

## NATIONAL HIGHWAYS AUTHORITY OF INDIA

(Ministry of Road Transport & Highways)

The National Highways Authority of India (NHAI) is responsible for development, maintenance and management of National Highways entrusted to it and for matters connected therewith or incidental thereto.

2. NHAI proposes to engage the services of professionals for the following positions on contract basis for **Operation of RAMS cell** in NHAI. The Details of positions and terms & conditions as well as period of engagement, eligibility, experience etc. are as under:-

	Designation	Number of Posts
1	Principal Consultant (RAMS)	01
2	Consultant (RAMS)	02
3	Consultant (RAMS- IT)	01

*\* Number of posts may increase or decrease.*

### 3. DETAILS OF ELIGIBILITY CONDITIONS

#### 3.1 Principal Consultant (RAMS)

1	Designation	Principal Consultant (RAMS)
2	Number of Posts	One (01)
3	Method of Recruitment	On Contract basis
4	Period of Contract	On Full-Time Contract basis initially for a period of 02 years, which may be extended, subject to performance appraisal, with the approval of the Competent Authority as per EP/YP Policy of NHAI
5	Monthly Remuneration Bands (Rs.)	The approved band for monthly remuneration shall be Rs. 2,30,000 /- (all inclusive).
6	TA/DA	No TA /DA shall be admissible for joining the assignment or on its completion. However, the Advisors shall be allowed for TA/DA and Hotel accommodation for their travel inside the country in connection with the official work, at the same rates as admissible to General Manager level officers in NHAI.
7	Educational Qualification	<b>Basic Qualification:</b> A graduate in Civil/ Computer Science/ IT Engineering from a recognized university/institute. <b>Desirable Qualification:</b>

		<ul style="list-style-type: none"> <li>i. Master's Degree in Highway/ Pavement/ Structures/ Computer Science/ IT Engineering/ Management/ Business Administration or related fields from a recognized university/institute.</li> <li>ii. Diploma/degree in computer applications in addition to basic Qualification.</li> </ul>
8	Age Limit	Not exceeding 55 years as on prescribed last date of receipt of online applications.
9	Experience	<p><b>Mandatory Experience:</b></p> <ul style="list-style-type: none"> <li>1. Minimum 15 years of professional experience in infrastructure sector, preferably in roads and highways;</li> <li>2. Experience of working in similar capacity i.e Team Leader or Project manager on at least two projects for a minimum duration of one year in each project.</li> <li>3. At least 3 years' experience in developing and/or implementing Asset management systems for linear infrastructure networks like Highways/ Railways etc.</li> </ul> <p><b>Desirable Experience:</b></p> <ul style="list-style-type: none"> <li>1. Knowledge and familiarity with domestic and global technology practices and regulations related to Asset Management systems.</li> <li>2. Strong project management skills with a track record of successfully delivering complex technical projects.</li> <li>3. Experience in Big data analysis.</li> </ul>
10	Job Description	<ul style="list-style-type: none"> <li>1. Support NHAI in management of RAMS.</li> <li>2. Understand the business requirements and provide technical inputs wherever required.</li> <li>3. Designing framework, monitor development of IT enabled products / services such as:</li> </ul>

		<ul style="list-style-type: none"> <li>i. Generation of road condition reports through NSV data.</li> <li>ii. GIS based Portal of NH projects for Planning and Monitoring</li> <li>iii. Integration with other applications in NHAI/MoRTH/NHIDCL</li> </ul> <ol style="list-style-type: none"> <li>4. Assist in selecting data collection consultants for updating RAMS;</li> <li>5. Manage and monitor data collection consultants during the data collection for updating RAMS;</li> <li>6. Operate RAMS Software Application on daily basis and ensure RAMS Software Application available or accessed as intended;</li> <li>7. Liaise with RAMS hosting service provider for its uninterrupted hosting and operation;</li> <li>8. Provide assistance regarding data or information requirements of various divisions of NHAI, MoRTH and NHIDCL;</li> <li>9. Maintain routine and periodic maintenance details including cost where available over the NH network;</li> <li>10. Validate RAMS functionality on continuous basis for its adequacy, considering requirements of NHAI, MoRTH and NHIDCL;</li> <li>11. Review and finalise appropriate data to be taken from other projects, such as DPRs, IEs, AEs and etc.</li> <li>12. Identify improvement opportunities in RAMS.</li> <li>13. Any other responsibility as assigned by NHAI during the tenure.</li> </ol>
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### 3.2 Consultant (RAMS)

1	Designation	Consultant (RAMS)
2	Number of Posts	Two (02)

3	Method of Recruitment	On Contract basis
4	Period of Contract	On Full-Time Contract basis initially for a period of 02 years, which may be extended, subject to performance appraisal, with the approval of the Competent Authority as per EP/YP Policy of NHAI
5	Monthly Remuneration Bands (Rs.)	The approved band for monthly remuneration shall be Rs. 1,50,000/- (all inclusive).
6	TA/DA	No TA /DA shall be admissible for joining the assignment or on its completion. However, the Joint Advisors shall be allowed for TA/DA and Hotel accommodation for their travel inside the country in connection with the official work, at the same rates as admissible to Manager level officers in NHAI.
7	Educational Qualification	<p><b>Basic Qualification:</b> A graduate in Civil/ Computer Science/ IT Engineering from a recognized university/institute.</p> <p><b>Desirable Qualification:</b></p> <ul style="list-style-type: none"> <li>i. Master's Degree in Highway/ Pavement/ Structures/ Computer Science/ IT Engineering/ Management/ Business Administration or related fields from a recognized university/institute.</li> <li>ii. Diploma/degree in computer applications in addition to basic Qualification.</li> </ul>
8	Age Limit	Not exceeding 50 years as on prescribed last date of receipt of online applications.
9	Experience	<p><b>Mandatory Experience:</b></p> <ol style="list-style-type: none"> <li>1. Minimum 12 years of professional experience in infrastructure sector, preferably in roads and highways;</li> <li>2. Experience of working in senior capacity i.e Team Leader or Project manager on at least one project for a minimum duration of one year.</li> <li>3. At least 2 years' experience in developing and/or implementing Asset management systems for linear infrastructure networks like Highways/ Railways etc.</li> </ol> <p><b>Desirable Experience:</b></p>

		<ol style="list-style-type: none"> <li>1. Knowledge and familiarity with domestic and global technology practices and regulations related to RAMS.</li> <li>2. Experience in data collection, data management and reporting for large assets.</li> <li>3. Experience in survey planning and coordinating and monitoring of network level data collection.</li> <li>4. Knowledge of emerging and advanced technologies for data collection and data management from highways point of view;</li> <li>5. Strong project management skills with a track record of successfully delivering complex technical projects.</li> <li>6. Experience in Big data analysis.</li> </ol>
10	Job Description	<ol style="list-style-type: none"> <li>1. Support NHAI in management of RAMS.</li> <li>2. Understand the business requirements and provide technical inputs wherever required.</li> <li>3. Assistance in finalization of data collection requirements and specifications;</li> <li>4. Assistance in finalization of validation and harmonisation protocols for data collected by different consultants/equipment/methods;</li> <li>5. Assist NHAI in approving data collection equipment on the basis of validation process;</li> <li>6. Manage and monitor data collection consultants during the data collection for updating RAMS;</li> <li>7. Verify and validate data submitted by data collection agencies.</li> <li>8. Prepare GIS maps for NH network from survey data submitted by data collection agencies;</li> <li>9. Organise and integrate data submitted by data collection agencies for uploading into RAMS, including attribute and multimedia files;</li> </ol>

		<p>10. Undertake quality assurance of data loaded into RAMS including missing data or gaps in the data;</p> <p>11. Prepare contingency plans for missing data;</p> <p>12. Manage and monitor data collection consultants during the data collection for updating RAMS;</p> <p>13. Operate RAMS Software Application on daily basis and ensure RAMS Software Application available or accessed as intended;</p> <p>14. Liaise with RAMS hosting service provider for its uninterrupted hosting and operation;</p> <p>15. Provide assistance regarding data or information requirements of various divisions of NHAI, MoRTH and NHIDCL;</p> <p>16. Maintain routine and periodic maintenance details including cost where available over the NH network;</p> <p>17. Validate RAMS functionality on continuous basis for its adequacy, considering requirements of NHAI, MoRTH and NHIDCL;</p> <p>18. Any other responsibility as assigned by NHAI during the tenure.</p>
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### 3.3. Consultant (RAMS-IT)

1	Designation	Consultant (RAMS-IT)
2	Number of Posts	One (01)
3	Method of Recruitment	On Contract basis
4	Period of Contract	On Full-Time Contract basis initially for a period of 02 years, which may be extended, subject to performance appraisal, with the approval of the Competent Authority as per EP/YP Policy of NHAI
5	Monthly Bands (Rs.) Remuneration	The approved band for monthly remuneration shall be Rs. 1,50,000 /- (all inclusive).
6	TA/DA	No TA /DA shall be admissible for joining the assignment or on its completion. However, the Joint Advisors shall be allowed for TA/DA and Hotel accommodation for their travel inside the country in connection with the

		official work, at the same rates as admissible to Manager level officers in NHAI.
7	Educational Qualification	<p><b>Basic Qualification:</b> Bachelor's degree in Computer Science or IT from a recognized university/ institute.</p> <p><b>Preferably:</b> Master's degree in Computer Science, IT, business administration or related fields from a recognized university/ institute.</p>
8	Age Limit	Not exceeding 50 years as on prescribed last date of receipt of online applications.
9	Experience	<p><b>Mandatory Experience:</b></p> <ol style="list-style-type: none"> <li>1. Minimum 12 years of experience spread across technology &amp; solutions architect, technology policy, and related industry.</li> <li>2. Work experience of at least 3 years as a Solution Architect or similar role in development/ operation of web based GIS asset management system.</li> </ol> <p><b>Desirable Experience:</b></p> <ol style="list-style-type: none"> <li>1. Previous project management experience.</li> <li>2. Relevant certifications in solutions architecture and information systems.</li> <li>3. Knowledge and familiarity with domestic and global technology practices and regulations related to RAMS.</li> <li>4. Should have worked on projects of similar nature and complexity.</li> <li>5. Should be familiar with Postgres, .NET.</li> <li>6. Experience in Big data analysis.</li> </ol>
10	Job Description	<ol style="list-style-type: none"> <li>1. Support NHAI in management of its core IT Systems (RAMS and other supplementary or integrated systems).</li> <li>2. Understand the business requirements and provide technical inputs wherever required.</li> </ol>

		<ol style="list-style-type: none"><li>3. Designing framework, monitor development of IT enabled products / services such as:<ol style="list-style-type: none"><li>1. Generation of road condition reports through NSV data received</li><li>2. GIS based Portal of NH projects for Planning and Monitoring</li><li>3. Integration with other applications in NHAH/MoRTH/NHIDCL</li></ol></li><li>4. API design and development (RESTful Services)</li><li>5. Database design and development- PostgreSQL/MySQL.</li><li>6. Work with agile practices, quick iterations, and integration of regular feedback</li><li>7. Working with data visualization libraries</li><li>8. Working on web server technologies and current frameworks</li><li>9. Finalize functional requirements, UI/UX wireframes, workflows for ongoing and new requirements and check its effectiveness.</li><li>10. Review and approve software artefacts to ensure its suitability for NHAH business and compliance requirements.</li><li>11. Co-ordination with all stakeholders including other organizations for faster delivery of solutions and resolutions.</li></ol> <p>Any other responsibility as assigned by NHAH during the tenure.</p>
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4. The terms and conditions of engagement will be in according to NHAI Policy circular no. 1.3.1.37/2024 dated 06.08.2024 for “External Professionals in Information Technology- Project Management Unit (IT-PMU)”. The Policy Guidelines are attached as **Annexure**.
5. **NHAI will have the right to terminate the contract at any time, without assigning any reason.**
6. **Submission of Applications:** Applications are to be submitted online only. The procedure to be followed for filling up the online application is given in the online application portal, which can be accessed at <http://www.nhai.gov.in>. Eligible candidates may apply online on the link provided on the website of NHAI 05.03.2025 (**upto 06:00 PM**).

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