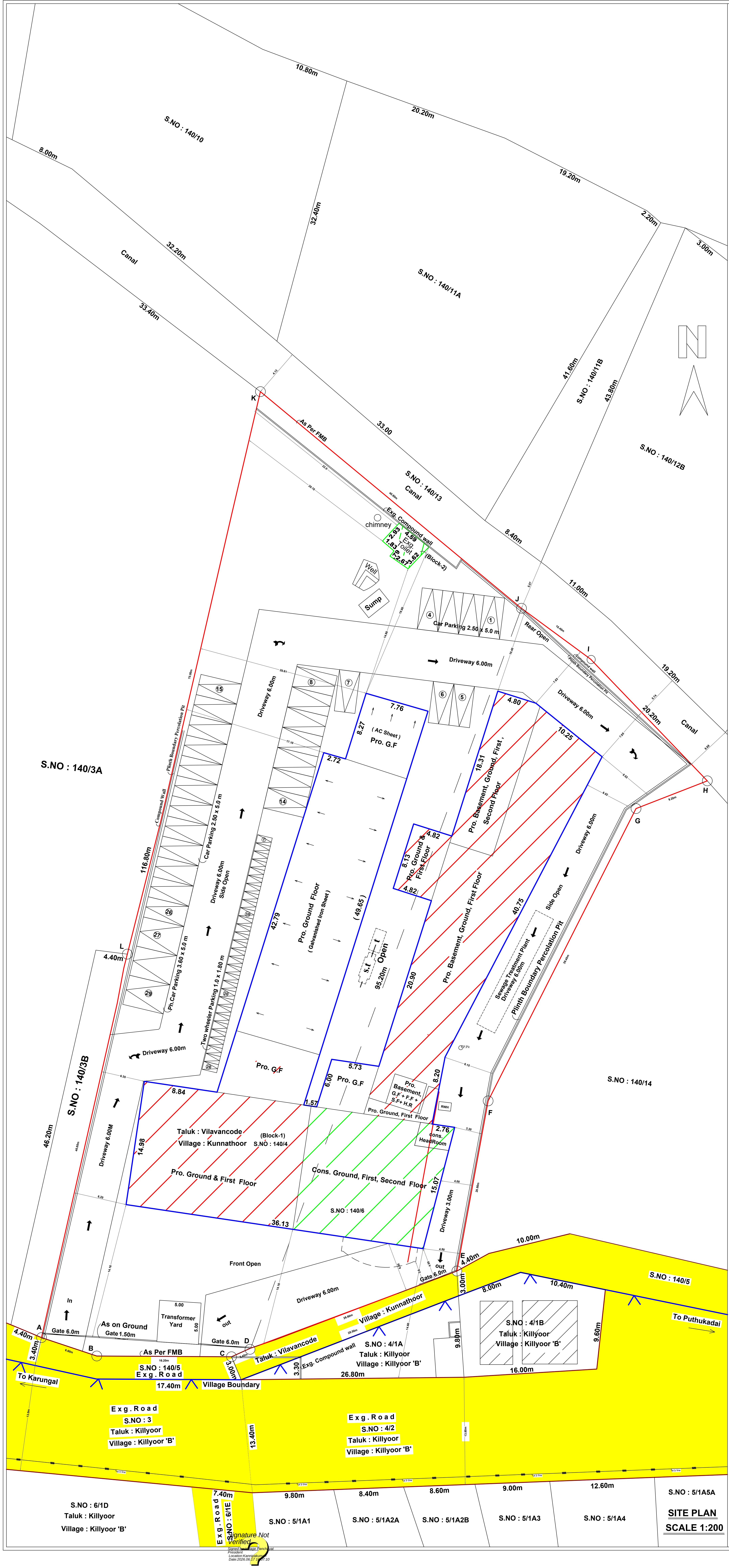
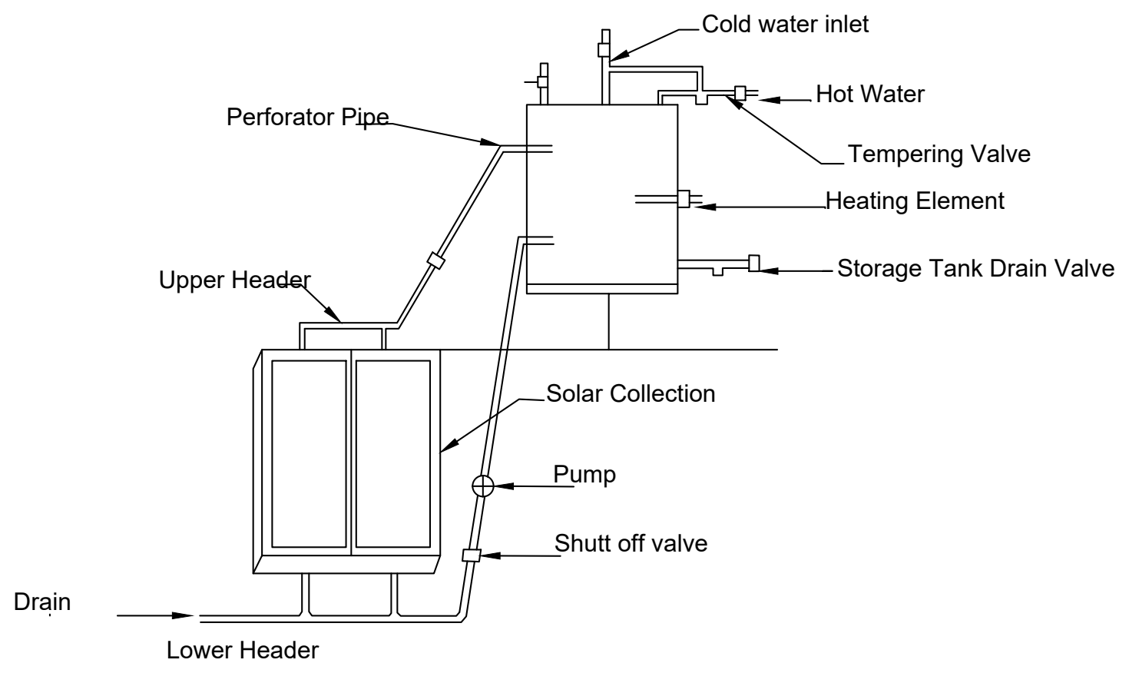

S.NO : 140/10
10.80m
20.20m
19.20m
2.20m
3.00m
8.00m
32.20m
32.40m
Canal
33.40m
S.NO : 140/11A
41.60m
S.NO : 140/11B
43.80m
S.NO : 140/12B
N
K
As Per FMB
33.00
S.NO : 140/13
Canal
chimney
Exg. Compound wall
2.93
4.59
Exg. Toilet
1.83
2.67
3.62
(Block-2)
Well
Sump
8.40m
11.00m
J
Rear Open
Car Parking 2.50 x 5.0 m
I
Compound wall
Plinth Boundary Percolation Pit
19.20m
20.20m
Canal
H
9.20m
G
Driveway 6.00m
7.76
(AC Sheet)
Pro. G.F
8.27
2.72
4.80
10.25
18.31
Pro. Basement, Ground, First , Second Floor
4.82
8.13
Pro. Ground & First Floor
4.82
Pro. Basement, Ground, First Floor
40.75
Side Open
Sewage Treatment Plant Driveway 6.00m
Plinth Boundary Percolation Pit
S.NO : 140/3A
116.80m
Compound Wall
Plinth Boundary Percolation Pit
Car Parking 2.50 x 5.0 m
Driveway 6.00m Side Open
Ph.Car Parking 3.60 x 5.0 m
Two wheeler Parking 1.0 x 1.80 m
42.79
Pro. Ground Floor (Galvanished Iron Sheet)
(49.65)
s.t
Open
95.20m
20.90
L
4.40m
Driveway 6.00m
Pro. G.F
5.73
6.00
Pro. G.F
1.57
Pro. Basement, G.F + F.F + S.F+ H.R
8.20
RWH
Pro. Ground, First Floor
F
S.NO : 140/14
S.NO : 140/3B
46.20m
Driveway 6.00M
8.84
14.98
Taluk : Vilavancode
Village : Kunnathoor
(Block-1)
S.NO : 140/4
Pro. Ground & First Floor
Cons. Ground, First, Second Floor
2.76
cons. HeadRoom
15.07
S.NO : 140/6
36.13
Driveway 3.00m
Front Open
E
4.40m
out
Gate 6.0m
10.00m
3.00m
8.00m
10.40m
S.NO : 140/5
To Puthukadai
9.60m
S.NO : 4/1B
Taluk : Killyoor
Village : Killyoor 'B'
In
A
Gate 6.0m
As on Ground
Gate 1.50m
Transformer Yard
5.00
out
Gate 6.0m
D
Driveway 6.00m
Village : Kunnathoor
Taluk : Vilavancode
Exg. Compound wall
S.NO : 4/1A
Taluk : Killyoor
Village : Killyoor 'B'
9.80m
4.40m
3.40m
B
As Per FMB
C
S.NO : 140/5
Exg.Road
3.00m
3.30
26.80m
16.00m
To Karungal
17.40m
Village Boundary
Exg.Road
S.NO : 3
Taluk : Killyoor
Village : Killyoor 'B'
13.40m
Exg.Road
S.NO : 4/2
Taluk : Killyoor
Village : Killyoor 'B'
e.b line
S.NO : 6/1D
Taluk : Killyoor
Village : Killyoor 'B'
7.40m
Exg.Road
S.NO : 6/1E
9.80m
8.40m
8.60m
9.00m
12.60m
S.NO : 5/1A1
S.NO : 5/1A2A
S.NO : 5/1A2B
S.NO : 5/1A3
S.NO : 5/1A4
S.NO : 5/1A5A

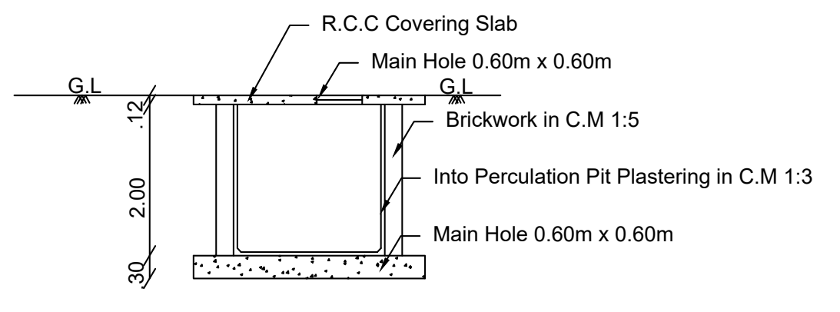
SITE PLAN
SCALE 1:200

Signature Not Verified
Signed by: Village Panchayat President
Location:Kanniyakumari
Date:2026.06.17 16:07:10

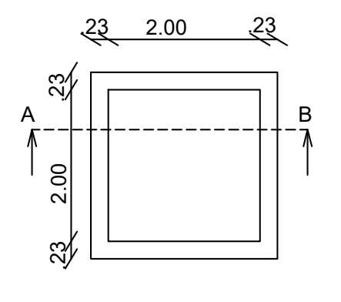

Cold water inlet
Hot Water
Tempering Valve
Heating Element
Storage Tank Drain Valve
Perforator Pipe
Upper Header
Solar Collection
Pump
Shutt off valve
Drain
Lower Header

Details Of Solar Water Heater (NTS)

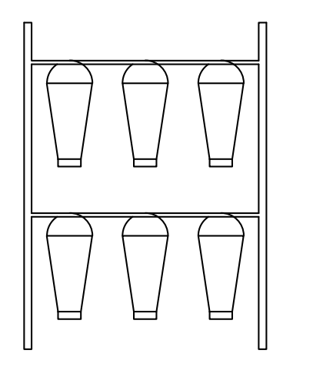
FIRE EXTINGUISHER DETAILS


R.C.C Covering Slab
Main Hole 0.60m x 0.60m
G.L
Brickwork in C.M 1:5
Into Perculation Pit Plastering in C.M 1:3
Main Hole 0.60m x 0.60m
.12
2.00
.30

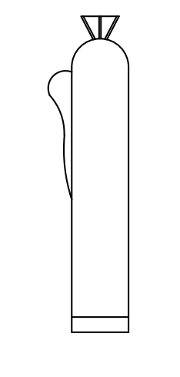
WATER SUMP



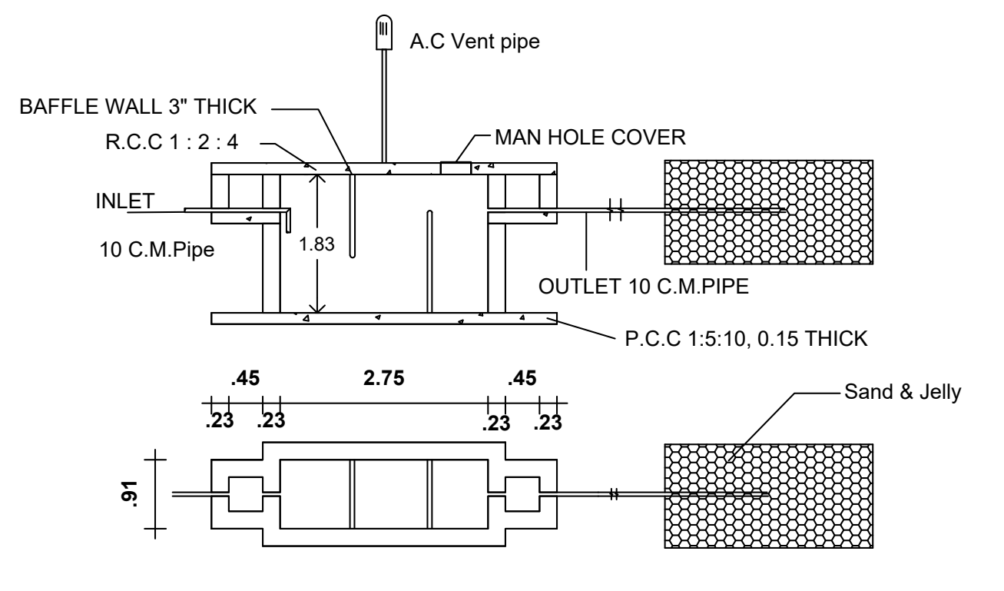
Section on AB



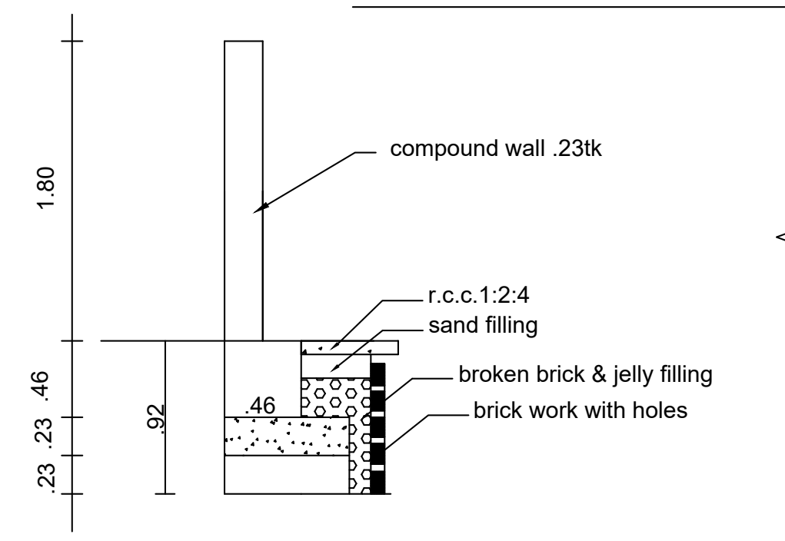
SAND BUCKETS DETAILS

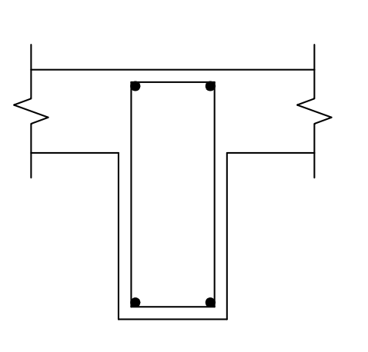


FIRE EXTINGUISHER CYLINDER


A.C Vent pipe
BAFFLE WALL 3" THICK
R.C.C 1 : 2 : 4
MAN HOLE COVER
INLET
10 C.M.Pipe
1.83
OUTLET 10 C.M.PIPE
P.C.C 1:5:10, 0.15 THICK
.45
2.75
.45
.23
.23
.23
.23
Sand & Jelly
.91

SEPTIC TANK AND TRENCH

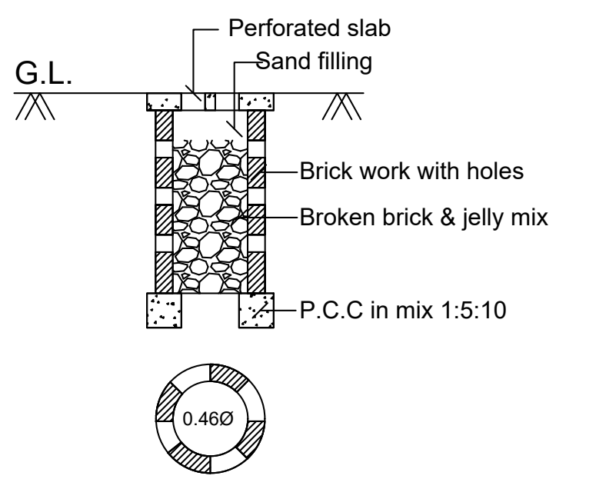

compound wall .23tk
r.c.c.1:2:4
sand filling
broken brick & jelly filling
brick work with holes
1.80
.46
.23
.23
.92
.46



Beam -B2

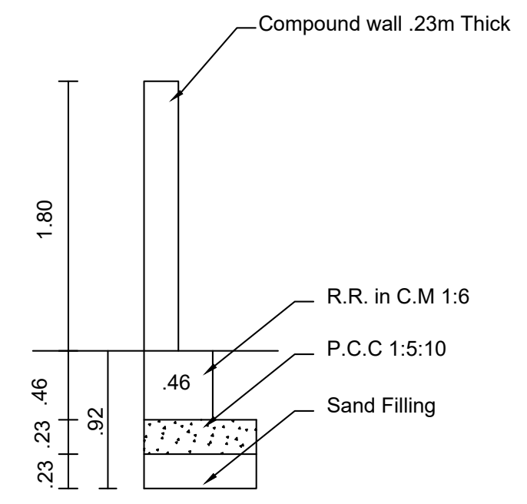
PLINTH BOUNDARY PERCOLATION PIT

~~SCALE (1:50)~~


Perforated slab
Sand filling
G.L.
Brick work with holes
Broken brick & jelly mix
P.C.C in mix 1:5:10
0.46Ø

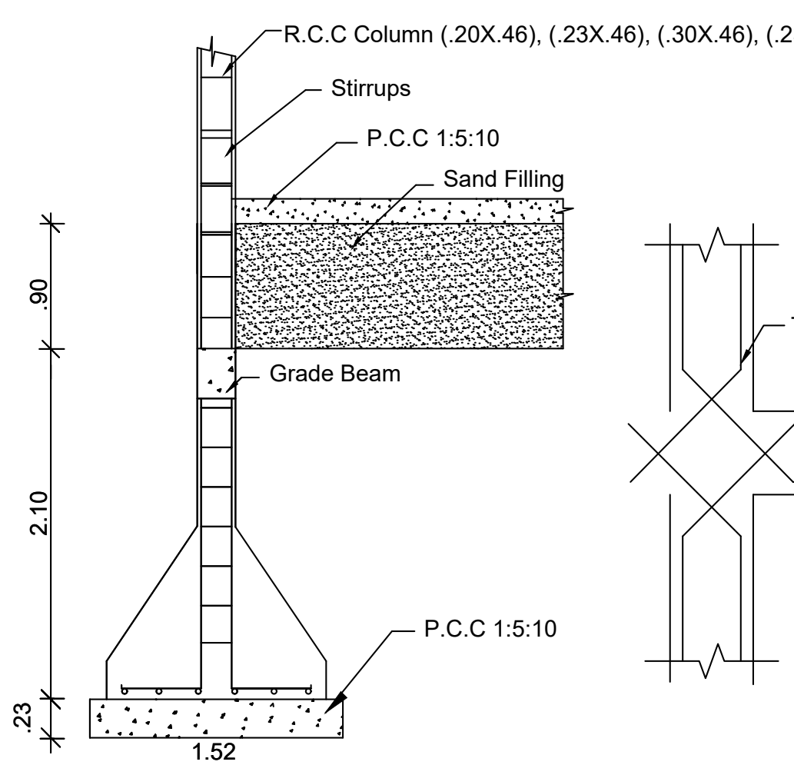
PERCOLATION PIT FOR 30 Sq. m.

(NOT FOR SCALE)


Compound wall .23m Thick
1.80
R.R. in C.M 1:6
P.C.C 1:5:10
Sand Filling
.46
.46
.23
.23
.92

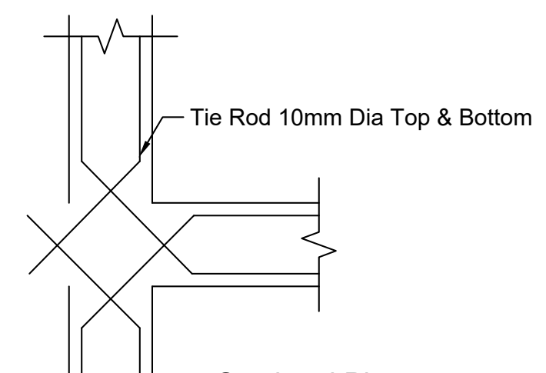
Compound Wall Detail

SCALE :(1:50)

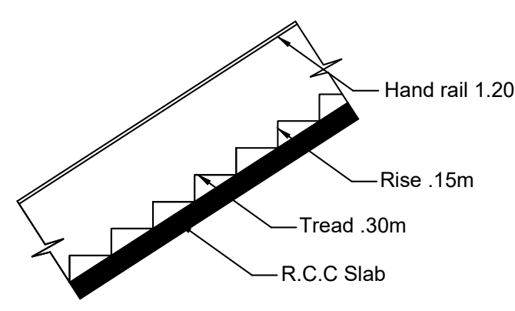

R.C.C Column (.20X.46), (.23X.46), (.30X.46), (.23x.30) & (.46X.46)M
Stirrups
P.C.C 1:5:10
Sand Filling
.90
Grade Beam
2.10
P.C.C 1:5:10
.23
1.52

COLUMN DETAIL

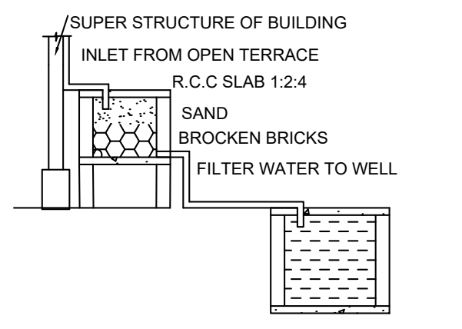
SCALE (1:50)


Tie Rod 10mm Dia Top & Bottom

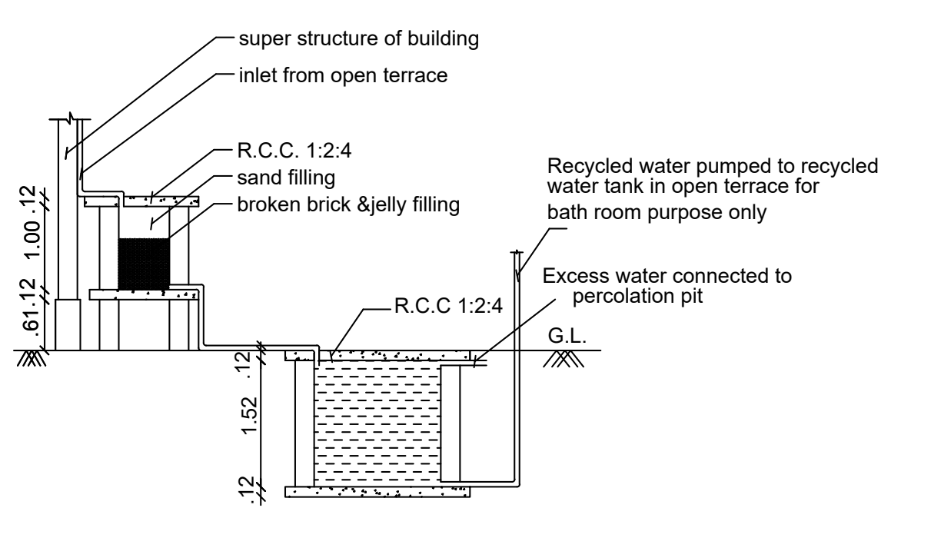
Sectional Plan
Beam VS Beam
NOT FOR SCALE

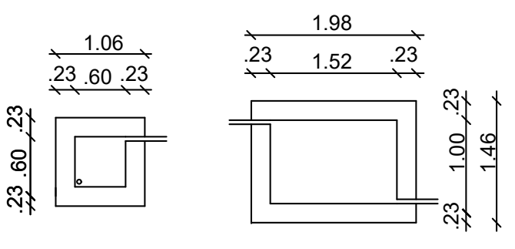

Hand rail 1.20m
Rise .15m
Tread .30m
R.C.C Slab

STAIR

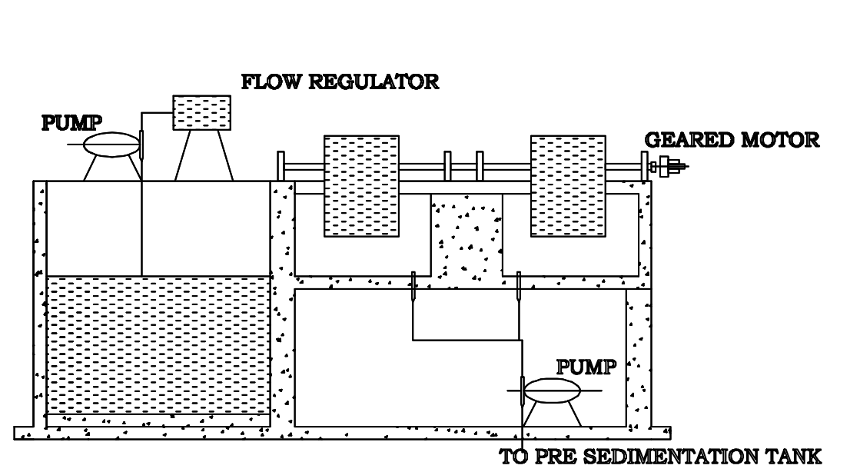

SUPER STRUCTURE OF BUILDING
INLET FROM OPEN TERRACE
R.C.C SLAB 1:2:4
SAND
BROCKEN BRICKS
FILTER WATER TO WELL

RAINWATER HARVESTING

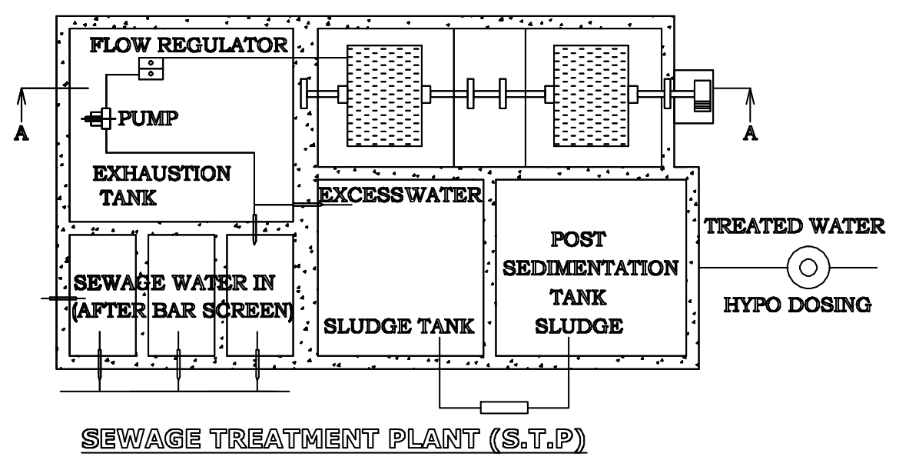

super structure of building
inlet from open terrace
R.C.C. 1:2:4
sand filling
broken brick &jelly filling
Recycled water pumped to recycled water tank in open terrace for bath room purpose only
Excess water connected to percolation pit
R.C.C 1:2:4
G.L.
.12
1.00
.12
.61
.12
1.52
.12


1.06
.23 .60 .23
1.98
.23 1.52 .23
1.06
.23 .60 .23
.23
1.00
.23
1.46

Sump and Filter Bed


FLOW REGULATOR
PUMP
GEARED MOTOR
PUMP
TO PRE SEDIMENTATION TANK IF REQUIRED

SECTION AA


FLOW REGULATOR
PUMP
EXHAUSTION TANK
EXCESSWATER
SEWAGE WATER IN (AFTER BAR SCREEN)
SLUDGE TANK
POST SEDIMENTATION TANK SLUDGE
TREATED WATER
HYPO DOSING
A
A

SEWAGE TREATMENT PLANT (S.T.P)

SITE PLAN SHOWING THE CONSTRUCTED HOSPITAL BUILDING IN
R.S.NO:140/4 & 140/6 , (OLD S.NO: 2058A, 2058B), POOCHUKADU,
KUNNATHOOR VILLAGE , VILLATHARAI VILLAGE PANCHAYAT,
MUNCHIRAI PANCHAYAT UNION, VILAVANCODE TALUK ,
KANYAKUMARI DISTRICT.

ALL DIMENSIONS ARE IN METRE, SCALE 1 : 100

AREA DETAILS:-	Sq.Mt	Sq.Ft
SITE AREA (As Per Patta) (ABCDEFGHIJKL)	4800.00	51667
BASEMENT FLOOR AREA	521.26	5611
GROUND FLOOR AREA	1667.11	17945
FIRST FLOOR AREA	1130.12	12165
SECOND FLOOR AREA	249.50	2686
HEAD ROOM AREA	129.82	1397
OPEN SPACE AREA	3132.89	33722
Total Building Area In B.F, G.F, F.F, S.F & H.R	3697.81	39804

Legends :

🟥	Site Boundary
🟩	Cons. Building
🟥	Pro. Building
🟨	Exg. Road

SITE AREA DETAILS:-

As Per Document :
S.NO:140/4 = 3300.00 Sq.Mt
S.NO:140/6 = 1700.00 Sq.Mt
= 5000.00 Sq.Mt

As Per Patta :
S.NO:140/4 = 3300.00 Sq.Mt
S.NO:140/6 = 1500.00 Sq.Mt
= 4800.00 Sq.Mt

Taken Min As Per Patta Area : 4800.00 Sq.Mt

Area Details :-	Constructed		Proposed		Total Area in Sq.mt
	FSI	Non-FSI	FSI	Non-FSI	
Block-1 (Hospital Building)					
Basement Floor Area	-------	-------	-------	521.26	521.26
Ground Floor Area	249.50	-------	1402.12	-------	1651.62
First Floor Area	249.50	-------	880.62	-------	1130.12
Second Floor Area	249.50	-------	-------	-------	249.50
Head Room Area	-------	11.87	117.95	-------	129.82
Block-2 (Toilet)					
Ground Floor Area	-------	-------	15.49	-------	15.49
Total Area	748.50	11.87	2416.18	521.26	3697.81

Note:

Waste Water Used for Garden
Rain Water harvesting Details Provided
Solar System Water tank Provided
Fire Resistance to be Provided
Emergency alarm to be Provided
Drinking water to be Provided as per corporation norms
Rain water harvesting tank to be Provided
Waste water from recycled water tank & Trench connected to sullage disposal tank
Solid waste tub to be Provided
No Children shall Be Employed
First Aid Box with all Equipment to be Provided

FLOOR AREA CALCULATION

$$= \frac{G.F + F.F + S.F}{\text{Site Area}}$$

$$= \frac{1651.62 + 15.49 + 1130.12 + 249.50}{4800.00}$$

$$= \frac{3046.73}{4800.00} = 0.635 < 2.00$$

PARKING CALCULATION:- (HOSPITAL BUILDING) Panchayat Area

Floor Area upto 3000 sq.mt, Every 100 Sq.Mt = 1 Car Space (2.5m X5.0m) & 1 Two Wheeler (1.0m X1.8m)

Total Builtup Area = 3697.81 sq.mt
= 3697.81 Sq.Mt x 75 %

$$= \frac{2773.36}{100} = 28 \text{ Nos}$$

Required Parking = 28 Cars & 28 Two Wheeler
Available Parking = 29 Cars & 29 Two Wheeler
(Including 3 Physically Challenged (Car Parking & Two Wheeler))

SANITATION REQUIREMENTS FOR HOSPITAL (Staff & Out Patient)

Male : 50 Female : 45

Sanitary Unit/ Fittings	Required		Available		
	Gents	Ladies	Gents	Ladies	
Water Closet	2	3	11	20	OK
Ph.Water Closet	1		1		OK
Abultion Taps	6		32		OK
Urinals	3		4		OK
Wash Basin	4		5		OK

Note:

10% OSR = 480.00 Sq.mt
Guide line Value of OSR Area has been Paid)

Lion Er. R. RA[illegible], ME (Struct.Eng.)
REGISTERED CONSTRUCTION ENGINEER
REG. NO: RCE/NLPA/2019/004
DTCP, KANYAKUMARI
M: (+91) 944 5444 911

Construction Engineer

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Professional Engineer,
Chartered Civil Engineer & Approved Valuer,
53, M.A Palanisamy Street, K.K. Pudur Post
Coimbatore - 641 038

Structural Engineer

Applicant

Office use

Aravindh.A.S.

ARAVINDH. A.S
Council of Architecture
Reg. No. CA/2005/36168

Registered Engineer / Architect

Sheet-1		
	82	2025
20	09	2025