

PP

APPROVAL RECORD

Planning Permission

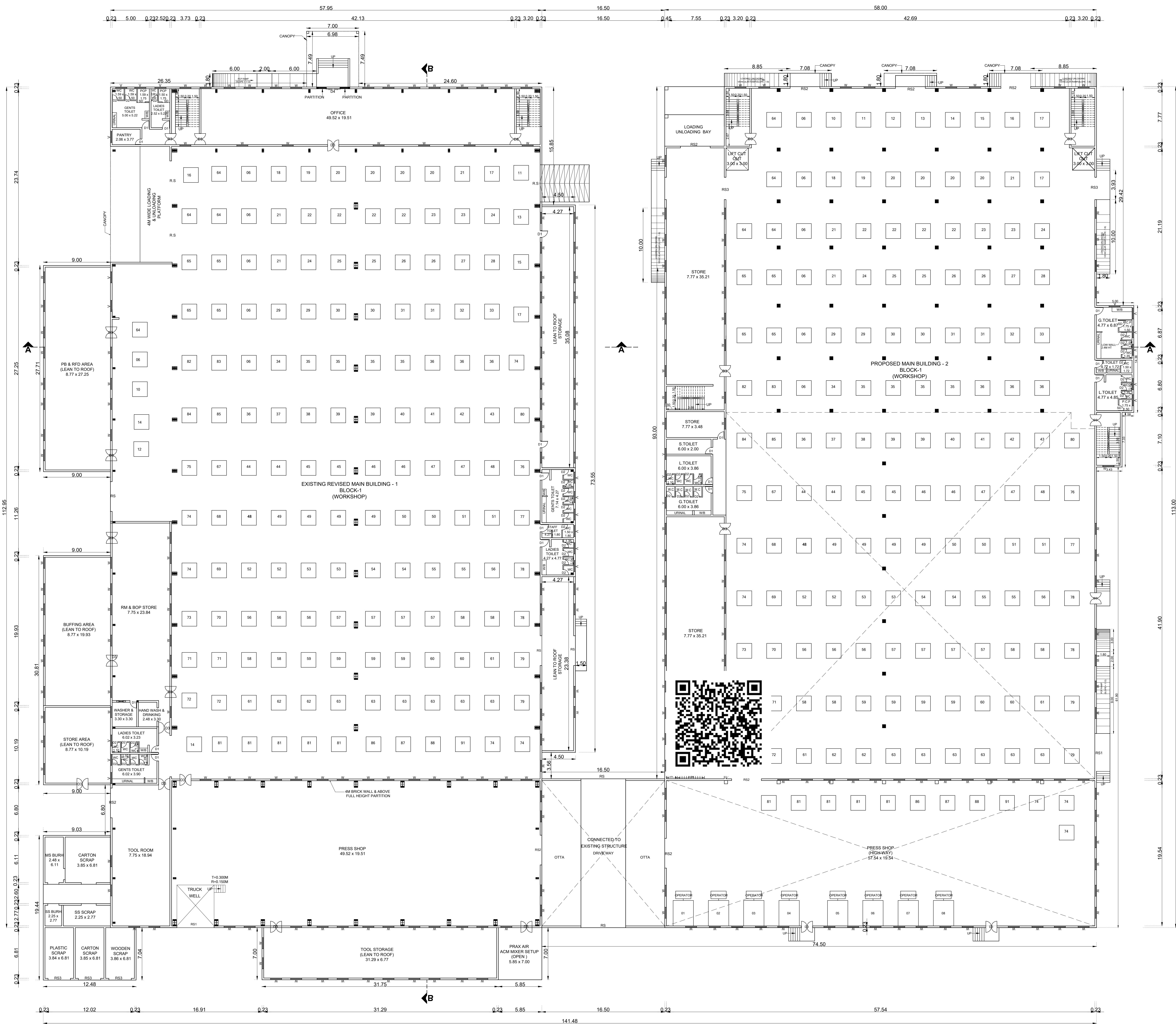
Ramanathapuram
Kancheepuram district, Tamil Nadu

APPROVAL TYPE
Building Plan

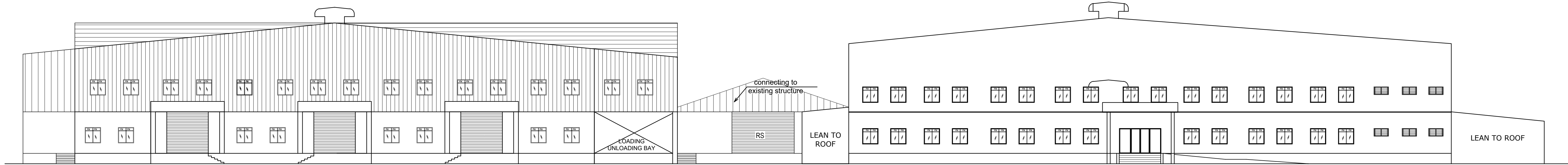
ISSUING AUTHORITY
DTCP

The approval as the planning authority issued it, reproduced in full behind this page.

An approval speaks to what was sanctioned, not to what was built. Completion is a separate record.



GROUND FLOOR PLAN



NORTH SIDE ELEVATION

MAIN BUILDING - 1				
MACHINERY HP DETAILS:				
Sl. No.	DESCRIPTION	QTY	H.P.	TOTAL HP
01	50 TON POWER PRESS	2	6.75	13.50
02	75 TON POWER PRESS	1	10.50	10.50
03	150 TON POWER PRESS	1	20.50	20.50
04	200 TON POWER PRESS	2	27.40	54.80
05	250 TON HYDRAULIC POWER PRESS	1	20.00	20.00
06	250 TON POWER PRESS	2	34.00	68.00
07	300 TON POWER PRESS	1	40.50	40.50
08	400 TON POWER PRESS	1	54.50	54.50
09	COIL FEEDER	6	3.00	18.00
10	SHEARING MACHINE HYD 8 X 2500MM	1	20.00	20.00
11	EOT CRANE 10 T	1	10.00	10.00
12	BATTERY CHARGING STATION	1	4.89	4.89
13	LATHE MACHINE	1	5.00	5.00
14	RADIAL DRILLING MACHINE - D50	1	5.00	5.00
15	MILLING MACHINE	1	7.00	7.00
16	SURFACE GRINDER	1	4.00	4.00
17	CNC PIPE BENDING MACHINE	2	20.10	40.20
18	SIDE TUBE WASHERC TIG WELDING	1	41.70	41.70
19	SIDE TUBE NOTCHING	1	15.00	15.00
20	SPM DRILLING	4	4.50	18.00
21	NOTCHING	3	15.00	45.00
22	MAIN CORE WELDING M/C	4	22.34	89.36
23	BODY SHEET ROLLING SPM	2	8.00	16.00
24	TIG WELDING SPM	2	17.42	34.84
25	LUG CUTTING SPM	2	1.00	2.00
26	SIZING SPM	2	7.50	15.00
27	NECKING SPM	1	5.00	5.00
28	END CORE WELDING	1	22.34	22.34
29	STUFFING SPM	2	5.00	5.00
30	SPM CUP SETTING+WELDING(PROPOSED)	2	22.34	44.68
31	SILENCER ROTARY WELDING SPM	2	5.00	10.00
32	BRACKET WELDING	1	22.30	22.30
33	BOSS WELDING	1	22.30	22.30
34	FULL WELDING	1	20.10	40.20
35	MAIN CORE WELDING	4	20.10	80.40
36	END CORE WELDING	4	20.10	20.10
37	BRACKET WELDING	1	20.10	20.10
38	BOSS WELDING	1	20.10	20.10
39	FULL WELDING	2	20.10	40.20
40	TUBE PIVOT TUBE BRACKET TACK WELDING	1	20.10	20.10
41	GUSSET TACK WELDING	1	20.10	20.10
42	GUSSET FULL WELDING	1	20.10	20.10
43	BORING MACHINE	1	12.00	12.00
44	SUB FRAME TACK WELDING	2	20.10	40.20
45	SUB FRAME FULL WELDING	2	20.10	40.20
46	HEAD TUBE WITH STEERING STOPPER TACK AND FULL WELDING	2	20.10	40.20
47	SEAT TUBE WITH BRACKET TACK AND FULL WELDING	2	20.10	40.20
48	TOP TUBE WITH EASHER TACK AND FULL WELDING	2	20.10	40.20
49	FRONT FRAME MANUAL WELDING	4	20.10	80.40
50	FRONT FRAME REVERSE WELDING	2	20.10	40.20
51	LINEAR WITH BUTTERFLY TACK AND FULL WELDING	2	20.10	40.20
52	GUSSET WITH PUSH ROTARY WELDING	2	20.10	40.20
53	SWING ARM RUSH ROTARY WELDING	2	20.10	40.20
54	SWING ARM & PFR ASSY ROBO BUILDING	2	20.10	40.20
55	MFR TACK AND FULL WELDING	2	20.10	40.20
56	SIDE TUBE ASSY ROBO RH CELL	4	20.10	80.40
57	SIDE TUBE RH TOUCH UP WELDING	4	20.10	80.40
58	SIDE TUBE ASSY ROBO LH CELL	4	20.10	80.40
59	FRONT FRAME GUSSET WELDING ROBO	4	20.10	80.40
60	FRONT FRAME ASSY BORING MACHINE	2	9.00	18.00
61	CENTER STAND STACK AND FULL WELDING	2	20.10	40.20
62	CHANNEL TUBE TACK AND FULL WELDING	2	20.10	40.20
63	JIG ASSEMBLY TACK WELDING	6	20.10	120.60
64	FRAME ASSY FULL WELDING	4	20.10	80.40
65	TOUCH UP WELDING	4	20.10	80.40
66	RETAPPING - PNEUMATIC	4	-	-
67	SWING ARM ASSY ROBO WELDING	1	20.10	20.10
68	LINEAR LOCK SEAMING SPM	1	7.00	7.00
69	END FLANGING SPM	1	4.00	4.00
70	HYDRAULIC PRESS 40 TON	1	15.00	15.00
71	END LOCK SEAMING SPM	2	7.00	14.00
72	LEAK TEST MACHINE	2	1.00	2.00
73	CORE TUBE TIG WELDING SPM	1	20.10	20.10
74	WELDING	5	20.10	100.50
75	CONSOLE ASSLY GUSSET WELDING	1	20.10	20.10
76	WELD BEAD CUTTING SPM	1	11.00	11.00
77	FULL BUFFING SPM	1	12.00	12.00
78	BELT GRINDING MACHINE	2	2.00	4.00
79	BELT GRINDING MACHINE DOUBLE END	2	5.00	10.00
80	MANUAL GRINDING MACHINE	1	5.00	5.00
81	MANUAL BUFFING MACHINE DOUBLE END	5	5.00	25.00
82	TOUCH UP WELDING MACHINE	1	20.10	20.10
83	ELGI SCREW COMPRESSOR 125 CFM	1	30.15	30.15
84	DRYER FOR ELG / SCREW COMPRESSOR	1	40.20	40.20
85	KAISER AIR COMPRESSOR 195 CFM	1	40.20	40.20
86	DRYER FOR KAESER SCREW COMPRESSOR	1	40.87	40.87
87	KAISER AIR COMPRESSOR 295 CFM	1	53.60	53.60
88	DRYER FOR KAISER SCREW COMPRESSOR	1	5.36	5.36
89	STP PLANT	1	7.50	7.50
90	GARDENING PUMP	1	5.00	5.00
91	GAS MIXTURE UNIT	1	5.00	5.00
92	STREET LIGHT FITTINGS	1	-	-
93	GATE LIGHTS	1	-	-
94	OPEN YARD AREA	1	-	-
95	COOLING TOWER FAN	1	5.00	5.00
96	WATER CIRCULATION PUMP	1	5.00	5.00
97	SERVER ROOM	1	-	-
98	UPS ROOM	1	-	-
99	AIR CONDITIONERS	1	93.80	93.80
100	LIGHTING AND OTHER LOAD	1	-	-
TOTAL			2968.79	

PLAN SHOWING THE REVISION FROM ALREADY APPROVED AND PROPOSED ADDITIONAL CONSTRUCTION OF INDUSTRIAL BUILDING FOR M/S.BELRISE INDUSTRIES IN SIPCOT LAYOUT LP/DD-DTCP(CR)NO.126/2020 PLOT NO H12 & H13 VALLAM VADAGAL SIPCOT INDUSTRIAL PARK IN SURVEY NO :43 Part & 44 Part OF VADAGAL 'A' VILLAGE, SRIPERUMBUDUR PANCHAYAT UNION & TALUK, KANCHEEPURAM DISTRICT.

MANUFACTURING OF (S.NO. 10) - "LIGHT ENGINEERING INDUSTRY EXCLUDING FABRICATION & FORGING, INDUSTRY CLASSIFIED AS "ORANGE", AS PER TNCDBR - 2019.

NOTE : ALL DIMENSIONS AREA IN METER

SPECIFICATION :

FOUNDATION : RCC 1:1/2/3 M25 Concrete Column footing Laid Over sand filling and PCC 1:4:8.

RCC WORK : All Column, Beams, Roof Slab, Lintel, & Sunshade are in CC 1:1/2:3(M-25)

BRICKWORK : B.W in Basement & Superstructure are in CM 1:5.

JOINERY : Joineries are made with Steel (or) first class teak wood.

WEATHERING : 9" x 9" Pressed Tiles laid over the Brick Jelly with Lime mortar and sloped with water proofing compound.

PLASTERING : Ceiling plastering with CM 1:3inside & Outside walls are plastering with CM 1:4.

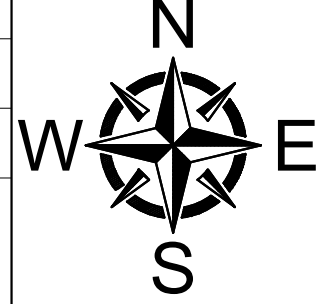
PAINTING : White washing with two coats over the one coat of primer for Ceiling Colour washing with two coats over one coat of primer for all Walls.

JOINERY SCHEDULE

RS	6.00 x 5.00	ROLLING SHUTTER
RS1	5.00 x 5.00	ROLLING SHUTTER
RS2	4.00 x 3.70	ROLLING SHUTTER
RS3	3.00 x 3.70	ROLLING SHUTTER
D1	0.90 x 2.40	DOOR
D2	0.75 x 2.40	DOOR
D3	1.50 x 2.40	DOOR
D4	1.80 x 2.40	DOOR
W	1.50 x 1.50	WINDOW
V	1.40 x 0.75	VENTILATOR
V1	0.75 x 0.75	VENTILATOR

COLOUR INDEX : REFERENCE :

EXISTING	SCALE : 1:200
PROPOSED	DATE : 12 FEB 2024
BOUNDARY	
ROAD	
DRIVEWAY	



MECHANICAL VENTILATION AND FIRE PROTECTION SYSTEM PROVIDED FOR ENTIRE BUILDING

APPLICANT :

[Signature]

ARCHITECT / REGISTERED ENGINEER :

[Signature]
B. Senthilkumar, M.E.(Structural)
Licenced Building Surveyor
Coimbatore LPA/RE/OR-1/19/03/13
17/12, V.C.S. Nagar
G.N. Mills Post, Coimbatore-641 029
Cell: 98658 52255

REGISTERED STRUCTURAL ENGINEER :

[Signature]
B. Senthilkumar, M.E.(Structural)
Licenced Building Surveyor
Coimbatore LPA/SE/GR-1/19/03/13
17/12, V.C.S. Nagar
G.N. Mills Post, Coimbatore-641 029
Cell: 98658 52255

PLAN SHOWING THE REVISION FROM ALREADY APPROVED AND PROPOSED ADDITIONAL CONSTRUCTION OF INDUSTRIAL BUILDING FOR M/S.BELRISE INDUSTRIES IN SIPCOT LAYOUT LP/DD-DTCP(CR)NO.126/2020 PLOT NO H12 & H13 VALLAM VADAGAL SIPCOT INDUSTRIAL PARK IN SURVEY NO :43 Part & 44 Part Of VADAGAL 'A' VILLAGE, SRIPERUMBUDUR PANCHAYAT UNION & TALUK, KANCHEEPURAM DISTRICT.

MANUFACTURING OF (S.NO. 10) - "LIGHT ENGINEERING INDUSTRY EXCLUDING FABRICATION & FORGING, INDUSTRY CLASSIFIED AS "ORANGE", AS PER TNCDBR - 2019.

NOTE : ALL DIMENSIONS AREA IN METER

SPECIFICATION :

FOUNDATION : RCC 1:11/2:3 M25 Concrete Column footing Laid Over sand filling and PCC 1:4:8.

RCC WORK : All Column, Beams, Roof Slab, Lintel, & Sunshade are in CC 1:11/2:3(M-25)

BRICKWORK : B.W in Basement & Superstructure are in CM 1:5.

JOINERY : Joineries are made with Steel (or) first class teak wood.

WEATHERING : 9" x 9" Pressed Tiles laid over the Brick Jelly with COURSE Lime mortar and sloped with water proofing compound.

PLASTERING : Ceiling plastering with CM 1:3inside & Outside walls are plastering with CM 1:4.

PAINTING : White washing with two coats over the one coat of primer for Ceiling.Colour washing with two coats over one coat of primer for all Walls.

JOINERY SCHEDULE

RS	6.00 x 5.00	ROLLING SHUTTER
RS1	5.00 x 5.00	ROLLING SHUTTER
RS2	4.00 x 3.70	ROLLING SHUTTER
RS3	3.00 x 3.70	ROLLING SHUTTER
D1	0.90 x 2.40	DOOR
D2	0.75 x 2.40	DOOR
D3	1.50 x 2.40	DOOR
D4	1.80 x 2.40	DOOR
W	1.50 x 1.50	WINDOW
V	1.40 x 0.75	VENTILATOR
V1	0.75 x 0.75	VENTILATOR

COLOUR INDEX :

EXISTING	SCALE : 1:200	
PROPOSED	DATE : 12 FEB 2024	
BOUNDARY		
ROAD		
DRIVEWAY		

MECHANICAL VENTILATION AND FIRE PROTECTION SYSTEM PROVIDED FOR ENTIRE BUILDING

APPLICANT :

ARCHITECT / REGISTERED ENGINEER :

B. SENTHILKUMAR, M.E.(Structural)
Licenced Building Surveyor
Coimbatore LPA/RE/GR-1/19/03/13
17/12, V.C.S. Nagar
G.N. Mills Post, Coimbatore-641 029
Cell: 98658 52255

REGISTERED STRUCTURAL ENGINEER :

B. SENTHILKUMAR, M.E.(Structural)
Licenced Building Surveyor
Coimbatore LPA/SE/GR-1/19/03/13
17/12, V.C.S. Nagar
G.N. Mills Post, Coimbatore-641 029
Cell: 98658 52255

MAIN BUILDING - 2

MACHINERY HP DETAILS:

Sl No.	DESCRIPTION	QTY	H.P	TOTAL HP
01	50 TON POWER PRESS	2	6.75	13.50
02	75 TON POWER PRESS	1	10.50	10.50
03	150 TON POWER PRESS	1	20.50	20.50
04	200 TON POWER PRESS	2	27.40	54.80
05	250 TON HYDRAULIC POWER PRESS	1	20.00	20.00
06	250 TON POWER PRESS	2	34.00	68.00
07	300 TON POWER PRESS	1	40.50	40.50
08	400 TON POWER PRESS	1	54.50	54.50
09	COIL FEEDER	6	3.00	18.00
10	SHEARING MACHINE HYD 8 X 2500MM	1	20.00	20.00
11	EOT CRANE 10 T	1	10.00	10.00
12	BATTERY CHARGING STATION	1	4.69	4.69
13	LATHE MACHINE	1	5.00	5.00
14	RADIAL DRILLING MACHINE - D50	1	5.00	5.00
15	MILLING MACHINE	1	7.00	7.00
16	SURFACE GRINDER	1	4.00	4.00
17	CNC PIPE BENDING MACHINE	2	20.10	40.20
18	SIDE TUBE WASHERC TIG WELDING	1	41.70	41.70
19	SIDE TUBE NOTCHING	1	15.00	15.00
20	SPM DRILLING	4	4.50	18.00
21	NOTCHING	3	15.00	45.00
22	MAIN CORE WELDING M/C	4	22.34	89.36
23	BODY SHEET ROLLING SPM	2	8.00	16.00
24	TIG WELDING SPM	2	17.42	34.84
25	LUG CUTTING SPM	2	1.00	2.00
26	SIZING SPM	2	7.50	15.00
27	NECKING SPM	1	5.00	5.00
28	END CORE WELDING	1	22.34	22.34
29	STUFFING SPM	2	5.00	5.00
30	SPM CUP SETTING+WELDING(PROPOSED)	2	22.34	44.68
31	SILENCER ROTARY WELDING SPM	2	5.00	10.00
32	BRACKET WELDING	1	22.30	22.30
33	BOSS WELDING	1	22.30	22.30
34	FULL WELDING	1	20.10	40.20
35	MAIN CORE WELDING	4	20.10	80.40
36	END CORE WELDING	4	20.10	20.10
37	BRACKET WELDING	1	20.10	20.10
38	BOSS WELDING	1	20.10	20.10
39	FULL WELDING	2	20.10	40.20
40	TUBE PIVOT TUBE BRACKET TACK WELDING	1	20.10	20.10
41	GUSSET TACK WELDING	1	20.10	20.10
42	GUSSET FULL WELDING	1	20.10	20.10
43	BORING MACHINE	1	12.00	12.00
44	SUB FRAME TACK WELDING	2	20.10	40.20
45	SUB FRAME FULL WELDING	2	20.10	40.20
46	HEAD TUBE WITH STEERING STOPPER TACK AND FULL WELDING	2	20.10	40.20
47	SEAT TUBE WITH BRACKET TACK AND FULL WELDING	2	20.10	40.20
48	TOP TUBE WITH EASHER TACK AND FULL WELDING	2	20.10	40.20
49	FRONT FRAME MANUAL WELDING	4	20.10	80.40
50	FRONT FRAME REVERSE WELDING	2	20.10	40.20
51	LINEAR WITH BUTTERFLY TACK AND FULL WELDING	2	20.10	40.20
52	GUSSET WITH PUSH ROTARY WELDING	2	20.10	40.20
53	SWING ARM BUSH ROTARY WELDING	2	20.10	40.20
54	SWING ARM & PFR ASSY ROBO BUILDING	2	20.10	40.20
55	MFR TACK AND FULL WELDING	2	20.10	40.20
56	SIDE TUBE ASSY ROBO RH CELL	4	20.10	80.40
57	SIDE TUBE RH TOUCH UP WELDING	4	20.10	80.40
58	SIDE TUBE ASSY ROBO LH CELL	4	20.10	80.40
59	FRONT FRAME GUSSET WELDING ROBO	4	20.10	80.40
60	FRONT FRAME ASSY. BORING MACHINE	2	9.00	18.00
61	CENTER STAND STACK AND FULL WELDING	2	20.10	40.20
62	CHANNEL TUBE TACK AND FULL WELDING	2	20.10	40.20
63	JIG ASSEMBLY TACK WELDING	6	20.10	120.60
64	FRAME ASSY FULL WELDING	4	20.10	80.40
65	TOUCH UP WELDING	4	20.10	80.40
66	RETAPPING - PNEUMATIC	4	-	-
67	SWING ARM ASSY ROBO WELDING	1	20.10	20.10
68	LINEAR LOCK SEAMING SPM	1	7.00	7.00
69	END FLANGING SPM	1	4.00	4.00
70	HYDRAULIC PRESS 40 TON	1	15.00	15.00
71	END LOCK SEAMING SPM	2	7.00	14.00
72	LEAK TEST MACHINE	2	1.00	2.00
73	CORE TUBE TIG WELDING SPM	1	20.10	20.10
74	WELDING	5	20.10	100.50
75	CONSOLE ASSLY GUSSET WELDING	1	20.10	20.10
76	WELD BEAD CUTTING SPM	1	11.00	11.00
77	FULL BUFFING SPM	1	12.00	12.00
78	BELT GRINDING MACHINE	2	2.00	4.00
79	BELT GRINDING MACHINE DOUBLE END	2	5.00	10.00
80	MANUAL GRINDING MACHINE	1	5.00	5.00
81	MANUAL BUFFING MACHINE DOUBLE END	5	5.00	25.00
82	TOUCH UP WELDING MACHINE	1	20.10	20.10
83	ELGI SCREW COMPRESSOR 125 CFM	1	30.15	30.15
84	DRYER FOR ELGI SCREW COMPRESSOR	1	40.20	40.20
85	KAISER AIR COMPRESSOR 195 CFM	1	40.20	40.20
86	DRYER FOR KAISER SCREW COMPRESSOR	1	40.87	40.87
87	KAISER AIR COMPRESSOR 295 CFM	1	53.60	53.60
88	DRYER FOR KAISER SCREW COMPRESSOR	1	5.36	5.36
89	STP PLANT	1	7.50	7.50
90	GARDENING PUMP	1	5.00	5.00
91	GAS MIXTURE UNIT	1	5.00	5.00
92	STREET LIGHT FITTINGS	1	-	-
93	GATE LIGHTS	1	-	-
94	OPEN YARD AREA	1	-	-
95	COOLING TOWER FAN	1	5.00	5.00
96	WATER CIRCULATION PUMP	1	5.00	5.00
97	SERVER ROOM	1	-	-
98	UPS ROOM	1	-	-
99	AIR CONDITIONERS	1	93.80	93.80
100	LIGHTING AND OTHER LOAD	1	-	-
TOTAL				2968.79

MEZZANINE FLOOR PLAN

SECTION - BB

PLAN SHOWING THE REVISION FROM ALREADY APPROVED AND PROPOSED ADDITIONAL CONSTRUCTION OF INDUSTRIAL BUILDING FOR M/S.BELRISE INDUSTRIES IN SIPCOT LAYOUT LP/DD-DTCP(CR)NO.126/2020 PLOT NO H12 & H13 VALLAM VADAGAL SIPCOT INDUSTRIAL PARK IN SURVEY NO :43 Part & 44 Part Of VADAGAL 'A' VILLAGE, SRIPERUMBUDUR PANCHAYAT UNION & TALUK, KANCHEEPURAM DISTRICT.

MANUFACTURING OF (S.NO. 10) - "LIGHT ENGINEERING INDUSTRY EXCLUDING FABRICATION & FORGING, INDUSTRY CLASSIFIED AS "ORANGE", AS PER TNCDBR - 2019.

NOTE : ALL DIMENSIONS AREA IN METER

SPECIFICATION :

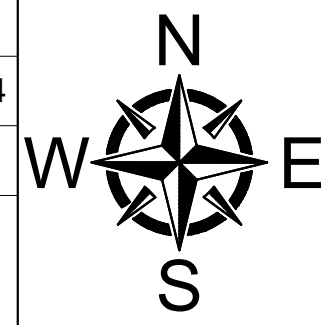
- FOUNDATION : RCC 1:11/2:3 M25 Concrete Column footing Laid Over sand filling and PCC 1:4:8.
- RCC WORK : All Column, Beams, Roof Slab, Lintel, & Sunshade are in CC 1:11/2:3(M-25)
- BRICKWORK : B.W in Basement & Superstructure are in CM 1:5.
- JOINERY : Joineries are made with Steel (or) first class teak wood.
- WEATHERING : 9" x 9" Pressed Tiles laid over the Brick Jelly with Lime mortar and sloped with water proofing compound.
- PLASTERING : Ceiling plastering with CM 1:3Inside & Outside walls are plastering with CM 1:4.
- PAINTING : White washing with two coats over the one coat of primer for Ceiling.Colour washing with two coats over one coat of primer for all Walls.

JOINERY SCHEDULE

RS	6.00 x 5.00	ROLLING SHUTTER
RS1	5.00 x 5.00	ROLLING SHUTTER
RS2	4.00 x 3.70	ROLLING SHUTTER
RS3	3.00 x 3.70	ROLLING SHUTTER
D1	0.90 x 2.40	DOOR
D2	0.75 x 2.40	DOOR
D3	1.50 x 2.40	DOOR
D4	1.80 x 2.40	DOOR
W	1.50 x 1.50	WINDOW
V	1.40 x 0.75	VENTILATOR
V1	0.75 x 0.75	VENTILATOR

COLOUR INDEX :

EXISTING	☐	SCALE : 1:200
PROPOSED	☐	DATE : 12 FEB 2024
BOUNDARY	☐	
ROAD	☐	
DRIVEWAY	☐	



MECHANICAL VENTILATION AND FIRE PROTECTION SYSTEM PROVIDED FOR ENTIRE BUILDING

APPLICANT :

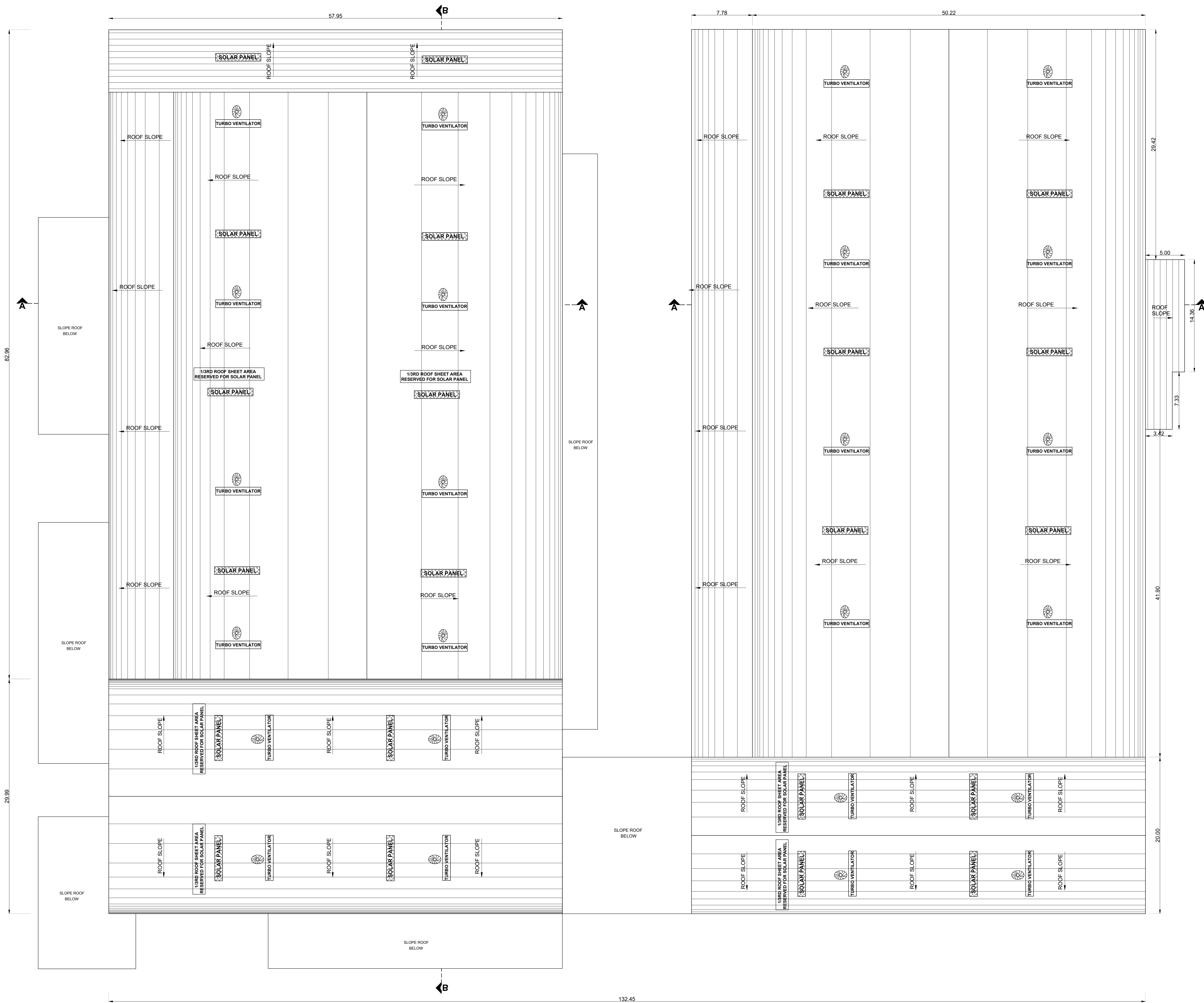
[Signature]

ARCHITECT / REGISTERED ENGINEER :

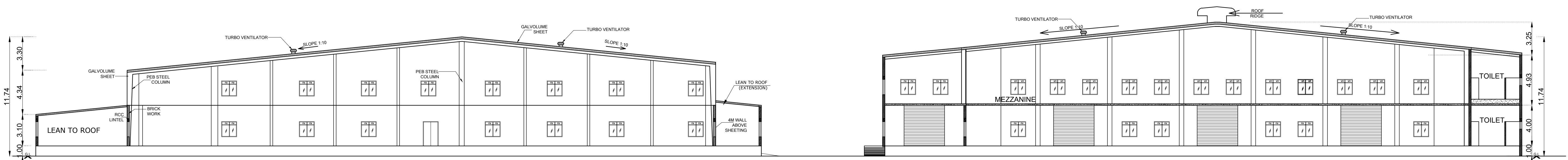
[Signature]
B. SENTHILKUMAR, M.E.(Structural)
Licenced Building Surveyor
Coimbatore LPA/RE/GR-1/19/03/13
17/12, V.C.S. Nagar
G.N. Mills Post, Coimbatore-641 029
Cell: 98658 52255

REGISTERED STRUCTURAL ENGINEER :

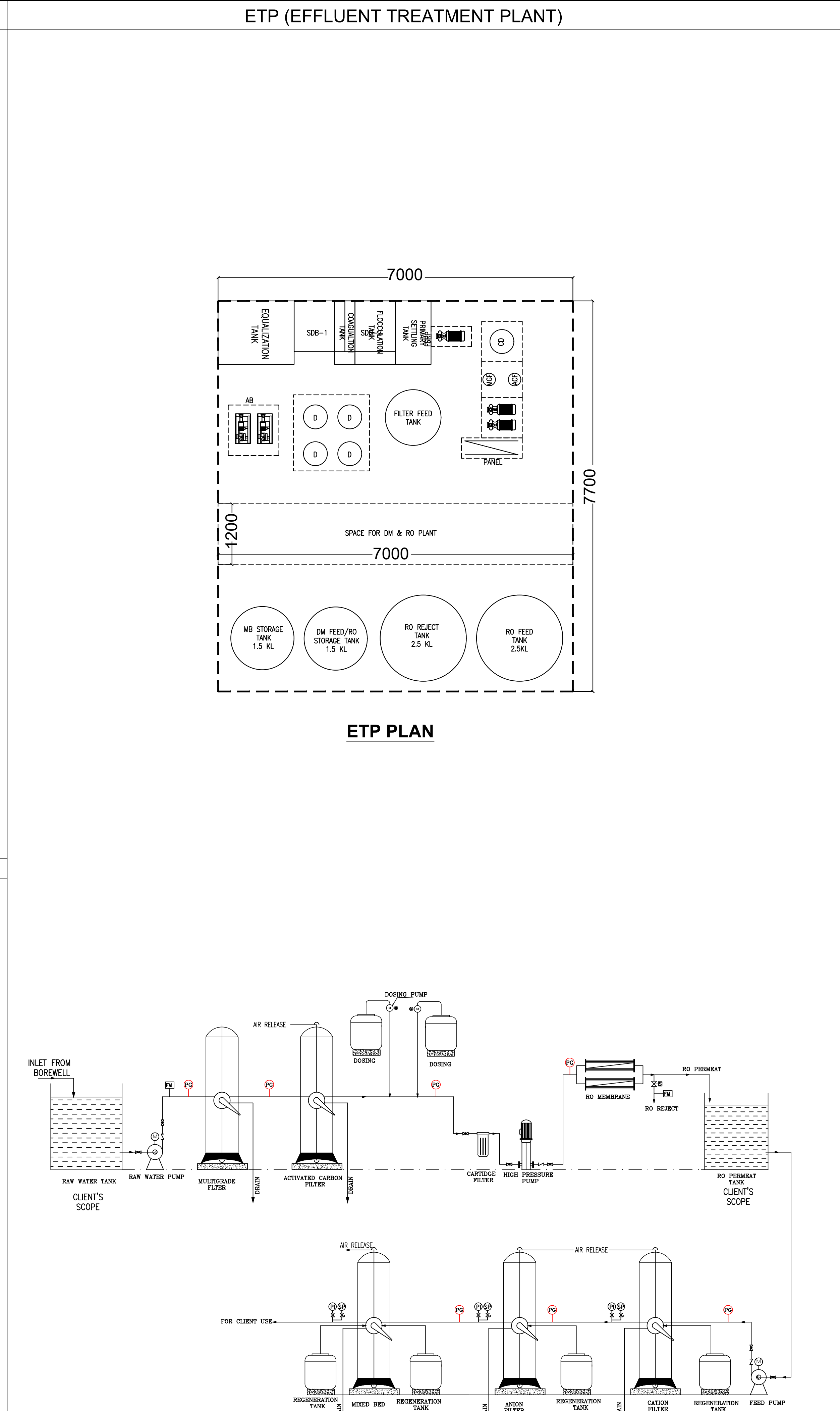
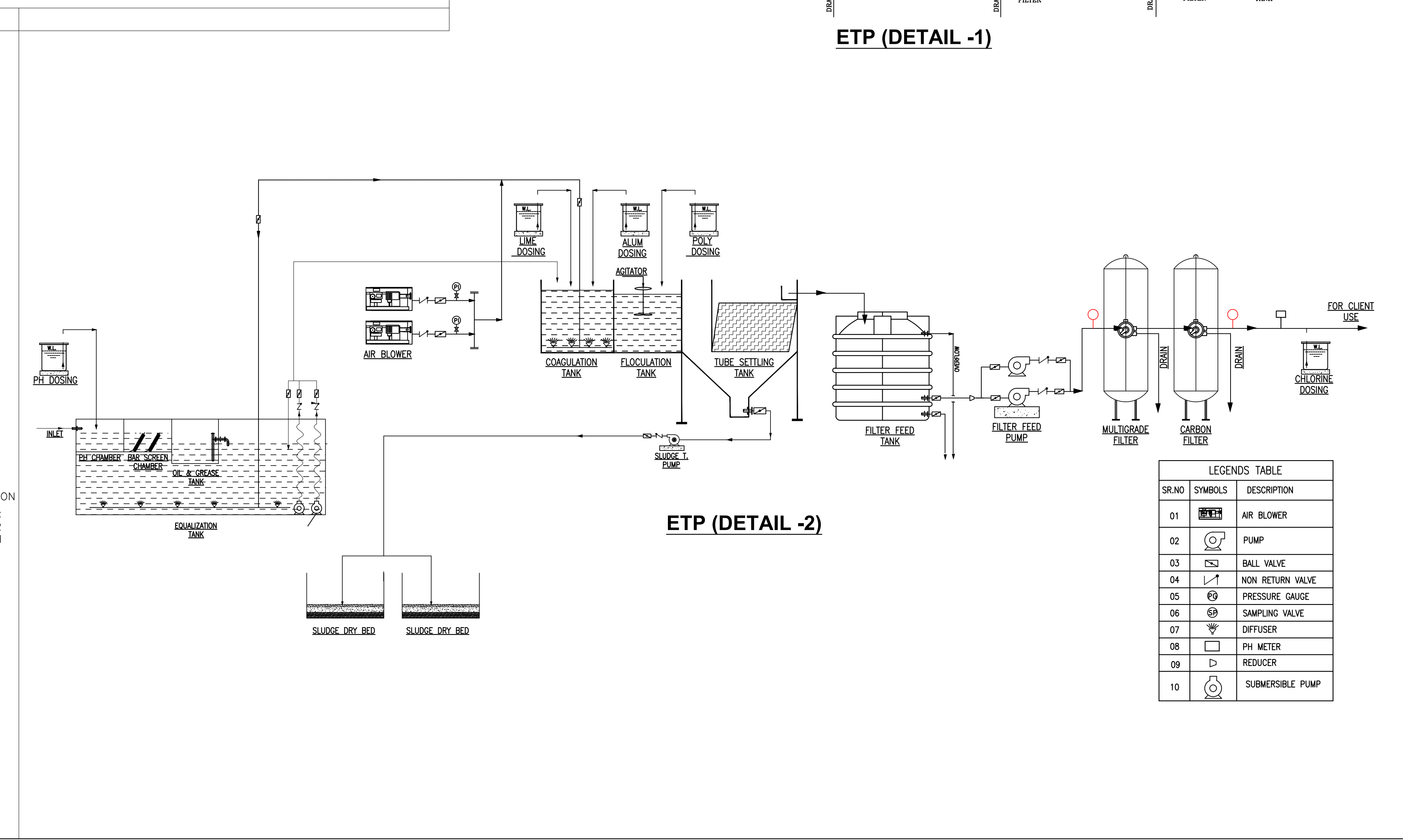
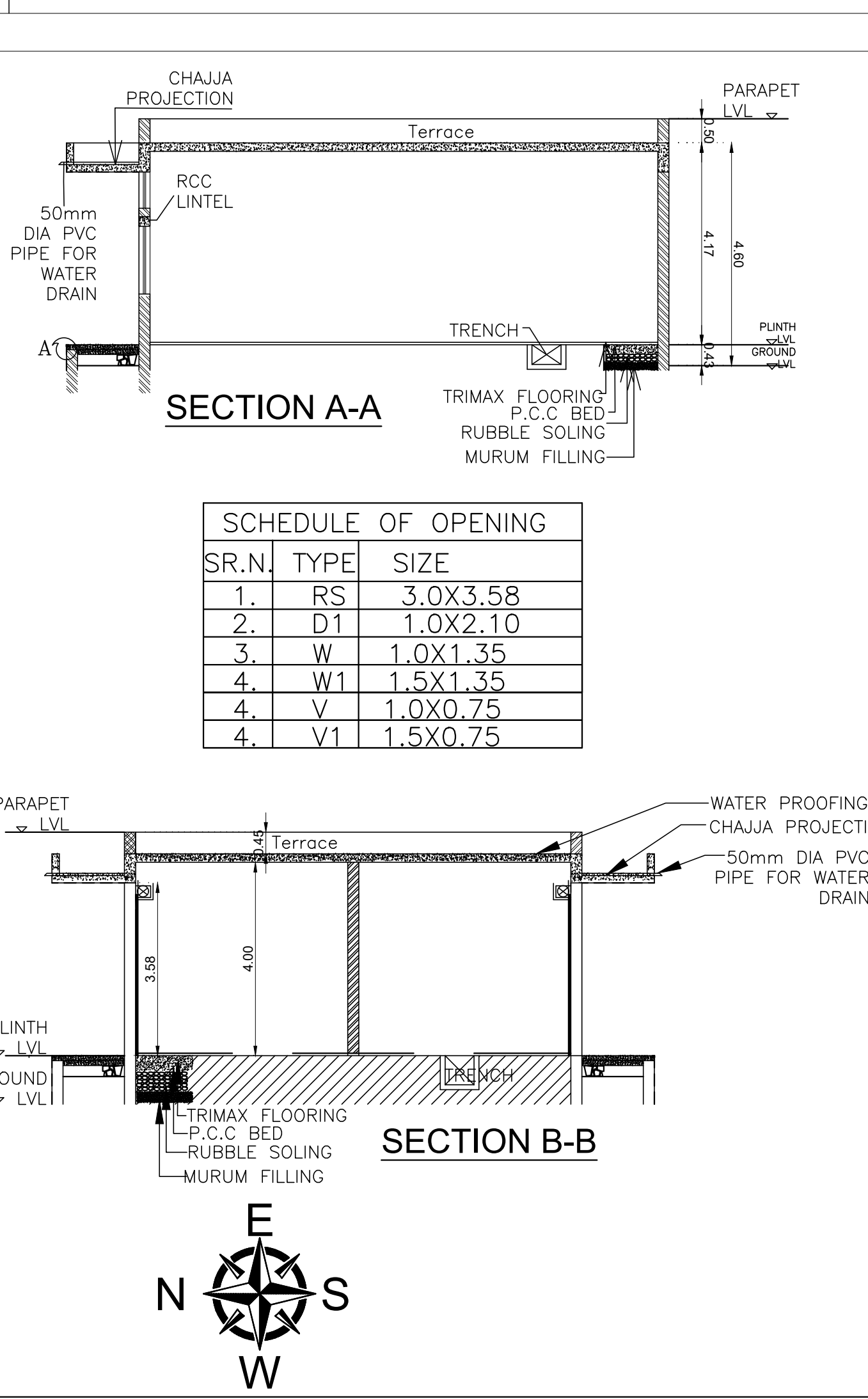
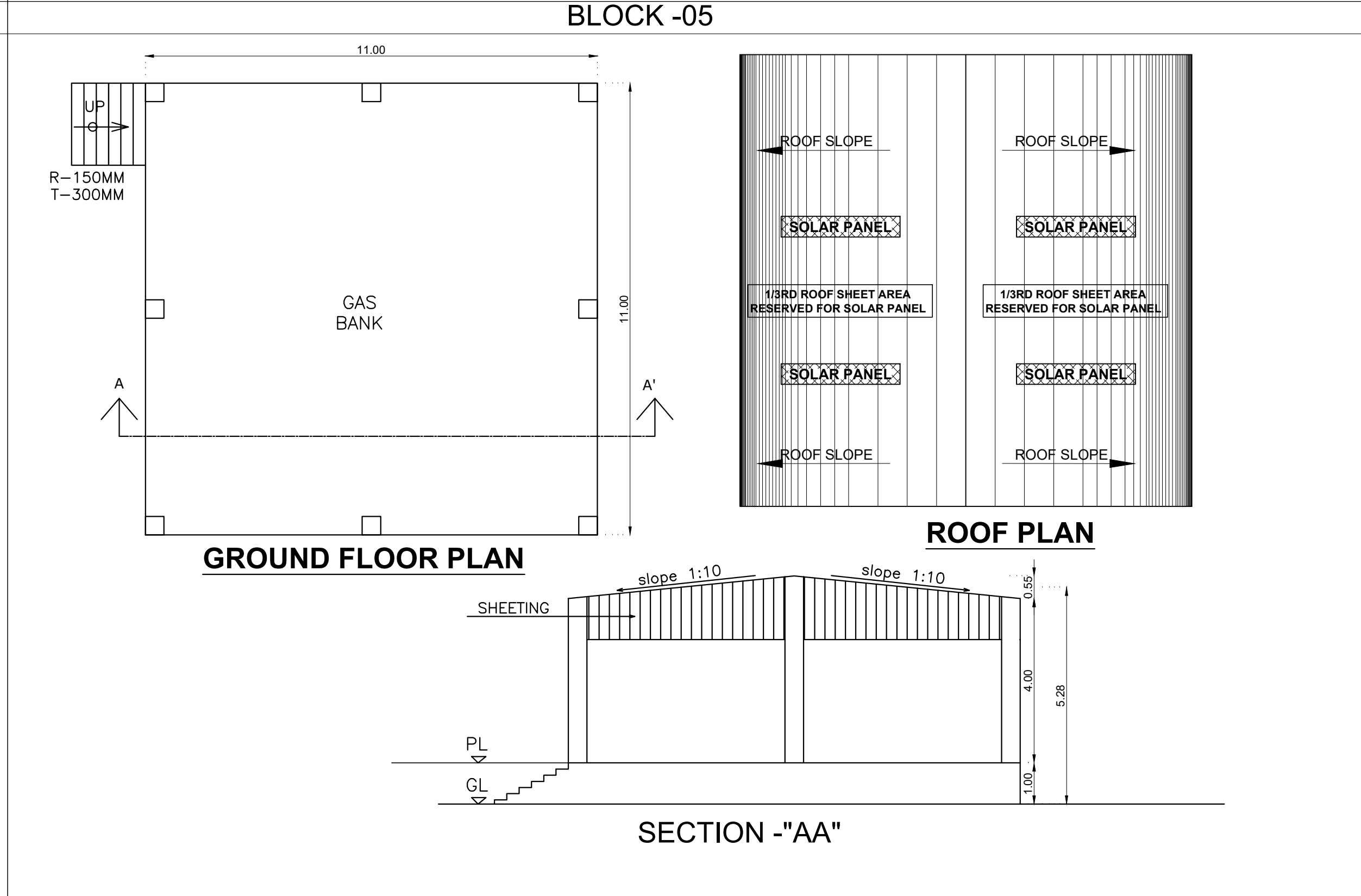
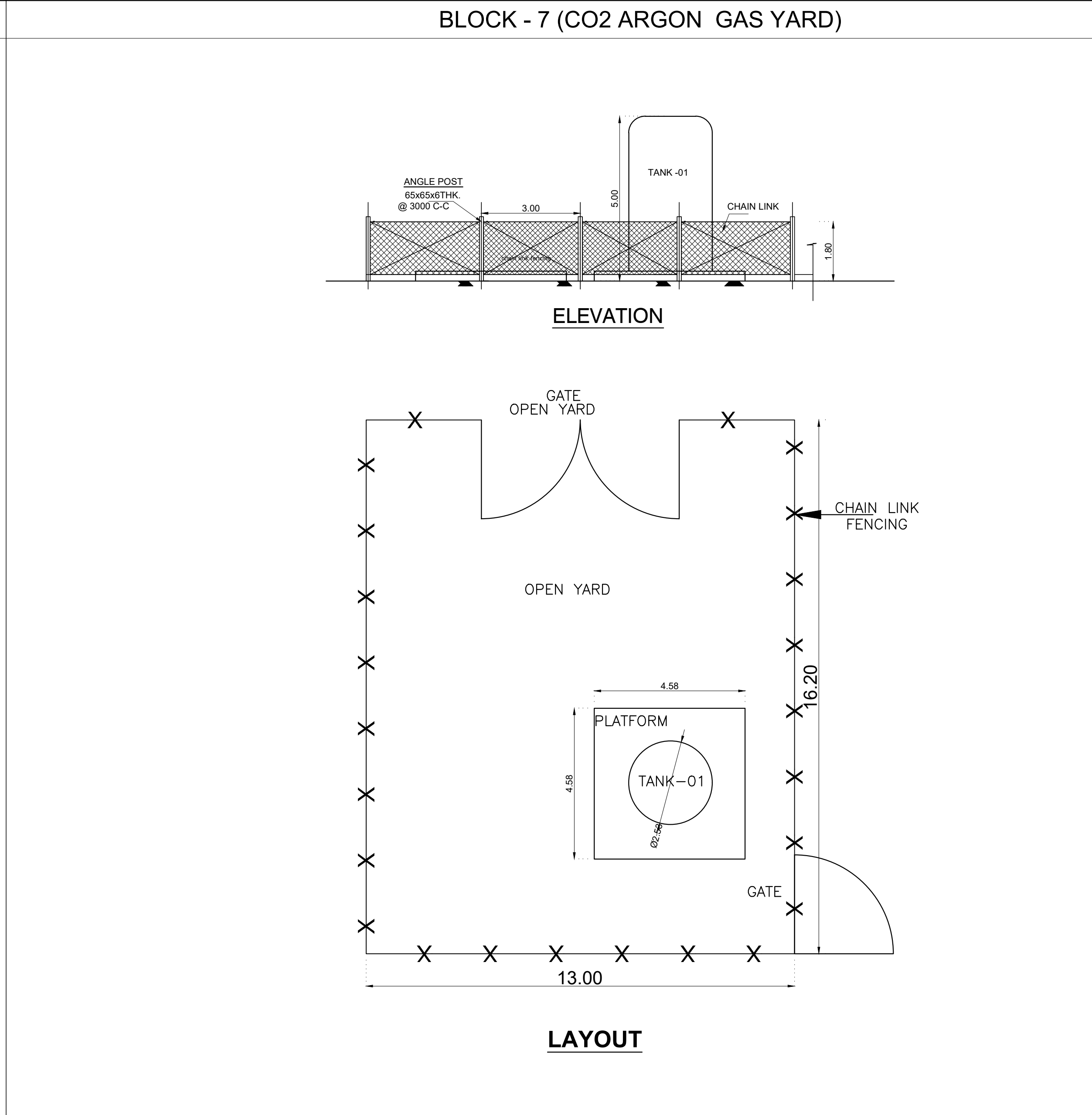
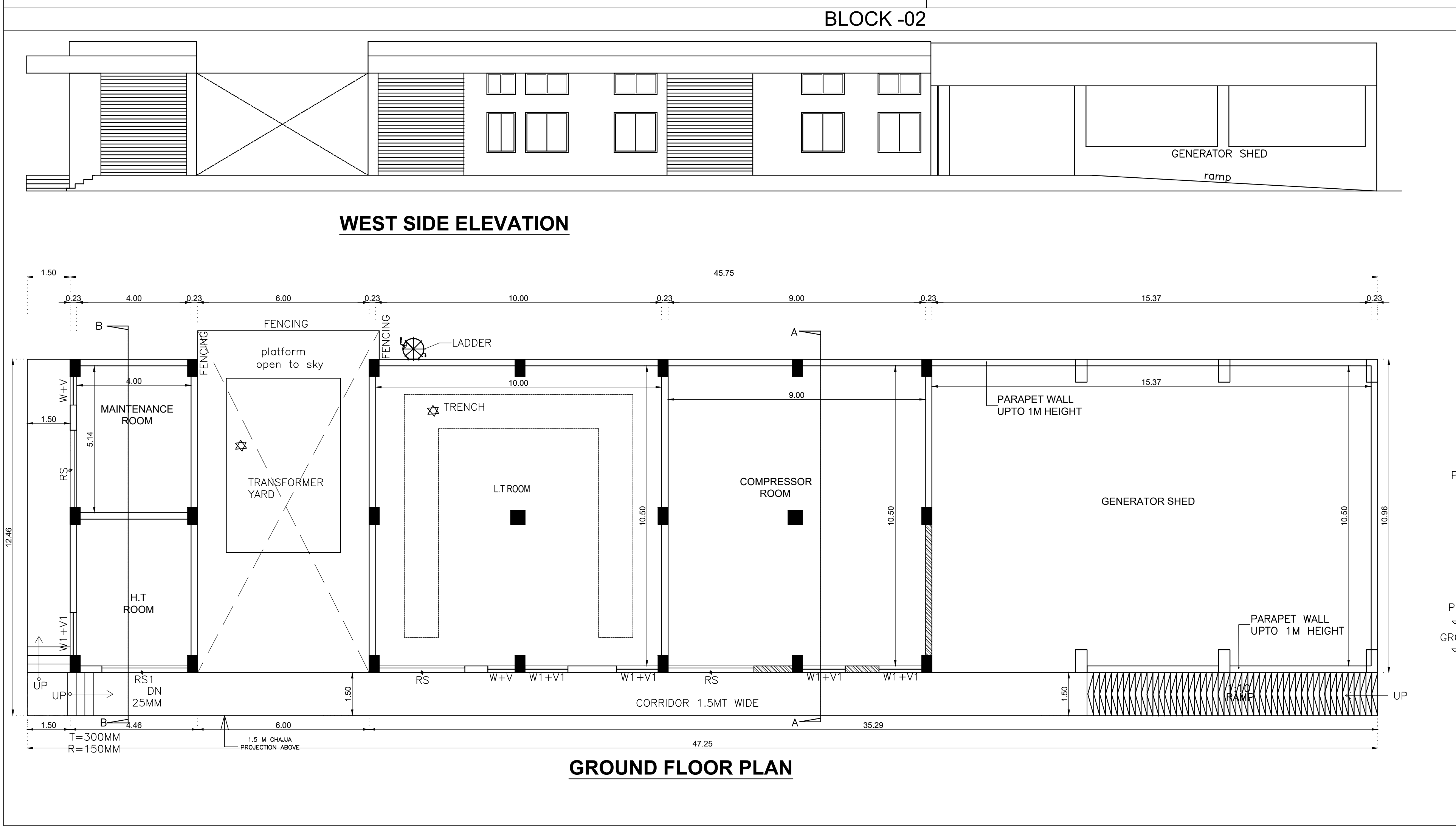
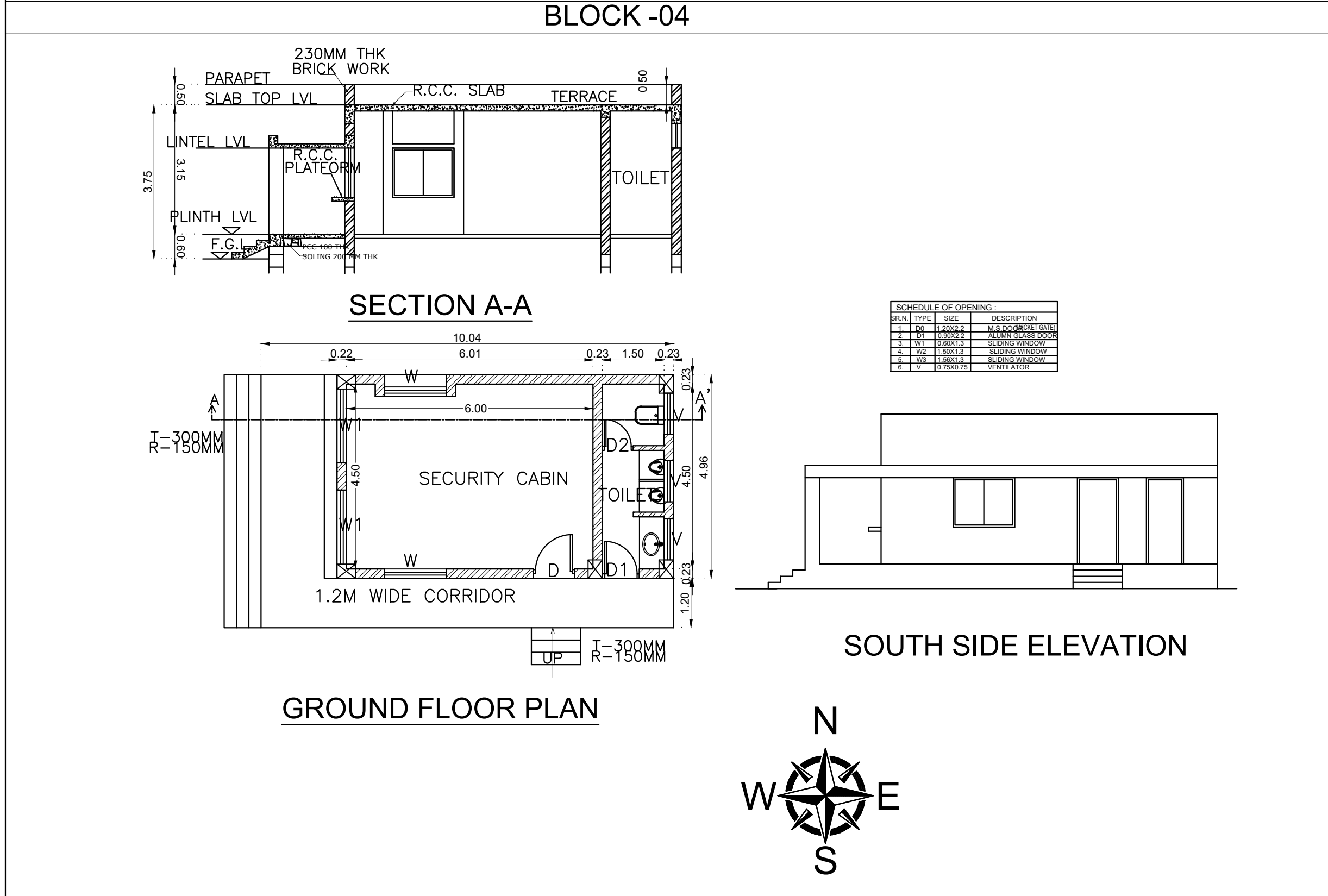
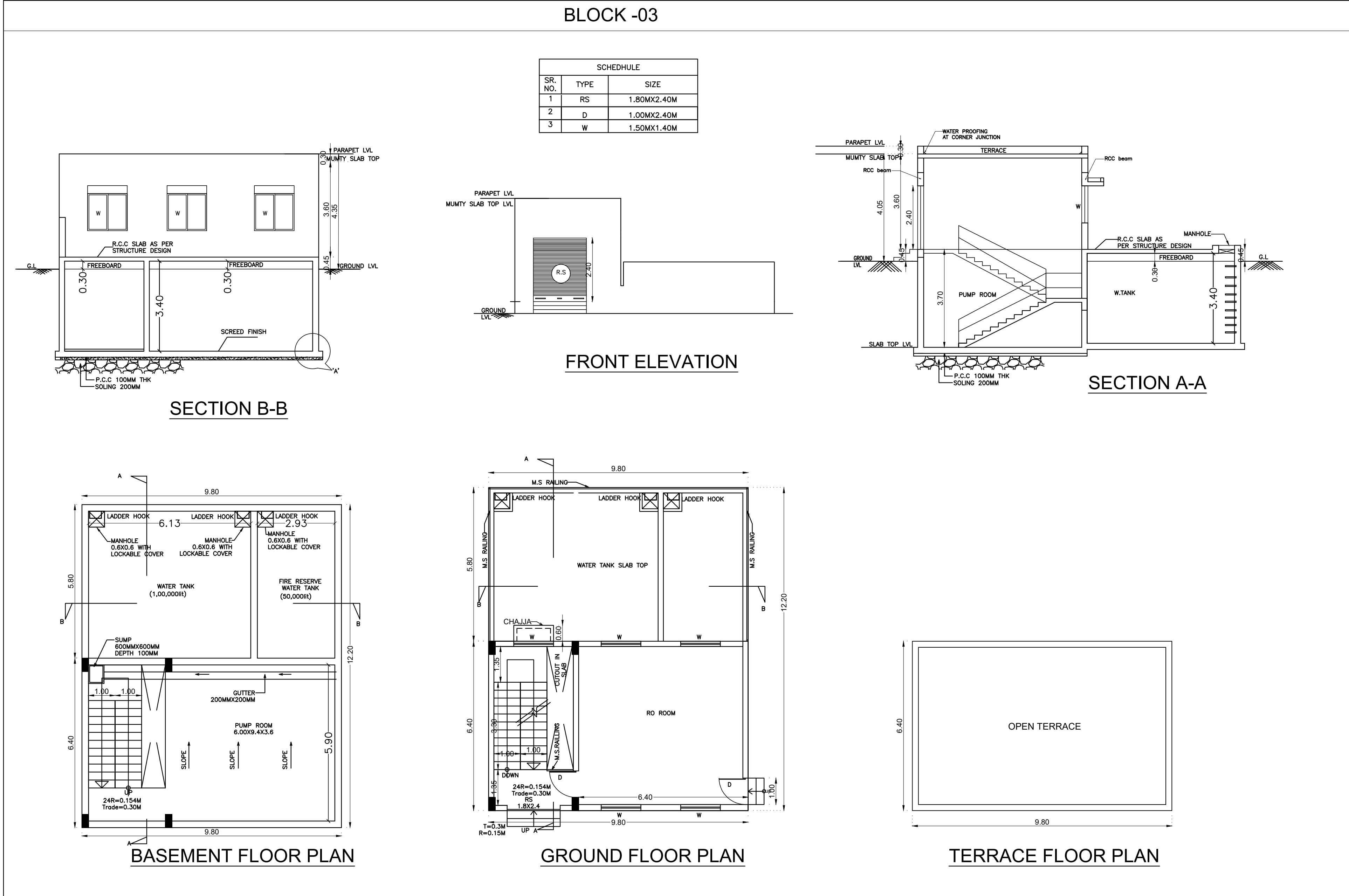
[Signature]
B. SENTHILKUMAR, M.E.(Structural)
Licenced Building Surveyor
Coimbatore LPA/SE/GR-1/19/03/13
17/12, V.C.S. Nagar
G.N. Mills Post, Coimbatore-641 029
Cell: 98658 52255



ROOF PLAN



SECTION - AA



SHEET NO: 04 / 05

PLAN SHOWING THE REVISION FROM ALREADY APPROVED AND PROPOSED ADDITIONAL CONSTRUCTION OF INDUSTRIAL BUILDING FOR M/S.BELRISE INDUSTRIES IN SIPCOT LAYOUT LP/DD-DTCP(CR)NO.126/2020 PLOT NO.H12 & H13 VALLAM VADAGAL SIPCOT INDUSTRIAL PARK IN SURVEY NO -43 Part & 44 Part OF VADAGAL 'A' VILLAGE, SRIPERUMBUDUR PANCHAYAT UNION & TALUK, KANCHEEPURAM DISTRICT.

MANUFACTURING OF (S.NO. 10) - "LIGHT ENGINEERING INDUSTRY EXCLUDING FABRICATION & FORGING, INDUSTRY CLASSIFIED AS "ORANGE", AS PER TNCDBR - 2019.

NOTE : ALL DIMENSIONS AREA IN METER

SPECIFICATION :

FOUNDATION : RCC 1:11/2:3 M25 Concrete Column footing Laid Over sand filling and PCC 1:4:8.

RCC WORK : All Column, Beams, Roof Slab, Lintel & Sunshade are in CC 1:11/2:3(M-25)

BRICKWORK : B.W in Basement & Superstructure are in CM 1:5.

JOINERY : Joineries are made with Steel (or) first class teak wood.

WEATHERING COURSE : 9" x 9" Pressed Tiles laid over the Brick Jelly with Lime mortar and sloped with water proofing compound.

PLASTERING : Ceiling plastering with CM 1:3Inside & Outside walls are plastering with CM 1:4.

PAINTING : White washing with two coats over the one coat of primer for Ceiling.Colour washing with two coats over one coat of primer for all Walls.

COLOUR INDEX :		REFERENCE :
EXISTING	☐	SCALE : 1:200
PROPOSED	☐	DATE : 12 FEB 2024
BOUNDARY	☐	
ROAD	☐	
DRIVEWAY	☐	

MECHANICAL VENTILATION AND FIRE PROTECTION SYSTEM PROVIDED FOR ENTIRE BUILDING

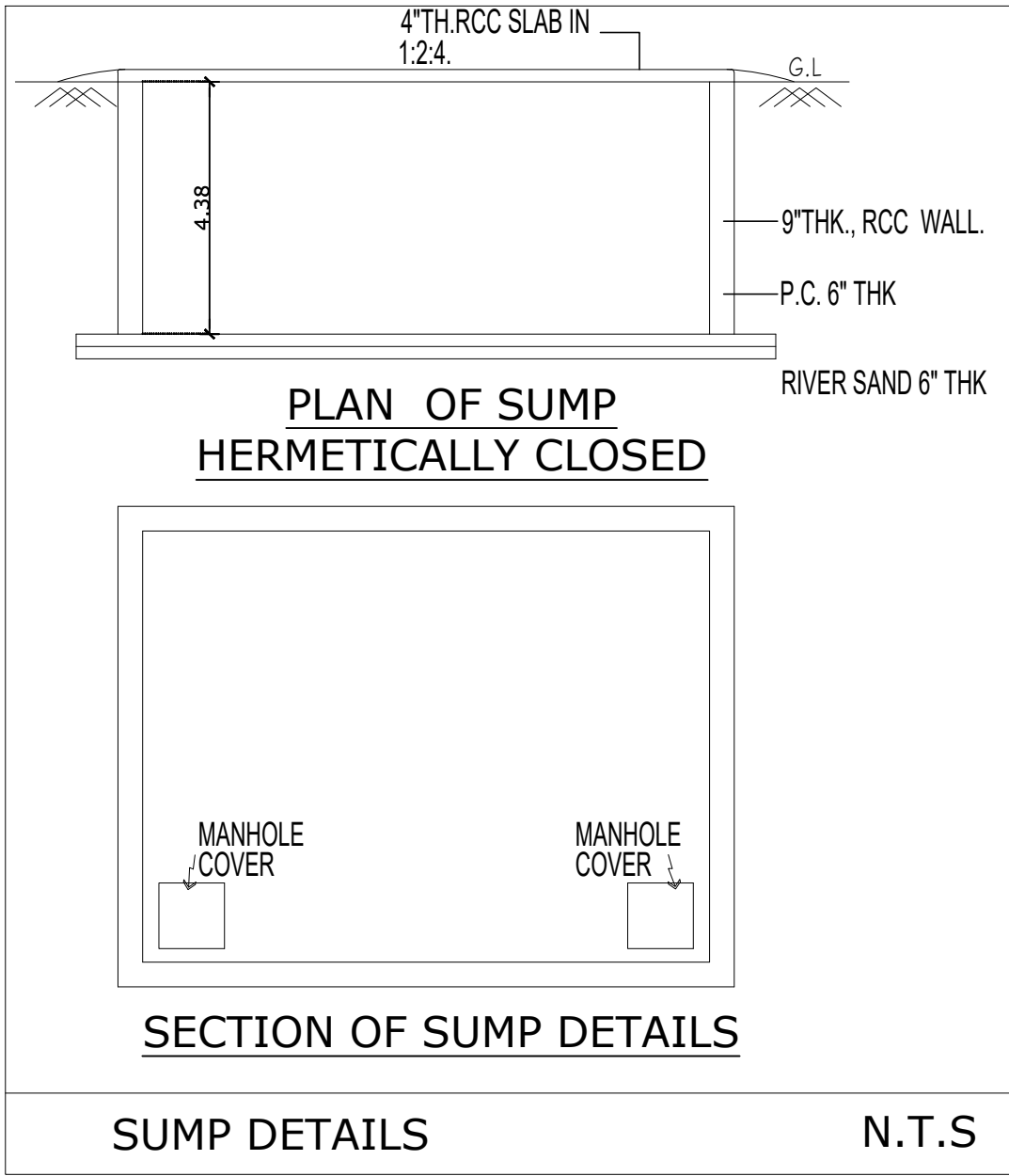
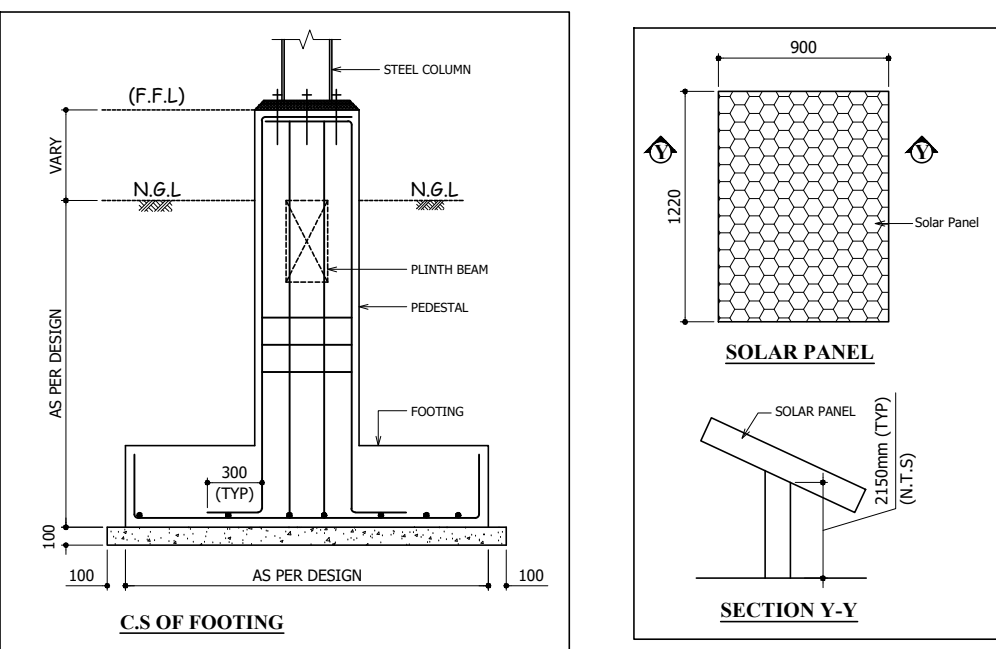
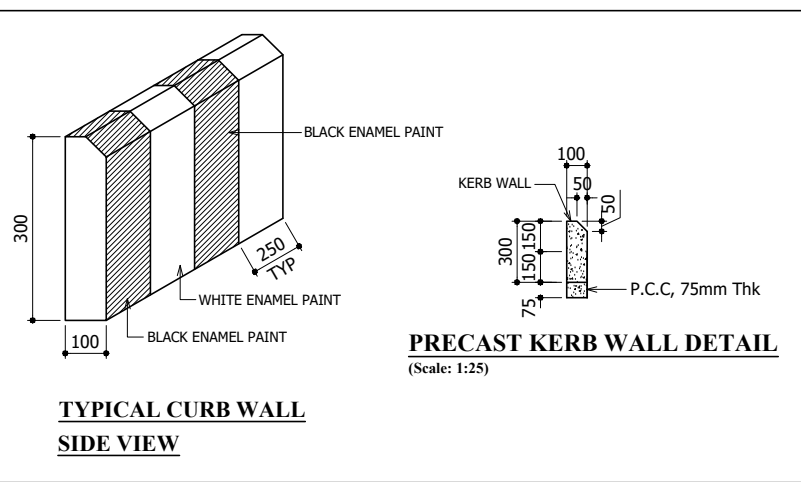
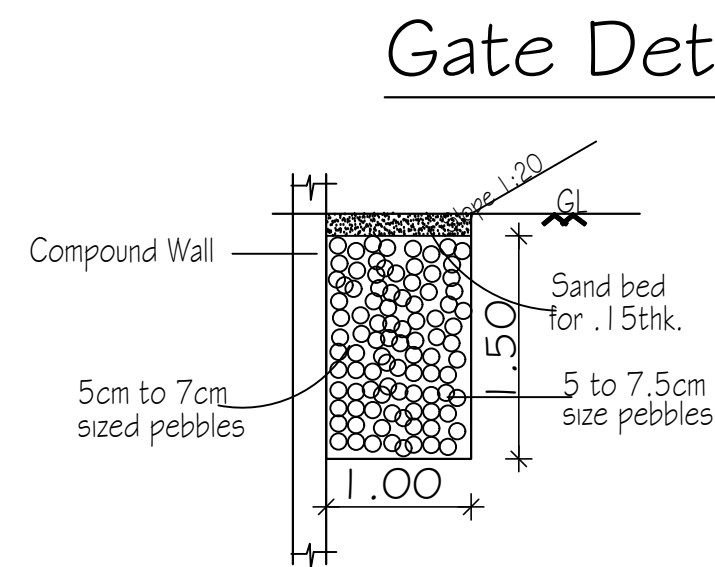
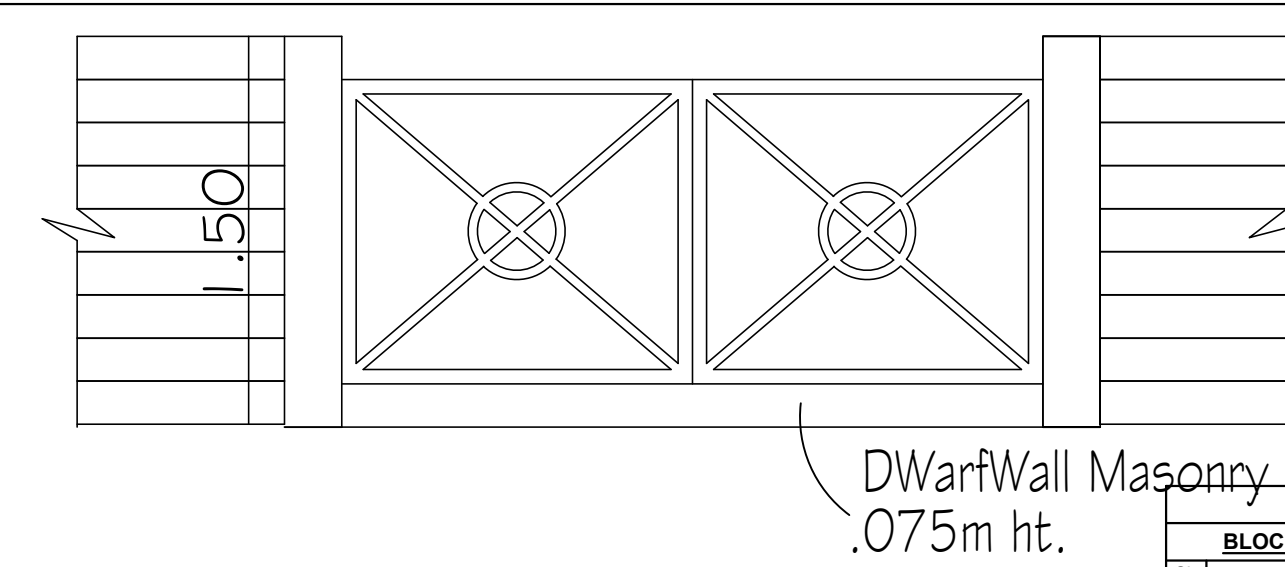
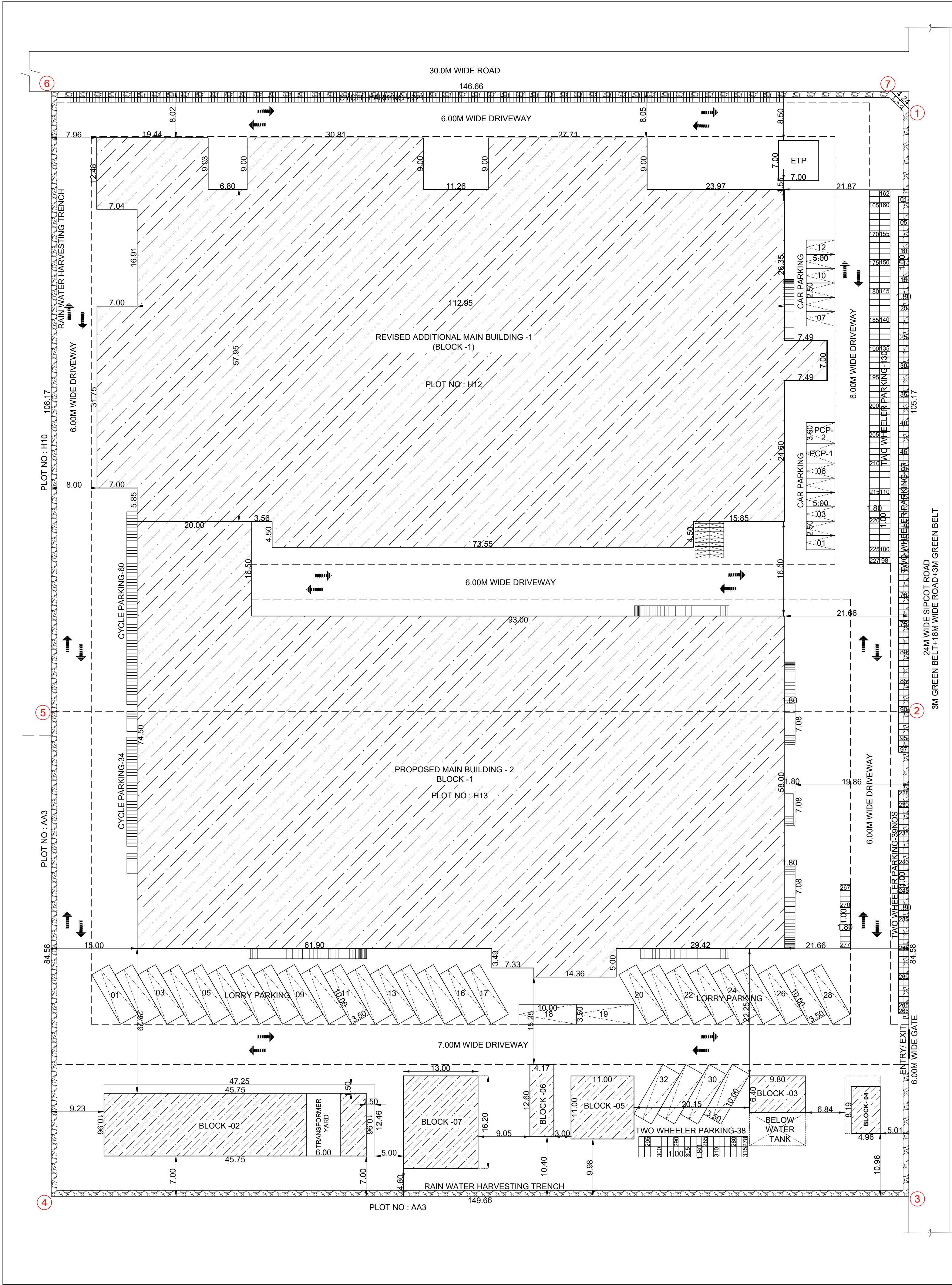
APPLICANT :

ARCHITECT / REGISTERED ENGINEER :

B. Senthilkumar, M.E.(Structural)
Licenced Building Surveyor
Coimbatore LPA/RE/GR-I/19/03/13
17/12, V.C.S. Nagar
G.N. Mills Post, Coimbatore-641 029
Cell: 98658 52255

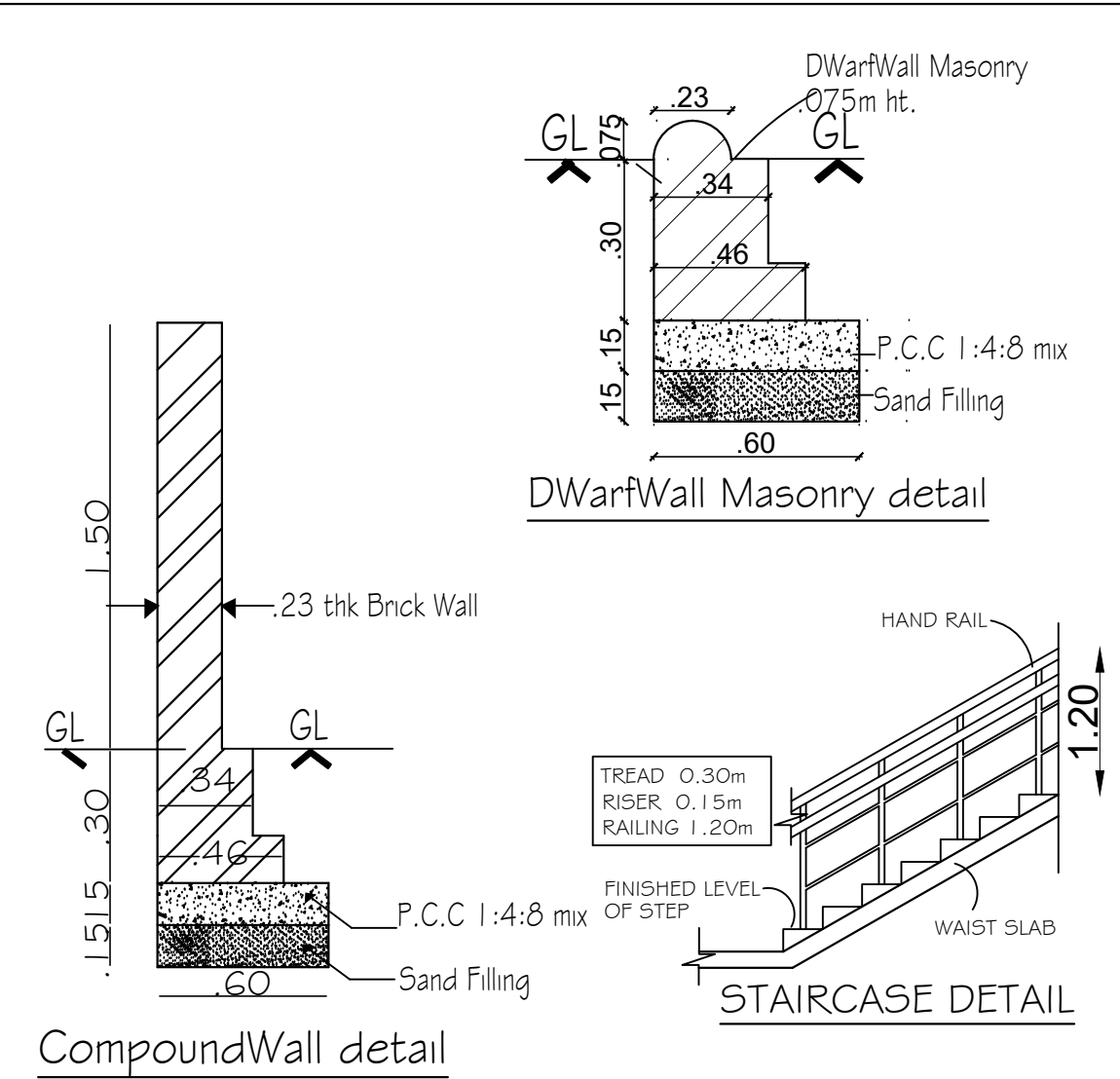
REGISTERED STRUCTURAL ENGINEER :

B. Senthilkumar, M.E.(Structural)
Licenced Building Surveyor
Coimbatore LPA/SE/GR-I/19/03/13
17/12, V.C.S. Nagar
G.N. Mills Post, Coimbatore-641 029
Cell: 98658 52255



MAIN BUILDING - 1				
BLOCK - 1 (REVISED) - MACHINERY HP DETAILS:				
Sl. No.	DESCRIPTION	QTY	H.P	TOTAL HP
01	50 TON POWER PRESS	2	6.75	13.50
02	75 TON POWER PRESS	1	10.50	10.50
03	150 TON POWER PRESS	1	20.50	20.50
04	200 TON POWER PRESS	2	27.40	54.80
05	250 TON HYDRAULIC POWER PRESS	1	20.00	20.00
06	250 TON POWER PRESS	2	34.00	68.00
07	300 TON POWER PRESS	1	40.50	40.50
08	400 TON POWER PRESS	1	54.50	54.50
09	COIL FEEDER	6	3.00	18.00
10	SHEDDING MACHINE HYD 8 X 2500MM	1	20.00	20.00
11	ECOT CRANE 10 T	1	10.00	10.00
12	BATTERY CHARGING STATION	1	4.00	4.00
13	LATHE MACHINE	1	5.00	5.00
14	RADIAL DRILLING MACHINE - D50	1	5.00	5.00
15	MILLING MACHINE	1	7.00	7.00
16	SURFACE GRINDER	1	4.00	4.00
17	CNC PIPE BENDING MACHINE	2	20.10	40.20
18	SIDE TUBE WASHER TIG WELDING	1	11.70	11.70
19	SIDE TUBE NOTCHING	1	15.00	15.00
20	SPM DRILLING	4	4.50	18.00
21	NOTCHING	3	15.00	45.00
22	MAIN CORE WELDING MC	4	22.34	89.36
23	BODY SHEET ROLLING SPM	2	8.00	16.00
24	TIG WELDING SPM	2	17.42	34.84
25	LUG CUTTING SPM	2	1.00	2.00
26	SIZING SPM	2	7.50	15.00
27	NECKING SPM	1	5.00	5.00
28	END CORE WELDING	1	22.34	22.34
29	STUFFING SPM	2	5.00	10.00
30	SPM CUP SETTING WELDING (PROPOSED)	2	22.34	44.68
31	SILENCER ROTARY WELDING SPM	2	5.00	10.00
32	BRACKET WELDING	1	22.30	22.30
33	BOSS WELDING	1	22.30	22.30
34	FULL WELDING	1	20.10	20.10
35	MAIN CORE WELDING	4	20.10	80.40
36	END CORE WELDING	4	20.10	80.40
37	BRACKET WELDING	1	20.10	20.10
38	BOSS WELDING	1	20.10	20.10
39	FULL WELDING	2	20.10	40.20
40	TUBE PIVOT TUBE BRACKET TACK WELDING	1	20.10	20.10
41	GUSSET TACK WELDING	1	20.10	20.10
42	GUSSET FULL WELDING	1	20.10	20.10
43	BORING MACHINE	1	12.00	12.00
44	SUB FRAME TACK WELDING	2	20.10	40.20
45	SUB FRAME FULL WELDING	2	20.10	40.20
46	HEAD TUBE WITH STEERING STOPPER TACK AND FULL WELDING	2	20.10	40.20
47	SEAT TUBE WITH BRACKET TACK AND FULL WELDING	2	20.10	40.20
48	TOP TUBE WITH EASHER TACK AND FULL WELDING	2	20.10	40.20
49	FRONT FRAME MANUAL WELDING	4	20.10	80.40
50	FRONT FRAME REVERSE WELDING	2	20.10	40.20
51	LINEAR WITH BUTTERFLY TACK AND FULL WELDING	2	20.10	40.20
52	GUSSET WITH PUSH ROTARY WELDING	2	20.10	40.20
53	SWING ARM BUSH ROTARY WELDING	2	20.10	40.20
54	SWING ARM & PFR ASSY ROBO BUILDING	2	20.10	40.20
55	MFR TACK AND FULL WELDING	2	20.10	40.20
56	SIDE TUBE ASSY ROBO RH CELL	4	20.10	80.40
57	SIDE TUBE RH TOUCH UP WELDING	4	20.10	80.40
58	SIDE TUBE ASSY ROBO LH CELL	4	20.10	80.40
59	FRONT FRAME GUSSET WELDING ROBO	4	20.10	80.40
60	FRONT FRAME ASSY BORING MACHINE	2	9.00	18.00
61	CENTER STAND TACK AND FULL WELDING	2	20.10	40.20
62	CHANNEL TUBE TACK AND FULL WELDING	2	20.10	40.20
63	JIG ASSEMBLY TACK WELDING	6	20.10	120.60
64	FRAME ASSY FULL WELDING	4	20.10	80.40
65	TOUCH UP WELDING	4	20.10	80.40
66	REPAIRING - PNEUMATIC	4	20.10	80.40
67	SWING ARM ASSY ROBO WELDING	1	20.10	20.10
68	LINEAR LOCK SEAMING SPM	1	7.00	7.00
69	END FLANGING SPM	1	4.00	4.00
70	HYDRAULIC PRESS 40 TON	1	15.00	15.00
71	END LOCK SEAMING SPM	2	7.00	14.00
72	LEAK TEST MACHINE	2	1.00	2.00
73	CORE TUBE TIG WELDING SPM	1	20.10	20.10
74	WELDING	5	20.10	100.50
75	CONSOLE ASSEMBLY GUSSET WELDING	1	20.10	20.10
76	WELD BEAD CUTTING SPM	1	11.00	11.00
77	FULL BUFFING SPM	1	12.00	12.00
78	BELT GRINDING MACHINE	2	2.00	4.00
79	BELT GRINDING MACHINE DOUBLE END	2	5.00	10.00
80	MANUAL GRINDING MACHINE	1	5.00	5.00
81	MANUAL BUFFING MACHINE DOUBLE END	5	5.00	25.00
82	TOUCH UP WELDING MACHINE	1	20.10	20.10
83	ELG SCREW COMPRESSOR 125 CFM	1	20.10	20.10
84	DRYER FOR ELG / SCREW COMPRESSOR	1	40.20	40.20
85	KAISER AIR COMPRESSOR 195 CFM	1	40.20	40.20
86	DRYER FOR KAISER SCREW COMPRESSOR	1	40.20	40.20
87	KAISER AIR COMPRESSOR 295 CFM	1	53.60	53.60
88	DRYER FOR KAISER SCREW COMPRESSOR	1	5.36	5.36
89	STP PLANT	1	7.50	7.50
90	GARDENING PUMP	1	5.00	5.00
91	GAS MIXTURE UNIT	1	5.00	5.00
92	STREET LIGHT FITTINGS	1	5.00	5.00
93	GATE LIGHTS	1	-	-
94	OPEN YARD AREA	1	-	-
95	COOLING TOWER FAN	1	5.00	5.00
96	WATER CIRCULATION PUMP	1	5.00	5.00
97	SERVER ROOM	1	-	-
98	UPS ROOM	1	-	-
99	AIR CONDITIONERS	1	93.80	93.80
100	LIGHTING AND OTHER LOAD	1	-	-
TOTAL				2968.79

MAIN BUILDING - 2				
BLOCK - 1 (PROPOSED) - MACHINERY HP DETAILS:				
Sl. No.	DESCRIPTION	QTY	H.P	TOTAL HP
01	50 TON POWER PRESS	2	6.75	13.50
02	75 TON POWER PRESS	1	10.50	10.50
03	150 TON POWER PRESS	1	20.50	20.50
04	200 TON POWER PRESS	2	27.40	54.80
05	250 TON HYDRAULIC POWER PRESS	1	20.00	20.00
06	250 TON POWER PRESS	2	34.00	68.00
07	300 TON POWER PRESS	1	40.50	40.50
08	400 TON POWER PRESS	1	54.50	54.50
09	COIL FEEDER	6	3.00	18.00
10	SHEDDING MACHINE HYD 8 X 2500MM	1	20.00	20.00
11	ECOT CRANE 10 T	1	10.00	10.00
12	BATTERY CHARGING STATION	1	4.00	4.00
13	LATHE MACHINE	1	5.00	5.00
14	RADIAL DRILLING MACHINE - D50	1	5.00	5.00
15	MILLING MACHINE	1	7.00	7.00
16	SURFACE GRINDER	1	4.00	4.00
17	CNC PIPE BENDING MACHINE	2	20.10	40.20
18	SIDE TUBE WASHER TIG WELDING	1	11.70	11.70
19	SIDE TUBE NOTCHING	1	15.00	15.00
20	SPM DRILLING	4	4.50	18.00
21	NOTCHING	3	15.00	45.00
22	MAIN CORE WELDING MC	4	22.34	89.36
23	BODY SHEET ROLLING SPM	2	8.00	16.00
24	TIG WELDING SPM	2	17.42	34.84
25	LUG CUTTING SPM	2	1.00	2.00
26	SIZING SPM	2	7.50	15.00
27	NECKING SPM	1	5.00	5.00
28	END CORE WELDING	1	22.34	22.34
29	STUFFING SPM	2	5.00	10.00
30	SPM CUP SETTING WELDING (PROPOSED)	2	22.34	44.68
31	SILENCER ROTARY WELDING SPM	2	5.00	10.00
32	BRACKET WELDING	1	22.30	22.30
33	BOSS WELDING	1	22.30	22.30
34	FULL WELDING	1	20.10	20.10
35	MAIN CORE WELDING	4	20.10	80.40
36	END CORE WELDING	4	20.10	80.40
37	BRACKET WELDING	1	20.10	20.10
38	BOSS WELDING	1	20.10	20.10
39	FULL WELDING	2	20.10	40.20
40	TUBE PIVOT TUBE BRACKET TACK WELDING	1	20.10	20.10
41	GUSSET TACK WELDING	1	20.10	20.10
42	GUSSET FULL WELDING	1	20.10	20.10
43	BORING MACHINE	1	12.00	12.00
44	SUB FRAME TACK WELDING	2	20.10	40.20
45	SUB FRAME FULL WELDING	2	20.10	40.20
46	HEAD TUBE WITH STEERING STOPPER TACK AND FULL WELDING	2	20.10	40.20
47	SEAT TUBE WITH BRACKET TACK AND FULL WELDING	2	20.10	40.20
48	TOP TUBE WITH EASHER TACK AND FULL WELDING	2	20.10	40.20
49	FRONT FRAME MANUAL WELDING	4	20.10	80.40
50	FRONT FRAME REVERSE WELDING	2	20.10	40.20
51	LINEAR WITH BUTTERFLY TACK AND FULL WELDING	2	20.10	40.20
52	GUSSET WITH PUSH ROTARY WELDING	2	20.10	40.20
53	SWING ARM BUSH ROTARY WELDING	2	20.10	40.20
54	SWING ARM & PFR ASSY ROBO BUILDING	2	20.10	40.20
55	MFR TACK AND FULL WELDING	2	20.10	40.20
56	SIDE TUBE ASSY ROBO RH CELL	4	20.10	80.40
57	SIDE TUBE RH TOUCH UP WELDING	4	20.10	80.40
58	SIDE TUBE ASSY ROBO LH CELL	4	20.10	80.40
59	FRONT FRAME GUSSET WELDING ROBO	4	20.10	80.40
60	FRONT FRAME ASSY BORING MACHINE	2	9.00	18.00
61	CENTER STAND TACK AND FULL WELDING	2	20.10	40.20
62	CHANNEL TUBE TACK AND FULL WELDING	2	20.10	40.20
63	JIG ASSEMBLY TACK WELDING	6	20.10	120.60
64	FRAME ASSY FULL WELDING	4	20.10	80.40
65	TOUCH UP WELDING	4	20.10	80.40
66	REPAIRING - PNEUMATIC	4	20.10	80.40
67	SWING ARM ASSY ROBO WELDING	1	20.10	20.10
68	LINEAR LOCK SEAMING SPM	1	7.00	7.00
69	END FLANGING SPM	1	4.00	4.00
70	HYDRAULIC PRESS 40 TON	1	15.00	15.00
71	END LOCK SEAMING SPM	2	7.00	14.00
72	LEAK TEST MACHINE	2	1.00	2.00
73	CORE TUBE TIG WELDING SPM	1	20.10	20.10
74	WELDING	5	20.10	100.50
75	CONSOLE ASSEMBLY GUSSET WELDING	1	20.10	20.10
76	WELD BEAD CUTTING SPM	1	11.00	11.00
77	FULL BUFFING SPM	1	12.00	12.00
78	BELT GRINDING MACHINE	2	2.00	4.00
79	BELT GRINDING MACHINE DOUBLE END	2	5.00	10.00
80	MANUAL GRINDING MACHINE	1	5.00	5.00
81	MANUAL BUFFING MACHINE DOUBLE END	5	5.00	25.00
82	TOUCH UP WELDING MACHINE	1	20.10	20.10
83	ELG SCREW COMPRESSOR 125 CFM	1	20.10	20.10
84	DRYER FOR ELG / SCREW COMPRESSOR	1	40.20	40.20
85	KAISER AIR COMPRESSOR 195 CFM	1	40.20	40.20
86	DRYER FOR KAISER SCREW COMPRESSOR	1	40.20	40.20
87	KAISER AIR COMPRESSOR 295 CFM	1	53.60	53.60
88	DRYER FOR KAISER SCREW COMPRESSOR	1	5.36	5.36
89	STP PLANT	1	7.50	7.50
90	GARDENING PUMP	1	5.00	5.00
91	GAS MIXTURE UNIT	1	5.00	5.00
92	STREET LIGHT FITTINGS	1	5.00	5.00
93	GATE LIGHTS	1	-	-
94	OPEN YARD AREA	1	-	-
95	COOLING TOWER FAN	1	5.00	5.00
96	WATER CIRCULATION PUMP	1	5.00	5.00
97	SERVER ROOM	1	-	-
98	UPS ROOM	1	-	-
99	AIR CONDITIONERS	1	93.80	93.80
100	LIGHTING AND OTHER LOAD	1	-	-
TOTAL				2968.79



PARKING SLOT SIZE :

32 LORRY WITH DIMENSION 3.50 x 10.0M
12 CARS WITH DIMENSION 2.50 x 5.0M
02 PCP CARS WITH DIMENSION 3.60 X 5.0M
315 BIKE WITH DIMENSION 1.00 x 1.80M
315 CYCLE PARKING WITH DIMENSION 0.56 x 1.80M

HORSE POWER DETAILS : 5937.58HP

NO OF WORKERS DETAIL :

DESCRIPTION	MALE	FEMALE	TOTAL
FACTORY WORKERS	75	25	100
COLOUR INDEX :	REFERENCE :		
EXISTING	SCALE : 1:400		
PROPOSED	DATE : 12 FEB 2024		
BOUNDARY			
ROAD			
DRIVEWAY			

APPLICANT :

ARCHITECT / REGISTERED ENGINEER :

B. SENTHILKUMAR, M.E.(Structural)
Licenced Building Surveyor
Coimbatore LPA/SE/GR-1/19/03/13
17/12, V.C.S. Nagar
G.N. Mills Post, Coimbatore-641 029
Cell: 98658 52255

REGISTERED STRUCTURAL ENGINEER :

B. SENTHILKUMAR, M.E.(Structural)
Licenced Building Surveyor
Coimbatore LPA/SE/GR-1/19/03/13
17/12, V.C.S. Nagar
G.N. Mills Post, Coimbatore-641 029
Cell: 98658 52255

SITE PLAN			SHEET NO: 05 / 05	
SITE PLAN SHOWING THE REVISION FROM ALREADY APPROVED AND PROPOSED ADDITIONAL CONSTRUCTION OF INDUSTRIAL BUILDING FOR M/S.BELRISE INDUSTRIES IN SIPCOT LAYOUT LP/DD-DTCP(CR)NO.126/2020 PLOT NO H12 & H13 VALLAM VADAGAL SIPCOT INDUSTRIAL PARK IN SURVEY NO :43 Part & 44 Part Of VADAGAL 'A' VILLAGE, SRIPERUMBUDUR PANCHAYAT UNION & TALUK, KANCHEEPURAM DISTRICT.				
MANUFACTURING OF (S.NO. 10) - "LIGHT ENGINEERING INDUSTRY EXCLUDING FABRICATION & FORGING, INDUSTRY CLASSIFIED AS "ORANGE", AS PER TNCDBR - 2019.				
NOTE : ALL DIMENSIONS AREA IN METRE				
EXISTING BUILDING APPROVAL DETAILS				
DTCP HO TECHNICAL CLEARANCE : 8665/2021/TCP5, DATED: 29.04.2021				
TECHNICAL CLEARANCE NUMBER : 274 /2021				
KANHEEPURAM DISTRICT T & CP TECHNICAL APPROVAL : 575/2021/KD2				
TECHNICAL APPROVAL NUMBER : 39 /2021, DATED: 23.08.2021				
AREA STATEMENT DETAILS				
SITE AREA AS PER DOCUMENT : 28842.46 SQM / 7.128 ACRE				
SITE AREA AS PER FMB : 28842.46 SQM / 7.128 ACRE				
SUPER IMPOSED SITE AREA : 28842.46 SQM / 7.128 ACRE				
EXISTING APPROVED AREA :				
S.NO	DESCRIPTION	FSI (SQ.M)	NON-FSI (SQ.M)	TOTAL (SQ.M)
1	BLOCK - 01(MAIN BUILDING)			
	GROUND FLOOR	6715.00	-	6715.00
	GROUND FLOOR (OFFICE)	500.00	-	500.00
	MEZZANINE FLOOR (OFFICE)	500.00	-	500.00
	SUB TOTAL	7715.00	-	7715.00
2	BLOCK - 02 (UTILITY BUILDING)			
	GROUND FLOOR	-	335.00	335.00
3	BLOCK - 03 (PUMP ROOM)			
	GROUND FLOOR	-	30.06	30.06
4	BLOCK -04(SEcurity CABIN-1)			
	GROUND FLOOR	-	33.75	33.75
EXISTING APPROVED TOTAL AREA		7715.00	398.81	8113.81
REVISED & ADDITIONAL BUILDING AREA :				
1	BLOCK - 01(MAIN BUILDING - 1 & 2) - REVISED			
	GROUND FLOOR	14896.54	-	14896.54
	MEZZANINE FLOOR	3513.94	-	3513.94
	SUB TOTAL	18410.48	-	18410.48
2	BLOCK - 02 (UTILITY BUILDING) - REVISED			
	GROUND FLOOR	523.09	-	523.09
3	BLOCK - 03 (PUMP ROOM) - REVISED			
	BASEMENT FLOOR	62.72	-	62.72
	GROUND FLOOR	62.72	-	62.72
	SUB TOTAL	125.44	-	125.44
4	BLOCK -04(SEcurity CABIN-1) - REVISED			
	GROUND FLOOR	61.85	-	61.85
5	BLOCK -05(GAS BANK) - PROPOSED			
	GROUND FLOOR	121.00		121.00
6	BLOCK -06(STP SHED) - PROPOSED			
	GROUND FLOOR	52.53	-	52.53
7	BLOCK -07(CO2 ARGON GAS YARD) - PROPOSED			
	GROUND FLOOR	210.60	-	210.60
REVISION & ADDITIONAL AREA		19504.99	-	19504.99
EXISTING REVISED & ADDITIONAL FSI AREA = 19504.99 SQ.M				
FLOOR SPACE INDEX		=	$\frac{19504.99}{28842.46} = 0.676$	
PARKING AREA DETAILS :				
WORKSHOP AREA : 15728.92 SQ.M				
1 LORRY PARKING SPACE FOR EVERY 500.00 SQ.M				
1 TWO WHEELER & CYCLE SPACE FOR EVERY 50.00 SQ.M				
AREA : 1339.39 SQ.M				
1 CAR PARKING SPACE FOR EVERY 100.00 SQ.M				
PARKING DETAILS :				
DESCRIPTION		REQUIRED	PROVIDED	
LORRY PARKING		32 NOS	32 NOS	
CAR PARKING		12+02(PCP)=14 NOS	12+02(PCP)=14 NOS	
TWO WHEELER PARKING		315 NOS	315 NOS	
CYCLE PARKING		315 NOS	315 NOS	

Eight ways to know a piece of land before you pay for it.

This report covers one part of the picture. These cover the rest, drawn from the same government records, for any property in Tamil Nadu.

LandLens One

Ask anything about a property and get an answer grounded in live government records, with the sources shown.

[/landlens/one](#)



Verify My Land

Every record check run on one property and returned as a single report.

[/landlens/verify-my-land](#)



Legal Opinion

An advocate's written opinion on the title, built on the records we pull for it.

[/landlens](#)



One Map

Every layer on one map: the parcel, its boundary, zoning, water bodies and what sits around it.

[/landlens/one/map](#)



PriceMap

What land actually changed hands for around this plot, taken from the registered deeds.

[/landlens/pricemap](#)



Build Scope

What you are allowed to build here: floor space, height, coverage and setbacks.

[/landlens/build-scope](#)



Property Tracker

Watch a property and hear about it when something new is registered against it.

[/landlens/property-tracker](#)



Deal Room

Run the transaction in one place: documents, stamping, signatures and the parties.

[/landlens/deal-room](#)



Twenty-four checks you can run yourself, at no cost.

Records and verification

The registers themselves, read for you.

Encumbrance Certificate

Patta and Chitta

Field Measurement Sketch

EC Analyzer

Bank charge check

Court case search

Seller background check

Approval check by survey

Value and duty

What it is worth and what it costs to register.

Guideline value by street

Guideline value by survey

Stamp duty and registration fees

Capital gains

Floor space index

Area unit converter

Zoning and land use

What the plan says can happen on this land.

Land use zone finder

CMDA land use check

Coastal regulation zone

Master plan check

Water bodies finder

Airport height clearance

Registers and directories

Who holds it, and which office keeps the record.

Find your registering office

Temple property check

Waqf property check

RERA register



Every free tool
/tools



Services we run
for you
/services



The LandLens
suite
/landlens/one



Every claim in this document traces back to a government record.

Legal opinions, due diligence and title verification

Building plan, layout and sub-division approvals

Completion and occupancy certificates, regularisation

Escrow, negotiation and NRI property management

Land survey, soil testing, architecture and construction

Verified RealEstate
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai 600 097, India
hello@verified.realestate
+91 9996 12 9996

Prepared from the registers named on the page each finding sits on. Where a register could not be read, this document says so in its place rather than leaving the gap to be read as a clean result.

