Once in contract period	GPS guided mobile mapping vehicle along with ground DGPS control network	7000 centerline km (centerline refers to the centerline of median) Output – Standard as per RIS requirement	II
7	Pavement Condition Distress and Corridor Efficiency Parameters Survey	Single run on each lane, aggregated to one km for reporting; once in a year of contract period	Using Vehicle mounted mobile mapping equipment	30000 lane km of Road Network Output – Standard as per RIS requirement; aggregated to 1km for reporting	III

SI No	Survey	Duration/Periodicity	Method/Equipment	Coverage and Output	Information Quality level
8	Roughness Survey	Single Run in each lane, collected at 100m intervals, aggregated to one km for reporting; once in a year of contract period	Vehicle mounted RTRRMS equipment	30000 lane km of Road Network Output – in IRI; aggregated to 1km for reporting	II
9	Pavement Structural Assessment Survey: Deflection Survey	On each traffic lane, twice in contract period	Using Standard Falling Weight Deflectometer Equipment	30000 lane km of Road Network Output – Standard as per RIS requirement; aggregated to 1km for reporting	III
10	Bridge Inventory and Assessment	Twice in a year of contract period	Visual observations substantially supported by photos / videography.	All structures in 7000 km of Road Network Output – Standard as per RIS requirement	III
11	Updating the GIS database using Satellite Digital data	Once in contract period	The satellite data for this work should be obtained from authentic source within the country like NRSA, with necessary clearances, if any.	7000 centerline km (centerline refers to the centerline of median) Output – Standard as per RIS requirement	II
12	Collection and Collation of As-built drawings	Once in contract period	Consultant will collect the existing engineering drawing for the constructed roads from NHAI. It includes collection of drawings, vectorization, geo-referencing, integration with RIS.	7000 centerline km (centerline refers to the centerline of median) Output – Standard as per RIS requirement	III

Form I (a)
Financial Situation

[The following table shall be filled in for the Applicant and for each partner of a Joint Venture]

Applicant's Legal Name:

Date:

Applicant's Party Legal Name:

1. Financial data

Financial information in (INR)	Historic information for previous 3 years,(INR)		
	Year 1	Year 2	Year 3
Total Assets (TA)			
Total Liabilities (TL)			
Net Worth (NW)			
Current Assets (CA)			
Current Liabilities (CL)			
Total Revenue (TR)			
Profits Before Taxes (PBT)			

2. Financial documents

The Applicant and its parties shall provide copies of the balance sheets and/or financial statements for 3 years. The financial statements shall:

- (a) reflect the financial situation of the Applicant or partner to a JV, and not sister or parent companies.
 - (b) be audited by a certified accountant.
 - (c) be complete, including all notes to the financial statements.
 - (d) correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).
- ☐ Attached are copies of financial statements (balance sheets, including all related notes, and income statements) for the 3 years required above.

Form I (b)
Average Annual Turnover

[The following table shall be filled in for the Applicant and for each partner of a Joint Venture]

Date:

Applicant's/Joint Venture Partner's Legal Name:

Applicant's Party Legal Name:

Annual turnover data	
Year	Amount and Currency
Average Annual Turnover	

Form II

Similar Work Experience

Work performed on works of a similar nature over the last three years:

Project Name	Name of the Employer	Description of work	Value of contract (Rs.)	Date of issue of work order	Stipulated period of completion	Actual date of completion	Remarks explaining reasons for delay and work completed
(a) Technical data collection on minimum 4 lane dual carriageway highways for atleast 1000 km in last five financial years							
(b) Technical data collection for DPRs for a total length of 1000 km in not more than 10 completed works involving 4 lane dual carriageway highways in last five financial years							
(c) Completed work of Information extraction and its collation from satellite digital data and imagery having value of Rs. 10 lacs (minimum) in last three financial years							

Notes: Attach a self-certified copy of completion certificate issued by its client and if same is not available a copy of the work order with an affidavit mentioning quantities executed and payments received.

Form III
Details of Key and Critical Equipment

The following items of key and critical Equipment are essential for carrying out the Works. The Firms should list all the information requested below:

S.No.	List of standard Equipment	Minimum requirement in Nos.	Availability			Remarks (From whom to be leased/ procured along with the proof)
			Owned/leased/ to be procured	No	Age	
1	Portable type Automatic Traffic Classifier and Counter	10				
2	Portable Axle (wheel) load equipment	6				
3	Vehicle mounted Digital video system integrated with GPS	2				
4	Riding quality measurement using Response Type Road Roughness Measuring System (RTRRMS) type equipment including calibration system	3				
5	Falling Weight Deflectometer (FWD)	6				
6	Skid Resistance Tester; SCRIM with locked wheels or 15% slip on special vehicles, Grip Tester	6				

Form IV (a)
Applicant Information Form

Date:

Applicant's legal name
In case of Joint Venture (JV), legal name of each partner:
Applicant's Actual or Intended country of constitution:
Applicant's actual or Intended year of constitution:
Applicant's legal address in country of constitution:
Applicant's authorized representative information Name: Address: Telephone/Fax numbers: E-mail address:
Attached are copies of original documents of ☐ Articles of Incorporation or Documents of Constitution, and documents of registration of the legal entity named above. ☐ In case of JV, letter of intent to form JV or JV agreement. ☐ In case of Government owned entity, documents establishing legal and financial autonomy and compliance with commercial law.

Form IV (b)
Applicant's Party Information Form

[The following form shall be filled in for the Applicant's parties including partner(s) of a joint venture, subcontractors, suppliers and other parties]

Date:

JV applicant legal name:
Applicant's Party legal name:
Applicant's Party country of registration:
Applicant Party's year of constitution:
Applicant Party's legal address in country of constitution:
Applicant Party's authorized representative information Name: Address: Telephone/Fax numbers: E-mail address:
Attached are copies of original documents of ☐ Articles of Incorporation or Documents of Constitution, and Registration Documents of the legal entity named above. ☐ In case of a Government owned entity, documents establishing legal and financial autonomy and compliance with commercial law.

Form V
Details of Qualifications and experience of key personnel

Qualifications and experience of key personnel proposed for administration and execution of the Contract. Attach biographical data.

Position	Minimum qualification & experience	Name	Qualifications (general)	Years of experience	Years of experience in the proposed position
Team Leader cum Highway Management Specialist					
Traffic Planner & Engineer					
Highway Engineer					
Data Collection Specialist					
GIS Expert					
Database and System specialist					

Form VI

Historical Contract Non-Performance

[The following table shall be filled in for the Applicant and for each partner of a Joint Venture]

Date:

Applicant's Legal Name:

Joint Venture Party Legal Name:

Non-Performing Contracts			
☐ Contract non-performance did not occur during the last 3 years.			
☐ Contract(s) not performed during the last 3 years as indicated below			
Year	Non performed portion of contract <i>[amount and percentage]</i>	Contract Identification	Total Contract Amount (INR equivalent)
		Contract Identification: Name of Employer: Address of Employer: Reason(s) for non performance:	
Information on litigation / Arbitration history in which the Firm is involved: Pending Litigation			
☐ No pending litigation during the last 3 years			
☐ Pending litigation during the last 3 years as indicated below.			
Year	Outcome as Percentage of Total Assets	Contract Identification	Total Contract Amount (INR equivalent)
		Contract Identification: Name of Employer: Address of Employer: Matter in dispute: Cause of dispute Remarks showing Present status	

Form VII
DETAILS OF PARTICIPATION IN THE JOINT VENTURE

<i>PARTICIPATION DETAILS</i>	<i>FIRM 'A'</i> <i>(Lead Partner)</i>	<i>FIRM 'B'</i>	<i>FIRM 'C'</i>
Execution of Work (Give details on contribution of each)			
Financial			
Equipment			
Key Personnel			