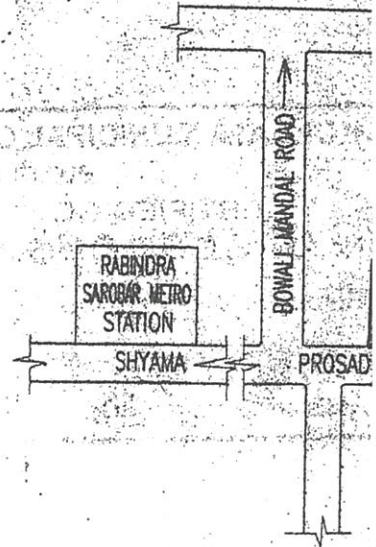




sdf
A.K. Mandal
TECHNICAL ADVISOR
BUILDING (BR-VIII)
K.M.C

sdf
A. D. ...
A. E. (C)
BUILDING
BR. VIII





KOLKATA MUNICIPAL CORPORATION
BUILDING DEPARTMENTS
CERTIFIED COPY OF B.S. PLAN
No. 2016.080.028...Dt. 06/09/2016
Borough No. VI.....
↓
Assistant Engineer (e)

[Signature]
Dy. ee (3)/5
Executive Engineer
O.S.D. Bldg
K. M. C.

[Signature]
TECHNIC
BUILDIN
K

H. SPRINKLER INSTALLATION:

The automatic Sprinkler installation shall be provided in all floor areas of the building as per I.S. 9972. Alarm gang to be incorporated along with the Sprinkler System.

I. FIRE PUMP:

Provision of the Fire Pump shall have to be made to supply water at the rate-designed pressure and discharge into the water based system, which shall be installed in the building. One such pump shall always be kept on Stand by of diesel driven type.

A separate Fire pump shall be installed for the total Sprinkler installation of the building. Provision of Jockey Pump shall also have to be made to keep the water based system under pressurized condition at all the time. All the pumps shall be incorporated with both manual and auto starting facilities. The suction of pumps shall preferably of positive type or in case of negative suction the system shall be wet riser-cum-down comer with suitable terrace pump with overhead tank.

J. ELECTRICAL INSTALLATION & DISTRIBUTION:

1. Electrical distribution system of the building shall be made in the form of concealed wiring or in heavy gauge M.S. conduited continuously bonded to earth cables shall be I.S. marked and preferably be of F.R.L.S. category.

2. Electrical distribution System shall conform all the requirements as laid in I.S. 1646-1982.

3. For every 230V wiring above false ceiling 660 grade insulated cable shall be used Transformer Switch Gear H.T.L.T. and other electrical rooms shall be at the ground floor level, the electric rooms shall be at least 4hrs. Fire resisting capacity adequate ventilation arrangement shall have to be made in all the rooms, Dry and explosion proof type transformer shall be installed.

4. All electrical installation viz. Transformer Switch Gear L.T., HT rooms shall be protected with both auto detection and suppression systems as per suitability.

5. Alternate Power Supply:

Arrangements shall have to be made to supply power with the help of a generator to operate at least the Fire Pump, Pump for deep Tube-well, Fire Alarm System, etc. and also for illuminating the Staircase, corridors etc. and other places of assembly of the building in case of normal power failure.

K. DETECTION AND ALARM SYSTEM:

1. Addressable analogue manually operated Electrical Fire Alarm system with at least two numbers of break glass type call boxes fitted with Hooters along with public address system, at each floor connecting with visual panel board shall be made in Control Room. The Control Room shall be located at the entrance of Ground Floor of the building, other requirements of the system shall be made conforming I.S 2189-1988.

2. Auto fire detection & alarm system with the help of addressable heat and smoke detector as per suitability shall be installed in all places of below and preferably above false ceiling, corridor, common lobby and lift lobby of the building. The system shall also be made in places of rooms where valuable articles have been kept. The other requirements of the system shall be made in accordance with I.S 2189-1988.

3. The suppression system shall be made with Fire Extinguishers particularly in computer and electric processing and data room and in a room of irreplaceable articles.

4. Hooper will be sounded in such a manner so that an operation of a Detector or Manual Call Point Hooters will sounded on the same floor and immediate alternate floor.

5. Public Address System:-

Public address system linked between all floors and control Room shall have to be established.

L. AIR CONDITIONING SYSTEM:

1. The A.H.U shall be separated for each floor with the system Air Ducts for individual floors.

2. Arrangement shall be made for isolation at the strategic location by incorporating auto dampers in the Air Conditioning System.

3. The system of auto shut down of A.H.U. shall be incorporated with the auto detection and alarm system.

4. The air handling units room shall not be used for storage of any combustible materials.

M. FIRST AID FIRE FIGHTING SYSTEM:

First Aid Fire fighting arrangement in the style of placing suitable type of portable Fire Extinguishers, Fire Buckets etc. in all floors and vulnerable locations of the premises shall be made in accordance with I.S. 2190-1992.

N. DOUBLE LAYER AUTOMATED MECHANIZED CAR PARKING SYSTEM:

1. Structural Design - The M.L.C.P shall be constructed structural steel construction.

2. Vertical Deck Separation - For M.L.C.P having M.L.C.P level, vertical Fire separation between the upper & lower decks by using a non perforated and non combustible materials (structural steel plate) shall be provided. This is to minimize direct impingement of flame to the car in the upper deck and also to prevent dripping of any possible leaking oil to the lower deck. Proper drainage system shall have to be provided for accidental leaking of fuel from the car and sand bed shall be provided at the ground level.

3. Fire Hydrant - Fire hydrants are to be provided in accordance with CI 4.4.

4. Natural Ventilation - Each car parking deck shall be provided with at least 50% external ventilation opening of the perimeter wall area and uniformly distribution.

5. Operating System - Both mechanized and manual type operating system shall have to be provided.

O. GENERAL RECOMMENDATIONS:

1. Fire License shall have to be obtained for proposed storing and processing with L.P.G and other highly combustible articles.

2. Disposable type B.A. Musk to be kept always for emergency fire situation.

3. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.

4. Floor numbers and directional sign of escape route shall be displayed prominently.

5. The occupancy and security staff shall be conversant with installed Fire Fighting equipments of the building and to operate in the event of Fire and Testing.

6. Arrangement shall be made for regular checking, testing and proper maintenance of all the Fire Safety installation and equipments installed in the building to keep them in perfectly good working conditions at all times.

7. A crew of trained firemen shall be maintained round the clock for safety of the building.

8. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of the building.

9. Each year a certificate is to be obtained from the Director General, West Bengal Fire & Emergency Services certifying about the satisfactory services, regarding performance of all the Life & Fire Safety arrangements and installation of the building.

On compliance of all the above Fire and Life safety recommendations, the Director General, West Bengal Fire & Emergency Services shall be approached for necessary inspection and testing of the installation, Fire Safety Certificate in favour of the occupancy shall be issued on being satisfied with the tests and performances of safety aspects of installation of the building.

N.B: Any deviation and changes the nature of use of the building in respect of the approved plan drawing, without obtaining prior permission from this office, this Fire Safety Recommendation will be treated as cancelled.

[Signature]
DIRECTOR

FIRE PREVENTION WING
WEST BENGAL FIRE & EMERGENCY SERVICES

SCHEDULE OF DOORS & WINDO

TYPE	SILL	LINTEL	SIZE	TYPE	SILL	LINTEL	
D	-	2100	1800X2100	W1	900	2100	
D1	-	2100	1200X2100	W1a	900	2100	1
D2	-	2100	900X2100	W2	900	2100	900
D3	-	2100	825X2100	WK	1050	2100	900X1050
D4	-	2100	750X2100	WS	900	2100	900X1200
DW	-	2100	1800X2100	V	1200	2100	600X900
FCD	-	2100	1200X2100	FG	275	2100	FIXED GLAS
FCD1	-	2100	900X2100				
FCD2	-	2100	750X2100				

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MM.
2. ALL EXTERNAL WALLS 250TH. & 200TH. & INTERNAL WALLS 125 & 75 THK. UNLESS OTHERWISE MENTIONED.
3. ALL MASONRY WORKS ARE BOUNDED BY CEMENT MORTAR (1:6) & (1:4).
4. EXTERNAL PLASTER IS 25TH. & INTERNAL PLASTER IS 12MM. THK. WITH 1:4 MORTAR.
5. ALL CONC. GRADE IS M200 (1:1.5:3).

CERTIFICATE OF OWNER

1. I ENGAGED ARCHITECT AND E.S.E DURING CONSTRUCTION
2. I FOLLOWED THE INSTRUCTIONS OF ARCHITECT AND E.S.E DURING CONSTRUCTION OF THE BUILDING.
3. K.M.C AUTHORITY WILL NOT BE RESPONSIBLE FOR STRUCTURE STABILITY OF BUILDING AND ADJOINING STRUCTURE.
4. IF ANY SUBMITTED DOCUMENT IS FOUND TO BE FAKE THE K.M.C AUTHORITY MAY REVOKE THE SANCTION PLAN.
5. THE CONSTRUCTION OF WATER RESERVOIR AND SEPTIC TANK EXECUTED UNDER THE GUIDENCE OF ARCHITECT & E.S.E

THE ADJUTING ROAD CONFORM WITH THE PLAN AND IT IS A BUILDABLE SITE AND NOT A TANK OR A FILLED UP TANK.

- ASSESSMENT NO. - 110881800366.
2. DETAIL OF REGISTERED DEED :-
 BOOK NO. - 1, VOLUME NO. - 1901-2015, PAGE FROM - 82785 TO 82783.
 BENG NO. - 190108738, FOR THE YEAR - 2015.
3. DETAIL OF POWER OF ATTORNEY :-
 BOOK NO. - 1, VOLUME NO. - 1903-2015, PAGE FROM - 21287 TO 21316.
 BENG NO. - 190303851, FOR THE YEAR - 2015.
- 4.a) AREA OF PLOT - 1442.77 SQM.
 4.b) G. OF SURVEY - G+XVIII
5. NO. OF TEMENTS - 35 NOS.
- ②
1. GROUND COVERAGE - 329.273 SQM.
 2. PROPOSED F.A.R. - 3.578
 3. TOTAL COVERED AREA - 6110.54 SQM.
 4. G.D. FLOOR SERVICE AREA - 95.04 SQ.M.
 5. TOTAL CAR PARKING AREA - 234.233 SQ.M.
 6. NO. OF CAR PARKING SPACE - 50 NOS.



Rajkumar Agarwal
 Architect
 Member of Council of
 Architecture CA / 94 / 17940

:- AREA STATEMENT :-

AREA OF PLOT = (21 K-09 CH-05 SFT.) (AS PER DEED)	= 1442.77 SQM.
SPLAY CORNER AREA	= 2.88 SQ.M.
AVAILABLE ROAD WIDTH (AVERAGE)	= 45.86 M.
PERMISSIBLE F.A.R. (3.0+0.8) (FOR METRO CORRIDOR)	= 3.6
PERMISSIBLE BUILT UP AREA (1442.77*3.6)	= 5193.972 SQM.
PROPOSED BUILDING HT. (G+XVIII)	= 59.9 M.
PERMISSIBLE GROUND COVERAGE (50%)	= 721.385 SQM.
PROPOSED GROUND COVERAGE (22.822%)	= 329.273 SQM.
PROPOSED GROUND FLOOR AREA	= 329.273 SQM.
PRO. 1ST, 2ND, 3RD, 7TH, 8TH, 9TH, 13TH, 14TH & 15TH FLOOR PLAN BUILT UP AREA	= 320.994 SQM.
PRO. 4TH, 5TH, 6TH, 10TH, 11TH, 12TH, 16TH, 17TH, & 18TH FLOOR PLAN	= 321.369 SQM.
PRO. TOTAL FLOOR AREA {329.273+(320.994*9)+(321.369*9)}	= 6110.54 SQM.
EXEMPTION	
STAIR AREA {(14.875+16.875)*19 FLOORS.}	= 603.25 SQM.
LIFT LOBBY AREA (6.0*19 FLOORS.)	= 114.0 SQM.
CAR PARKING AREA AT GROUND FLOOR	= 234.233 SQM.
PROPOSED TOTAL FLOOR AREA AFTER EXEMPTION {6110.54-(603.25+114.0+234.233)}	= 5159.057 SQM.
PROPOSED F. A. R. (5159.057/1442.77)	= 3.578
CAR PARKING CALCULATION	
NO OF FLR. AREA ABOVE 100 SQM.	= 35 NOS.
TOTAL NO. OF CAR PARKING REQD.	= 35 NOS.
TOTAL NO. OF CAR PARKING PROVIDED { GR. FL. COVERED - 29 NOS.(MULTILEVEL CAR-13*2 LEVEL=26 NOS.) & OPEN-21 NOS}	= 50 NOS.
AREA OF SWIMMING POOL	= 50.75 SQM.
AREA OF TERRACE	= 64.95 SQM.

SIGNATURE OF ARCHITECT

TITLE

GROUND FLOOR PLAN, 1ST TO 17TH FLOOR
 PLAN, 18TH FLOOR PLAN, SITE PLAN,
 LOCATION PLAN, EXISTING STRUCTURE, PART
 PLAN & PART SECTION OF UNDER GROUND
 FIRE PUMP ROOM & DETAILS OF U.G.WATER
 (FIRE & DOMESTIC) RESERVOIR.


PROJECT

PROPOSED G+XVIII (59.9 M. HT.) STORIED
 RESIDENTIAL BUILDING AT PREMISES NO. -
 200A, SHYAMAPROSAD MUKHERJEE ROAD,
 KOLKATA - 700026.
 WARD NO. - 88, BOROUGH - VIII.

DATE	JOB NO.	DEALT	CHECKED	SHEET N
23.08.16	ARCH/2015/568	GARGI	NIRMAL	1 OF 1

SCALE
 1:100, 200, 500,
 600, & 4000

ARCHITECT

 **RAJAGRAWAL & SOCIATES**
 88, ROYD STREET
 TA - 16