REPORT

Design proposal for beautification and emphasize of the entrance road and gate to the Air Transit System (A.T.S.) building situated on the road connecting highway NH-7 to the Dr. Babasaheb Ambedkar International Airport, Nagpur.

by



for

AIRPORT AUTHORITY OF INDIA (A.A.I), NAGPUR

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ABOUT AIRPORT AUTHORITY OF INDIA, NAGPUR

Airports Authority of India (AAI) was constituted by an Act of Parliament and came into being on 1st April 1995 by merging erstwhile National Airports Authority and International Airports Authority of India.

The Airports Authority of India, under the Ministry of Civil Aviation is responsible for creating, upgrading, maintaining and managing civil aviation infrastructure in India. It provides Air traffic management (ATM) services over Indian airspace and adjoining oceanic areas. It also manages a total of 125 Airports, including 18 International Airports, 7 Customs Airports, 78 Domestic Airports and 26 Civil enclaves at Military Airfields. AAI covers all major air-routes over Indian landmass via 29 Radar installations at 11 locations.

The AAI has been involved in various consultancy projects with Libya, Algeria, Yemen, Maldives, Nauru and Afghanistan. The AAI also provides trained personnel for operation, maintenance and management of airports in these countries



LOGO OF AIRPORT AUTHORITY OF INDIA.

SITE LOCATION

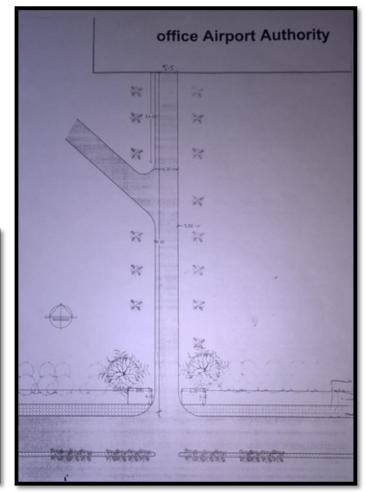


Sonegaon, Maharashtra, India 440005

Dr. Babasaheb Ambedkar International Airport is an international airport serving the city of Nagpur, Maharashtra, India. In 2005, it was named after B. R. Ambedkar, the chief architect of the Indian Constitution. The airport spread over 1,460-acres.

It is slated to be the Multimodal International Hub Airport and development work started in 2005. The plan involves construction of a second runway, a new terminal building and a cargo complex through a build-operate-transfer basis. The new Integrated Terminal Building was inaugurated on 14 April 2008. A maintenance-repair-overhaul (MRO) facility, built by the American aircraft manufacturer Boeing, occupies 50 acres of land at the airport. Construction began in January 2011.

Air Traffic Services form an integral part of the airport. The ATS building is situated on the road connecting the Wardha Road to the Airport. It occupies a compounded complex with its own short driveway.







FORUM ACTIVITY: DESIGN COMPETITION

In 2006 the Nagpur Airport was transferred to the Maharashtra State owned Maharashtra Airport Development Company Limited (MADC) to develop the Miultimodal International Hub Airport. The A.T.S. building remained with the Airport Authority of India.

The A.A.I. seeks a design intervention which will help it highlight its identity.

The T.G.P.C.A. Design Cell was directed to:

- 1. Mark the entrance to its driveway using sculptures
- 2. Beautify the driveway to the building
- 3. Redesign the front gate of the complex which is visible from the road to the airport.

The T.G.P.C.A. Students Forum was asked to prepare design options.

The Forum consists of four groups:

- 1. Baker Brotherhood
- 2. Correa Circle
- 3. Doshi Drove
- 4. Rewal Ring

Their proposals are discussed as follows.

PROPOSAL OF REWAL RING GROUP

AIM: The project was given to us to redevelop the given space, to make it look aesthetically good and impressive to the viewer and give emphasis to the office.

REQUIREMENTS: To redevelop the site

- Given area (6m x 4m)
- Footpath
- Gate
- Landscape
- (low cost, sustainable and maintenance free)

CONCEPT: Without changing the logo of AAI (Airport authority of India), it was used to resemble the office there.

WHAT WE DIDS

- It was asked, that the design must be cost efficient, maintenance free and must have stability.
- The task/ design requirement was as such that it should be made without denuding the trees.
- The given area of 4mx6m was designed as.





MINATURE MODEL

SITE VIEW

The material we used in this model was glass, steel and concrete.

The two patches on either side of the road along the footpath were provided with exactly same size.

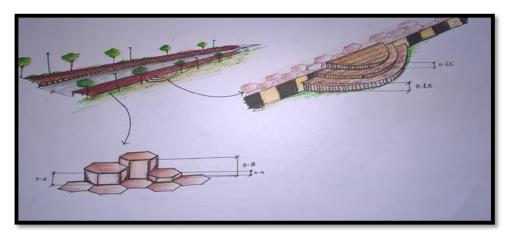
Therefore, same design was considered on both side to retain /maintain the symmetry of the road.

The sides of the footpath were unpaved so along with sit out we paved the footpath and lamppost.

The footpath was enhanced as a morning walk space with a few seating spaces provide on it.

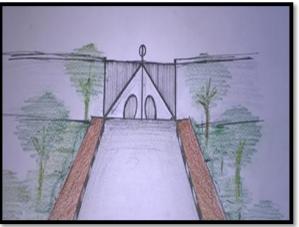
The pavement tiles were designed in a hexagonal shape and elevated to a hexagonal shape and elevated to a height of 0.4m, 0.6m, 0.8m. It is monolithic structure.

On one side there is a ground for cricket where sitting area is created which is a semi-circular OAT(open air theatre)

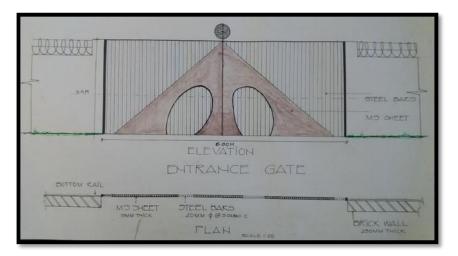


DESIGN OF PAVING, FOOTPATH, SIT OUTS.





ACTUAL GATE DESIGN OF GATE



DETAIL OF GATE



RADAR LOGO

- Concept evolved from RADAR logo.
- Materials are M S sheet of 5mm thick
- Steel bars of 20mm dia.

CONCLUSION:

The road towards the airport will appear to have a singular area which will give a suitable visual appearance. The designed logo on the beginning of the turn will enhance the importance of the office.

PROPOSAL OF DOSHI DROVE GROUP

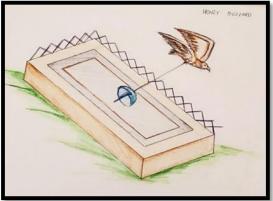
AIM: our aim was to design a sculpture for Airport Authority office.

As the symbol of Airport Authority office is AIA so we designed a sculpture representing then symbol of AIA.

At right hand side of the road leading to the office is the main sculpture which represents AIA and above the sculpture a (glob) sphere of the alphabet "I" which complete symbol. The sphere is half and the other half is beneath the left hand side sculpture which is honey buzzard.

The sculpture denotes that the honey buzzard is flying towards the AIA sculpture to complete the sphere which is on the AIA sculpture.



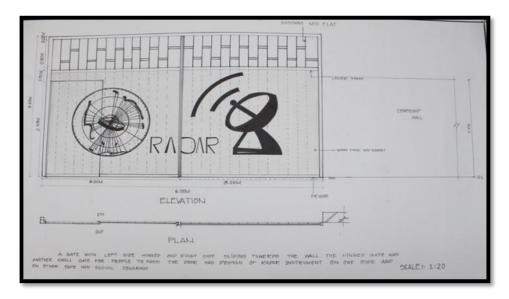


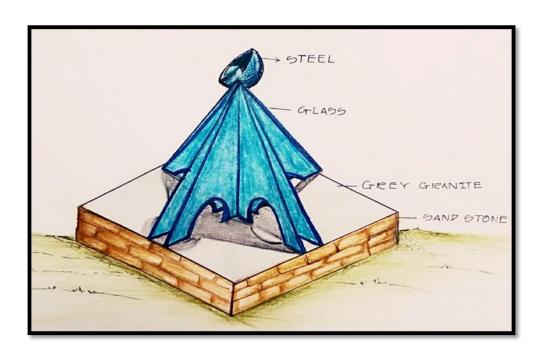


GATE

A gate with left side hinged and rigth side sliding towers the wall.

The hinged gate has another samll gate for people to pass. The gate has designed of radar instrument on one side and signal instrument on the other side.





PROPOSAL OF BAKER BROTHERHOOD

Aim: designed two sculptures which will be placed on the two corners of the roads leading to the building of airport authority of India (AIA).

On the both sides of the road there are sculptures are placed which will be move with the help of kinetic energy and will develop electricity which will be used in road side lamps.

The main sculpture which is placed on the left side of the leading road is designed on the basis of airport authority of India forming a 3d structure of AIA.

On the top of the main structure abstract form of globe is placed.

The material used in the construction of the structure is concrete and the globe is made of mild steel.





The another structure which is placed on the right side of the leading road designed with concept of Nagpur famous fruit orange and the aeroplane.

Aeroplane is placed on the top of the orange leading towards the main structure of AIA.

Materials used are Ferro cement for orange and aeroplane is of stainless steel net.





PROPOSAL OF CORREA CIRCLE GROUP

We were asked to treat the approach road of the A.T.S. Complex which comes along the Nagpur International Airport. Current conditions of the site were as such that the complex went unnoticed to the passer-by.

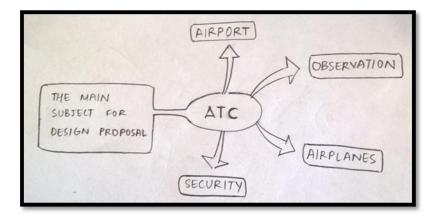




The task was to provide a design for the A.T.S. complex so that it gets highlighted. The key points for the required design were as follows:

- To make people aware about the operations and significance of the organisation body
- To design an iconic sculpture which represents the ideology of the organisation
- To treat the unpaved footpath which can be used by the people

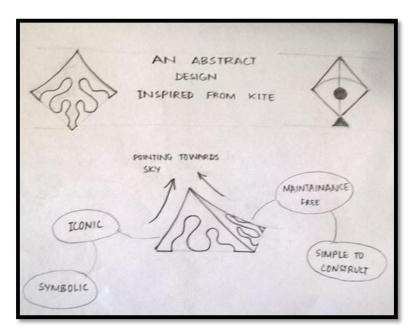
So we started with the basic process of analysing what images the A.T.S. brings up when we think about it for helping in the design process.



The Proposal

The design solution which was thought for the A.T.S. was based on the following points:

- The sculpture should be iconic
- It should be symbolic
- It should be simple to build
- It should take less resources to maintain



The design for the sculpture was inspired from kite which symbolises flying objects. The shape of it shows an upward motion towards the sky. The materials proposed for the sculpture has a metallic finish which leans toward a premium look, helping the name of the organisation. Metallic surface can reflect light in great amount and can also highlight when subject to artificial light in the night.



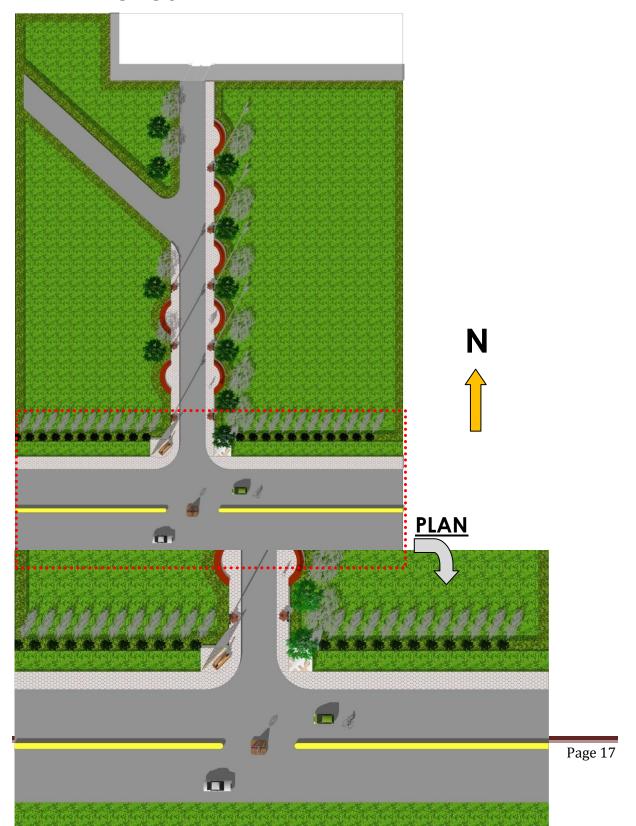


The footpath was designed with seating spaces such that views of both sides can be seen via alternate facing seating. This can also be used by the users of the cricket ground. The model is also proposed to be self-sustainable id equipped with solar panels so that the lights near the seating can be powered by them.

Similarly, the gate for the complex was also designed keeping in mind the nature of the organisation.



FINAL PROPOSAL









VIEW OF SCULPTURE





