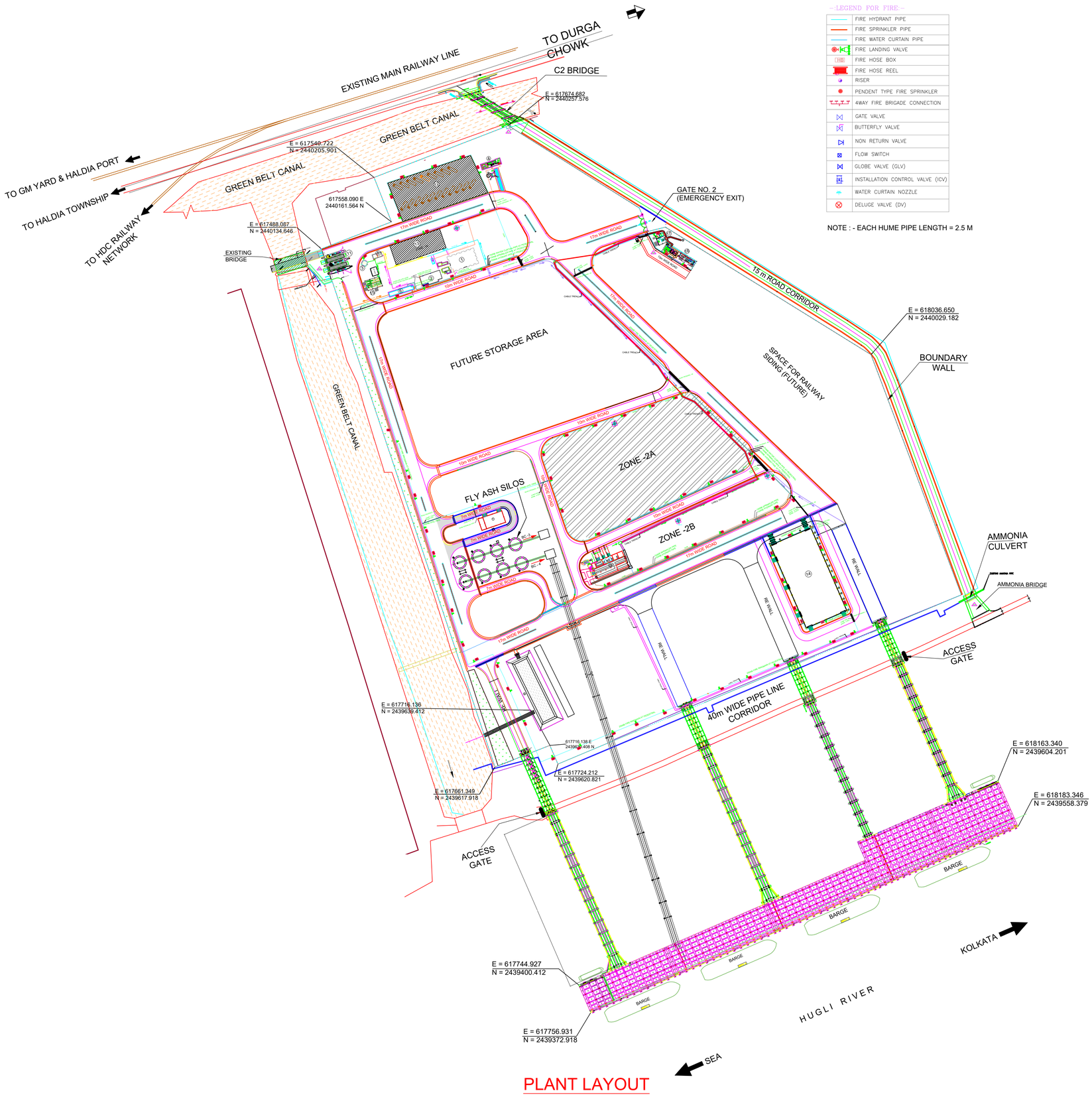


PLANT LAYOUT

--:LEGEND FOR FIRE:--

	FIRE HYDRANT PIPE
	FIRE SPRINKLER PIPE
	FIRE WATER CURTAIN PIPE
	FIRE LANDING VALVE
HB	FIRE HOSE BOX
	FIRE HOSE REEL
	RISER
	PENDENT TYPE FIRE SPRINKLER
	4WAY FIRE BRIGADE CONNECTION
	GATE VALVE
	BUTTERFLY VALVE
	NON RETURN VALVE
	FLOW SWITCH
	GLOBE VALVE (GLV)
	INSTALLATION CONTROL VALVE (ICV)
	WATER CURTAIN NOZZLE
	DELUGE VALVE (DV)

NOTE : - EACH HUME PIPE LENGTH = 2.5 M

CHART OF DIFFERENT UNITES

S. No.	DESCRIPTION	a	b	c	d	AREA
1.	TERMINAL ADMINISTRATION BUILDING	E = 617618.747 N = 2440132.826	E = 617637.066 N = 2440138.901	E = 617626.300 N = 2440110.046	E = 617644.619 N = 2440116.120	485.10 M2
2.	WORKERS AMENITY BUILDING	E= 617586.771 N = 2440106.421	E = 617605.755 N = 2440112.715	E = 617589.132 N = 2440099.302	E = 617608.115 N = 2440105.596	162.40 M2
3.	SECURITY ROOM	E 617530.113 N 2440123.507	E 617534.344 N 2440121.460	E 617528.045 N 2440119.231	E 617532.276 N 2440117.184	25.00 M2
4.	SEWAGE TREATMENT PLANT	E = 617643.113 N = 2440222.427	E = 617645.371 N = 2440215.276	E = 617650.265 N = 2440224.686	E = 617652.523 N = 2440217.533	56.24 M2
5.	OVERHEAD WATER TANK	E = 617538.912 N = 2440128.568	E = 617540.263 N = 2440124.591	E = 617547.623 N = 2440131.528	E = 617548.974 N = 2440127.551	38.64 M2
6.	UNDER GROUND WATER RESERVOIR	E = 617555.509 N = 2440090.895	E = 617556.653 N = 2440087.272	E = 617579.129 N = 2440098.353	E = 617580.273 N = 2440094.730	134.51 M2
7.	COMPRESSOR BUILDING	E = 617644.481 N = 2439865.233	E = 617648.363 N = 2439853.878	E = 617668.138 N = 2439873.319	E = 617672.019 N = 2439861.964	300.00 M2
8.	WASTE COLLECTION CENTRE	E =617662.604 N = 2440211.083	E = 617663.395 N = 2440208.580	E = 617665.108 N = 2440211.873	E = 617665.898 N = 2440209.370	9.00 M2
9.	SETTLING TANK	E =617672.295 N = 2439723.036	E =617695.755 N =2439734.587	E =617706.373 N = 2439653.820	E =617729.833 N = 2439665.371	2017.47 M2
10.	SUB-STATION -1	E = 617787.269 N = 2439834.552	E = 617794.072 N = 2439819.520	E = 617757.204 N = 2439820.947	E = 617764.007 N = 2439805.915	544.50 M2
11.	GATE HOUSE COMPLEX	E = 617506.658 N = 2440131.897	E = 617512.154 N = 2440114.759	E = 617497.136 N = 2440128.843	E = 617502.632 N = 2440111.705	
12.	LARGE VEHICLE PARKING AREA	E =617554.393 N = 2440200.169	E = 617569.481 N = 2440162.086	E = 617636.979 N = 2440227.775	E = 617654.264 N = 2440190.739	3601.47 M2
13.	SMALL VEHICLE PARKING AREA	E =617556.411 N = 2440137.735	E =617606.214 N = 2440154.660	E =617562.846 N = 2440118.799	E =617612.649 N = 2440135.724	1052.00 M2
14.	COVERED STORAGE SHED	E =617976.554 N = 2439856.476	E = 617936.206 N = 2439838.927	E = 617972.102 2 N = 2439756.395	E = 618012.451 N = 2439773.945	3960.00 M2
15.	SUB-STATION -2	E = 617531.691 N = 2440102.586	E = 617545.929 N = 2440107.307	E = 617534.838 N = 2440093.094	E = 617549.076 N = 2440097.816	156.55 M2
16.	E-HOUSE	E = 617827.758 N = 2440132.322	E = 617833.130 N = 2440140.756	E = 617862.439 N = 2440122.087	E = 617857.067 N = 2440113.653	347.5 M2
17.	ELECTRICAL METERING ROOM	E = 617821.307 N = 2440147.666	E = 617828.466 N = 2440150.633	E = 617832.351 N = 2440141.255	E = 617825.192 N = 2440138.289	83.2 M2

LEGEND:

SL. No.	DESCRIPTION	AREA
1.	ZONE -2A	SPACE FOR OIL DRUMS AREA (19001 m2)
2.	ZONE -2B	AGGREGATE STAGE YARD (6703 m2)
3.	FLY ASH SILOS (8 Nos)	1200 T CAPACITY/ EACH

TERMINAL BOUNDARY LIMIT

NOTES :-

1. ALL DIMENSIONS ARE IN METER
2. ALL LEVELS ARE IN METERS & ARE WITH RESPECT TO CHART DATUM.

CLIENT: INLAND WATERWAYS AUTHORITY OF INDIA

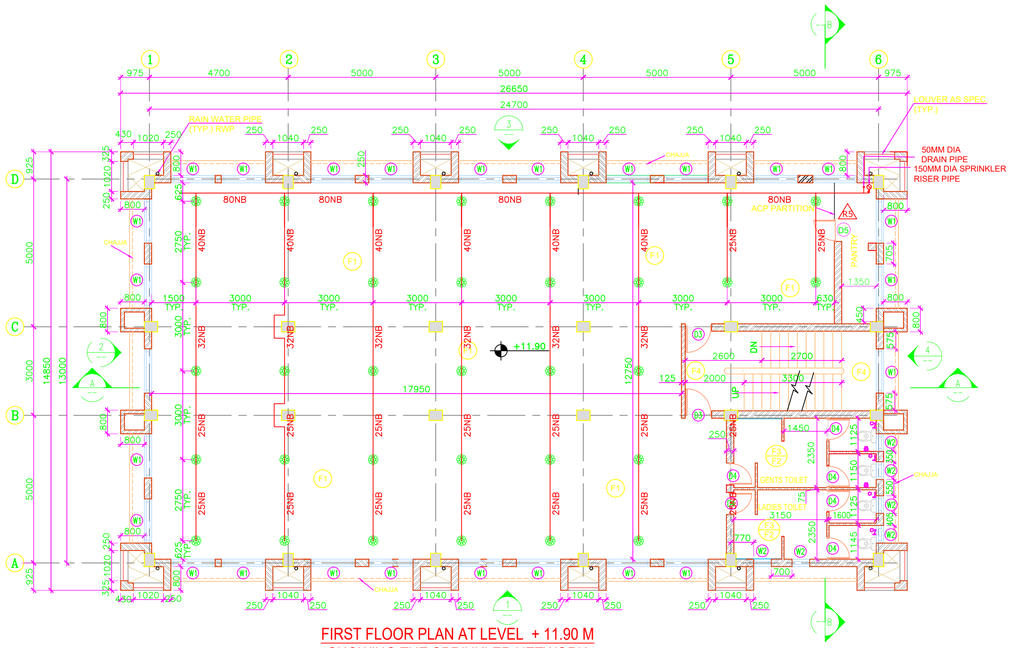
EMPLOYER'S ENGINEER: ARKITECHNO CONSULTANTS (INDIA) PVT. LTD. In Joint Venture with IRCLASS SYSTEMS AND SOLUTIONS PRIVATE LIMITED — TSSC-2

CONTRACTOR:

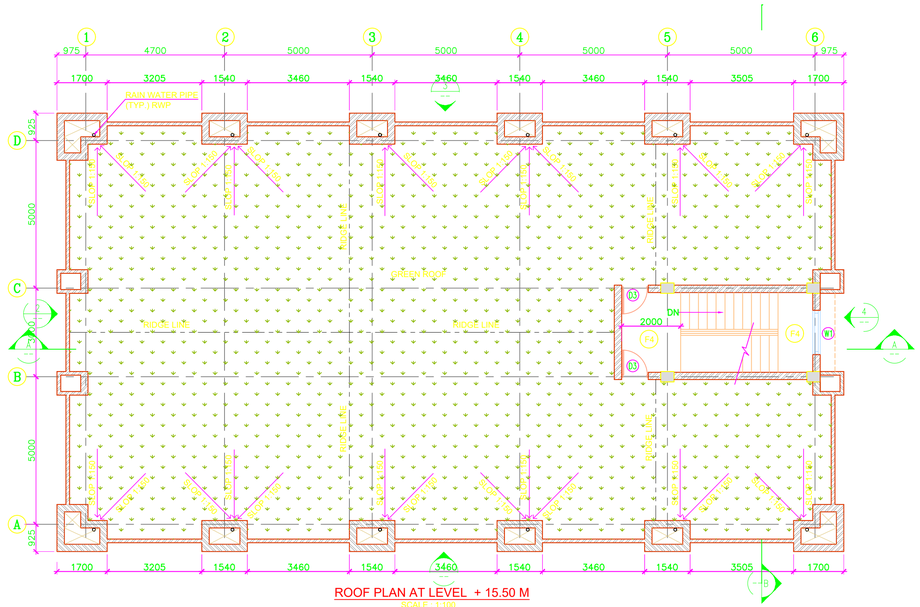
PROJECT: MULTI-MODAL IWT TERMINAL AT HALDIA, WEST BENGAL

TITLE: PLANT LAYOUT

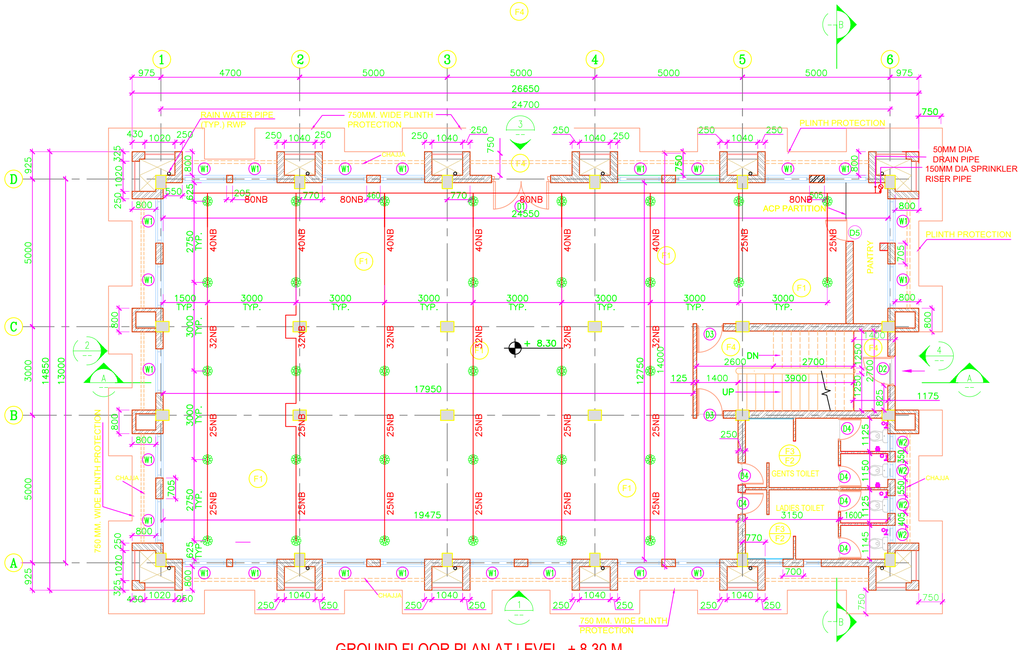
DESIGNED & DRAWN BY			
CHECKED BY			ALL DIMENSION ARE IN MM
PROOF CONSULTANT			SCALE: AS SHOWN
REVIEWED & VERIFIED BY	TSSC-2		DATE
APPROVED BY	IWAI		REV. / SIZE
DRG NO. LAY-001			R / 0 / A1



FIRST FLOOR PLAN AT LEVEL + 11.90 M
SHOWING THE SPRINKLER NETWORK SYSTEM



ROOF PLAN AT LEVEL + 15.50 M
SCALE : 1:100



GROUND FLOOR PLAN AT LEVEL + 8.30 M
SHOWING THE SPRINKLER NETWORK SYSTEM
SCALE : 1:100

DOOR & WINDOW SCHEDULE

DOOR MKD.	OPENING SIZE WIDTH	HEIGHT	SILL LEVEL	LINTEL LEVEL	REMARKS
DOOR					
D1	900	2100		2100	SOLID SHUTTER WITH GLASS
D2	1000	2100		2100	SINGLE SHUTTER ALUMINIUM DOOR (HALF GLAZED)
D3	900	2100		2100	SINGLE SHUTTER ALUMINIUM DOOR (HALF GLAZED)
D4	750	2100		2100	SINGLE SHUTTER UPVC DOOR
D5	900	2100		2100	SINGLE SHUTTER ALUMINIUM DOOR (HALF GLAZED)
WINDOW					
W1	900	1200	900	2100	SOLID-BLOC ALUMINIUM GLAZING WINDOW WITH GRILL
W2	600	600	1500	2100	FIXED-BLOC ALUMINIUM GLAZING WINDOW

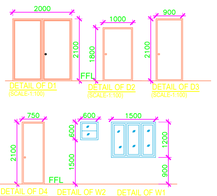
AREA STATEMENT :-

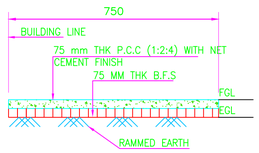
GENERAL ARRANGEMENT OF ADMINISTRATION BUILDING

1. GROUND FLOOR AREA = 331.91 SQ.M.
2. FIRST FLOOR AREA = 331.91 SQ. M.
3. MEZZANITY AREA = 22.45 SQ. M.

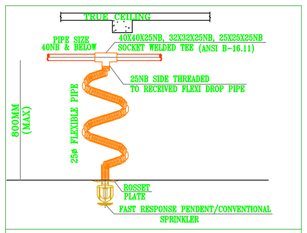
LEGEND - FLOORING

F1	10 MM. THK. VITRIFIED FLOOR TILES OF SOMANY CERAMICS Ltd.
F2	10 MM. THK. ANTI-SKID VITRIFIED FLOOR TILES OF SOMANY CERAMICS Ltd.
F3	10 MM. THK. CERAMIC WALL TILES OF KAJARIA CERAMICS Ltd.
F4	15 MM. THK. KOTA STONE





TYPICAL DETAIL OF PLINTH PROTECTION
(SCALE – 1:25)



DETAILS OF SPRINKLER BRANCH LINE AND SPRINKLER MOUNTING, WHEN DEPTH IS UPTO 800mm.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.
2. ALL LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
3. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED. THE DRAWING SHALL NOT BE SCALED.
4. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL AND SERVICES DRAWINGS & DISCREPANCIES/AMBIGUITIES IF ANY SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE COMMENCEMENT OF THE WORK AT SITE.
5. ALL LEVELS & DIMENSIONS STATED SHALL BE VERIFIED AT SITE & DISCREPANCIES/AMBIGUITIES IF ANY SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE COMMENCEMENT OF THE WORK AT SITE.
6. ALL EXTERNAL WALLS ARE 250mm THICK AND INTERNAL WALLS ARE 125MM THICK WITH 1:4 CEMENT - SAND MORTAR UNLESS STATED OTHERWISE. FLY-ASH BRICK SHALL BE USED AS PER GRIHA REQUIREMENT.
7. ANTI TERMITE TREATMENT TO BOTTOM SURFACE OF FOUNDATION,BACK FILLING AND PLINTH FILLING SHALL BE CARRIED OUT AS PER [IS-6313 (PART II) 1981]
8. 25mm thk DAMP PROOF COARSE TO BE APPLIED UNDER ALL BRICK WORKS AT GROUND FLOOR AS PER SPEC.
9. ALL ROOFS SHALL BE TREATED WITH SIKA LATEX OR EQUIVALENT AND COVERED WITH 50 MM. THK. SCREED CONCRETE WITH PROPER SLOPE TO THE RAIN WATER DOWN PIPE.
10. THICKNESS OF PLASTER :
    (i) FOR EXTERNAL SURFACE : 20 MM. THK. BY 2 LAYERS WITH 1:4 & 1:2 CEMENT - SAND MORTAR.
    (ii) FOR INTERNAL SURFACE : 12 MM. THK. WITH 1:6 CEMENT - SAND MORTAR.
    (iii) FOR CEILING : 6 MM. THK. WITH 1:4 CEMENT - SAND MORTAR.
11. THICKNESS OF GREEN ROOF: 150 MM.
12. ALL INSIDE BUILDING SURFACES SHALL HAVE 2 COATS OF NON-VOC EMULSION PAINT AND ALL EXTERNAL SURFACES SHALL HAVE 2 COATS OF WATER BOUND WASHABLE EXTERIOR GRADE PAINT OF APPROVED BRAND & QUALITY.

CLIENT
INLAND WATERWAYS AUTHORITY OF INDIA

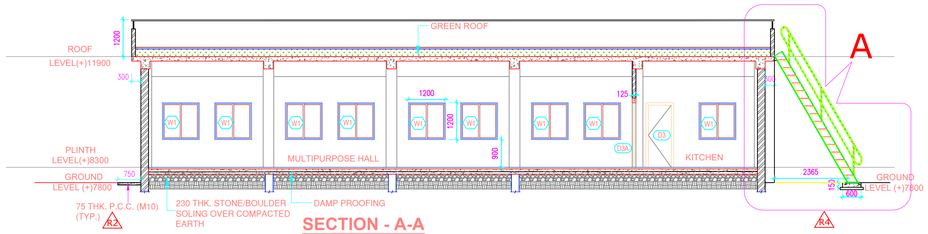
EMPLOYER'S ENGINEER
ARKITECHNO™ CONSULTANTS (INDIA) PVT. LTD. In Joint Venture with IRCLASS SYSTEMS AND SOLUTIONS PRIVATE LIMITED
TSSC-2

CONTRACTOR

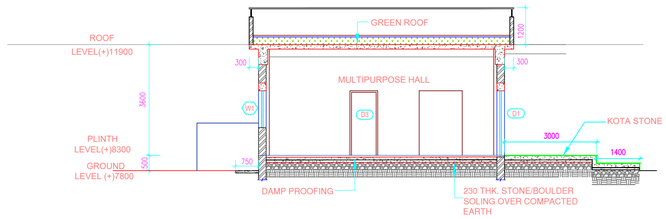
PROJECT
MULTI-MODAL IWT TERMINAL AT HALDIA, WEST BENGAL

TITLE
ADMINISTRATION BUILDING
GENERAL ARRANGEMENT OF ADMINISTRATION BUILDING

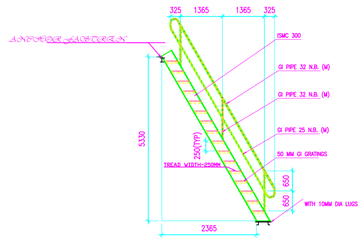
DESIGNED & DRAWN BY			
CHECKED BY			ALL DIMENSION ARE IN
PROOF CONSULTANT			SCALE AS SHOWN
REVIEWED & VERIFIED BY	TSSC-2		DATE
APPROVED BY	IWAI		REV. / SIZE
DRG NO.	ADMIN/ CS-01 (SHT-1 OF 2)		R / 0 / A1



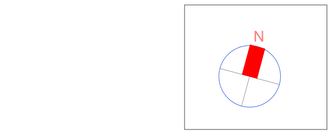
SECTION - A-A

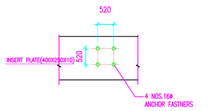


SECTION - C-C

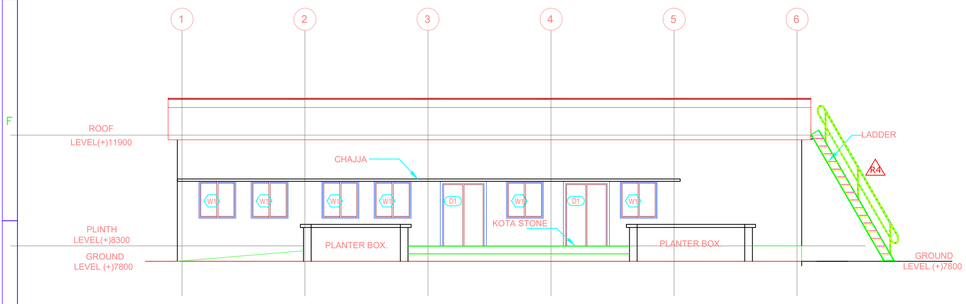


DETAIL A



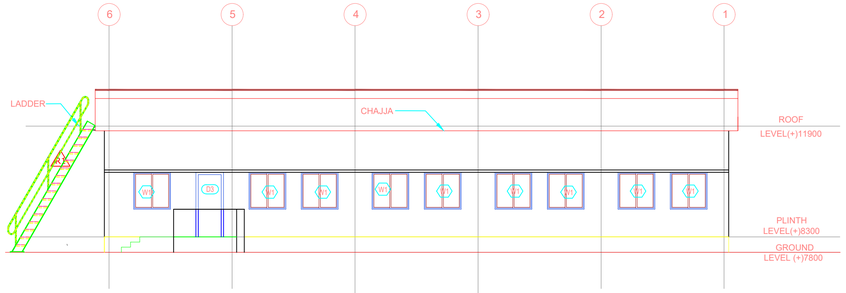


DETAIL FOR FIXING OF ANCHOR FASTNERS

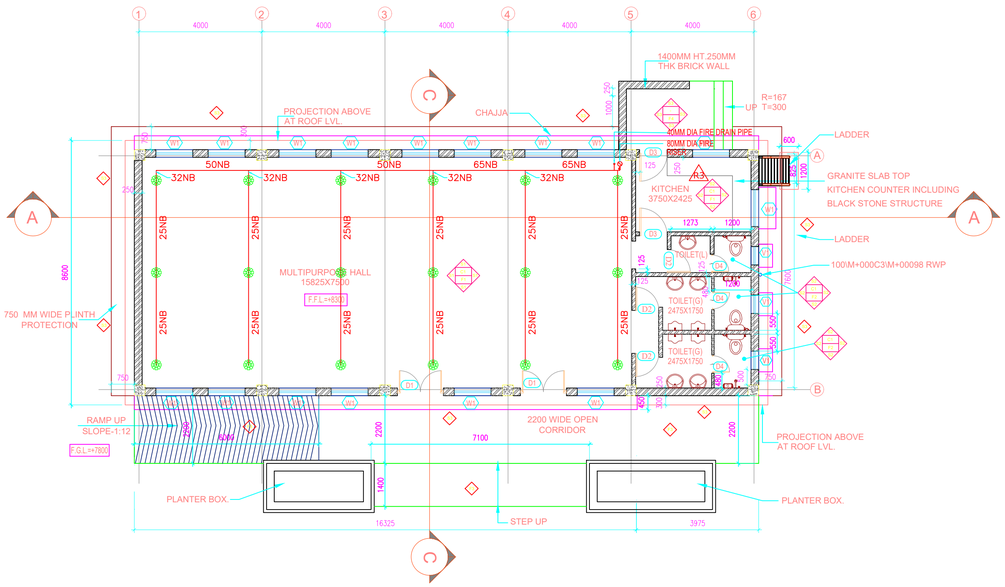


FRONT (SOUTH) SIDE ELEVATION

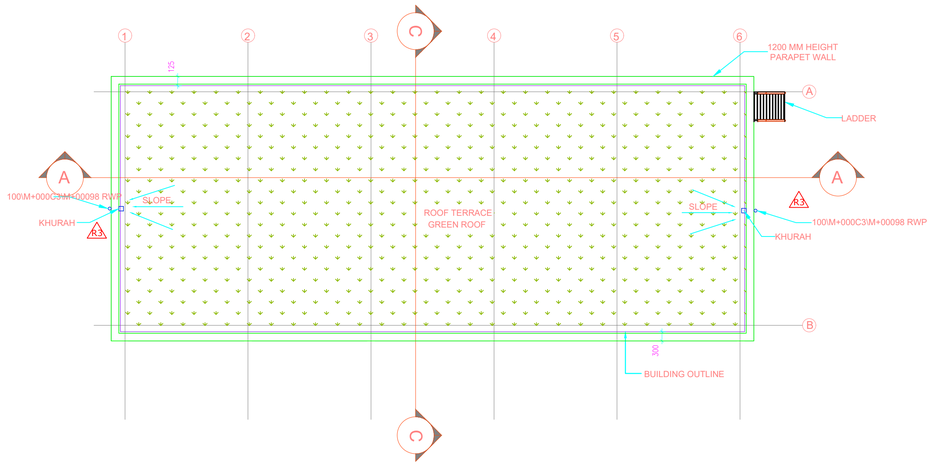
LEFT (WEST) SIDE ELEVATION



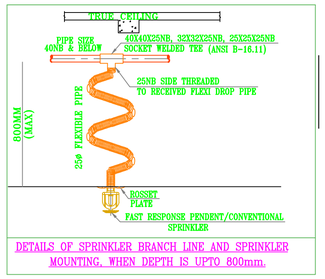
REAR (NORTH) SIDE ELEVATION



GROUND FLOOR PLAN



ROOF PLAN



DETAILS OF SPRINKLER BRANCH LINE AND SPRINKLER MOUNTING, WHEN DEPTH IS UPTO 800mm.

NOTES:

1. All dimensions are in MM.
2. Only written dimensions are to be followed. No dimension should be scaled.
3. This drawing is to be read in conjunction with other Architectural, Structural & Service drawings.
4. Any discrepancy at site should be brought to the notice of this office before execution.
5. Other detail ref. dwg. no.- ITD-CEM/STUP/42016DM/E/AD/AMENITY/A-02 TO 05

FINISHING SCHEDULE :-

S1	All inside wall finished with 2 coats of non-voc enamel paint including 2 coats of putty and one coat primer
S2	Dado with first class quality 6 mm thk ceramic tile upto 2100mm, with 15 mm. thick cement-sand (1:2) mortar
S3	All exterior surfaces finished with 2 coats of water bound washable exterior grade paint including 1 coat of primer
F1	Flooring with 9mm thick Vitrified Tile (800 X 800) of Somany brand
F2	Flooring with 9mm thick Anti-Skid Vitrified Tile of Somany brand
F3	Flooring with15 mm thick Kota Stone
C1	All ceiling finished with 2 coats of non-voc enamel paint including 2 coats of putty and one coat primer.

WINDOW SCHEDULE

ID	SILL	LINTEL	WIDTH	NO.	
W1	900	2100	1200	16	Double Shutter Side Hung Aluminium Glazing window with Grill
V1	1500	2100	600	3	Single Shutter Top Hung Aluminium Glazing window

DOOR SCHEDULE

ID	SILL	LINTEL	WIDTH	NO.	
D1	-	2100	1500	2	Double Shutter Steel Door
D2	-	2100	750	3	Single Shutter UPVC Door
D3	-	2100	900	2	External: Single Shutter Steel Door Internal: Single Shutter Half Glazed Aluminium Door
D4	-	2100	600	3	Single Shutter UPVC Door

SPECIFICATION OF DOOR, WINDOW & VENTILATORS:-

SPECIAL NOTES:

1. Anti-termite treatment to be applied at plinth level as per is : 6313
2. Thickness of Plaster
   a) For External = 20mm (2 layer) with 1:4 & 1:2 cement sand mortar
   b) For Internal = 12mm with 1:6 cement sand mortar
   c) For Ceiling = 6mm with 1:4 cement sand mortar
3. All roofs shall be treated with water proofing and shall be covered with average 50mm thick screed concrete with proper slope to the rain water down pipe.
4. All External Wall 250 Thk. & All Internal Wall 125mm Thk. with 1:4 Cement Sand Mortar. Fly Ash Bricks shall be used as per GRIHA Requirement.
5. Thickness Of Green Roof : 150 mm

FOR APPROVAL

CLIENT: INLAND WATERWAYS AUTHORITY OF INDIA

EMPLOYER'S ENGINEER: ARKITECHNO™ CONSULTANTS (INDIA) PVT. LTD. In Joint Venture with IRCLASS SYSTEMS AND SOLUTIONS PRIVATE LIMITED — TSSC-2

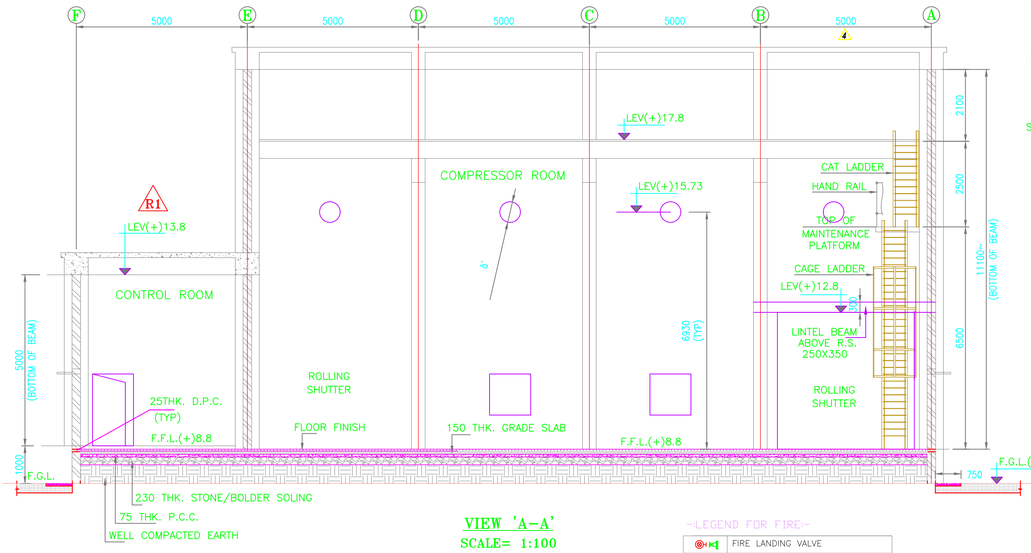
CONTRACTOR:

PROJECT: MULTI-MODAL IWT TERMINAL AT HALDIA, WEST BENGAL

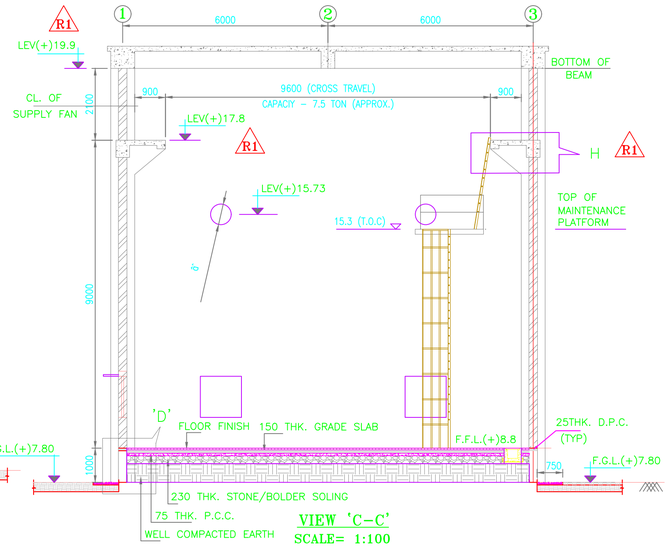
TITLE: ARCHITECTURAL DRAWING OF WORKER'S AMENITY BUILDING

DESIGNED & DRAWN BY			
CHECKED BY			ALL DIMENSION ARE IN MM
PROOF CONSULTANT			SCALE 1:100
REVIEWED & VERIFIED BY	TSSC-2		DATE
APPROVED BY	IWAI		REV. / SIZE

DRG NO. AMENITY/A-01 — REV. R — SIZE A1



VIEW 'A-A'
SCALE= 1:100



VIEW 'C-C'
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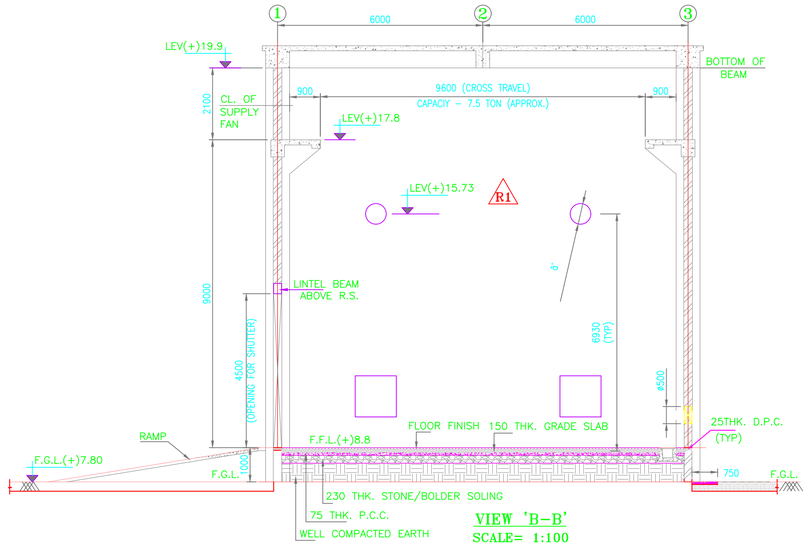
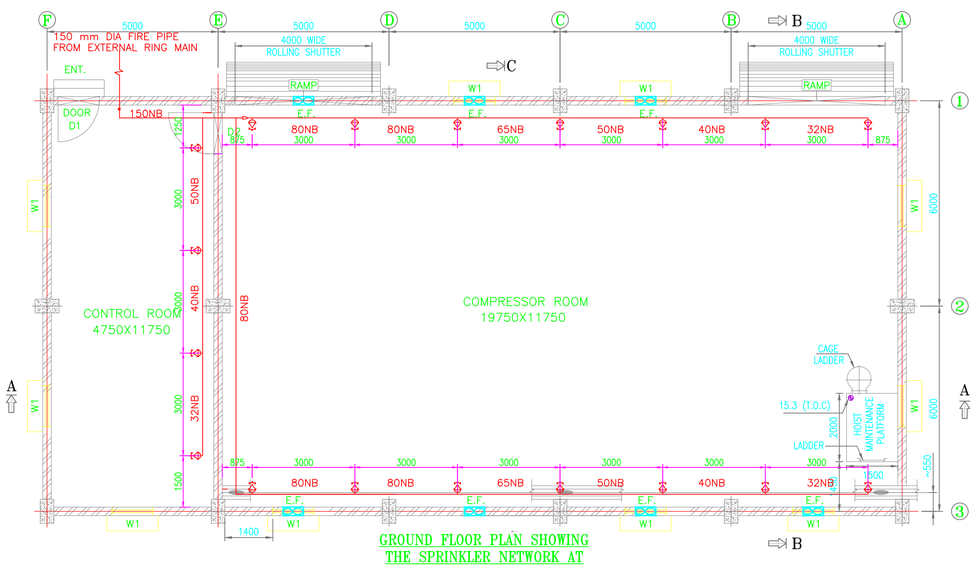


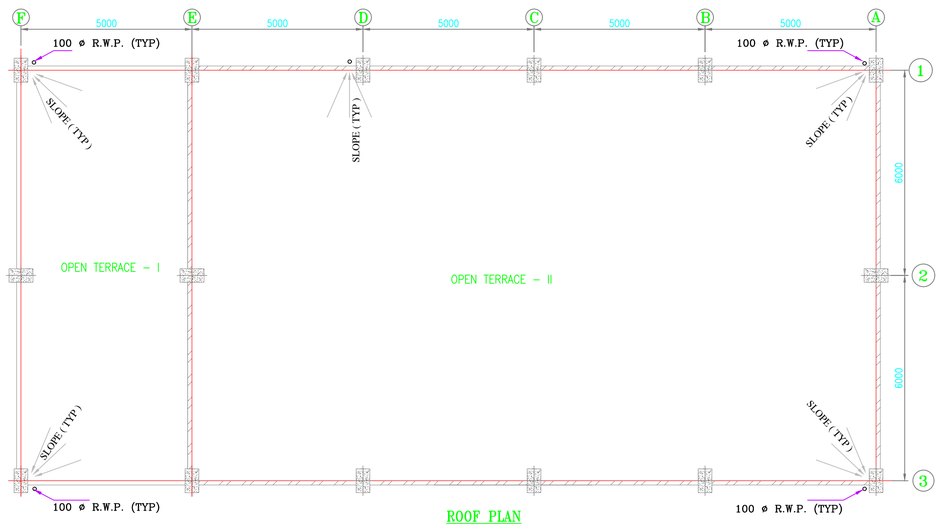
VIEW 'B-B'
SCALE= 1:100

-LEGEND FOR FIRE:-

	FIRE LANDING VALVE
	FIRE HOSE BOX
	FIRE HOSE REEL
	RISER
	PENDENT TYPE FIRE SPRINKLER
	4WAY FIRE BRIGADE CONNECTION
	GATE VALVE
	BUTTERFLY VALVE
	NON RETURN VALVE
	FLOW SWITCH
	GLOBE VALVE (GLV)
	INSTALLATION CONTROL VALVE (ICV)
	SIDE WALL SPRINKLER (EXT. COV.)
	DELUGE VALVE (DV)



GROUND FLOOR PLAN SHOWING THE SPRINKLER NETWORK AT COMPRESSOR ROOM
SCALE= 1:100



ROOF PLAN
SCALE= 1:100

NOTES:-

1. ALL DIMENSION ARE IN MM IF NOT OTHERWISE MENTIONED
2. FOR ALL CABLE TRENCH & PLAN FOLLOW ELECTRICAL LAYOUT & CABLE ROUTING DRAWING NO. MPPL-C1930/008 & ITDCem/STUP/42016DM/E/DD/CB/CS-02
3. ALL INTERNAL PLASTERING SHALL BE 12MM THICK WITH 1:6 CEMENT SAND MORTAR, ALL OUTSIDE PLASTERING SHALL BE 20 MM THK. (2 LAYER) WITH 1:4 & 1:2 CEMENT SAND MORTAR AND PLASTER TO CEILING SHALL BE 6 MM THK. WITH 1:4 CEMENT SAND MORTAR. (R3)
4. POLYURETHANE BASE WATERPROOTING AS PER CLAUSE NO 4.13.2 OF TECHNICAL SPECIFICATION VOL:II. TO BE USED FOR ROOF WATERPROOFING WITH PROPER SLOPE TO THE RAIN WATER DOWN PIPE.
5. 40MM THICK HEAVY DUTY FLOORING IS TO BE DONE AS PER CLAUSE NO 4.15.4 OF TECHNICAL SPECIFICATION. VOL:II,
6. CEMENT PLASTER SKIRTING TO OF 150 MM HEIGHT WITH NEAT CEMENT PUNNING MATCHING TO PLASTER TO BE DAONE ALL ALONG THE FLOOR.
7. STEEL DOOR & WINDOW TO BE PROCURED AS PER CLAUSE NO 4.10.2 OF TECHNICAL SPECIFICATION VOL:11.
8. BRICK WORK BELOW DPC ABOVE TIE BEAM TO BE PROTECTED FROM BOTH THE SIDE BY NET CEMENT PUNNING.
9. ALL BRICK WALLS SHALL BE 250MM THICK WITH 1:4 CEMENT SAND MORTAR.
10. ALL INSIDE FACES OF BUILDING SHALL HAVE 2 COATS OF WASHABLE DISTEMPER PAINT OF APPROVED QUALITY & SHADE OVER A PRIMER & P.O.P & THE EXTERNAL SURFACE OF BUILDING WILL BE 2 COATS OF WEATHER COAT PAINT OF APPROVED COLOUR AND SHADE. CEILING SHALL HAVE 2 COATS OF OIL BOUND DISTEMPER.
11. ANTI-TERMITE TREATMENT TO BE APPLIED AT PLINTH LEVEL AS PER IS : 6313
12. GRADE OF CONCRETE FOR GRADE SLAB- M20.
13. LENGTH OF CHAJJA WILL BE AS PER THE WIDE OF DOORS AND WINDOWS WITH 100MM PROJECTION ON EITHER SIDE.

EMPLOYER
INLAND WATERWAYS AUTHORITY OF INDIA

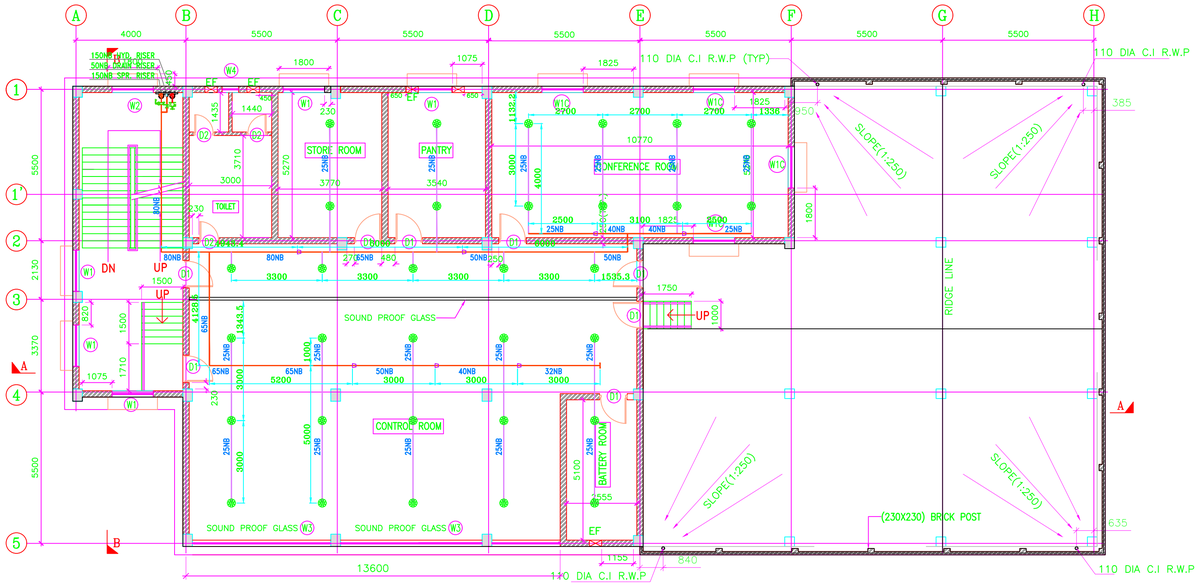
EMPLOYER'S ENGINEER
ARKITECHNO™ CONSULTANTS (INDIA) PVT. LTD. In Joint Venture with IRCLASS SYSTEMS AND SOLUTIONS PRIVATE LIMITED TSSC-2

CONTRACTOR

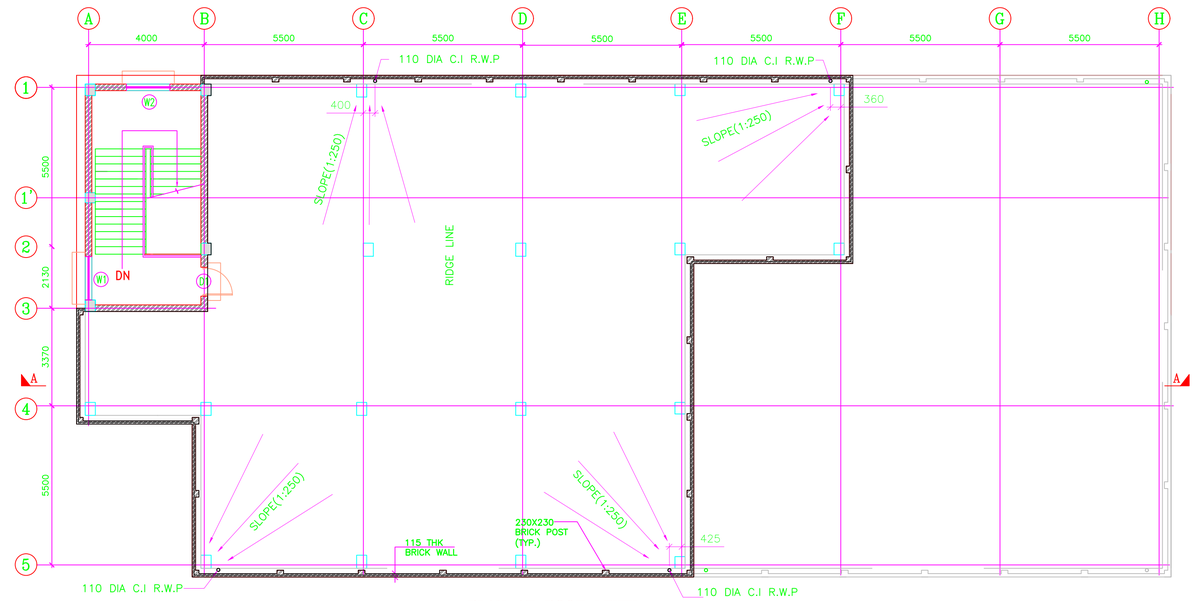
PROJECT : MULTI-MODAL IWT TERMINAL AT HALDIA, WEST BENGAL

TITLE :
ARCHITECTURAL DETAIL OF COMPRESSOR ROOM

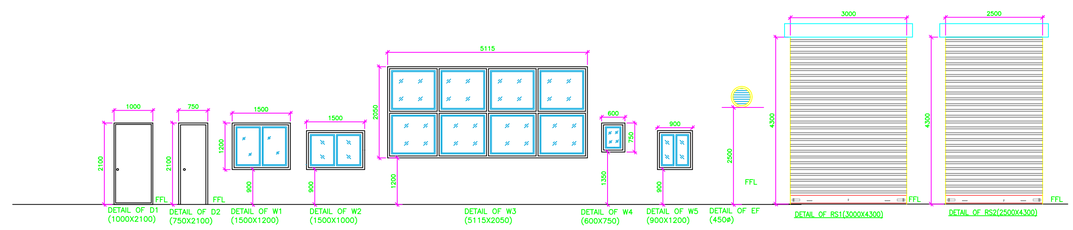
DESIGNED	TS	DRAWING No. A2019/001	DATE
DRAWN	SK		
CHECKED	KC	REVISION No. 0	SCALE 1:75, NTS
APPROVED	AN	SHEET 1 OF 1	



PLAN AT 1ST FLOOR LEVEL.

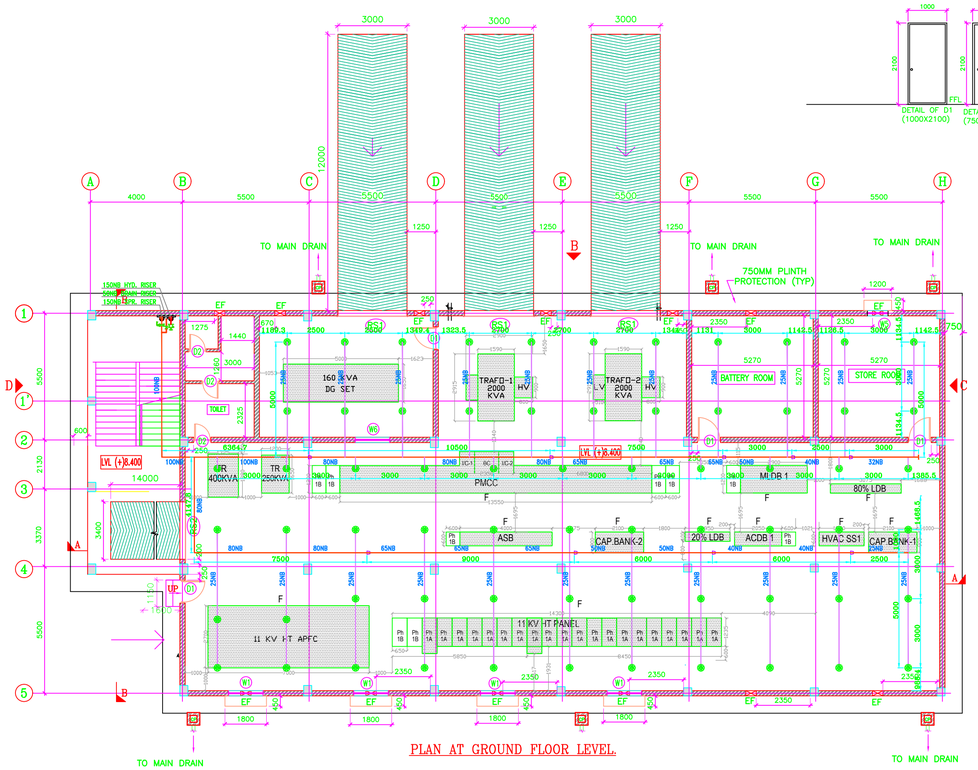


PLAN AT ROOF LEVEL.

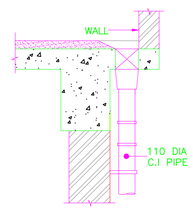


NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.
2. ALL LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
3. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED. THE DRAWING SHALL NOT BE SCALED.
4. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL AND SERVICES DRAWINGS & DISCREPANCIES/AMBIGUITIES IF ANY SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE COMMENCEMENT OF THE WORK AT SITE.
5. ALL LEVELS & DIMENSIONS STATED SHALL BE VERIFIED AT SITE & DISCREPANCIES/AMBIGUITIES IF ANY SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE COMMENCEMENT OF THE WORK AT SITE.
6. THIS DWG. SHALL BE READ IN CONJUNCTION WITH DWG NO ITD–Cem/STUP/42016DM/E/ED/LAY/ELEC–175
7. EXTERNAL PLASTER:– 20MM OF 2 LAYER WITH RATIO OF 1:4 & 1:2 SAND–CEMENT MORTAR
   INTERNAL PLASTER:– 12 MM THICK 1:6 CEMENT–SAND MORTAR.
   CEILING PLASTER:– 6 MM THICK 1:4 CEMENT–SAND MORTAR.
   BOTH SIDE OF BRICK WORK ABOVE TIE BEAM, BELOW GRADE SLAB TO BE PROTECTED BY PLASTER AND NET CEMENT FINISH.
8. ALL INSIDE BUILDING SURFACE SHALL HAVE 2 COATS OF NON–VOC EMULSION PAINT AND ALL EXTERNAL SURFACE SHALL HAVE 2 COATS OF WATER BOUND WASHABLE EXTERIOR GRADE PAINT OF APPROVED BRAND & QUALITY.
9. HEIGHT OF SKIRTING 150 MM
10. DAMP PROOFING TO BE PROVIDED AS PER IS: 7198–1974, ANTI TERMITE TREATMENT TO BE TO BE APPLIED AS PER IS:6313 AT PLINTH LEVEL.
11. SAND GRADING ZONE –III AS PER IS:383 TO BE USED FOR FILLING.
12. APPROVED EPOXY PAINT TO BE USED BELOW FALSE FLOORING AREA..
13. THE EXTERNAL SURFACES OF CATCH PITS SHALL BE COATED WITH TWO COATS OF A RUBBER REINFORCED BITUMEN EMULSION.



PLAN AT GROUND FLOOR LEVEL.



TYP. DETAIL OF FIXING R.W.P.

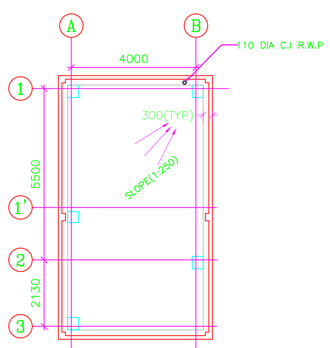
SCALE 1:20

LEGEND

SR. NO.	SYMBOL	DESCRIPTION
01		FIRE HYDRANT PIPE
02		FIRE SPRINKLER HEADER PIPE
03		FIRE SPRINKLER BRANCH PIPE
04		BUTTERFLY VALVE (BFV)
05		BALL VALVE (BV)
06		NON RETURN VALVE (NRV)
07		REDUCER (RED)
08		SINGLE HEADED HYDRANT VALVE (SHHV)
09		PENDENT SPRINKLER
10		FLOW SWITCH

DOOR & WINDOW SCHEDULE

DOOR MKD	OPENING SIZE WIDTH	HEIGHT	SILL LEVEL	LINTEL LEVEL	REMARKS
DOOR					
D1	1000	2100	-	2100	SINGLE SHUTTER STEEL DOOR
D2	1000	2100	-	2100	SINGLE SHUTTER ALUMINIUM DOOR (HALF GLAZED)
D3	750	2100	-	2100	SINGLE SHUTTER UPVC DOOR
RS1	3000	4300	-	4300	ROLLING SHUTTER
RS2	2500	4300	-	4300	ROLLING SHUTTER
WINDOW					
W1	1500	1200	900	2100	DOUBLE SHUTTER SIDE HUNG ALUMINIUM GLAZING WINDOW WITH GRILL
W1C	1500	1200	900	2100	DOUBLE SHUTTER SIDE HUNG ALUMINIUM GLAZING WINDOW WITH GRILL
W2	1500	1000	900	2100	DOUBLE SHUTTER SIDE HUNG ALUMINIUM GLAZING WINDOW WITH GRILL
W3	5115	2050	1200	2100	FULL VIEW FIXED ALUMINIUM GLASS WINDOW
W4	600	750	1350	2100	SINGLE SHUTTER TOP HUNG ALUMINIUM GLAZING WINDOW
W5	900	1200	1200	2100	DOUBLE SHUTTER SIDE HUNG ALUMINIUM GLAZING WINDOW WITH GRILL
W6	1500	1200	900	2100	FIXED GLAZED ALUMINIUM WINDOW
EF	-	-	-	-	450 ø EXHUST FAN



MUMTY ROOF PLAN

CLIENT: INLAND WATERWAYS AUTHORITY OF INDIA

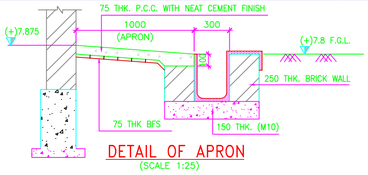
EMPLOYER'S ENGINEER: ARKITECHNO™ CONSULTANTS (INDIA) PVT. LTD. In Joint Venture with IRCLASS SYSTEMS AND SOLUTIONS PRIVATE LIMITED — TSSC-2

CONTRACTOR:

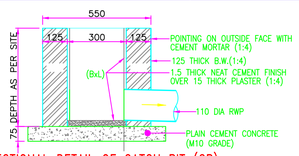
PROJECT: MULTI-MODAL IWT TERMINAL AT HALDIA, WEST BENGAL

TITLE: ARCHITECTURAL DRAWING OF SUBSTATION BUILDING -01
FLOOR PLANS & DETAILS OF DOOR & WINDOW

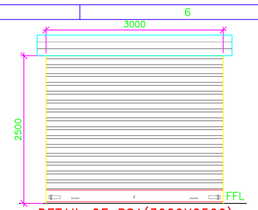
DESIGNED & DRAWN BY			
CHECKED BY			ALL DIMENSION ARE IN MM
PROOF CONSULTANT			SCALE AS SHOWN
REVIEWED & VERIFIED BY	TSSC-2		DATE
APPROVED BY	IWAI		REV. / SIZE
DRG NO.	SUB/AR-01		R / 0 / A1



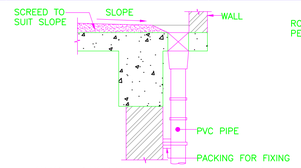
DETAIL OF APRON
(SCALE 1:25)



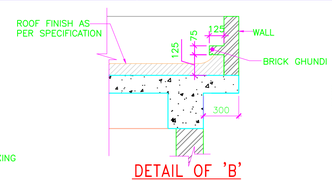
SECTIONAL DETAIL OF CATCH PIT (CP)
(SCALE=1:15)



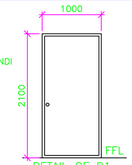
DETAIL OF RS1(3000X2500)
SCALE 1:50



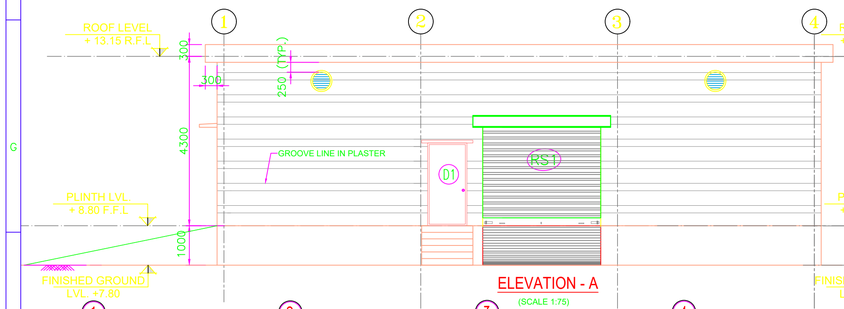
TYP. DETAIL OF FIXING R.W.P.
SCALE 1:20



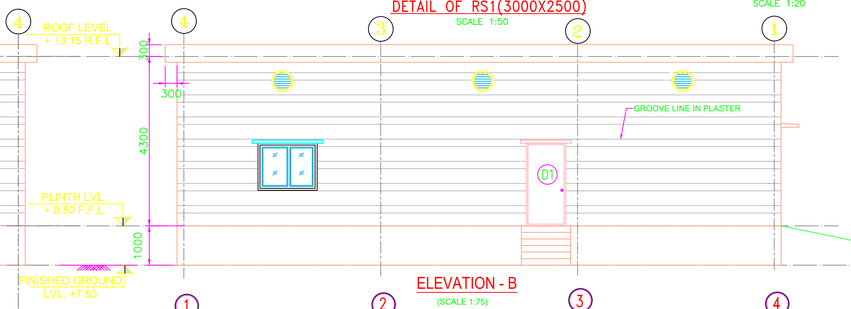
DETAIL OF 'B'
SCALE 1:25



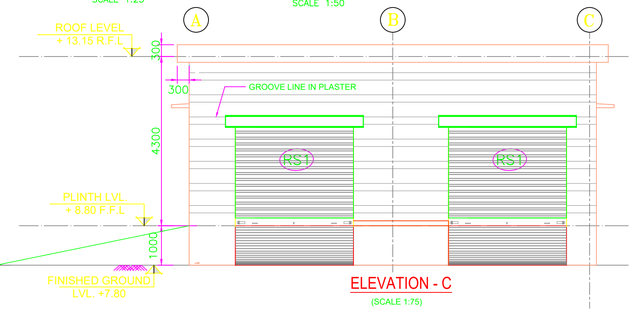
DETAIL OF D1
(1000X2100)
SCALE 1:50



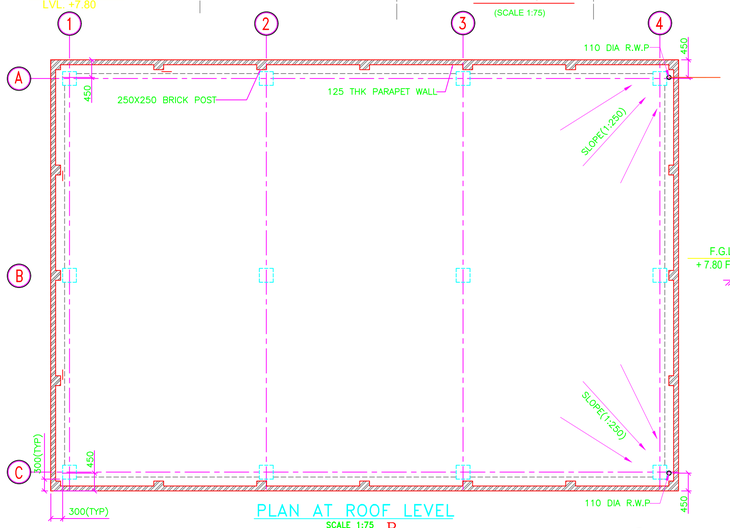
ELEVATION - A
(SCALE 1:75)



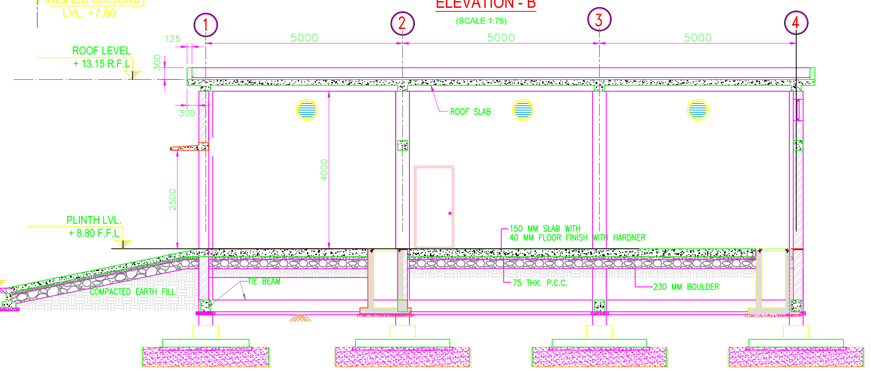
ELEVATION - B
(SCALE 1:75)



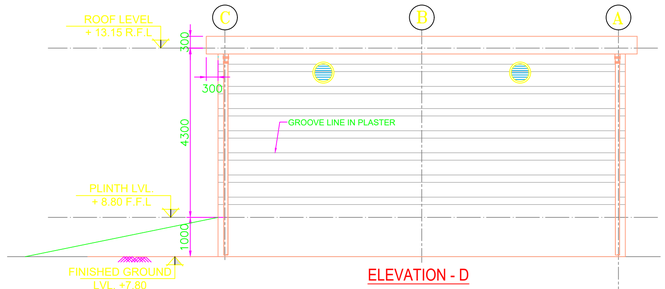
ELEVATION - C
(SCALE 1:75)



PLAN AT ROOF LEVEL
SCALE 1:75



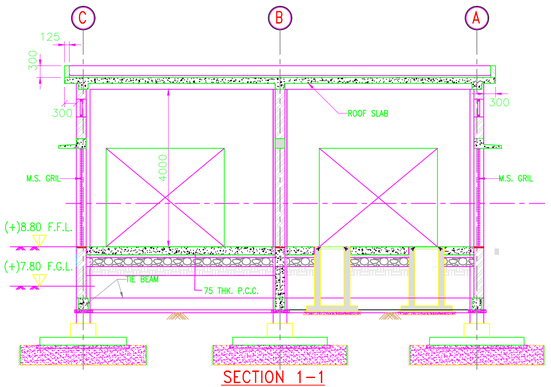
SECTION 2-2
(SCALE 1:75)



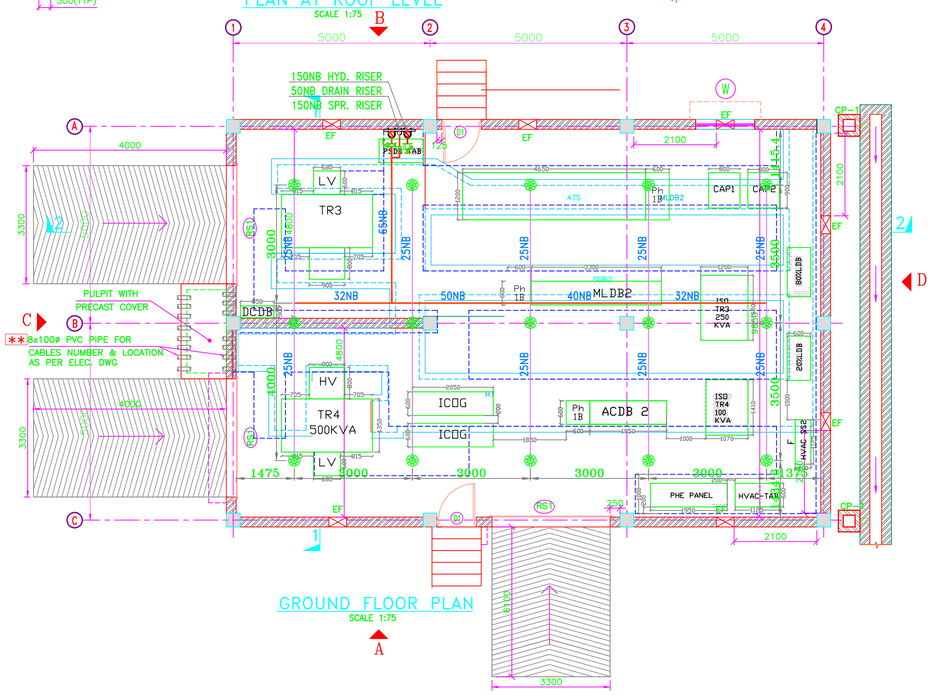
ELEVATION - D
(SCALE 1:75)

DOOR & WINDOW SCHEDULE

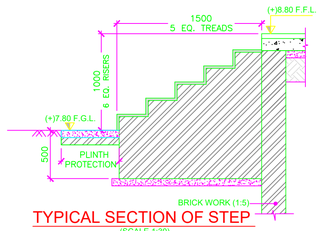
DOOR MKD	OPENING SIZE				REMARKS
	WIDTH	HEIGHT	SILL LEVEL	LINTEL LEVEL	
DOOR					
D1	1000	2100	-	2100	SINGLE SHUTTER STEEL DOOR
W	1500	1200	900	2100	FIXED ALUMINIUM GLAZING WINDOW WITH GRILL
RS1	3000	2500	-	3000	ROLLING SHUTTER
EF	-	-	-	-	350 Ø EXHUST FAN



SECTION 1-1
(SCALE 1:75)



GROUND FLOOR PLAN
SCALE 1:75



TYPICAL SECTION OF STEP
(SCALE 1:30)

LEGEND

SR. NO.	SYMBOL	DESCRIPTION
01		FIRE HYDRANT PIPE
02		FIRE SPRINKLER HEADER PIPE
03		FIRE SPRINKLER BRANCH PIPE
04		BUTTERFLY VALVE (BFV)
05		BALL VALVE (BV)
06		NON RETURN VALVE (NRV)
07		REDUCER (RED)
08		SINGLE HEADED HYDRANT VALVE (SHHV)
09		PENDENT SPRINKLER
10		FLOW SWITCH

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.
2. ALL LEVELS ARE IN METERS UNLESS STATED OTHERWISE.
3. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED. THE DRAWING SHALL NOT BE SCALED.
4. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND SERVICES DRAWINGS & DISCREPANCIES/AMBIGUITIES IF ANY SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE COMMENCEMENT OF THE WORK AT SITE.
5. ALL LEVELS & DIMENSIONS STATED SHALL BE VERIFIED AT SITE & DISCREPANCIES/AMBIGUITIES IF ANY SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE COMMENCEMENT OF THE WORK AT SITE.
6. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NO-ITD-Cem/STUP/42016DM/E/ED/LAY/ELEC-176
7. ALL INSIDE BUILDING SURFACE SHALL HAVE 2 COATS OF NON-VOC EMULSION PAINT & ALL EXTERNAL SURFACE SHALL HAVE 2 COATS OF WATER BOUND WASHABLE EXTERIOR GRADE PAINT OF APPROVED BRAND & QUALITY.
8. THICKNESS OF PLASTER
   A) FOR EXTERNAL = 20MM (2 LAYER) WITH 1:4 & 1:2 CEMENT SAND MORTAR
   B) FOR INTERNAL = 12MM WITH 1:6 CEMENT SAND MORTAR
   C) FOR CEILING = 6MM WITH 1:4 CEMENT SAND MORTAR
9. ALL ROOFS SHALL BE TREATED WITH SIKA LATEX OR EQUIVALENT AND SHALL BE COVERED WITH AVERAGE 50MM THICK SCREED CONCRETE WITH PROPER SLOPE TO THE RAIN WATER DOWN PIPE.
10. ALL EXTERNAL WALL 250 THK. & ALL INTERNAL WALL 125MM THK. WITH 1:4 CEMENT SAND MORTAR. FLY ASH BRICKS SHALL BE USED AS PER GRIHA REQUIREMENT.
11. ELECTRICAL EQUIPMENT LAYOUT SHOULD BE READ FROM DRG ITD -Cem/STUP/42016DM/E/ED/LAY/ELEC-176

CLIENT: INLAND WATERWAYS AUTHORITY OF INDIA

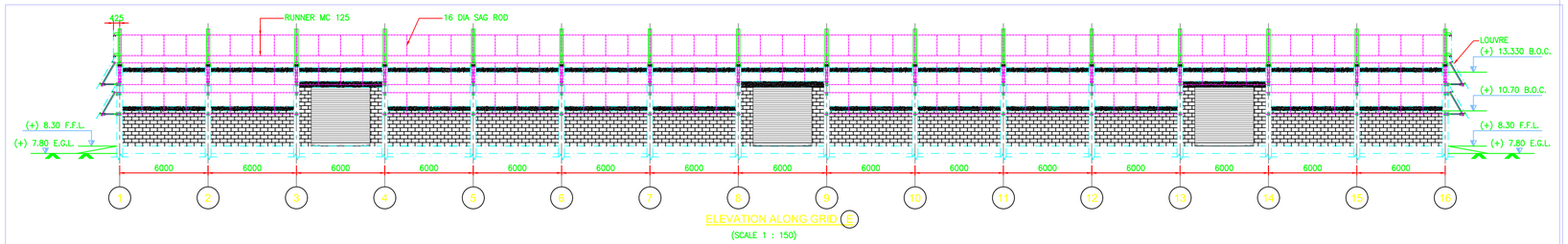
EMPLOYER'S ENGINEER: ARKITECHNO CONSULTANTS (INDIA) PVT. LTD. In Joint Venture with IRCLASS SYSTEMS AND SOLUTIONS PRIVATE LIMITED — TSSC-2

CONTRACTOR:

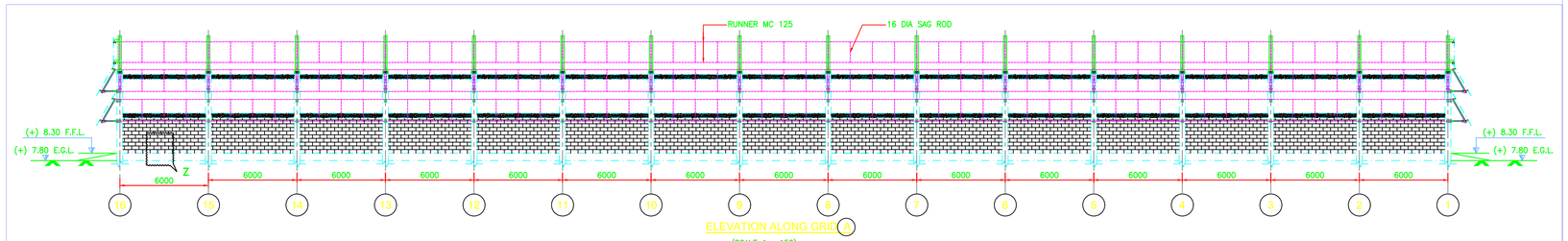
PROJECT: MULTI-MODAL IWT TERMINAL AT HALDIA, WEST BENGAL

TITLE: ARCHITECTURAL DRAWING OF SUBSTATION BUILDING-SS-2 FLOOR PLANS , SECTIONS & DETAILS

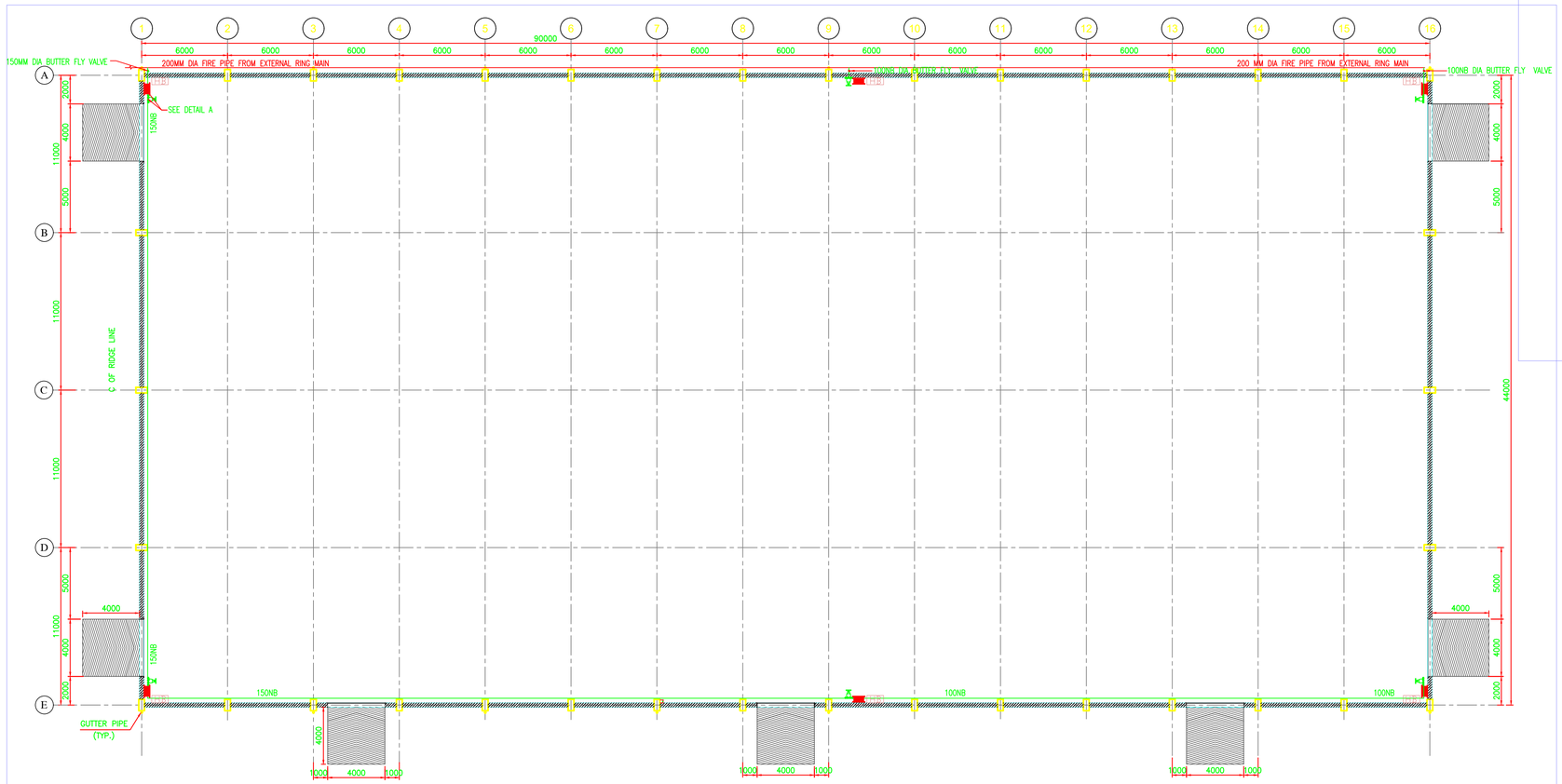
DESIGNED & DRAWN BY			
CHECKED BY			ALL DIMENSION ARE IN MM
PROOF CONSULTANT			SCALE: AS SHOWN
REVIEWED & VERIFIED BY	TSSC-2		DATE
APPROVED BY	IWAI		REV. / SIZE
DRG NO. SS-2/AR-01			R / 0 / A1



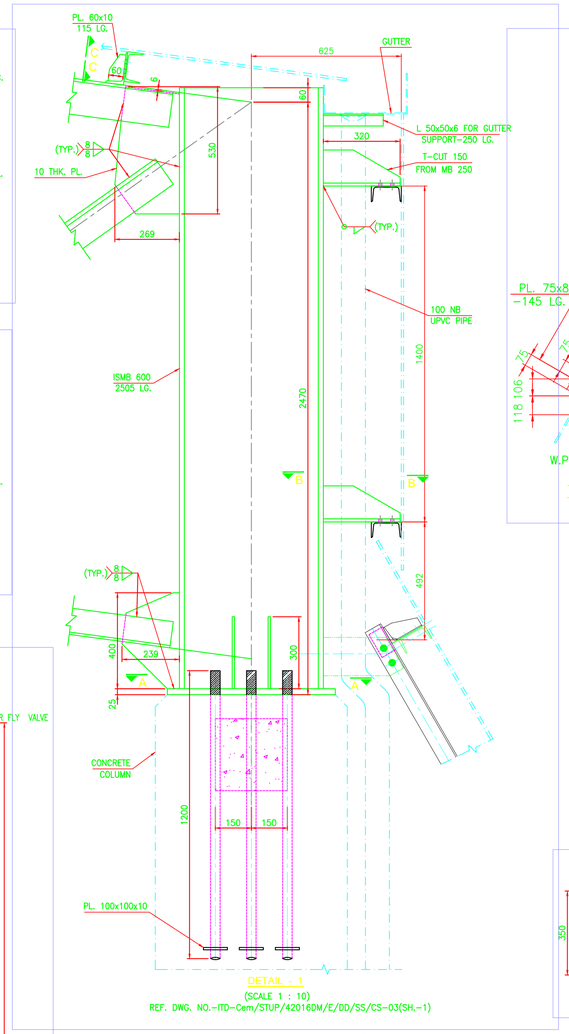
ELEVATION ALONG GRID E
(SCALE 1 : 150)



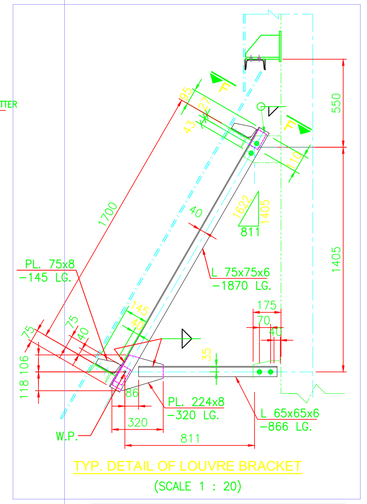
ELEVATION ALONG GRID A
(SCALE 1 : 150)



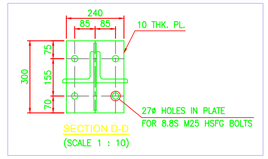
PLAN SHOWING THE INTERNAL HYDRANT ARRANGEMENT OF THE SHED
SCALE=1:150



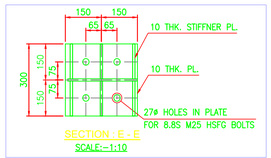
DETAIL - 1
(SCALE 1 : 10)
REF. DWG. NO.-ITD-Cem/STUP/420160M/E/DD/SS/CS-03(SH.-1)



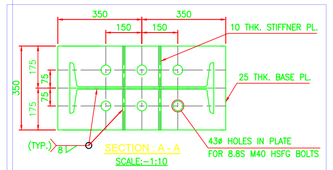
TYP. DETAIL OF LOUVRE BRACKET
(SCALE 1 : 20)



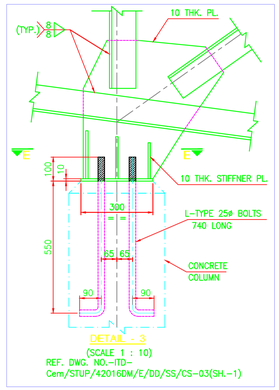
SECTION D-D
(SCALE 1 : 10)



SECTION : E - E
SCALE:-1:10



SECTION - A - A
SCALE:-1:10



DETAIL - 3
(SCALE 1 : 10)
REF. DWG. NO.-ITD-Cem/STUP/420160M/E/DD/SS/CS-03(SH.-1)

R6 R7

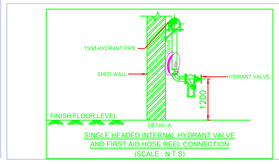
NOTES :-

1. ALL RAIN WATER PIPES SHALL BE 100 NB CI PIPE CLAMP VERTICALLY @ 2M C/C. THE CLAMP TO BE FIXED WITH COLUMN.
2. ALL SHEETING SHALL BE COLOUR QUOTED GALVALUME SHEET OF 0.65MM TCT. LAYOUT DETAIL AND PROFILE WILL BE AS PER SHEET MANUFACTURER AND WILL BE SUBMITTED SEPERATELY.
3. GUTTERS SHALL BE PLACED ON STRUCTURE AS SHOWN IN THIS DRAWING AND AS PER MANUFACTURER'S DETAIL & DRAWIING TO MATCH THE SHEETING.
4. ALL BRICK WALLS SHALL BE 250MM THICK WITH 1:4 CEMENT SAND MORTAR. THICKNESS OF INTERNAL PLASTER SHALL BE 12MM WITH 1:6 CEMENT SAND MORTAR & OUTSIDE PLASTER SHALL BE 20 MM (2 LAYER) WITH 1:4 & 1:2 CEMENT SAND MORTAR.
5. BRICK WORK BELOW DPC ABOVE TIE BEAM TO BE PROTECTED FROM BOTH THE SIDE BY NET CEMENT PUNNING.
6. ALL INSIDE FACES OF BUILDING SHALL HAVE 2 COATS OF WASHABLE DISTEMPER PAINT OF APPROVED QUALITY & SHADE OVER A PRIMER & P.O.P. & THE EXTERNAL SURFACE OF BUILDING WILL BE 2 COATS OF WEATHER COAT PAINT OF APPROVED COLOUR AND SHADE. CEILING SHALL HAVE 2 COATS OF OIL BOUND DISTEMPER.
7. ANTI-TERMITE TREATMENT TO BE APPLIED AT PLINTH LEVEL AS PER IS : 6313

FOR APPROVAL

-LEGEND FOR FIRE-

	FIRE LANDING VALVE
	FIRE HOSE BOX
	FIRE HOSE REEL
	RIDER
	PENDANT TYPE FIRE SPRINKLER
	4WAY FIRE BRIGADE CONNECTION
	GATE VALVE
	BUTTERFLY VALVE
	NON RETURN VALVE
	FLOW SWITCH
	GLOBE VALVE (GLV)
	INSTALLATION CONTROL VALVE (ICV)
	WATER CURTAIN NOZZLE
	DELUGE VALVE (DV)

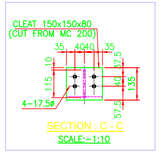


SINGLE HEADED INTERNAL HYDRANT VALVE AND FIRST AID HOSE REEL CONNECTION
(SCALE N.T.S)

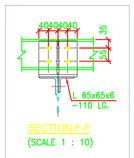
DOOR, WINDOW & ROLLING SHUTTER SCHEDULE

SL.NO.	TYPE	WIDTH	HEIGHT	NO.	DESCRIPTION
1.	WINDOW	–	–	–	NIL
2.	DOOR	–	–	–	NIL
3.	RS.	4000	4000	7	STEEL ROLLING SHUTTER SHALL BE AS PER CL. NO. 4.10.5 OF TECHNICAL SPECIFICATION VOL:II

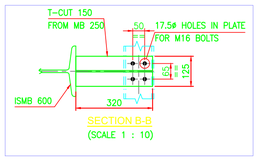
R5



SECTION : C - C
SCALE:-1:10



SECTION F-F
(SCALE 1 : 10)



SECTION B-B
(SCALE 1 : 10)

CLIENT: INLAND WATERWAYS AUTHORITY OF INDIA

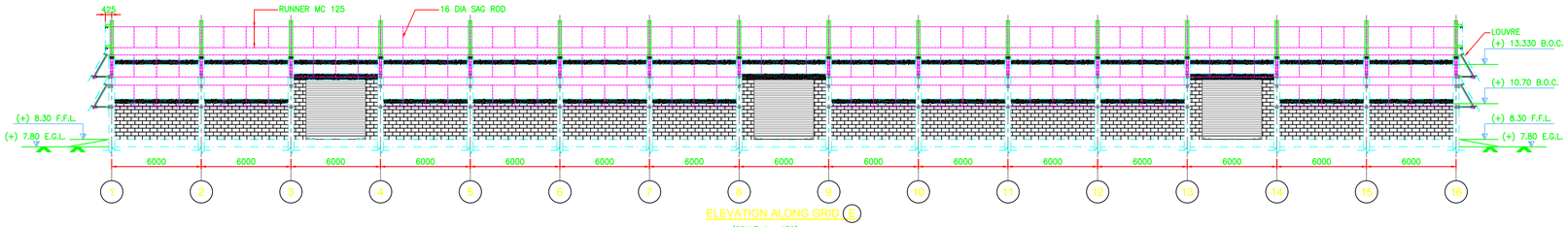
EMPLOYER'S ENGINEER: ARKITECHNO™ CONSULTANTS (INDIA) PVT. LTD. In Joint Venture with IRCLASS SYSTEMS AND SOLUTIONS PRIVATE LIMITED — TSSC-2

CONTRACTOR:

PROJECT: MULTI-MODAL IWT TERMINAL AT HALDIA, WEST BENGAL

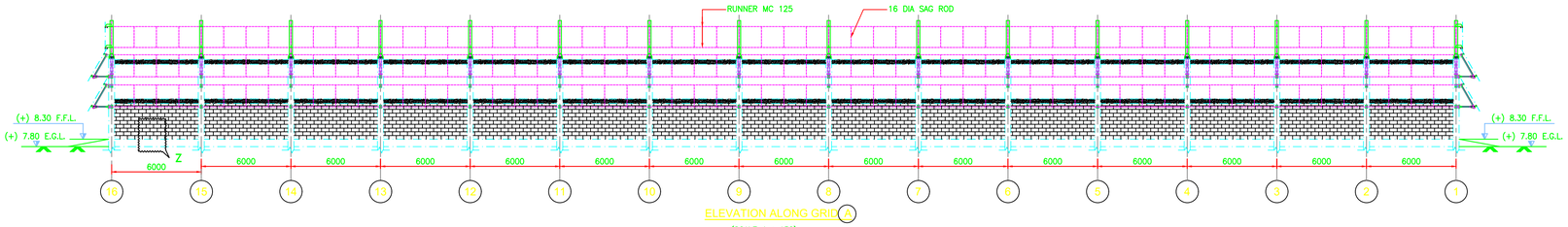
TITLE: COVERED STORAGE SHED
STRUCTURAL GENERAL ARRANGEMENT & DETAIL

DESIGNED & DRAWN BY			ALL DIMENSION ARE IN
CHECKED BY			
PROOF CONSULTANT			SCALE: AS SHOWN
REVIEWED & VERIFIED BY	TSSC-2		DATE
APPROVED BY	IWAI		REV. / SIZE
DRG NO. CS-03 (SH.-1)			R / 0 / A1



ELEVATION ALONG GRID E

(SCALE 1 : 150)

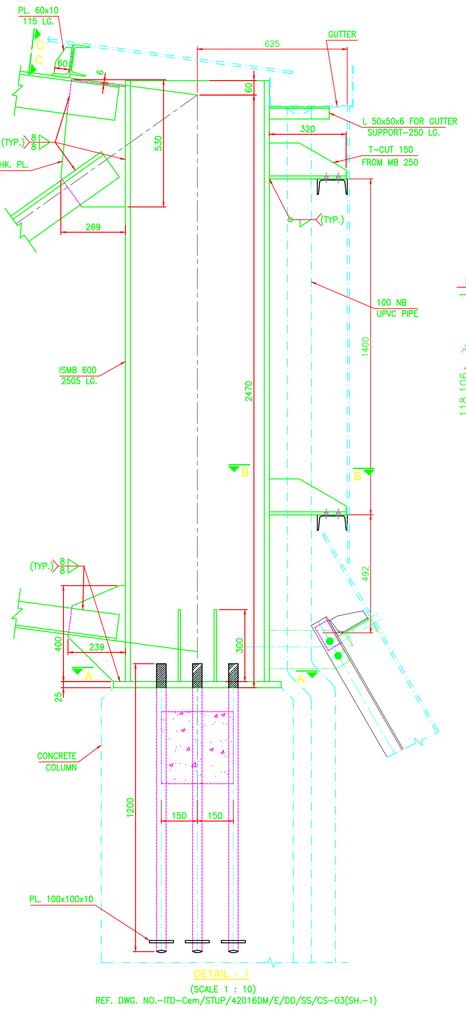


ELEVATION ALONG GRID A

(SCALE 1 : 150)

PLAN SHOWING THE SPRINKLER ARRANGEMENT OF THE SHED

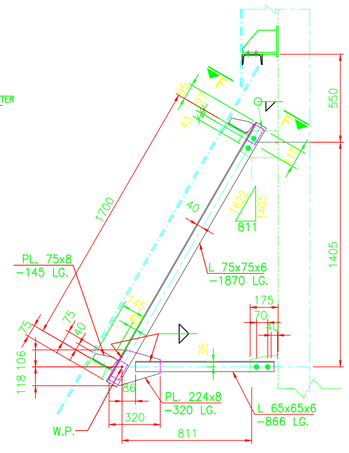
SCALE=1:150



DETAIL - 1

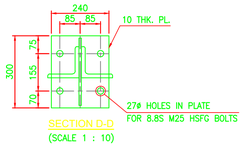
(SCALE 1 : 10)

REF. DWG. NO.-ITD-Cem/STUP/420160M/E/DD/SS/CS-03(SH.-1)



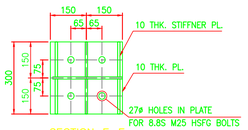
TYP. DETAIL OF LOUVRE BRACKET

(SCALE 1 : 20)



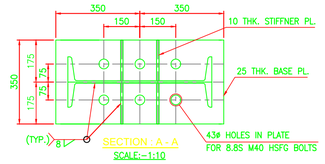
SECTION D-D

(SCALE 1 : 10)



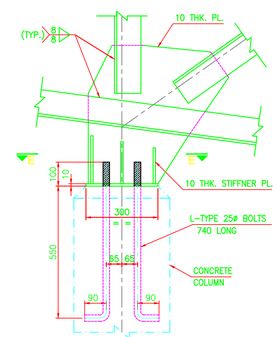
SECTION - E - E

SCALE:-1:10



SECTION - A - A

SCALE:-1:10



DETAIL - 3

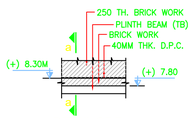
(SCALE 1 : 10)

REF. DWG. NO.-ITD-Cem/STUP/420160M/E/DD/SS/CS-03(SH.-1)

NOTES :-

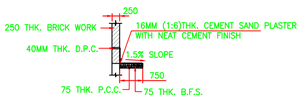
1. ALL RAIN WATER PIPES SHALL BE 100 NB CI PIPE CLAMP VERTICALLY @ 2M C/C. THE CLAMP TO BE FIXED WITH COLUMN.
2. ALL SHEETING SHALL BE COLOUR QUOTED GALVALUME SHEET OF 0.65MM TCT. LAYOUT DETAIL AND PROFILE WILL BE AS PER SHEET MANUFACTURER AND WILL BE SUBMITTED SEPERATELY.
3. GUTTERS SHALL BE PLACED ON STRUCTURE AS SHOWN IN THIS DRAWING AND AS PER MANUFACTURER'S DETAIL & DRAWING TO MATCH THE SHEETING.
4. ALL BRICK WALLS SHALL BE 250MM THICK WITH 1:4 CEMENT SAND MORTAR. THICKNESS OF INTERNAL PLASTER SHALL BE 12MM WITH 1:6 CEMENT SAND MORTAR & OUTSIDE PLASTER SHALL BE 20 MM (2 LAYER) WITH 1:4 & 1:2 CEMENT SAND MORTAR.
5. BRICK WORK BELOW DPC ABOVE TIE BEAM TO BE PROTECTED FROM BOTH THE SIDE BY NET CEMENT PUNNING.
6. ALL INSIDE FACES OF BUILDING SHALL HAVE 2 COATS OF WASHABLE DISTEMPER PAINT OF APPROVED QUALITY & SHADE OVER A PRIMER & P.O.P. & THE EXTERNAL SURFACE OF BUILDING WILL BE 2 COATS OF WEATHER COAT PAINT OF APPROVED COLOUR AND SHADE. CEILING SHALL HAVE 2 COATS OF OIL BOUND DISTEMPER.
7. ANTI-TERMITE TREATMENT TO BE APPLIED AT PLINTH LEVEL AS PER IS : 6313

FOR APPROVAL



DETAIL OF Z

(SCALE 1 : 150)



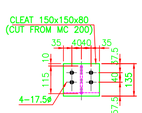
SECTION a-a

(SCALE 1 : 150)

DOOR, WINDOW & ROLLING SHUTTER SCHEDULE

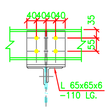
SL.NO.	TYPE	WIDTH	HEIGHT	NO.	DESCRIPTION
1.	WINDOW	–	–	–	NIL
2.	DOOR	–	–	–	NIL
3.	RS.	4000	4000	7	STEEL ROLLING SHUTTER SHALL BE AS PER CL. NO. 4.10.5 OF TECHNICAL SPECIFICATION VOL.II

R5



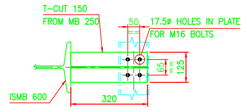
SECTION : C - C

SCALE:-1:10



SECTION F-F

(SCALE 1 : 10)



SECTION B-B

(SCALE 1 : 10)

CLIENT: INLAND WATERWAYS AUTHORITY OF INDIA

EMPLOYER'S ENGINEER: ARKITECHNO™ CONSULTANTS (INDIA) PVT. LTD. In Joint Venture with IRCLASS SYSTEMS AND SOLUTIONS PRIVATE LIMITED — TSSC-2

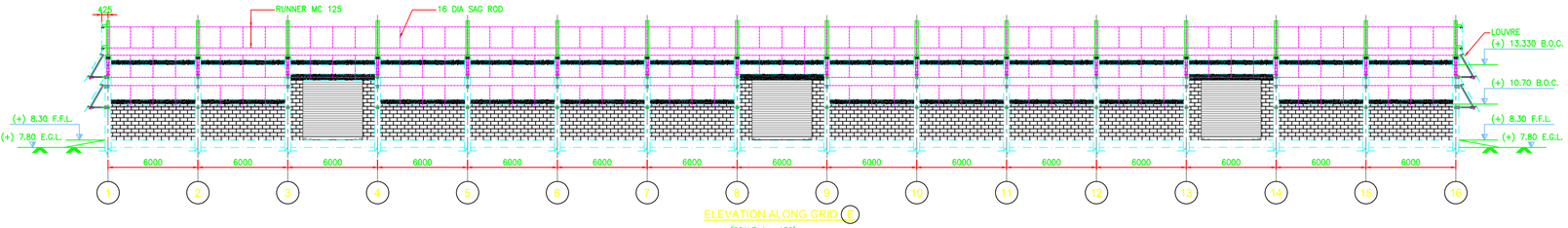
CONTRACTOR:

PROJECT: MULTI-MODAL IWT TERMINAL AT HALDIA, WEST BENGAL

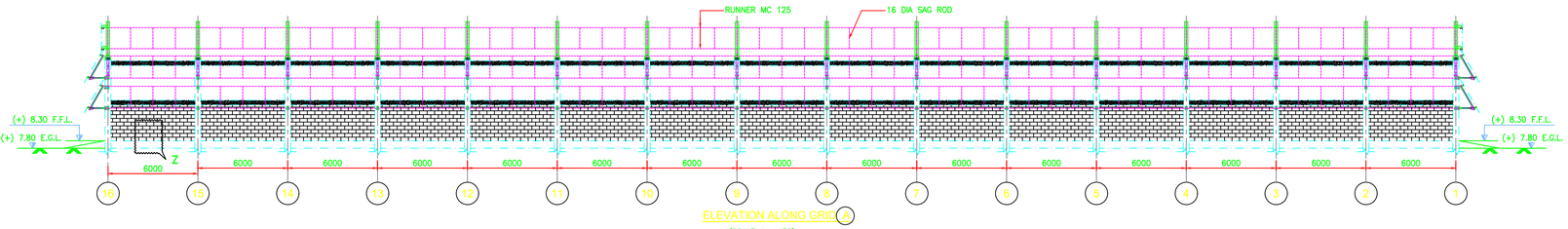
TITLE: COVERED STORAGE SHED
STRUCTURAL GENERAL ARRANGEMENT & DETAIL

DESIGNED & DRAWN BY			ALL DIMENSION ARE IN
CHECKED BY			
PROOF CONSULTANT			SCALE: AS SHOWN
REVIEWED & VERIFIED BY	TSSC-2		DATE
APPROVED BY	IWAI		REV. R / SIZE A1

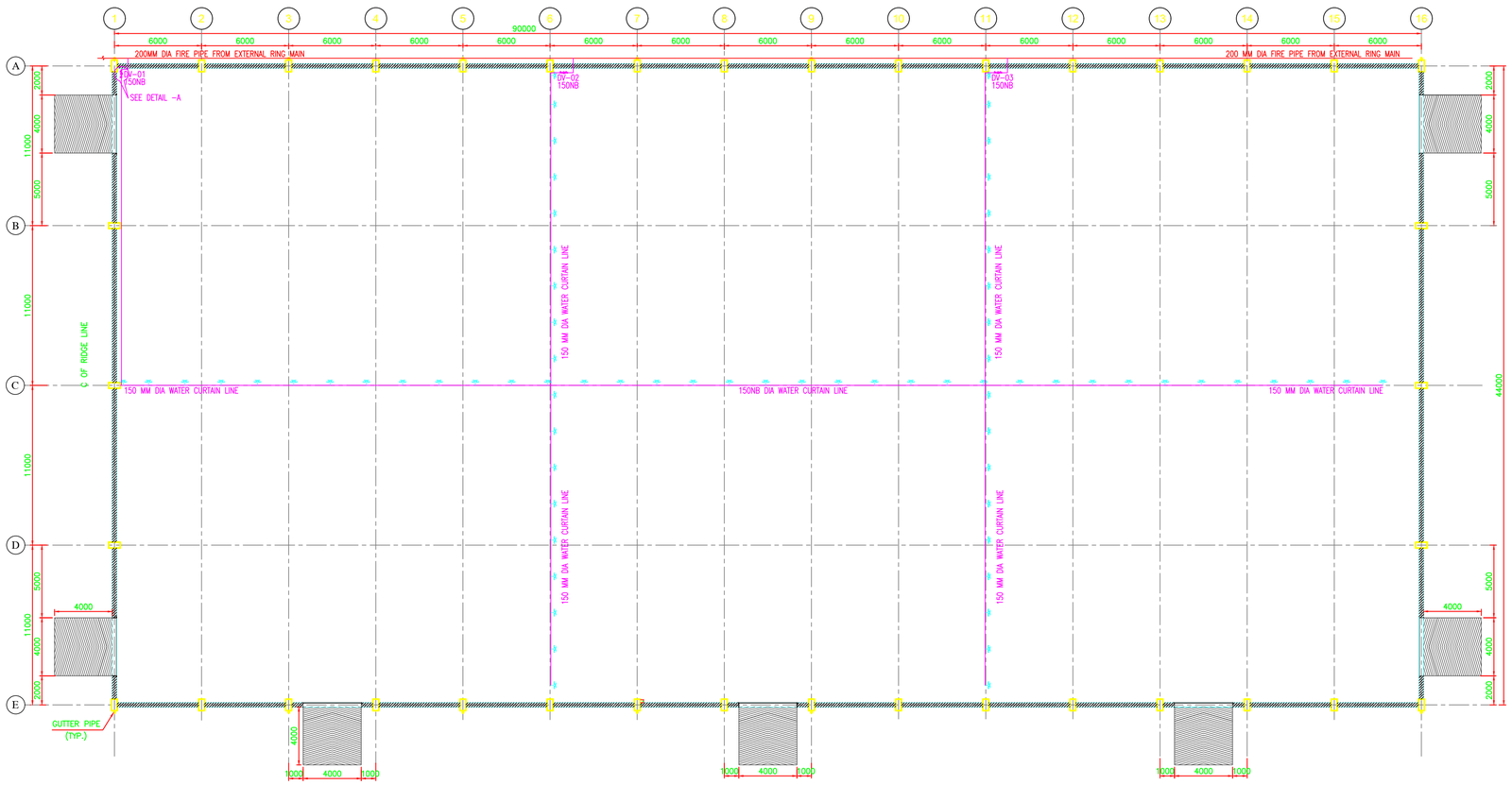
DRG NO. CS-03 (SH.-1)



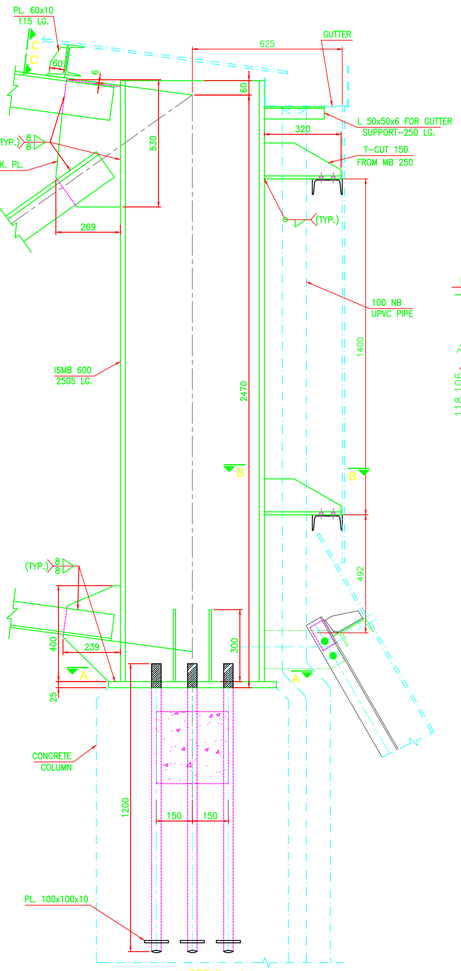
ELEVATION ALONG GRID E
(SCALE 1 : 150)



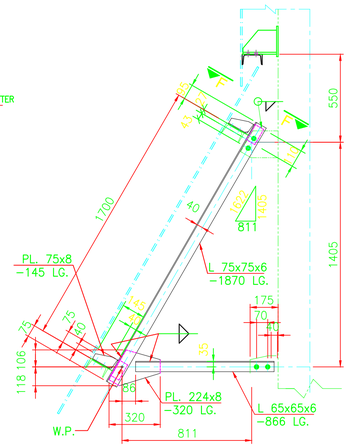
ELEVATION ALONG GRID A
(SCALE 1 : 150)



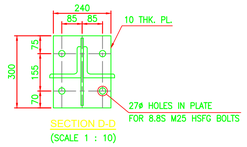
PLAN SHOWING THE WATER CURTAIN ARRANGEMENT OF THE SHED
SCALE=1:150



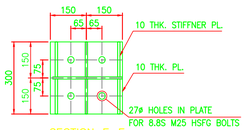
DETAIL - 1
(SCALE 1 : 10)
REF. DWG. NO.-ITD-Cem/STUP/420160M/E/DD/SS/CS-03(SH.-1)



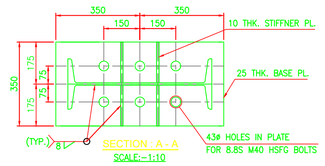
TYP. DETAIL OF LOUVRE BRACKET
(SCALE 1 : 20)



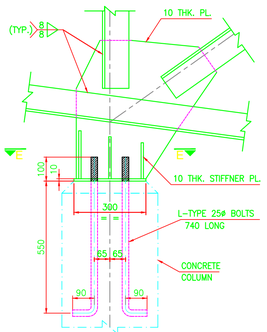
SECTION D-D
(SCALE 1 : 10)



SECTION : E - E
SCALE:-1:10



SECTION : A - A
SCALE:-1:10



DETAIL - 3
(SCALE 1 : 10)
REF. DWG. NO.-ITD-Cem/STUP/420160M/E/DD/SS/CS-03(SH.-1)

R6 R7

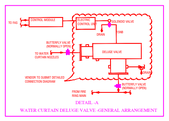
NOTES :-

1. ALL RAIN WATER PIPES SHALL BE 100 NB CI PIPE CLAMP VERTICALLY @ 2M C/C. THE CLAMP TO BE FIXED WITH COLUMN.
2. ALL SHEETING SHALL BE COLOUR QUOTED GALVALUME SHEET OF 0.65MM TCT. LAYOUT DETAIL AND PROFILE WILL BE AS PER SHEET MANUFACTURER AND WILL BE SUBMITTED SEPERATELY.
3. GUTTERS SHALL BE PLACED ON STRUCTURE AS SHOWN IN THIS DRAWING AND AS PER MANUFACTURER'S DETAIL & DRAWIING TO MATCH THE SHEETING.
4. ALL BRICK WALLS SHALL BE 250MM THICK WITH 1:4 CEMENT SAND MORTAR. THICKNESS OF INTERNAL PLASTER SHALL BE 12MM WITH 1:6 CEMENT SAND MORTAR & OUTSIDE PLASTER SHALL BE 20 MM (2 LAYER) WITH 1:4 & 1:2 CEMENT SAND MORTAR.
5. BRICK WORK BELOW DPC ABOVE TIE BEAM TO BE PROTECTED FROM BOTH THE SIDE BY NET CEMENT PUNNING.
6. ALL INSIDE FACES OF BUILDING SHALL HAVE 2 COATS OF WASHABLE DISTEMPER PAINT OF APPROVED QUALITY & SHADE OVER A PRIMER & P.O.P. & THE EXTERNAL SURFACE OF BUILDING WILL BE 2 COATS OF WEATHER COAT PAINT OF APPROVED COLOUR AND SHADE. CEILING SHALL HAVE 2 COATS OF OIL BOUND DISTEMPER.
7. ANTI-TERMITE TREATMENT TO BE APPLIED AT PLINTH LEVEL AS PER IS : 6313

FOR APPROVAL

-LEGEND FOR FIRE-

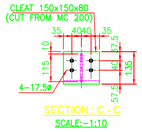
	FIRE LANDING VALVE
	FIRE HOSE BOX
	FIRE HOSE REEL
	RISER
	PENDENT TYPE FIRE SPRINKLER
Y.S.B.F	4WAY FIRE BRIGADE CONNECTION
	GATE VALVE
	BUTTERFLY VALVE
	NON RETURN VALVE
	FLOW SWITCH
	GLOBE VALVE (DLV)
	INSTALLATION CONTROL VALVE (DCV)
	WATER CURTAIN NOZZLE
	DELUGE VALVE (DV)



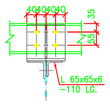
DOOR, WINDOW & ROLLING SHUTTER SCHEDULE

SL.NO.	TYPE	WIDTH	HEIGHT	NO.	DESCRIPTION
1.	WINDOW	--	--	--	NIL
2.	DOOR	--	--	--	NIL
3.	RS.	4000	4000	7	STEEL ROLLING SHUTTER SHALL BE AS PER CL. NO. 4.10.5 OF TECHNICAL SPECIFICATION VOL:II

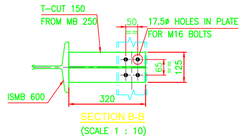
R5



SECTION : C - C
SCALE:-1:10



SECTION F-F
(SCALE 1 : 10)



SECTION B-B
(SCALE 1 : 10)

CLIENT: INLAND WATERWAYS AUTHORITY OF INDIA

EMPLOYER'S ENGINEER: ARKITECHNO™ CONSULTANTS (INDIA) PVT. LTD. In Joint Venture with IRCLASS SYSTEMS AND SOLUTIONS PRIVATE LIMITED — TSSC-2

CONTRACTOR:

PROJECT: MULTI-MODAL IWT TERMINAL AT HALDIA, WEST BENGAL

TITLE: COVERED STORAGE SHED
STRUCTURAL GENERAL ARRANGEMENT & DETAIL

DESIGNED & DRAWN BY			
CHECKED BY			ALL DIMENSION ARE IN
PROOF CONSULTANT			SCALE: AS SHOWN
REVIEWED & VERIFIED BY	TSSC-2		DATE
APPROVED BY	IWAI		REV. / SIZE
DRG NO.	CS-03(SH.-1)		R / 0 / A1