

IIA NAVI MUMBAI, STUDENT DESIGN COMPETITION, MOTORSPORT RACING TRACK

DESIGN BRIEF

INTENT - To Popularize Motor Racing in India.

BACKGROUND

Although motorsport has existed in India for more than 60 years, it has only recently become more well-known and aroused interest on a national level. India's contribution to the world motorsport scene has never been greater with rising participation in international races and road racing competitions. Indian automakers are investing in the sport, and are already seeing results with successful finishes across international competitions. Even our homegrown racers are becoming well-known on a global scale, and many men and women in the nation want to become professionals in the sport.



Figure 1. Indian racer Jehan Daruvala wins F2 Sprint Race in Monza. (James Gasperotti)

DESIGN BRIEF

Motorsport Racetracks or 'circuits' are a place where vehicles like cars and bikes can be raced over the course of several laps. Many of these events are televised and have large audiences in attendance, like other sporting events including cricket and football. The aim is to create a permanent circuit that can be used to host racing events with an audience capacity of at least 200,000 people. As the area taken up by a project of this scale is vast, and requires immense maintenance, the circuit has to be multifaceted in order to be **Self-Sustainable**. This means that the circuit must generate its own revenue even in an off-season when races do not take place at the track. In order to achieve this introducing commercially viable aspects are necessary. It is also essential to consider environment friendly factors while designing. There are no rules dictating what shape a track must be. Tracks must be at least 3.5km in length and must not exceed 7 km. The starting grid has to be at least 15 metres wide, with the width of the track maintained through the first corner to minimise the risk of pile-ups on the opening lap. The first corner must see a change of direction of at least 45 degrees, with a radius under 300 metres.



Figure 2. Formula E enters India. (Lou Johnson)

The following are the basic requirements for a circuit.

- Racetrack and Pitlane with a Pit Building (pit building holds the garages)
- Paddock
- Individual Team Centres
- Medical Centre
- Event Organizers Office
- Ticket Sales Offices
- Souvenir Shops
- Spectator viewing (Grandstands, Private Viewing Galleries, Viewing Towers etc.)
- Media Centres (Broadcasting Booths, Conference Rooms, Interview Rooms)
- Restaurant/ Cafeteria
- Equipment storage
- Restrooms
- Parking Area

SUBMISSION REQUIREMENTS

A write-up of 500-1000 words explaining the design **concept, area program and site considerations.**

A conceptual rendered layout plan along with elevations, sections and views. You are permitted to use up to 4 A1 sized sheets (and a minimum of 2 A1 sheets).

Digital or Hand drafted and rendered sheets both are allowed. Hand drafted sheets must be scanned and uploaded Digitally.

SITE

The site is located in Navi Mumbai close to the site of Proposed Navi Mumbai Airport. Its total area is approximately 100 Hectares.

Site plan is attached along

