



सड़क परिवहन और राजमार्ग मंत्रालय
Ministry of Road Transport & Highways
भारत सरकार
Government of India



IDEAS DESIGN COMPETITION

DESIGN OF

BOUNDARY WALLS

AT NATIONAL HIGHWAY

conducted by

Council of Architecture

Ministry of Education, Government of India

Preamble | Competition Guidelines

Registration link

<https://ecoa.in/samarthaya/public/awards/Award>

National Highways Authority of India
G-5 & g-6, Sector 10, Dwarka,
New Delhi - 110075

<https://www.coa.gov.in/>

1.0 P R E A M B L E

1. The Ministry of Road Transport & Highways (MoRTH) has over 1,50,000 km of National Highways spread across the length and breadth of our country. The Ministry has timely issued guidelines regarding incorporation of provision for boundary/ toe wall in all the National Highway projects as per the requirement of access control/ partial access control and to check encroachments on National Highways.
2. National Highways Authority of India (NHAI) has erected boundary walls as per the Ministry's latest guidelines in several projects. However, the design of boundary wall needs to be improved from an aesthetic point of view.
3. Accordingly, NHAI intends to conduct an ideas design competition through Council of Architecture (CoA) to improve the aesthetics of these walls while duly keeping in view the technical specifications.
4. The design should help in reinvigorating the boundary walls. Tentative guidelines for the same are:-
 - Boundary walls shall be designed keeping in view the road safety aspects as per IRC specifications.
 - The walls shall be visually appealing and shall not distract the road users.
 - The orientation of the levels shall be such that the ROW is fully protected from encroachments by villagers, animals etc.
 - For improving the night visibility of the walls, retro-reflective material or similar may be used.
 - The walls shall reflect India's vision of G20 i.e. **Vasudhaiva Kutumbakam** signifying the major achievements of the nation in the past along with present initiatives to develop global peace.
 - The walls shall highlight the achievements of NHAI.
 - The walls may depict images of freedom fighters, civic awareness messages etc.
 - The walls shall give a glimpse of the local culture of the places through which the NH passes and may also involve rural participation.

- Alternatives to barbed wire fencing may be provided.
- The walls shall have noise barrier in wildlife sections.
- The walls can also be used for branding purposes thus helping in revenue generation so may be designed accordingly.
- Concept of green walls may be thought of to curb air pollution.
- The design shall include innovative ideas so as to be categorized as Green Model.

The competition conditions and rules for participation in the Design Competition are given at **Annexure -A**. The projects/ site details/ photographs are given in **Annexure-B**. The Guidelines issued by the Ministry of Road Transport and Highways, Govt. of India, in the matter are attached herewith as **Annexure -C**.

ANNEXURE A

COMPETITION GUIDELINES & REGULATIONS

1.1. Organiser of the Competition

1.1.1. The organizer of the Competition is NHAI and is being conducted through Council of Architecture, Ministry of Education, Govt. of India.

1.2. Purpose and Type of Competition & Eligibility to Compete

1.2.1. This is an **Ideas Design competition**, where NHAI shall use Design Concepts for beautification of boundary walls of National Highways. The participants are required to submit Design Ideas, views or any other drawings to explain the concept in detail. Site plan, elevations sections and 3-dimensional views may be submitted along with detailed calculations and cost analysis, etc.

1.2.2. It is open to all Architects registered with the Council of Architecture and all Architectural Institutions approved by the Council of Architecture.

1.2.3. For the purpose of this competition, single person/ architectural firm or a consortium of not more than 5 members shall be allowed. In case of Institutions the team should be endorsed by the Head of the Institution and one Institution can participate in multiple teams.

1.2.4. The employees of NHAI or its subordinate offices/ subsidiaries, etc./ Jury Members/ CoA Office Bearers and officials, etc. are not eligible to participate in the competition.

1.3. Steps to participate in the Competition

1.3.1. No participation fee is required to be paid by the participants.

1.3.2. The competition will begin with a formal announcement on the CoA website and also by NHAI on its website, and on its social media platforms.

1.3.3. All intending eligible competitors will be required to register on CoA website and will be assigned a Unique Identity Code to ensure their anonymity. Any disclosure of identity or influencing the jury will lead to disqualification and will amount to professional misconduct. The decision of the CoA shall be binding on the participants.

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1.4. General details & schedule of the Competition

1.4.1. Competition Schedule shall be as follows:

- Last day of registration is **30th April, 2023 by 5.00 p.m.**
- Last day for submission of the entries is **15th May, 2023 by 5.00 p.m.**
- Presentation of the shortlisted designs before the Jury - The date, time and venue will be communicated and declared by CoA, separately.
- Announcement of the results and Distribution of Prize – The date will be communicated and declared separately.
- All the official communications about the Competition shall be through E-Mail only at coaindia.nhai@gmail.com.
- Each team shall submit only one entry.

1.4.2. NHAI reserves the right to alter the above schedule and this Competition document or extend the Competition deadline before the last date of submission, which shall be deemed, confirmed and shall be binding upon all the participants.

1.4.3. Competition Coordinator: Registrar, Council of Architecture, New Delhi.

1.5. Composition of the Jury

1.5.1. The jury shall be composed of distinguished Architect members of repute and credibility in majority.

1.6. Competition Assessment and Deliberations

1.6.1. The Jury Members will themselves determine the procedure to be followed for the assessment of the received entries. The discretion of the jury will be final. On conclusion of the assessment, the Jury will submit a report to NHAI indicating the procedures and criteria used for assessments.

1.6.2. Participants do not have the right to request for access to the Jury's comments or records on the adjudication.

1.6.3. Upon completion of the procedure of evaluation, the final results of the Design Competition, Award date, time and place, will be announced for distribution of the prizes to the winners.

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1.7. Prize and Remuneration

1.7.1. The Competition Winning Entry shall be awarded the following prize money subject to deduction of applicable taxes.

1st prize - 5,00,000 INR

2nd prize – 3,00,000 INR

3rd prize – 2,00,000 INR

The above prizemoney will be awarded on announcement of the name of the Winner by the Jury.

1.7.2. NHA or CoA shall not be liable to compensate for any other expenses incurred by the participants on account of participation in this Competition.

1.8. Implementation of the Winning Design Entry Idea

It is the intention of NHA to adopt the design ideas and concepts on the finalised Art form or its components thereof, of the Winning Entry with or without modifications for its implementation. The winning entry may be made responsible for the preparation of detailed drawings & detailed cost estimates with technical specifications as per the terms and conditions recommended by the CoA.

1.9. Reservation

1.9.1. NHA reserves the right to use with or without modifications, the design ideas and concepts on the finalized Art form or its components thereof as submitted by all the invited participants, in phases as deemed fit.

1.10. Deliverables

- Design Submission– The submission should have a Concept Note not exceeding 1000 words and a walkthrough in case participant wishes to subject with following details in A4 size :
 - Understanding of the Project (including successful and relevant Benchmarking studies).
 - Translation of the Idea into Design Scheme
 - Concept Designs represented through 3D views or sketches.

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- Technical Specifications of the Components of the Structure having strength equal to or more than that obtained as per Ministry's Circular dated 04.02.2019.
- Maximum 5 nos. A2 sized drawings (42 x 59.4) in Landscape format (Plans, Elevations, Sections or any other detail to explain design concept and softcopy in PDF)
- Any other format will be rejected

1.11. Intellectual Property Rights and Confidentiality

- The Intellectual Property Rights of the ideas/ concepts and the submitted design, which the participant shall make or conceive, either solely or jointly with others, for the purpose of the Design Submission under this Competition, shall be retained with the participant.
- However, NHAI shall have the right to use the ideas/ concepts and the submitted design(s) by all the participants, with or without modifications, in phases as deemed fit by NHAI, in part or in full.
- The participants shall treat all the information provided by NHAI for the purpose of this design competition to be confidential and shall not disclose the same with anybody without taking prior written permission of NHAI.
- These obligations will survive during the tenure and even after the completion of the said Competition.
- NHAI has rights to cancel, extend/reject the Design Competition without any reason at any appropriate time.

1.12. Competition Process

The Competition will begin with a formal announcement made by the NHAI/ CoA on its website, and on other social media platforms.

All intending competitors will be required to register with the CoA website at <https://ecoa.in/samarthaya/public/awards/Award> to clear their eligibility and be assigned a Unique Identity Code to ensure their anonymity for the ensuing first stage. Queries, if any may be sent on e-mail mentioned above.

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The entries should be presented with a level of detail appropriate to the character as a design concept presentation. Teams should primarily focus on enabling the Jury to assess the main contextual, architectural and organizational qualities of the project. The Design should be economical and sustainable.

Submission Criteria

- i. All entries are to be in English only.
- ii. The anonymity of the entrants is to be ensured. The architect's name or participant's name should not be mentioned in any of the submission documents, else the entry shall be summarily rejected.
- iii. Each document to mention the reference code received during registration on the bottom right corner.
- iv. Submission can be done in PDF only along with Concept Note.

Total file size shall not exceed 30 MB.

1.13. Application of Regulations

- 1.13.1. Sending of entries by a participant implies that the participant has gone through rules & regulations and guidelines of the competition contained in this competition document and accept the same in toto.
- 1.13.2. Non-compliance, if any, with regard to the conformity of the competition regulations will be recorded by the Committee for the consideration of the Jury. However, the Jury's decision in this regard will be final and binding on all the participants.

1.14. Disclaimers

- 1.14.1. NHAI/CoA shall not be responsible or liable for any erroneous, damaged, destroyed, lost, late, incomplete, illegible and misdirected Entries, or any damage or loss arising from, connected with, or relating to the Competition, the submission of Entries to the Competition, participation in the Competition, regardless of the cause or any fault by the Organizer, the Organizing Committee and/ or the

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Jury Panel or any person concerned for whom any of the above mentioned are responsible, and notwithstanding that any of those persons may have been advised of the possibility such loss or damage being incurred.

- 1.14.2. NHAI/ CoA may at its discretion cancel, modify or suspend the Competition. The participants shall not be entitled to any compensation as a consequence of such cancellation, modification or suspension of the Competition.
- 1.14.3. NHAI/ CoA, its employees/ advisors/ representatives or consultants make no representation or warranty and shall have no liability to any of the participants under any law, statute, rules or regulations for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this Competition Document.

ANNEXURE B

THE PROJECTS / SITE DETAILS / PHOTOGRAPHS



ANNEXURE B

THE PROJECTS / SITE DETAILS / PHOTOGRAPHS



ANNEXURE C

THE GUIDELINES ISSUED BY THE MINISTRY OF ROAD TRANSPORT AND HIGHWAYS, GOVT. OF INDIA



All Members
C.M.(Coord)

RW/NH-24036/27/2010-PPP

Government of India
Ministry of Road Transport & Highways
(BP & SP Cell)

Transport Bhawan, 1, Parliament Street, New Delhi-110001.

Dated: 4th February, 2019

To

प्रधान सचिव, भारत सरकार
Admin Sect., NHAI
Dy/PTS No. 12/19
दि. 04/02/19

1. The Chairman, National Highways Authority of India (NHAI), G-5&G-6, Sector-10, Dwarka, New Delhi-110075.
2. The Managing Director, National Highway Infrastructure Development Corporation Ltd., 3rd Floor, PTI building, Parliament Street, New Delhi-110001.
3. The Principal Secretaries/ Secretaries of all States UTs Public Works Department dealing with National Highways, other Centrally Sponsored Schemes & State Schemes.
4. The Director General (Border Road), Seema Sadak Bhawan, Ring Road, New Delhi-110010.
5. The Engineer-in-Chief and Chief Engineers of all States/ UTs Public Works Department dealing with National Highways, other Centrally Sponsored Schemes & State Schemes.

Subject: Clarifications with respect to provision of Boundary Wall and Toe Wall to be constructed along National Highway Projects - revision of Circular No. RW/NH-24036/27/2010-PPP dated 25.04.2018 regarding.

Sir,

Please refer to this Ministry's earlier circular of even No. dated 24.04.2018 vide which the Ministry had informed about the revised cost norms along with project features considered for arriving at the aforesaid cost norms. One of the project features was the provision of boundary wall along the ROW except at ingress/egress points. Moreover, the typical cross-section for the boundary wall was also enclosed.

2. The Ministry has issued guidelines regarding determination of alignment for development/ construction of National Highways and also regarding land acquisition, tree felling, utility shifting across the alignment thereof. Further, during the meetings of appraisal committee for National Highway projects and other forums, the issues regarding land acquisition, expenditure incurred towards it, measures necessary for minimizing/ avoiding the possibility of any encroachments on the acquired ROW, access control/partial access control etc. have also been deliberated in detail. As such, it has been decided to incorporate provision for boundary/ toe wall in all the National Highway projects as per the requirement of access control/ partial access control and to check encroachments in accordance with the following specifications:

2.1 Toe wall:

The toe wall would be provided along the extreme outer line of the ROW as per the cross-section enclosed (at Annexure-I) to check the encroachments on the acquired

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ANNEXURE C

THE GUIDELINES ISSUED BY THE MINISTRY OF ROAD TRANSPORT AND HIGHWAYS, GOVT. OF INDIA

ROW in all the up-gradation projects (where land is being acquired in addition to the existing ROW) especially in the built-up areas or where the road stretch passes through habitation, whether urban or rural.

Note: The project feature defined as 'Boundary wall' at para 4.5.7 of Ministry's circular no. RW/NH-24036/27/2010-PPP dated 25.04.2018 would now be read as 'Toe wall'.

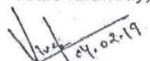
2.2 Boundary wall:

The boundary wall would be provided along the extreme outer line of ROW as per the cross-section enclosed (at Annexure-II) as per the requirement of access control/ partial access control. All the Green-field alignments would be developed as access control facilities with provision of boundary wall at the edge of ROW.

3. The provision of Toe/ Boundary wall may be duly incorporated in the technical schedules along with the drawings.

4. The contents of this circular may be brought to the notice of all the concerned for immediate compliance.

Yours faithfully,


(Vivek Panchal)
Executive Engineer (BP&SP)

Copy to:

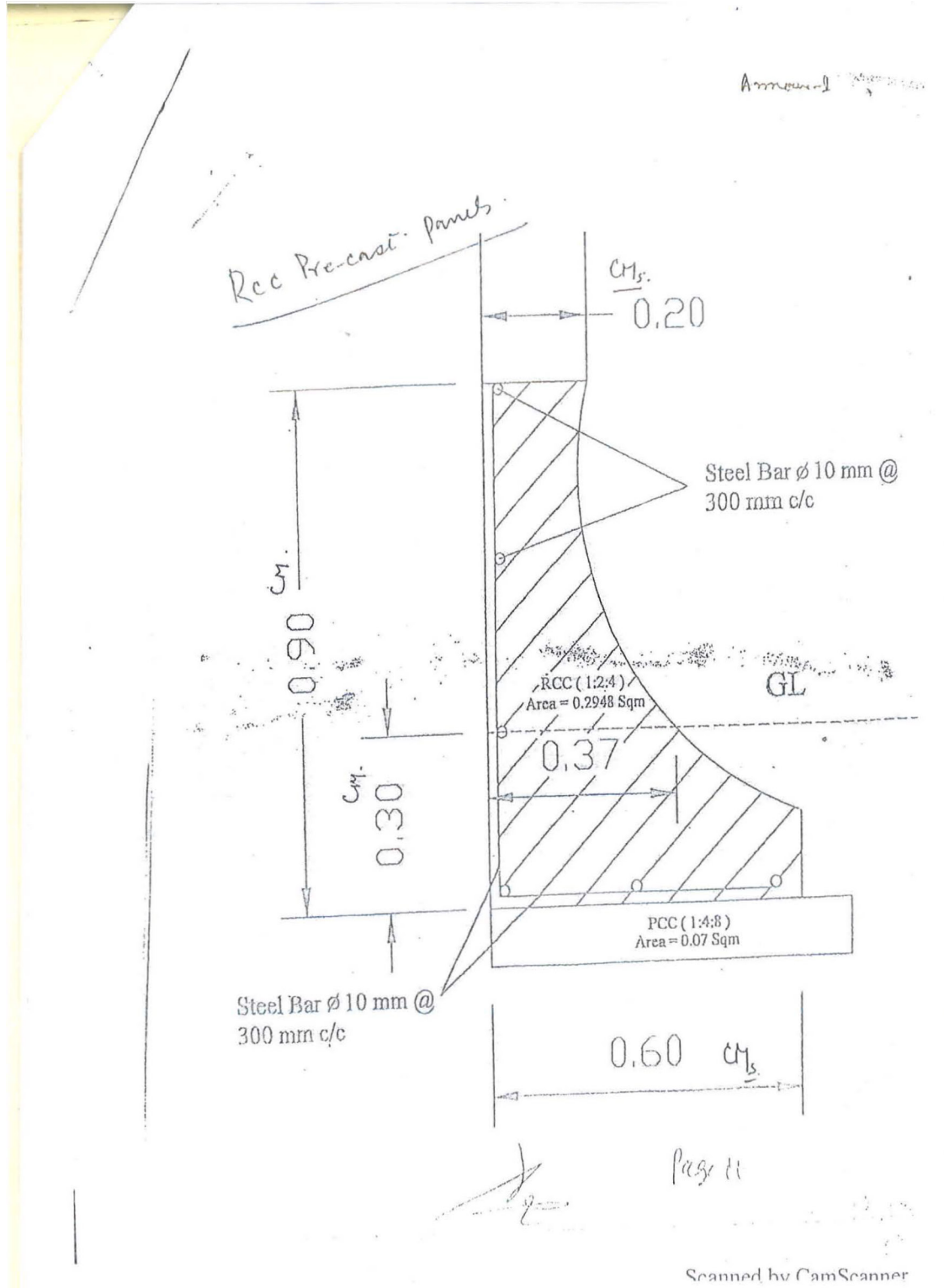
1. Director General (Road Development) & Special Secretary, M/o RT&H;
2. Secretary General, IRC;
3. Director, IAHE, NOIDA;
4. All ROs and ELOs of M/o RT&H.
5. NIC-with a request to upload the circular on Ministry's portal.

Copy also to:

1. PPS to Secretary (RT&H);
2. PPS to Additional Secretary, M/o RT&H;
3. PPS to Joint Secretary (Highways), M/o RT&H.

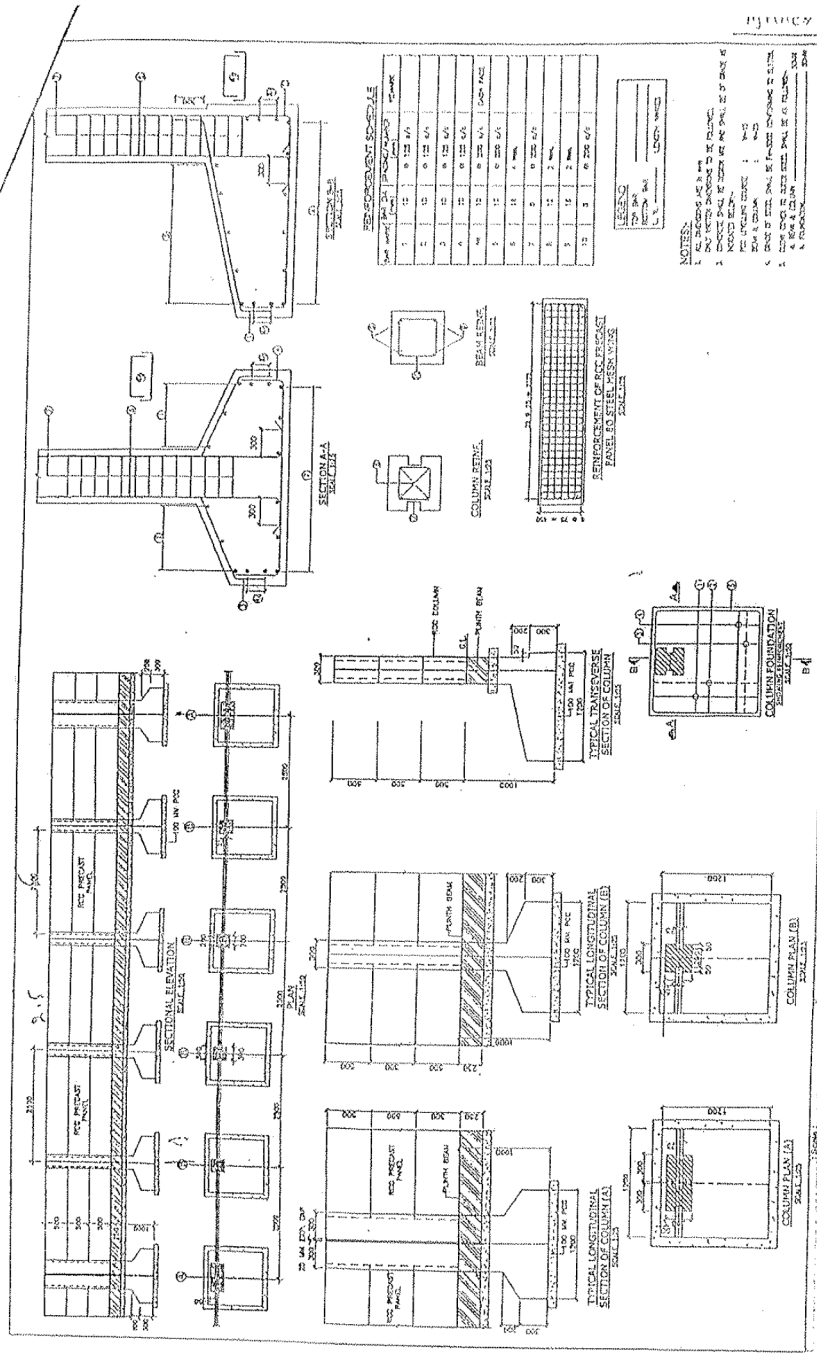
ANNEXURE C

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