

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 invites applications for the following positions for filling up on contract basis to work in Design Division of NHAI. Details of posts and terms & conditions as well as period of engagement, eligibility, experience etc. are as under: -

A. Name of the posts –

| Sr. No. | Name of the posts | No. of posts* | Deployment |
|----------------|----------------------------------|----------------------|--------------------|
| a. | Sr. Bridge / Structural Engineer | One (01) | NHAI HQ, New Delhi |
| b. | Domain Experts: | | |
| 1. | Bridge Design Engineer | Two (02) | |
| 2 | Geotechnical Engineer | One (01) | |
| 3 | Hydrology and Hydraulic Expert | One (01) | |
| 4 | Sr. Tunnel Engineer | One (01) | |
| 5 | Tunnel Engineer | One (01) | |
| 6 | Geologist | One (01) | |
| 7 | Quantity Surveyor | One (01) | |
| 8 | Draftsman | Two (02) | |

** Number of posts may increase or decrease.*

B. Eligibility Criteria :

For Educational Qualification, Eligibility Criteria, Age Limit and Experience Please refer to **Appendix- A**

C. Roles and Responsibility of Design Experts Team:

The Design Experts Team will be assisting NHAI and advising them on all design related activities, some of which are listed below:

- To verify and comment on the comprehensive scheme prepared by the Design Consultant of Contractor / Concessionaire showing the layout plan of various components of the scheme including footpaths, central verge, crash barriers etc.
- To study the soil investigation report and confirm the adequacy of geo-technical report and recommendations.
- To check and review the Design Philosophy / Design Basis Report of various components of the scheme and to determine the use of appropriate National/International codes of practices, standards and specifications adopted for structural design.
- To check and review the General Arrangement Drawing of various components of the scheme.
- To check and review the adequacy of design for various components of bridge e.g. foundation, substructure and superstructure keeping in view increased durability and long term serviceability as per Indian and International codes and practices.

- To study and confirm the results of Model tests like Wind tunnel etc. wherever required, to be got conducted by the Design Consultant of Contractor / Concessionaire.
- To check and review the detailed seismic analysis and design of the bridge as per relevant Indian / IRC and International Codes.
- To check and comment / confirm design consultant's proposal regarding methodology of construction, suitability of materials and technology covering various alternatives.
- To check and review tender drawings based on preliminary design, detailed scope of work & specifications for each item of work and tender documents etc.
- Verifying data input / load calculations and structural calculations for all components of the scheme and give the comparative statements of differences, if any, between the Design Consultant's output and their own results with an explanatory note wherever so required.
- To check and review the designs and drawings of river training works, drainage system and any other ancillary / related structures like foundation arrangement for light fittings, signage etc.
- To check and review the sequence and methodology of construction.
- To check and review the revision in design / drawings of any structure due to change in site conditions or any other valid reason.
- To check and review the design and drawings of supporting structures for utility services, if required.
- To assist NHAI on any technical matters as and when required and give their specific opinion / comments.
- To attend the special review meetings as and when required.
- To review the Geotechnical data and comment on the safe bearing capacity (SBC) proposed by the design consultant / contractor.
- To review the prestressing system proposed as being safe and adequate for the work from standpoint of stress level, safety, long term durability and other related parameters.
- To check the type of bearings and expansion joints along with load data and ensure their adequacy including installation details and provision for their replacement/ maintenance etc.
- To study and review the of the data like topographical survey, lithological survey, Geotechnical data, GIR and Design Basis Note.
- To check and review the design & drawings of Cut & Cover Tunnels including drainage arrangements for catering to surface run off from open cutting.
- To check and review the design & drawings of NATM Tunnels in all types of strata (rock and soil) including drainage arrangements for catering to surface run off from open cutting.
- To check and review the design & drawings of permanent ventilation shafts and other associated structures including roofing system and stairs.
- To check and review the design & drawings of utility shaft and other associated structures including roofing system and stairs area.
- To check and review the design & drawings of cross passages between the two tubes along the length including fire stop doors at both ends.
- To check and review the design & drawings of Portals including drainage arrangement, slope stability of rock, boulder fall and protection arrangements.
- To check and review the design & drawings of the construction methodology of all the above structures and temporary structures.
- To inspect the site as and when required.

- To prepare standards drawing and design of structure like VUPs, LVUPs, Culverts etc. as required.
- To check and review the Bill of Quantities if required, detailed cost estimate of the bridge including all components and river training work etc. for call of tenders. If BOQ is not available, the same shall be prepared.
- To share knowledge with NHAI officials by involving them in the above-mentioned activities.
- Any other work assigned by Member in-charge Design Division / CGM (T), Design Division as per their individual expertise.

D. Duration :-

The period of engagement for Experts shall initially be for upto two years, which may be extended / curtailed based on the requirements of NHAI and satisfactory performance with the approval of the Chairman.

E. Method of Recruitment –

- I. All the applications received in response to the positions advertised will be scrutinized and shortlisted by the Scrutiny / Screening Committee in accordance with eligibility and other conditions prescribed.
- II. The Scrutiny / Screening Committee would recommend the list of eligible candidates (based on eligibility criteria / weightage specified at Appendix - A) for interview by the Interview / Selection Committee. Number of candidates for interview shall be decided by Scrutiny / Screening Committee.

F. Remuneration (per month) –

Remuneration Applicable as per **Appendix-B**

3. The other terms & conditions of engagement will be in accordance to NHAI Policy Guidelines for engagement of External Professionals and as amended time to time.
4. Corrigendum or Addendum or Cancellation to this advertisement, if any, shall be published only on the website of NHAI. Therefore, the candidates are advised to check the website of NHAI regularly.

NHAI will have the right to terminate the contract at any time, without assigning any reason.

Procedure to apply

- (i) 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 NHA1 by **30th August 2024 (06:00 PM)**
- (ii) It may please be noted that the applications received through post/courier/fax shall not be considered.
- (iii) Applications not submitted properly or incomplete applications in any respect, especially without details of work experience and salary details shall be liable for rejection. The candidates are advised to fill out the application format carefully in accordance with the eligibility criteria and experience mentioned above. It may be noted that any subsequent clarification regarding job profile/experience etc. at a later date will not be entertained under any circumstances. All qualifications should have been acquired from Indian Universities/Institutes, recognized by UGC or AICTE (whichever is applicable) or any other appropriate statutory authority in India.
- (iv) The crucial date for determination of eligibility shall be the last date prescribed for receipt of applications.
- (v) Mere submission of applications shall not give the candidates any right to be called for selection.

Important Terms & Conditions

- (i) The persons engaged shall provide full-time services to NHA1 during their period of engagement and they would not be permitted to take up any other assignment during the period of their engagement with the NHA1. The person will be engaged on contract basis under the prevailing guidelines/rules, for a fixed period and no claim, whatsoever, shall be admissible for regularization / absorption in NHA1.
- (ii) TA/DA shall neither be admissible to the personnel at the time of joining the assignment on appointment nor at the time of relieving on its completion (or otherwise).
- (iii) The candidates engaged will be required to attend office or visit field on all working days and also on holidays, if required, on account of exigencies of work.
- (iv) NHA1 shall have the right to terminate the contract at any time, without assigning any reason. However, the contract may be terminated by either of the parties any time after serving one month's advance notice or payment/recovery of one month's salary in lieu of notice during the subsistence of the contract.

Other Terms & Conditions

- (i) Canvassing or bringing influence in any form will disqualify the candidature.
- (ii) NHA1 reserves the right to raise/relax the eligibility conditions, depending on the response and/or requirement.
- (iii) NHA1 reserves the right not to fill up any or all the posts notified at its discretion and vacancies may also be increased/decreased depending upon organizational requirements.
- (iv) NHA1 reserves the right to cancel/restrict/enlarge/modify/reopen/alter the recruitment process, if the need so arises, without issuing any further notice or assigning any reason thereof.
- (v) Corrigendum or Addendum or Cancellation to this advertisement, if any, shall be published only on the website of NHA1 and will not be published in the newspapers. Therefore, the candidates are advised to check the website of NHA1 regularly.

Appendix - A

Qualification / Eligibility Criteria

1. Sr. Bridge / Structural Engineer

| S. No | Description | Requirement | Weightage |
|--------------|-------------------------------|---|---|
| 1 | Educational Qualification | | Not Having Essential Educational Qualification - Not Eligible |
| | Essential | Graduate in Civil Engineering or equivalent AND Proficient in Design Softwares like STAAD, MIDAS, Sofistik etc. | 20 marks |
| | Desirable | Post Graduate in Structural Engineering or equivalent | 5 marks |
| 2 | Essential Experience | | |
| | Total Professional Experience | Minimum 12 years | (i) Not having 12 years' experience - Not Eligible (i) Having 12 years' experience - 15 Marks Two marks shall be awarded for every additional year experience after 12 years' experience up to a maximum of 10 marks. |

| | | | |
|---|--|---|--|
| | Experience of Design or Review of Design of Structures / Bridges | Minimum 8 years | (i) Not having 8 years' experience - Not Eligible (ii) Having 8 years' experience – 30 Marks Two marks shall be awarded for every additional year experience after 8 years' experience up to a maximum of 20 marks. |
| 3 | Age Limit | Maximum 60 years as on the last date of Submission of application | |

2. Bridge Design Engineer

| S. No | Description | Requirement | Weightage |
|-------|---------------------------|---|--|
| 1 | Educational Qualification | | Not Having Essential Educational Qualification - Not Eligible |
| | Essential | Graduate in Civil Engineering or equivalent AND Proficient in Design Softwares like STAAD, MIDAS, Sofistik etc. | 20 marks |
| | Desirable | Post Graduate in Structural Engineering or equivalent | 5 marks |
| 2 | Essential Experience | - | - |

| | | | |
|---|--|---|--|
| | Total Professional Experience | Minimum 8 years | <p>(i) Not having 8 years' experience - Not Eligible</p> <p>(ii) Having 8 years' experience – 15 Marks</p> <p>Two marks shall be awarded for every additional year experience after 8 years' experience</p> |
| | Experience of Design or Review of Design of Structures / Bridges | Minimum 6 years | <p>(i) Not having 6 years' Experience- Not Eligible</p> <p>(ii) Having 6 years' experience- 30 Marks</p> <p>Two marks shall be awarded for Every additional year experiences after 6 years' experience up to a maximum of 20 marks.</p> |
| 3 | Age Limit | Maximum 55 years as on the last date Of submission of application | |

3 Geotechnical Engineer

| S. No | Description | Requirement | Weightage |
|-------|--|---|--|
| 1 | Educational Qualification | | Not Having Essential Educational Qualification - Not Eligible |
| | Essential | Graduate in Civil Engineering or equivalent | 20 marks |
| | Desirable | Post Graduate in Geotechnical Engineering / Soil Mechanics / Rock Mechanics or equivalent | 5 marks |
| 2 | Essential Experience | | |
| | Total Professional Experience | Minimum 8 years | (i) Not having 8 years' experience- Not Eligible (ii) Having 8years' experience – 15 Marks Two marks shall be awarded for every additional year experience after 8 years' experience up to a maximum of 10 marks. |
| | Experience of Review of Geotechnical Reports | Minimum 6 years | (i) Not having 6 years' experience - Not Eligible (ii) Having 6 years' experience - 30 Marks Two marks shall be awarded for every additional year experience after 6 years' experience up to a maximum of 20 marks. |
| 3 | Age Limit | Maximum 55 years as on the last date submission of application | |

4. Hydrology and Hydraulic Expert

| S. No | Description | Requirement | Weightage |
|-------|---|---|--|
| 1 | Educational Qualification | | Not Having Essential Educational Qualification - Not Eligible |
| | Essential | Graduate in Civil Engineering or equivalent | 20 marks |
| | Desirable | Post Graduate in Hydraulic Engineering / Water Resource Engineering or equivalent | 5 marks |
| 2 | Essential Experience | | |
| | Professional Experience | Minimum 8 years | (i) Not having 8 years' experience - Not Eligible (ii) Having 8 years' experience - 15 Marks Two marks shall be awarded for every additional year experience after 8 years' experience up to a maximum of 10 marks. |
| | Experience of Review of Hydrology and Hydraulic Reports | Minimum 6 years | (i) Not having 6 years' experience- Not Eligible (ii) Having 6 years' experience - 30 Marks Two marks shall be awarded for every additional year experience after 6 years' experience up to a maximum of 20 marks. |
| 3 | Age Limit | Maximum 55 years as on the last date of submission of application | |

5. Sr. Tunnel Engineer

| S. No | Description | Requirement | Weightage |
|-------|---|---|---|
| 1 | Educational Qualification | | Not Having Essential Educational Qualification - Not Eligible |
| | Essential | Graduate in Civil Engineering/ Mining Engineering or equivalent AND Proficient in Design Softwares. | 20 marks |
| | Desirable | Post Graduate in Structural Engineering / Tunnel Engineering / Mining Engineering / Rock Mechanics or equivalent | 5 marks |
| 2 | Essential Experience | | |
| | Professional Experience | Minimum 12 years | (i) Not having 12 years' experience- Not Eligible (ii) Having 12 years' experience - 15 Marks Two marks shall be awarded for every additional year experience after 12 years' experience up to a maximum of 10 marks |
| | Experience of Design or Review of Design of Tunnels | Minimum 8 years | (i) Not having 8 years' experience - Not Eligible (ii) Having 8 years' experience - 30 Marks Two marks shall be awarded for every additional year experience after 8 years' experiences up to a maximum of 20 marks. |
| 3 | Age Limit | Maximum 60 years as on the last date Of submission of application | |

6 Tunnel Engineer

| S. No | Description | Requirement | Weightage |
|-------|---|--|--|
| 1 | Educational Qualification | | Not Having Essential Education Qualification – Not Eligible |
| | Essential | Graduate in Civil Engineering / Tunnel Engineering / Mining Engineering / Rock Mechanics or equivalent AND Proficient in Design Software | 20 marks |
| | Desirable | Post Graduate in Structural Engineering / Tunnel Engineering / Mining Engineering / Rock Mechanics or equivalent | 5 marks |
| 2 | Essential Experience | | |
| | Professional Experience | Minimum 8 years | <p>(i) Not having 8 years' experience -Not Eligible</p> <p>(ii) Having 8 years' experience - 15 Marks</p> <p>Two marks shall be awarded for every additional year experience after 8 years' experience up to a maximum of 10 marks.</p> |
| | Experience of Design or Review of Design of Tunnels | Minimum 6 years | <p>(i) Not having 6 years' experience- Not Eligible</p> <p>(ii) Having 6 years' experience - 30 Marks</p> <p>Two marks shall be awarded for every additional year experience after 6 years' experience up to a maximum of 20 marks.</p> |
| 3 | Age Limit | Maximum 55 years as on the last date of submission of application | |

7. Geologist

| S. No | Description | Requirement | Weightage |
|-------|---|---|---|
| 1 | Educational Qualification | | Not Having Essential Educational Qualification - Not Eligible |
| | Essential | Post Graduate in Geology / related field | 20 marks |
| | Desirable | PhD in Geology / related field | 5 marks |
| 2 | Essential Experience | | |
| | Total Professional Experience | Minimum 8 years | (i) Not having 8 years' experience- Not Eligible (ii) Having 8 years' experience - 15 Marks Two marks shall be awarded for every additional year experience after 8 years' experience up to a maximum of 10 marks. |
| | Experience of Review of Tunnel Design Reports | Minimum 6 years | (i) Not having 6 years' experience - Not Eligible (i) Having 6 years' experience - 30 Marks Two marks shall be awarded for every additional year experience after 6 years' experience up to a maximum of 20 marks. |
| 3 | Age Limit | Maximum 55 years as on the last date of submission of application | |

8 Quantity Surveyor

| S. N | Description | Requirement | Weightage |
|------|--|---|---|
| 1 | Educational Qualification | | Not Having Essential Educational Qualification - Not Eligible |
| | Essential | Graduate in Civil Engineering or equivalent / Certificate course from 'Institution of Quantity Surveying' | 25 marks |
| | Desirable | - | - |
| 2 | Essential Experience | | |
| | Professional Experience | Minimum 8 years | (i) Not having 8 years' experience - Not Eligible (ii) Having 8 years' experience – 15 Marks Two marks shall be awarded for every additional year experience after 8 years' experience up to a maximum of 10 marks. |
| | Experience in Preparation of Bill of Quantities, Contract Documents & documentation of major highway projects involving major bridges / structures /tunnels | Minimum 4 years | (i) Not having 4years' experience - Not Eligible (ii) Having 4 years' experience – 30 Marks Two marks shall be awarded for every additional year experience after 4 years' experience up to a maximum on 20 marks |
| 3 | Age Limit | Maximum 45 years as on the last date of submission of application | |

9. Draftsman

| S. No | Description | Requirement | Weightage |
|-------|---|---|--|
| 1 | Educational Qualification | | Not Having Essential Educational Qualification - Not Eligible |
| | Essential | (i) Passed a recognized High School Examination and Draftsman ITC Certificate Course OR Diploma in Civil Engineering OR Graduate in Civil Engineering or equivalent AND (ii) Proficient in Computer-Aided Design (CAD) Software | 25 marks |
| | Desirable | - | - |
| 2 | Essential Experience | | |
| | Professional Experience | Minimum 5 years | (i) Not having 5 years' experience Not Eligible (ii) Having 5 years' experience – 15 Marks Two marks shall be awarded for every additional year experience after 5 years' experience up to a maximum of 10 marks. |
| | Experience in drafting drawings of structures, tunnels etc. | Minimum 3 years | (iii) Not having 3 years' Experience - Not Eligible (iv) Having 3 years' experience – 30 Marks Two marks shall be awarded for every additional year experience after 3 years' experience up to a maximum of 20 marks. |
| 3 | Age Limit | Maximum 45 years as on the last date of submission of application | |

Remuneration Structures

| S. No. | Name of the post | Remuneration per Month (Rs.) | Admissibility of TA / during site visit |
|---------------|----------------------------------|---|--|
| 1 | Sr. Bridge / Structural Engineer | 5,00,000.00 | Equivalent to GM, NHAI |
| 2 | Bridge Design Engineer | 3,50,000.00 | Equivalent to DGM, NHAI |
| 3 | Geotechnical Engineer | 3,50,000.00 | Equivalent to DGM, NHAI |
| 4 | Hydrology and Hydraulic Expert | 3,50,000.00 | Equivalent to DGM, NHAI |
| 5 | Sr. Tunnel Engineer | 5,00,000.00 | Equivalent to GM, NHAI |
| 6 | Tunnel Engineer | 3,50,000.00 | Equivalent to DGM, NHAI |
| 7 | Geologist | 3,50,000.00 | Equivalent to DGM, NHAI |
| 8 | Quantity Surveyor | 1,50,000.00 | Equivalent to Manager, NHAI |
| 9 | Draftsman | 75,000.00 | Equivalent to Asst. Manager, NHAI |

DECLARATION

I have carefully gone through the vacancy circular/advertisement and I solemnly declare and undertake that all the information furnished by me is true, correct and complete to the best of my knowledge and belief. I undertake that, if at any stage of the selection or even after selection, any of the information furnished by me is found to be false, incorrect or misleading, then my service/engagement will stand cancelled / terminated without assigning me any reason. I will produce the original documents in support of the information furnished when so ever required by the employer. I also certify that there is no conflict of interest with any concessionaires / stakeholders / staff associated with NHAI.

Date: _____

Signature of the Candidate

Place: _____

Name of the Candidate: _____