



# DESIGN CHALLENGE

For

New Entry Gate of CSIR-CSIO,  
Chandigarh.

## 1. About CSIO and Design Challenge Problem Statement

CSIR-Central Scientific Instruments Organisation (CSIO), a constituent unit of Council of Scientific & Industrial Research (CSIR), is a premier National Laboratory dedicated to research, Design and Development of Scientific and Industrial Instruments. It is a multi-disciplinary and multi-dimensional Apex Industrial Research & Development Organisation in the country to stimulate growth of instrument Industry in India covering wide range and applications.

The visual identity of a National Institute is significantly shaped by its entrance gate, which serves as a reflection of the institute's ethos and the nature of work conducted within its premises. The entrance gate serves as the gateway to a place or campus, symbolizing the act of arrival. CSIR-CSIO, a prestigious national-level research laboratory, lacks a fitting facade for its main gate at present. As a beacon of technological advancement, it is imperative for CSIR-CSIO to exhibit its research prowess to the public, starting right from the entrance. The current main gate, aged and inadequate, fails to meet the functional requirements essential for ensuring the security of the institute with the campus's needs. Moreover, its aging structure does not resonate with the institute's modern aspirations. It is imperative to reimagine the main gate complex as a landmark that offers a glimpse of the institute's identity when viewed from the highway. Sustainability, eco-friendliness, and effective design must be integral to the construction of the new gate. The envisioned entrance experience should captivate visitors as they pass through the landmark gate and immerse themselves in the ambiance within. In light of these considerations, this design challenge invites participants to design a new main gate that encompasses features such as an inviting entrance, provisions for security personnel, and a strategically planned approach. The participants should design an innovative and suitable gate that seamlessly integrates with the institute's ethos. Additionally, the redesign of the security post attached to the entrance and the incorporation of expressive elements such as murals and physical models along the adjoining boundary wall are essential. However, the overall design must harmonize with the existing boundary language.

## 2. Location and Site- An Entrance Experience

CSIR-CSIO is the geographical gateway to the R&D and Academic character of the city and needs to be projected as an important landmark.

Chandigarh the dream city of India was planned by famous french Architect Le-Corbusier located at foothill of Shivalik Chandigarh is one of best experiment in Urban Planning and Modern Architecture. The Chandigarh city is divided into sectors and each sectors or neighborhood unit is quiet similar to traditional Indian Mohalla.

CSIR-CSIO is located in sector 30 is gate way to Chandigarh city and it being one of leader in Research activity has significance presence in Chandigarh apart from other leading Institutions located in Academic area of city.

The main gate has to be designed as a landmark when seen from Ambala-Chandigarh highway. The CSIO also has academics branches like AcSIR, ISTC which need to be added as signages along with CSIO thus exhibit its objective and mandate. The layout gate may consist of signage, pedestrian path, entrance/ exist, signage etc.

The CSIR-CSIO is located at latitude of 30° 42' 44.7"N, 76° 46' 55.2"E

### 3. About Chandigarh Architectural Design Restrictions:

Chandigarh, often hailed as the dream city of India and envisioned by the country's first Prime Minister, was meticulously planned by the renowned French architect Le Corbusier. Nestled at the foothills of the Shivaliks, it stands as a testament to pioneering urban planning and modern architecture in India. Le Corbusier conceived the master plan of Chandigarh with the analogy of a human body, emphasizing four essential functions akin to the body's laying, working, case, and spirit. The city's architectural grandeur, guided by principles of sunlight, space, and greenery, as articulated by Le Corbusier, must be integrated into the design of the gate. A holistic approach is imperative to ensure the protection, preservation, and seamless integration of the new gate design with the existing structures, thereby safeguarding the distinctive character of CSIO.



The comprehensive development of Chandigarh is governed by the Chandigarh Master Plan 2031. Notably, the architectural control stipulates that the boundary walls of all institutes across sectors 1 to 30 must stand at a height of 5 feet 11 inches. Furthermore, adherence to the architectural standards dictates that the gate design should span 4.88 meters in width and permit a height of up to 6 feet.

### 4. Design Pre-requisites: The gate designs for CSIO must fulfil the following functional prerequisites:

Once created institute may last for not just decades but for centuries, hence it is rare privilege for academic students to participate in design challenge process of creating new gate also an life time opportunity.

The objective is to think out of box design.

- **Visitor Entrance Space:** Ensure sufficient space for visitor entry.
- **Public Safety and Access:** Maintain restricted vehicular access within the campus, adhering to the existing road network. Integrate accessibility measures while incorporating built-in security features to ensure a safe environment, including measures to address littering and stray animals.
- **Environmental Considerations:** Emphasize green building principles to minimize carbon footprints, utilizing alternate energy sources where necessary and employing eco-friendly materials.
- **Engineering Standards:** Implement structural engineering techniques to ensure earthquake resistance and select materials with resistance to fire and accidents.
- **Visitor Facilities:** Provide amenities catering to the needs of various visitors, including the public, scholars, women, elderly, students, children, differently-abled individuals, and visually impaired/challenged individuals, at the security visitor room.
- **Boundary Wall Adjacent to Gate:** Modify the boundary wall to align with the display theme based on by CSIO, allocating approximately 20 feet on each side of the gate for this purpose.
- **Miscellaneous:** Refer to the enclosed drone picture of the gate to understand the existing conditions of the entrance.

## 5. Eligibility:

- 1) Students enrolled in institutes of National Importance etc are eligible to participate as per Annexure in the competition. The students can participate in a team while each team to have one student of Architecture and other member may consist of student of BDes, art design.
- 2) The allowed team size is between two to four only.
- 3) The design to be done only on theme provided.

### Competition Schedule

#### Important Dates

- Launch of the Competition:-26/04/2024
- Closing of design challenge -20/06/2024
- Announcement of Results of Stage –to be announced on CSIO website
- Presentation for Selected Participants:-to be announced
- Announcement of Final Result:-to be announced

The submission of entries will be done on [mail-designchcsio@gmail.com](mailto:mail-designchcsio@gmail.com)

## 6. Competition Stages:

The competition comprises of submission of following documents, drawings. The critical of selection will be decided by Jury.

Candidates are required to submit their conceptual drawings and sketches online in PDF format- Short video-Google. Entries will undergo a rigorous selection process for selection submissions, competitors are encouraged to provide explanatory text accompanied by sketches, effectively conveying their interpretation of the architectural program and functional relationship. Submissions should be concise, consisting of no more than 10 A3 size sheets in PDF format, with a file size limit of 10 MB.

[<https://www.youtube.com/watch?v=SbT1FfxipGY>]<https://csio.res.in/> Candidates should provide/present.

- Report (PDF format)
- Site plan/master plan (PDF format)
- Plans at all levels
- Elevation & Sections
- 3D model (walkthrough)
- Rendered night view/Illuminated view

## 7. Compensation and Awards:

In this thrilling competition, CSIO is gearing up to honour the brightest minds in design. For all entries chosen, not only will participants receive certificates of recognition, selected participants also receive travel support while coming for presentation to CSIO for an unforgettable experience right here at CSIO.

#### Final Awards:

First Prize (01, Amount)	: 1,00,000
Second Prize (One, Amount)	: 50,000
Third Prize (One, Amount)	: 25,000

The decision of jury is final and binding upon all.

## 8. Design Challenge Assessment Criteria:

All submissions for this design challenge will be evaluated based on the following criteria:

- Clarity and Alignment with Design Objectives: The extent to which the design aligns with the stated aims and objectives, demonstrating clear introduction and intent.
- Responsiveness to CSIO Security and Functional Needs: The degree to which the design addresses CSIO's security requirements and functional necessities, while achieving energy efficiency through design.

- Integration with Landscape Design: How well the design integrates with landscape elements and utilizes on-site features effectively.
- User-Friendly Design: The ease of use and accessibility of the design for both the general public and visitors to the premises.
- Flexibility for Future Needs: The adaptability of the design to accommodate future expansions, additions, or alterations as required.
- Sensitivity to Local Character: Consideration of the site's local character and architectural context, with a focus on the site's specific location.

**Note: The organizers retain the right to accept or reject any submission without providing justification. Anonymity will be maintained throughout the competition.**

#### **9. Terms & Conditions:**

- Regulations Compliance: Submission by a competitor implies acceptance of all competition regulations outlined in the Competition Dossier. The Jury holds exclusive authority to enforce these regulations.
- Any lapses regarding conformity to competition regulations will be documented by the Professional Advisor for the Jury's consideration.
- The Jury's decisions on regulatory matters are final and binding. Competitors acknowledge and adhere to the Jury's decisions, as they alone are competent in applying and interpreting the regulations.
- Ownership & Copyright: CSIO retains full ownership rights of all the winning design. An agreement will be entered into with the prize winner, subject to legal and regulatory safeguards covering intellectual property. CSIO reserves the right to retain copies of the reports and drawings of all design entries for future reference.
- Resolution of Disputes: The jury serves as the sole arbiter throughout the competition, up to the stage of signing an agreement between CSIR-CSIO and the Designer. In the event of litigation, the courts in Chandigarh shall have exclusive jurisdiction.
- The selected candidates need to felicitate CSIO Civil team for selected design execution by visiting institute at least twice. The visit cost will be supported by CSIO.

#### **10. List of Documents Provided by CSIO along with this Call for Design: The competition dossier includes the following:**

- a) Introduction
- b) Location & Site
- c) Design Brief including Guidelines and pre-requisites
- d) Site Plan (AutoCAD)\*
- e) Photographs in JPG format/drone video (please see link above)

Please refer to CSIO website more detailed information.

(\*Note: Some documents may include additional attachments or files, such as the Site Plan in AutoCAD format and photographs in JPG format or drone video.)

- #### **11. Contact Details: Director CSIO,**
- Sr. SE(C) -**9872861158, 9478100906, 0172-2657083**  
Mail- **director@csio.res.in**