

AR-2415

Faculty of Engineering & Technology
B. Arch. Eighth Semester (C.G.S.) Examination
ARCHITECTURAL DESIGN-VIII

(10065)

Paper—8 AR 01

Time : Twenty Four Hours]

[Maximum Marks : 200

INSTRUCTIONS TO CANDIDATES

- (1) All questions carry equal marks.
- (2) Answer any **ONE** question.
- (3) Due credit will be given to neatness and adequate dimensions.
- (4) Assume suitable data wherever necessary.
- (5) Illustrate your answers wherever necessary with the help of neat sketches.

Instructions :

Final submission.

The submission shall be done to suitable scale with following requirements :

- (i) First day submission
Circulation and flow chart of activities and building line plan.
- (ii) All floor plans with facilitation.
- (iii) Site plan showing entry, exit, parking and landscape area.
- (iv) Two major elevations.
- (v) Two sections :
 - (a) One from Toilet and
 - (b) From Staircase.
- (vi) Perspective/Isometric view.
- (vii) Concept and design with type of material and construction technique, services and climate.
- (viii) Special emphasis given to service plans and service layout in floor plans.

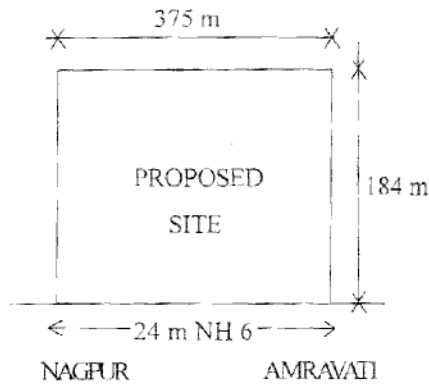
1.

MERCEDES BENZ LIMITED

A multi level showroom and servicing centre for luxurious cars segments.

A multinational MERCEDES BENZ luxurious cars manufacturing company's dealer wishes to start it's showroom at Amravati. For this purposes they have selected a piece of Land on

National Highway No. 6 near Rahatgaon Village, which is measuring nearly 0.68 Hectare area in size along the road side.



The set back at front is to be left as per the norms and rules of national highway that is 55.0 mtrs. from the centre of the road and other set back at 3 sides are minimum 4.5 m. The requirements of showroom as per following :

- (1) Entrance Foyer with common waiting lounge 50–60 sqm.
- (2) Front Office :
 - (a) Chief Executive Officer's cabin, toilet and a small waiting area with the space for personal assistant 30 sqm.
 - (b) 2 nos. Managers 15 sqm.
 - (c) General Office and Accounts 30 sqm.
 - (d) Storage 15 sqm.
 - (e) Computer Section 20 sqm.
 - (f) Toilet facilities for staff.
- (3) Office :
 - (a) Enquiry Counter 15 sqm.
 - (b) Discussion Room 20 sqm.
 - (c) Audio/Video demonstration with discussion space for 30 spectators with facility of Pantry.
 - (d) Display space (showcase) which can face the highway and can accommodate 8 different type and size luxurious cars 150 sqm.
 - (e) Banking loan counters at least 6 Nos. which can be attached to the exhibition space 10 sqm. each

(f) Office area which can accommodate insurance, loan, etc.	15 to 20 sqm. each
(g) Storage	10 sqm.
(h) Workers changing room (Ladies and Gents)	15 sqm. each
(i) Washroom for both sexes.	
(4) Workshop :	
(a) Work Manager	15 to 18 sqm. and Toilet
(b) 2 Nos. Assistant Work Manager	12 to 15 sqm. each
(c) Workshop worker changing, refining, tiffin and washroom	36 sqm.
(d) Workshop inspection pits	
2 nos. service platform, 2 nos. (with backyard) and equipment room.	150 sqm.
(e) Painting/Denting workshop with over facility and courtyard	120 sqm.
(f) Waiting for customer with all facilities like shoe polishing machine, pantry, newspaper, etc.	60 sqm.
(g) Genuine spare parts counter with storage space office + Record counter	30 sqm. 200

2. CITY SPORTS CLUB

The site is in Nagpur by considering all requirements workout total area and suggest a suitable size of plot.

Assume suitable north direction, road width, parking, road, service road, security and services.

Requirements :

- (1) Residential blocks 12 Nos. 40 sqm. each
(Living room, Kitchen, Washroom and one bed room with open deck)
- (2) Administrative Block 50 sqm.
 - (a) Entrance Foyer.
 - (b) Waiting for 10 persons.
 - (c) Manager Cabin.
 - (d) Staff Area.
 - (e) Back Office.
 - (f) Store Room.
 - (g) Meeting Room.

- (h) Washroom for Ladies and Gents.
- (i) Souvenir counter.
- (3) Sports Complex Indoor.
 - Indoor games area each of 30 sqm :
 - (a) Carrom room.
 - (b) Chess and Card room.
 - (c) Snooker room.
 - (d) Squash room with waiting 65 sqm.
 - (e) Swimming Pool with changing rooms for male and female with the provision of shower room etc.
 - (f) Changing room for indoor games for Ladies and Gents.
 - (g) Washroom for Ladies and Gents.
 - (h) Table Tennis 2 nos. with waiting 8 sqm.
- (4) Banquet Hall for 300 people with kitchen, store, pantry, washing space, prefunction area 500 sqm.
- (5) Parking for BUS, CARS, SCOOTERS and CYCLES.
- (6) Outdoor games :
 - (a) Lawn Tennis Court 2 nos.
 - (b) Volleyball Ground.
 - (c) Kabbadi Court.

Assume area for above as per requirements and necessary data.

- (7) Any other requirements you wish to incorporate to complete sports complex.
- (8) Restaurant with Cafeteria.

The sport complex is surrounded by compound wall with entrance and exit gate with security cabin.

- (9) Four sport complex entrance gate is aesthetically good looking and welcoming, allowing childrens specially. 200