

## Notes on New building for the Tamilnadu Legislative Assembly at Omandurar Government estate, Chennai.

The Government have sanctioned an amount of Rs.425.57 crores for the construction of a new building complex for the Tamilnadu Legislative Assembly. The foundation stone laying ceremony chaired by the Hon'ble Chief Minister was held on 12.06.2008 at the Government estate.

Global level competition for designing the Architectural plan was called for and the plan of M/s gmp Architects , German selected for the Assembly building. They along with their local Architect M/s Archivista Engineering Pvt.Ltd, Pune and Y.S.Sane structural consultant, Pune evolved the plans and structural design of the building. National level bid was called for and the work awarded to M/s ECCI Ltd. Work was commenced on 12.11.2008 with a completion time of 18 months.

The Assembly building is an elliptical shaped structure with 4 internal circles and 6 external semi circles with a covered drive way around. The building has open space around the inner circle for better natural lighting and ventilation. The external face of the building is covered with structural glazing and granite cladding allowing natural day lighting. The building comprises of 4 circle namely CM circle, Library circle, Assembly circle, Plaza circle. The Building is aligned in NE-SW direction with Plaza facing Wallajah road and CM circle facing Sivanandha salai.

The salient features of the buildings are as below.

- The building is about 285 m in length and 105 m width at plaza and 62 m at CM circle.
- The building is 100 ft high with a 100 ft. height dome over it.
- The building has a plinth area of 86458 Sq.m with ground floor + six floors.
- The building is framed structure, founded on bored cast in situ piles.
- The building is designed to withstand earth quake.

- The building is designed as a green building, to reduce pollution to environment by way using minimum electricity for lighting and air conditioning, use of building material manufactured by recycling, use of treated sewage water for gardening, landscaped covered drive way around building etc.
- The building is provided with fire detection and protection arrangements.
- The building has 17 lifts and 15 staircases.

The ground floor of the plaza has the drop off point for MLA's for entering into the Assembly. Water tank , transformers, generators and other service utilities are located in the front side of the Plaza .The first floor of plaza is an open area, with a diameter of 340 ft. and plinth area of 91800Sq.ft. It has a central cut out for growing trees , ring shaped water body around the opening, pergola beams at third floor level supported by 3 floor height columns for aesthetic elevation. The plaza has a head room of 55 ft. at the entrance with ring shaped roof/floor at the fourth floor. The plaza first floor is approached by climbing 44 steps provided around the circle for 1760ft length, this along with hefty pylon columns , gives a gigantic aesthetic look for the building

The Assembly hall is located in the ground floor of the Assembly circle, circular in shape with a diameter of 120 ft., head room of 100 ft. and 11 500 Sq.ft plinth area. The Assembly has galleries around the Assembly hall in ground, first and second floor for VIP guests, press reporters, other visitors respectively. The hall is provided with stepped false ceiling , acoustic wall paneling and ornamental lighting. The roof is covered by a 100 ft. height steel dome with gold colour aluminium plates and polished granite. The external lighting is provided for the dome for night illumination.

The Conference hall is located in ground floor of Library circle. The hall is circular in shape having 90 ft. diameter, 30 ft. head room and 6540 Sq.ft plinth area ,with a seating capacity of 250. The hall is provided with modern stepped false ceiling and acoustic wall paneling.

The dining hall is located in ground floor of CM circle . The hall is circular in shape having 65 ft. diameter, 30 ft. head room and 3400 Sq.ft plinth area.

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His Excellency Governor's room, Chief Minister's executive room, Speaker, Dy. Speaker, Party leaders room, party office, Assembly Secretary room are housed in ground floor.

Assembly Library is located in third floor of Library circle. Roof garden is laid in fifth floor of Library circle and sixth floor of CM circle.

Hon'ble Ministers' room and Secretarys' room are housed in third to sixth floor of CM and Library circle. Hon'ble Chief Minister's , Dy.Chief Minister's room ,CM's Secretaries room, Chief Secretary 's room are housed in sixth floor of CM and Library circle. Offices of the Assembly, Home ,Finance, Public ,Law and P&AR department are housed in first floor to sixth floor of Assembly and Plaza circle.

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# New Building For Tamilnadu Legislative Assembly Building

## Plinth Area

Ground Floor	: 17,455 Sq.m (1,87,955 Sq.ft)
First Floor	: 11,274 Sq.m (1,21,398 Sq.ft)
Second Floor	: 11,061 Sq.m (1,19,105 Sq.ft)
Third Floor	: 10,137 Sq.m (1,09,155 Sq.ft)
Fourth Floor	: 11,061 Sq.m (1,19,105 Sq.ft)
Fifth Floor	: 12,595 Sq.m (1,35,623 Sq.ft)
Sixth Floor	: 12,088 Sq.m (1,30,164 Sq.ft)
Terrace	: 787 Sq.m ( 8,474 Sq.ft)
Height of building	: 60.50 m (198.44 ft.)
Total number of piles	: 1676 Nos.
Total number of columns	: 475 Nos.

## Quantum of Materials used

Earth work	: 55,000 Cu.m (19,42,325 Cu.ft)
Concrete	: 91,250 Cu.m (32,22,494 Cu.ft)
River sand	: 53,000 Cu.m (18,71,695 Cu.ft)
Broken granite jelly	: 54,000 Cu.m (19,07,010 Cu.ft)
Cement	: 23,760 Mt
Steel	: 14,000 Mt
Bricks	: 49,60,000 Nos.
Granite slabs	: 48,000 Sq.m (5,16,864 Sq.ft)
Marble slabs	: 18,000 Sq.m (1,93,824 Sq.ft)
Structural glazing	: 20,000 Sq.m (2,15,360 Sq.ft)

## Man power deployed

Engineers	: 1,17,000 Man - days
Non Technical staffs	: 70,200 Man - days
Labours	: 14,56,000 Man - days

## Machineries used

Batching plant	: 2 Nos. of 30 Cu.m/hr capacity
Concrete pumps	: 6 Nos. of 45 Cu./hr capacity
Transit mixer	: 12 Nos. of 6 Cu.m capacity
Tower crane	: 4 Nos. of 1.5 - 6 Mt capacity
Hydraulic excavator	: 4 Nos. of 0.3 – 0.7 Cu.m capacity
Concrete boom placer	: 1 No. of 80 Cu.m/hr capacity
Mobile crane	: 4Nos. of 10 – 12 Mt capacity
Tipper/Lorry	: 12 Nos. of 10 Mt capacity
Hoist	: 8 Nos. of 1 Mt-100' ht. capacity
Bar bending & cutting machine	: 6 sets
Vibr max & mini compactor	: 5 Nos., static -1.5 Mt, Vibro -12 Mt

## Electrical

Transformers	: 7 Nos. of 1600Kva ,33Kv/440V
HT panels	: 3 Nos. of 1250 Amps. Siemens make
LT panels	: 21 Nos. of 60 – 120 Amps L& T
Cables (Fire resistance & low smoke)	: 32 Km
Cable tray	: 30 Km

## HVAC

Chillers	: 10 Nos. of 410 Tr Carrier make
Chill water pumps	: 20 Nos. of 1073 Gpm(U.S) Grundfos
FAHU & AHU	: 25 Nos. of 36,000 Cf/m
4- way cassette unit	: 1930 Nos. of 0.7 – 2.2 Tr cap.
Chill water piping(MS – C class)	: 31 Km.
Pre fabricated ducts	: 14 Sq.Km.

## Fire fighting & Alarm

Fire fighting pumps	: 3 Nos. of 273 Cu.m/hr – Kirlosker make
Fire fighting pipes	: 31 Km Tata make
Sprinklers	: 9500 Nos. Tyco make
Fire alarm cables	: 23 Km of 2C,2.25 Sq.mm FRLS
Smoke detectors	: 3500 Nos.
Hooters/modules/MCP	: 600 Nos.

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