



Government of West Bengal
Irrigation & Waterways Directorate
Office of the Superintending Engineer : Metropolitan Drainage Circle
Jalasampad Bhawan (4th.floor) : Bidhannagar : Kolkata – 700091

Phone Nos. – 033 23343916 / 033 23343960
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NOTICE INVITING EXPRESSION OF INTERESTS (Eoi) No.- WBIW/SE/MDC/MDD-I/EOI-02(e)/2017-18.
(For Budgetary quotes)

(2nd. Attempt of (Eoi) No.- WBIW/SE/MDC/MDD-I/EOI-01(e)/2017-18).

Memo. No.- IW/1T-5-MDD-I/1711

Date - 29/08/2017.

Request for expression of interest for “Development of a Comprehensive Fire Detection and Fire Fighting System for entire building of Jalasampad Bhawan comprising three blocks including planning, design, supply, installation, testing, trial commissioning, training, operation and maintenance for extended warranty of five years through a state-of-the-art technique based on Overall Control and Sensor Enabled Fire Safety (OCASEFS) Systems in compliance with the recommendations of West Bengal Fire & Emergency Services (WBFES) applicable for multi-storied buildings in accordance with the provisions of National Building Code of India (Fire and Life Safety) located at DF Block, Sector-I, Bidhannagar, Kolkata-700091 within P.S.- Bidhannagar (North) in District - North 24-Parganas of West Bengal under Irrigation & Waterways Department, Govt. of West Bengal” is being invited by the Superintending Engineer, Metropolitan Drainage Circle, Irrigation & Waterways Directorate on behalf of the Governor of West Bengal from eligible and resourceful agencies having sufficient financial capability and credentials for execution of works of similar nature.

- **Issue of Eoi documents :**

The Eoi documents can be downloaded from the departmental website www.wbiwd.gov.in

- **Submission of Eoi :**

The intending agencies should submit their Eoi with most competitive budgetary quotes as per current market price for the work as cited above in a sealed envelop super scribing on the top “Development of a Comprehensive Fire Detection and Fire Fighting System for entire building of Jalasampad Bhawan” in the tender box to be available at the following offices :

1. Office of the Superintending Engineer, Metropolitan Drainage Circle, Jalasampad Bhawan(2nd.floor), Bidhannagar, Kolkata – 700091.

Or

2. Office of the Executive Engineer, Metropolitan Drainage Division No.-I, Jalasampad Bhawan(4th.floor), Bidhannagar, Kolkata-700091.

- The intending agencies should submit their Eoi in a tabular format duly mentioning Sl. No., Description of each Item/work with detailed specifications including manufacturers names where necessary, their quantities to be involved with most competitive budgetary quotes against unit rate and amount and other terms and conditions deem to be necessary with cumulative total amount. Rate and amount to be quoted should be legible and both in words and figure.

- The quoted rates should be inclusive of GST & all other statutory taxes/duties applicable in the state of West Bengal.
- Intending agencies or their authorized representatives may remain present while opening of the sealed covers containing Eols.
- The Superintending Engineer, Metropolitan Drainage Circle, I.&W.Dte. reserves the right to accept or reject any or all Eols without assigning any reason thereof.
- Selection of appropriate specifications/terms and conditions of the items proposed by the intending agencies is entirely vested upon the Quotation-cum-Bid Evaluation Committee (QBEC) constituted by I.&W.Deptt. for the instant Eol and subsequent e-Request for Proposal (e-RFP).
- Since, the Notice Inviting Expression of Interests (Eols) is being made for subsequent e-RFP, no work order will be issued in favour of any agency against the Eols.
- The intending agencies are to submit their detailed proposal as per the tabular format mentioned earlier at their own costs and arrangements since, it is the process for formulation of e-RFP in subsequent phase. No payment whatsoever would be borne by I.&W.Deptt. for submission of Eols.
- Since, the Notice Inviting Expression of Interests (Eols) is being made to assess the value of the work with requisite specifications of each item, no work order will be issued in favour of any agency against the Eols.
- Pre-Qualification / Credential :

The intending agencies should possess the following and self-attested copies of the same are to be submitted with the Eol:

- i) At least one work any where in any Govt. Sector in India for procurement, supply and installation of similar work.
- ii) Suitable document determining financial strength of the bidder.

- Inspection of Jalasampad Bhawan and its premises before submission of Eols :
Before submitting Eols, the intending agencies should make them acquainted thoroughly with the exact requirement of works and details of inside and outside of 3-blocks of Jalasampad Bhawan and its premises including the existing installations/structures both civil and electro-mechanical segments accompanied with the official/representative of the Executive Engineer, Metropolitan Drainage Division No.-I having its office at the 4th. Floor of Jalasampad Bhawan, Bidhannagar, Kolkata-700091 (Mobile Nos. 9432144091/9830367087) during any working day between 11.30 hours and 17.00 hours prior to the date of submission of proposal.
- Pre Bid Meeting :
A pre bid meeting will be held at the office chamber of the Superintending Engineer, Metropolitan Drainage Circle. Interested agencies may attend the meeting for technical discussions.
- Opening of Eols :
Eols so received in sealed covers will be opened in the chamber of the Superintending Engineer, Metropolitan Drainage Circle in presence of the intending agencies those who will be present at that time.

- Schedule of Dates for Eols :

| Sl.No. | Activity | Date & Time | Remarks |
|--------|---------------------------|---------------------------|---------|
| 1 | Publishing Date | 29.08.2017 at 17.30 hours | |
| 2 | Eol download start date | 29.08.2017 at 17.30 hours | |
| 3 | Pre bid Meeting | 04.09.2017 at 14.30 hours | |
| 4 | Eol submission start date | 04.09.2017 at 17.30 hours | |
| 5 | Eol download end date | 18.09.2017 at 17.30 hours | |
| 6 | Eol submission end date | 18.09.2017 at 17.30 hours | |
| 7 | Eol opening date | 21.09.2017 at 11.00 hours | |

SCOPE OF WORK

The scope of work involves development of integrated fire management and fire safety system for entire Jalasampad Bhavan comprising three blocks viz. Southern Block (5-storied), Western Block (11-storied) and Northern Block (11-storied) including planning, design, supply, installation, testing, trial commissioning, training, operation and maintenance for extended warranty of five years in compliance with the recommendations of West Bengal Fire & Emergency Services (WBFES) applicable for multi-storied buildings in accordance with the provisions of National Building Code of India (Fire and Life Safety).

1. Location of the Buildings :

Plot No.- DF-3 , Sector-I, Bidhannagar, Kolkata -700091, P.S.- Bidhannagar(North), District-North 24-Parganas of the State of West Bengal.

The premises of Jalasampad Bhavan is located with Bikash Bhavan on the western side, Mayukh Bhavan on the eastern side , Bidhannagar(North) Police Station on the northern side and Central Park on the southern side with a Broadway in between.

2. Description of the Buildings :

The buildings comprising three blocks namely, 5-storied Southern Block, 11-storied Western Block and 11-storied Northern Block with Food Courts and Car Parking areas in between.

3. Document & Drawings attached with this notice for Eol to be required by the intending agencies for Eol :

- Fire Safety Recommendations of West Bengal Fire & Emergency Services in three pages.
- Layout Plan of Jalasampad Bhavan
- Typical layout floor plan one each of Southern, Western & Northern Blocks
- Sectional Elevation of 11-storied portion of Jalasampad Bhavan (floor heights of 5-storied Block is same as other blocks).

4. Information to be supplied by the intending agencies:

- For development of integrated fire management and fire safety system for entire Jalasampad Bhavan comprising three blocks viz. Southern Block (5-storied), Western Block (11-storied) and Northern Block (11-storied) including planning, design, supply, installation, testing, trial commissioning, training, operation and maintenance for extended warranty of five years in compliance with the recommendations of West Bengal Fire & Emergency Services (WBFES) applicable for multi-storied buildings in accordance with the provisions of National Building Code of India (Fire and Life Safety), the detailed specification of works, quantity and rates item wise duly mentioning their approved manufacturers names in respect of equipment , machineries and installations and all other ancillaries including all civil and electro-mechanical components to be constructed/erected including terms and

conditions for complete compliance of the recommendations laid down by the West Bengal Fire & Emergency Services (WBFES) duly incorporating modern and updated fire detection and fighting equipment/installations in accordance with the provisions of National Building Code of India (Fire and Life Safety).

- In addition to the information annexed herewith as stated in para-3, to have any further information on the issue, intending agencies are requested to contact the Executive Engineer, Metropolitan Drainage Division No.-I, Jalasampad Bhawan(4th.floor), Bidhannagar, Kolkata-700091 (Mobile No.- 9432144091/9830367087) or S.D.O., Metropolitan Hd.Qrtrs. Sub-Division, Jalasampad Bhawan(5th.floor),Bidhannagar,Kolkata-700091 (Mobile No.- 9831185562) during office hours prior to the last date of submission of EoI for inspection and detail understanding the requirement of works including existing serviceable components/structures lying within the premises.
- The EoI inviting authority does not bind himself for issuance of any work order without assigning any reason thereof.
- The Quotation-cum-Bid Evaluation Committee (QBEC) constituted for the EoI and subsequent e-Request for Proposal (e-RFP) reserves the right to select the specifications, terms and conditions and other proposals of the participating agencies.

Sd/-
Superintending Engineer
Metropolitan Drainage Circle

GOVERNMENT OF WEST BENGAL
OFFICE OF THE DIRECTOR GENERAL
WEST BENGAL FIRE & EMERGENCY SERVICES
13-D, Mirza Galib Street, Kolkata – 700 016.

RECEIVED 1261
M-5-6-13
Executive Engineer,
M D D. No. I,
& W Die

Memo. No. : WBFES/ 1983/13 /Cal-B/76/95 (76/95) Date : ... 5.6/13

From : The Director (Fire Prevention)
West Bengal Fire & Emergency Services.

To : The Executive Engineer,
Metropolitan Drainage Division-I
Administrative Building (4th Floor)
Irrigation & Waterways Directorate (Jalasampad Bhawan),
Salt Lake City
Kolkata-700 091.

Sub : Fire Safety Recommendation for existing construction of Comprising 3 Nos. Block outer Block G+IV, western block-G+X & Northern Block-G+X storied under group Business Building at premises No.- DF-Block, Sector-1, Bidhanagar, Salt Lake City, Kolkata-700 091.

This is in reference to your letter No. 3F-3/408 dated 11.03.2013 regarding Fire Safety measure for existing Construction of Comprising 3 Nos. Block outer Block G+IV, western block-G+X & Northern Block-G+X storied under group Business Building at premises No.- DF-Block, Sector-1, Bidhanagar, Salt Lake City, Kolkata-700 091.

This office was issued **Fire Safety Recommendation** in favour of the aforesaid building subject to the compliance of the following fire safety measure. The fire safety recommendation which was issued earlier vide this office Memo No-WBFES/5909/Cal-B/76/95 dt.-24-11-1995 will remain same & strictly to be followed.

Encl. :

1. One set of plan.

[Handwritten Signature]
4/6/13

DIRECTOR

FIRE PREVENTION

WEST BENGAL FIRE & EMERGENCY SERVICES



From : The Director, West Bengal Fire Services.

To : The Executive Engineer,
Metropolitan Drainage Division No.1
Administrative Building (4th floor)
Salt Lake City,
Calcutta-700091.

Sub : Fire safety recommendation for Administrative building complex of Irrigation and Waterways Directorate at Salt Lake.

Ref : Your memo no. MS-121/461 dt.11.7.95.

Sir,

With reference to your letter stated above, this is to inform you that after careful inspection of the complex in question by the officer of this department it was found that the fire protection arrangement and means of escape etc. of your said building is not at all safe from fire and life safety point of view.

As such, you are requested to comply with the following recommendations to achieve adequate fire and life safety of the occupants as well as the building.

Recommendations:

1. Water source for fire fighting :- The administrative building complex shall have a provision of 2,25,000 litres. of water exclusively for fire fighting purpose with the provision of manholes on top of the reservoir. The upper portion of the reservoir shall not be more than 30 c.m. above ground level. Suitable arrangement shall have to be made to replenish the stock of water. The reservoir shall be accessible to Fire Brigade vehicles and pump;

2. Wet Riser system:- Provision of wet risers shall have to be made in all blocks of the building. In the Southern block (as there is none) in 100 mm internal diameter pipe line, in the Western block there exist 150 mm internal diameter pipe line, in the converted northern block the existing riser shall be into 150 mm internal diameter pipe line and the rate of each riser shall be such that are such riser for every 1000 m² floor area per floor of each block of the building with the provision of landing valves at the landing or half landing of staircase enclosure of each floor of the building. It shall be fitted with Hose boxes containing 2 lengths of Delivery Hose (15.m.m. total) and one G.M. Branch pipe at the landing or half landing of staircase enclosure of each floor. The system shall be so designed that this will always be capable to deliver atleast 2400 litres/min through ground hydrant and atleast 900 litres/min through top most landing valve of the building;

Other requirements of the system shall be made in accordance with IS.3844-1989;

3. Hose reel system :- Provision of hose reel shall have to be made in all the floors of blocks of the building in conjunction with wet riser system satisfying of the norms of I.S.3844-1989;

4. Yard hydrant:- Atleast 5 yard hydrants surrounding the building shall be made conforming the norms of I.S.specification;

5. Fire Pump:- (a) Provision of fire pump shall have to be made in the fire pump house of the building to supply water at the rate of designed pressure and discharge into wet riser, hose reel, yard hydrant etc. which will be installed in the building. One such pump shall preferably be kept on standby which shall be diesel driven type;

(b) Provision of Jockey pump shall also have to be made in the building to keep the system under pressurised;

6. Electrical installation and Distribution:-

(a) The Transformers room, switchgear room etc. and also Generator room shall be adequately protected with CO₂, D.E.P. extinguishers confirming I.S. 2190-1992;

(b) Electrical distribution system throughout all blocks of the building shall always be made satisfying good code of practice for fire safety in the building as laid down in the I.S. 1646-1982;

7. Alternate power supply :- Arrangement shall have to be made to supply power with the help of existing Generator to operate at least fire pump, fire alarm system, fire lift etc. and also for lighting the staircase corridor etc. of the building in the time of normal power failure;

8. First-aid fire fighting system:- The first aid fire fighting arrangement in the style of placing suitable type of existing extinguishers, fire buckets etc. shall have to be made in all floors of the building conforming I.S.2190-1992;

9. Fire alarm system:-

a) Manually operated electrical fire alarm system with at least five break glass type call boxes at each floor at a height of one meter from the floor level shall have to be installed in the building. Other requirements of the system shall be made satisfying I.S.2189-1988;

(b) Automatic fire alarm system with the help of smoke detectors (optical/ionisation alternatively) shall be installed in the computer room, electronic data processing room etc.

10. Control room :- There shall be centralised control room in the entrance floor of the building fitted with audio-visual panel board connecting all call boxes of fire alarm system, fire detectors of automatic fire alarm system, siren, communication system etc. install in the building. The room shall be manned round the clock by trained staff in this regard.

11. Means of escape from the building:- (a) At least one more staircase in each block particularly at Northern block and Western block (exist only 1 staircase in each block) of the building shall be installed which will negotiate through all floors from ground level to terrace level;

(b) The staircase shall be free from obstruction and shall be sufficiently ventilated at floor level as well as roof level. It shall have illuminated directional signs at common corridor staircase etc. to guide the occupants for easy evacuation from the building;

12. Fire lift:-

(a) At least one lift out of proposed lifts of each block of the building shall be so designed so as to be available as fire lift. It shall operate with the existing generator in time of normal power failure and at the time of fire or emergency. The particular lift shall have floor area and loading capacity not less than 1.4 m² and 545 kg. respectively with automatic closing door;

(b) The word 'Fire lift' shall be conspicuously displayed in the lift landing door at floor with fluorescent paint. Other requirements of system shall be made fulfilling the norms of I.S. specification;

13. Fire Notice/order :- Fire notice/order shall be prepared to fulfil the requirements of fire fighting and evacuation from the building in the event of fire and other emergencies. Such notices shall be displayed prominently with broad and bright lettering in all floors of the building.

14. House keeping:- To eliminate fire hazards goods house keeping both inside and outside the building shall be strictly maintained;

15. General recommendation :-

(a) No flammable or highly combustible materials shall be allowed to be stored or processed in any portion of the building;

(b) Interior finish decoration of the entire building shall be made with low flame spread materials conforming I.S. specification;

(d) The safety and security staff shall be trained for handling and operating installed fire fighting equipments in the event of fire and other emergencies. They shall be available at all time in the building;

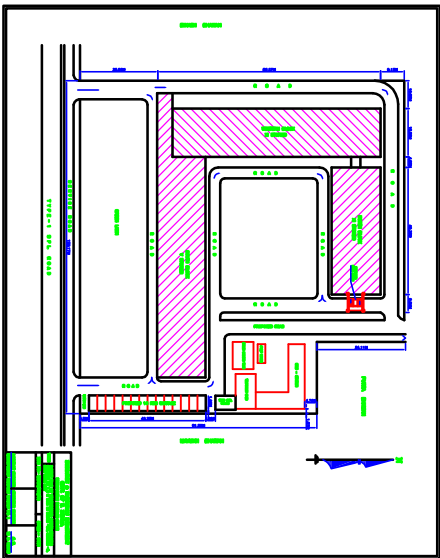
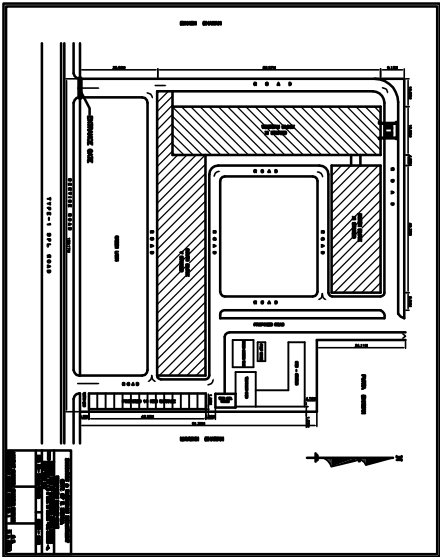
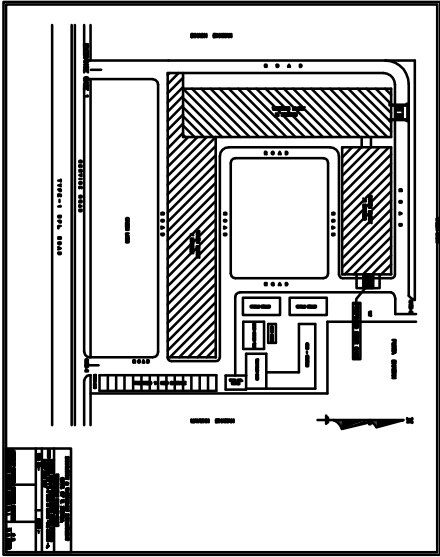
(e) The authority shall also keep a record of periodical testing and maintenance of installed fire fighting equipments of the build:

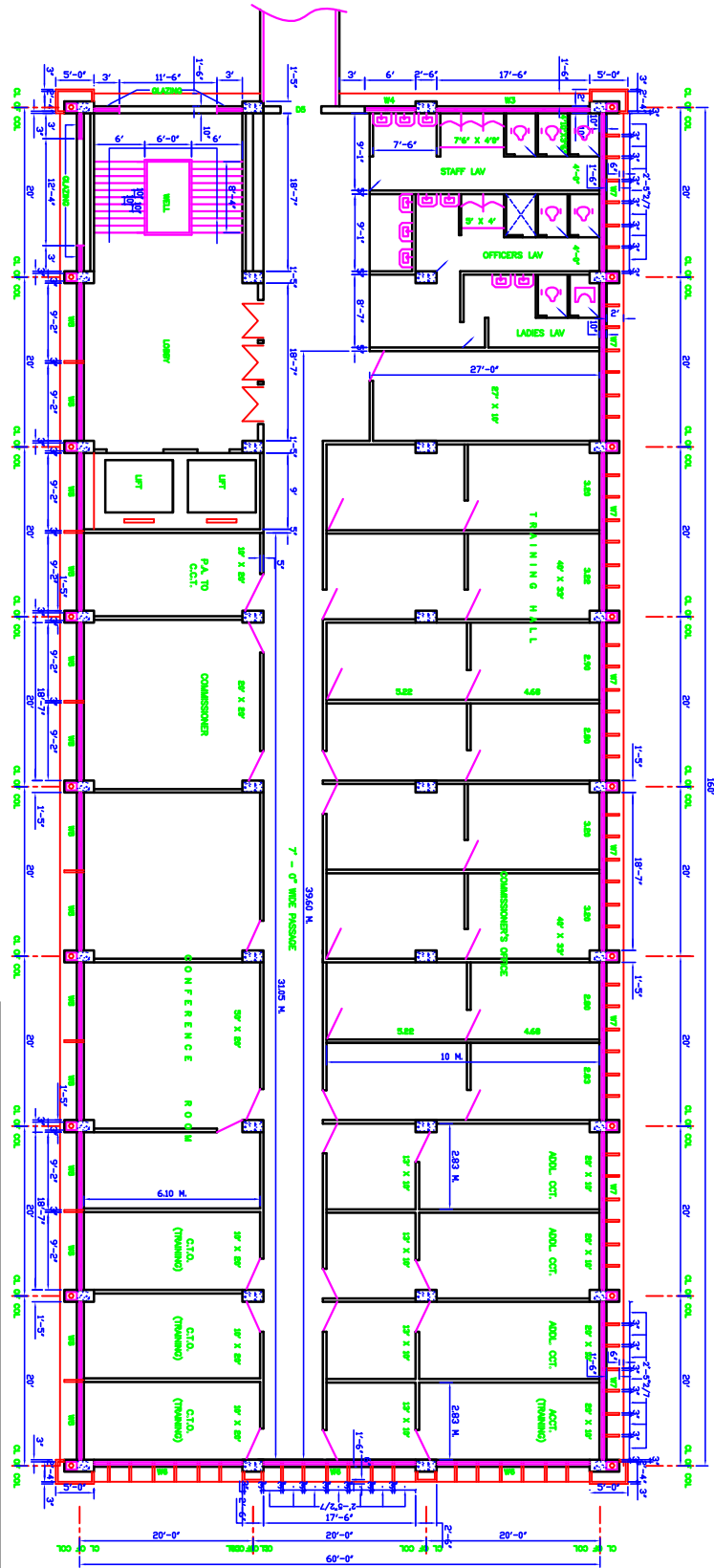
(f) Each year, a certificate is to be obtained from the Director, West Bengal Fire Services certifying about the satisfactory performance of all the fire fighting installations, means of escape etc. installed in the building.

Finally, a compliance with all the aforesaid fire fighting installation, it is requested to approach to the Director, West Bengal Fire Services for necessary inspection and testing of them to obtain clearance certificate in this regard for safe use of the building from fire and life safety point of view.

Yours faithfully,

[Signature]
Director, 23/11/95
West Bengal Fire Services.





**PARTITION DRAWING SHOWING IN
SECOND FLOOR PLAN (NORTH BLOCK)**

SCALE :- 8'-0" = 1"

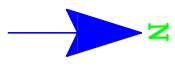
**GOVT. OF WEST BENGAL
IRRIGATION & WATERWAYS DIRECTORATE
METROPOLITAN DRAINAGE CIRCLE**

PARTITION DRAWING FOR COMMERCIAL TAX DEPT. AT THE NORTH BLOCK OF
ADMINISTRATIVE BUILDING OF I. & W. DTE. IN BLOCK - 'D', SECTOR-1, SALT
LAKE CITY.

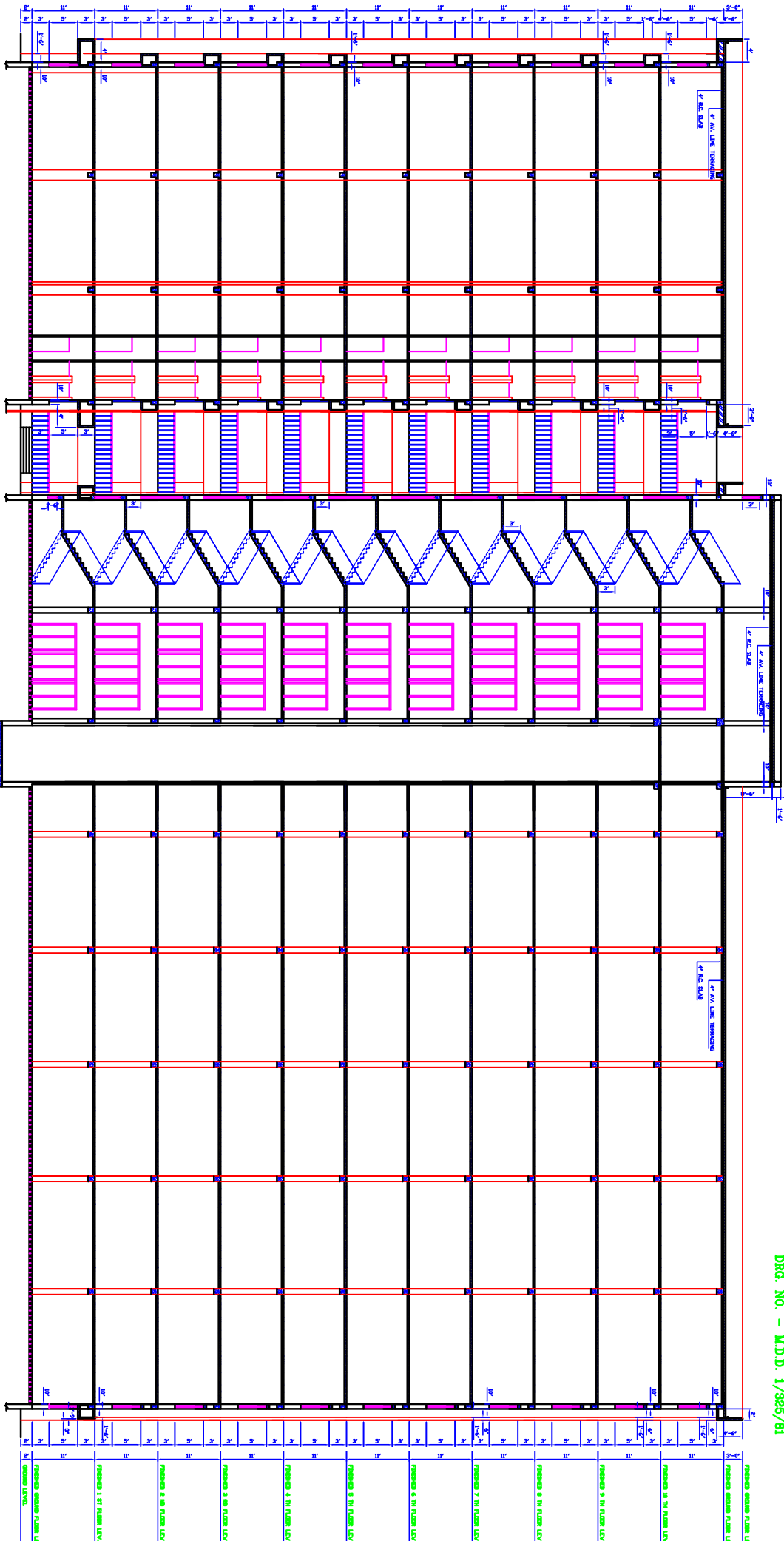
DRG. NO.-TRACED FROM DRG. NO. M.D.D. -1/489/88 SCALE - 1" = 8'-0"

| | | |
|-------------------------------------|-------------------------------------|--|
| ASSISTANT ENGINEERS M.D.D. NO.-1 | EXECUTIVE ENGINEERS M.D.D. NO.-1 | SUPERINTENDING ENGINEERS M. D. CIRCLE |
|-------------------------------------|-------------------------------------|--|

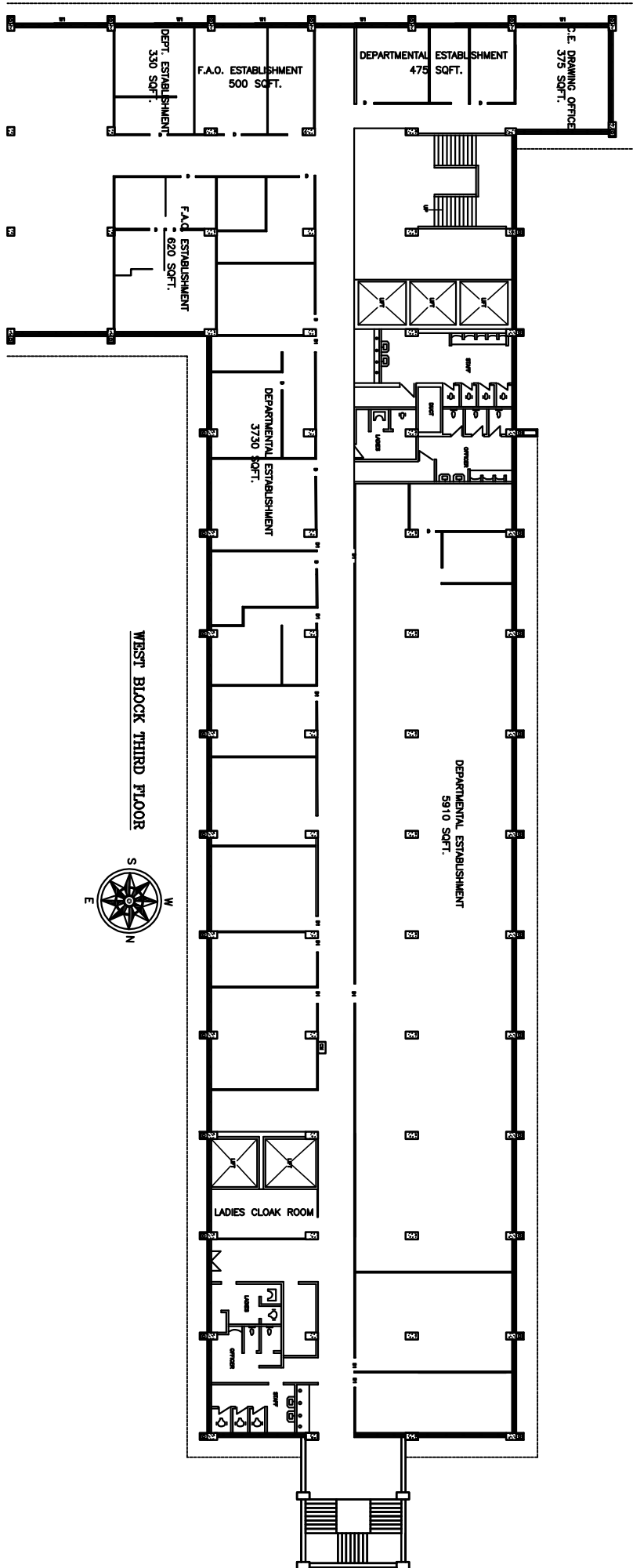
- REFERENCE :-**
1. TYPE 'A' PARTITION WALL SHOWN THUS -
 2. TYPE 'B' PARTITION WALL SHOWN THUS -
 3. DOORS - 0.93 M X 2.10 M.



SHEET NO. - 2/2
SIL. - 5/7/18
DRG. NO. - M.D.D. 1/325/81



TYPICAL SECTIONAL ELEVATION
SCALE : 1" = 8'-0"



4th FLOOR



STATEMENT SHOWING FLOOR SPACE ACCOMMODATION OF DIFFERENT OFFICES IN SOUTH BLOCK OF ADMINISTRATIVE BUILDING COMPLEX AT BLOCK IV, SECTOR-1, BUDHAN NAGAR

| ALLIANCE TO OFFICES | SCALE | LANDING & PASSAGES IN THE OFF. | TOTAL AREA IN SQ. FT. | TOTAL AREA IN SQUARE METERS |
|---|--------------|--------------------------------|-----------------------|-----------------------------|
| STATEMENT | 1/8" = 1'-0" | 15844 | 15844 | 1588.04 |
| CONSTITUTION OF 1949 | 1/8" = 1'-0" | 15844 | 15844 | 87.28 |
| CONSTITUTION OF 1950 | 1/8" = 1'-0" | 5000 | 5000 | 504.74 |
| GOVERNMENT OF W. BENGAL, GOVT. OF WEST BENGAL | 1/8" = 1'-0" | 15844 | 15844 | 1588.04 |

GROUND FLOOR OF SOUTH BLOCK ADMINISTRATIVE BUILDING COMPLEX
 DRG. NO. - H. D. D. NO.-1/387/R(PART), SCALE - 8'-0" = 1"

| | |
|---|--|
| <p style="text-align: center;">REGULATION & WATERWAYS DEPARTMENT GOVT. OF WEST BENGAL METROPOLITAN MANAGER OFFICE</p> <p>SCALE: 1" = 8' 3"</p> <p>DRG. NO. - H.D.D. NO.-1/387/R(PART)</p> | <p style="text-align: center;">OFFICE OF THE CHIEF GOVT. ARCHITECT, WEST BENGAL ENGINEER-IN-CHARGE GOVT. ENGINEERING COLLEGE SCALE: 1" = 8' 3"</p> <p>DRG. NO. - H.D.D. NO.-1/387/R(PART)</p> |
|---|--|