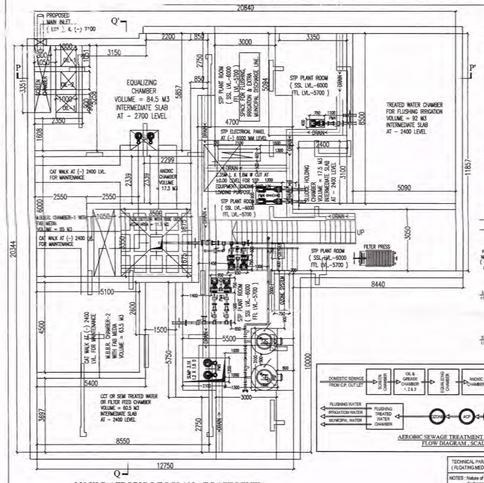
PROPOSED CGEWHO HOUSING PROJECT KOLKATA PHASE III

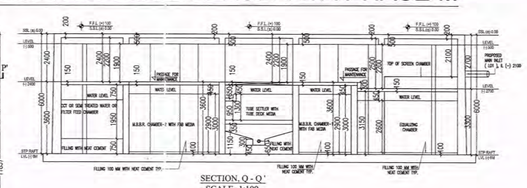


250 KLD AEROBIC S.T.P. PLAN AT RAFT LEVEL

PART PLAN OF S.T.P. BELOW GROUND FL. (BLOCK-2)

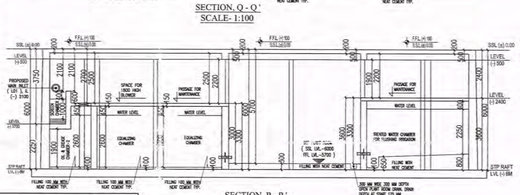
CAPACITY- 250 KLD

SCALE- 1:100



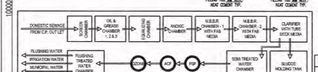
SECTION. Q - Q '

SCALE- 1:100



SECTION. P - P '

SCALE- 1:100

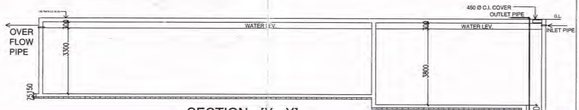


AEROBIC SEWAGE TREATMENT PLANT - 250 KLD.

FLOW DIAGRAM - SCALE - 1:50

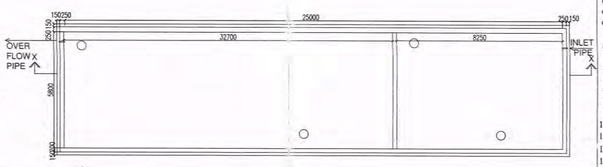
TECHNICAL PARAMETER OF 250 KLD AEROBIC SEWAGE TREATMENT PLANT (FLOATING MEDIA BIO REACTOR)		
NOTES : Nature of effluent - Domestic Sewage from toilet, pantry waste water shall be discharged into this STP. Dialogic to take consideration of same.		
SL.	RAW SEWAGE CHARACTERISTICS OF DOMESTIC SEWAGE	DISCHARGE EFFLUENT CHARACTERISTICS AFTER TREATMENT
(i)	POTENTIAL OF HYDROGEN (PH VALUE)	POTENTIAL OF HYDROGEN (PH VALUE)
(ii)	BIOLOGICAL OXYGEN DEMAND BOD = 220 - 450 Mg / L	BIOLOGICAL OXYGEN DEMAND BOD = < 10 Mg / L
(iii)	TOTAL SUSPENDED SOLIDS = 200 - 400 Mg / L	TOTAL SUSPENDED SOLIDS = < 10 Mg / L
(iv)	CHEMICAL OXYGEN DEMAND COD = 400 - 600 Mg / L	CHEMICAL OXYGEN DEMAND COD = < 50 Mg / L
(v)	OIL & GREASE = UP TO 20 Mg / L	OIL & GREASE = < 10 Mg / L

PUMP & VASSAL POSITION DETAILS				
NOS.	TYPE	QTY	POSITION	HEIGHT / EACH
RW1	S.T.P. SEWERAGE SEWAGE TO AERATION TANK PUMPS	1+1=2	UNDER TOP SLAB EQUALIZING CHAMBER	60 NOS
RW2	S.T.P. EQUALIZING CHAMBER TO FILTER BATTLER	1+1=2	AT STP PLANT ROOM	50 NOS
FWS	FILTER PRESS FEED PUMPS	1+1=2	AT STP PLANT ROOM	30 NOS
PW1	FILTER BACK WASH PUMPS	1+1=2	AT STP PLANT ROOM	50 NOS
PW2	FLUSHING WATER SYSTEM	1+1=2	AT STP PLANT ROOM	50 NOS
PW3	SUBMERSIBLE PUMP	1+1=2	UNDER PUMP PLANT ROOM SUMP	30 NOS
AB	AB BLOWER	1+1=2	OVER THE EQUALIZING CH. AT (+) 2700 LEVEL	1,500 NOS
ACD	ACTUATOR WITH SOLENOID	1 NO.	OVER THE AERATION CH. MAKE AT (+) 2400 LEVEL	1,500 NOS
DO	DO METER PROBE	1 NO.	AT STP PLANT ROOM	1,500 NOS
PSF	SAND FILTER (Ø 1500 = HIGH ZEMS)	1 NO.	AT STP PLANT ROOM	3,500 NOS
ACF	ACTIVATED CARBON FILTER (Ø 1500 = HIGH ZEMS)	1 NO.	AT STP PLANT ROOM	3,000 NOS
ULTRA	ULTRA SYSTEM	1 NO.	AT STP PLANT ROOM	1,000 NOS
SCP	S.T.P. ELECTRICAL CONTROL PANEL	1 NO.	AT STP PLANT ROOM	1,500 NOS



SECTION - [X - X]

SCALE- 1:100



UNDER GROUND WATER RESERVOIR CAPACITY 300000 LTS. FOR RAINWATER HARVESTING

SCALE- 1:100

UNDER GROUND WATER RESERVOIR CAPACITY 200000 LTS. FOR FIRE

SCALE- 1:100

DETAILS OF AREA

1) AREA OF LAND : (100%)	= 9676.45 sq.m.
2) PERMISSIBLE GROUND COVERAGE : (45.00%)	= 4354.40 sq.m.
3) PROPOSED GROUND COVERAGE : (43.59%)	= 4218.23 sq.m.
4) TOTAL CONS. AREA (incl. services & parking)	= 41546.67 sq.m.
5) TREE COVERED AREA REQD.: (15%)	= 1451.46 sq.m.
6) TREE COVERED AREA PROVIDED : (20.64%)	= 1997.62 sq.m.
7) NO. OF CAR PARKING REQUIRED	= 241 Nos.
8) ACTUAL AREA PROVIDED FOR PARKING	= 6516.59 SQM.
9) CONNECTED AREA OF BLOCK-1 & 2	= 34.90 SQM.
10) CONNECTED AREA OF BLOCK-2 & 3	= 19.30 SQM.
11) PARKING CALCULATION :-	
BLOCK-1	
a) GROUNG FLOOR PARKING AREA	= 1724.38 SQM.
b) PARKING LAVEL-1 AREA	= 1307.87 SQM.
c) PARKING LEVEL-II AREA	= 1307.87 SQM.
d) PARKING LEVEL III AREA	= 540.04 SQM.
BLOCK-2	
a) GROUNG FLOOR PARKING AREA	= 481.35 SQM.
BLOCK-3	
a) GROUNG FLOOR PARKING AREA	= 519.86 SQM.
BLOCK-4	
a) GROUNG FLOOR PARKING AREA	= 519.86 SQM.
b) PODIUM PARKING AREA (CONNECTED BETWEEN BLOCK-3 & 4)	= 115.36 SQM.
12) NOS OF CAR PARKING TOTAL PROVIDED	= 257 Nos.
13) NOS OF BIKE PARKING TOTAL PROVIDED	= 119 Nos.
14) AREA OF S.T.P.	= 389.39 SQM.
15) AREA OF PUMP ROOM	= 47.18 SQM.
16) NO. OF TREES REQUIRED ($\frac{2024.22}{10000}$ X700)	= 142 NOS.

1) BLOCK-1

PROPOSED AREA :-

Floor	Covered Area	Lift well-1 & 2	Stair well-1 & 2	Net Covered Area
GROUND FL.	1960.22 sqm.	-	-	1960.22 sqm.
PAR. LEV.- I	1383.21 sqm.	-	-	1383.21 sqm.
1ST. FLOOR & PAR. LEV.-II	1842.47 sqm.	8.78 sqm.	2.55 sqm.	1831.14 sqm.
2ND. FLOOR & PAR. LEV.-III	1508.91 sqm.	8.78 sqm.	2.55 sqm.	1497.58 sqm.
3RD. FLOOR	844.05 sqm.	8.78 sqm.	2.55 sqm.	832.72 sqm.
4TH. FLOOR	844.05 sqm.	8.78 sqm.	2.55 sqm.	832.72 sqm.
5TH. FLOOR	844.05 sqm.	8.78 sqm.	2.55 sqm.	832.72 sqm.
6TH. FLOOR	844.05 sqm.	8.78 sqm.	2.55 sqm.	832.72 sqm.
7TH. FLOOR	844.05 sqm.	8.78 sqm.	2.55 sqm.	832.72 sqm.
8TH. FLOOR	844.05 sqm.	8.78 sqm.	2.55 sqm.	832.72 sqm.
9TH. FLOOR	844.05 sqm.	8.78 sqm.	2.55 sqm.	832.72 sqm.
10TH. FLOOR	844.05 sqm.	8.78 sqm.	2.55 sqm.	832.72 sqm.
11TH. FLOOR	844.05 sqm.	8.78 sqm.	2.55 sqm.	832.72 sqm.
12TH. FLOOR	844.05 sqm.	8.78 sqm.	2.55 sqm.	832.72 sqm.
TOTAL	15135.31 sqm.	105.36 sqm.	30.60 sqm.	14999.35 sqm.

2) BLOCK-2, BLOCK-3 & BLOCK-4

PROPOSED AREA :-

Floor	Covered Area	Lift well-1 & 2	Stair well-1 & 2	Net Covered Area
GROUND FL.	696.15 sqm.	-	-	696.15 sqm.
1ST. FLOOR	670.66 sqm.	8.82 sqm.	-	661.84 sqm.
2ND. FLOOR	670.66 sqm.	8.82 sqm.	-	661.84 sqm.
3RD. FLOOR	670.66 sqm.	8.82 sqm.	-	661.84 sqm.
4TH. FLOOR	670.66 sqm.	8.82 sqm.	-	661.84 sqm.
5TH. FLOOR	670.66 sqm.	8.82 sqm.	-	661.84 sqm.
6TH. FLOOR	670.66 sqm.	8.82 sqm.	-	661.84 sqm.
7TH. FLOOR	670.66 sqm.	8.82 sqm.	-	661.84 sqm.
8TH. FLOOR	670.66 sqm.	8.82 sqm.	-	661.84 sqm.
9TH. FLOOR	670.66 sqm.	8.82 sqm.	-	661.84 sqm.
10TH. FLOOR	670.66 sqm.	8.82 sqm.	-	661.84 sqm.
11TH. FLOOR	670.66 sqm.	8.82 sqm.	-	661.84 sqm.
12TH. FLOOR	670.66 sqm.	8.82 sqm.	-	661.84 sqm.
TOTAL	8744.07 sqm.	105.84 sqm.	-	8638.23 sqm.
TOTAL = 3 Blocks				25914.69 sqm.

17) PARKING CALCULATION :-

BLOCK-1

TENAMENT NO.	TYPE	TENAMENT AREA	TENAMENT NOS.	TOTAL AREA	CAR REQUIRED
FLAT-A	3 BHK	90.09	12	(360.08X12)+ (360.36X10) = 7924.56	67
FLAT-B	3 BHK	89.95	12		
FLAT-C	3 BHK	89.95	12		
FLAT-D	3 BHK	90.09	12		
FLAT-E	3 BHK	90.15	10		
FLAT-F	3 BHK	90.03	10		
FLAT-G	3 BHK	90.03	10		
FLAT-H	3 BHK	90.15	10		

BLOCK-2, BLOCK-3 & BLOCK-4

TENAMENT NO.	TYPE	TENAMENT AREA	TENAMENT NOS.	TOTAL AREA /BLOCK	CAR REQUIRED
FLAT-A	2 BHK	72.80	12	(579.84X12) = 6958.08	58X3=174
FLAT-B	2 BHK	72.24	12		
FLAT-C	2 BHK	72.24	12		
FLAT-D	2 BHK	72.80	12		
FLAT-E	2 BHK	72.80	12		
FLAT-F	2 BHK	72.08	12		
FLAT-G	2 BHK	72.08	12		
FLAT-H	2 BHK	72.80	12		

TOTAL NO. OF 2 BHK PLAT = 288 NOS.

TOTAL NO. OF 3 BHK PLAT = 88 NOS.

LANDUSE STATEMENT			
DETAILS	VALUE UNIT		%
LAND AREA	9676.45	sqm	100.0
GROUND COVERAGE	4218.23	sqm	43.59
SERVICE AREA	137.67	sqm	1.42
PAVED AREA	1412.43	sqm	14.60
SEMI PAVED AREA	1910.08	sqm	19.74
EXCLUSIVE TREE PLANTATION AREA	1997.62	sqm	20.64
TOTAL	9676.03	sqm	100.00
TOTAL GREEN AREA	2952.66	sqm	30.51
EXCLUSIVE TREE PLANTATION AREA	1997.62	sqm	20.64
50% OF SEMI PAVED AREA	955.04	sqm	9.87
TOTAL PAVED AREA	2367.47	sqm	24.47
PAVED AREA	1412.43	sqm	14.60
50% OF SEMI PAVED AREA	955.04	sqm	9.87

GROUND COVERAGE AREA

EXCLUSIVE TREE PLANTATION AREA

PAVED AREA

SEMI PAVED AREA

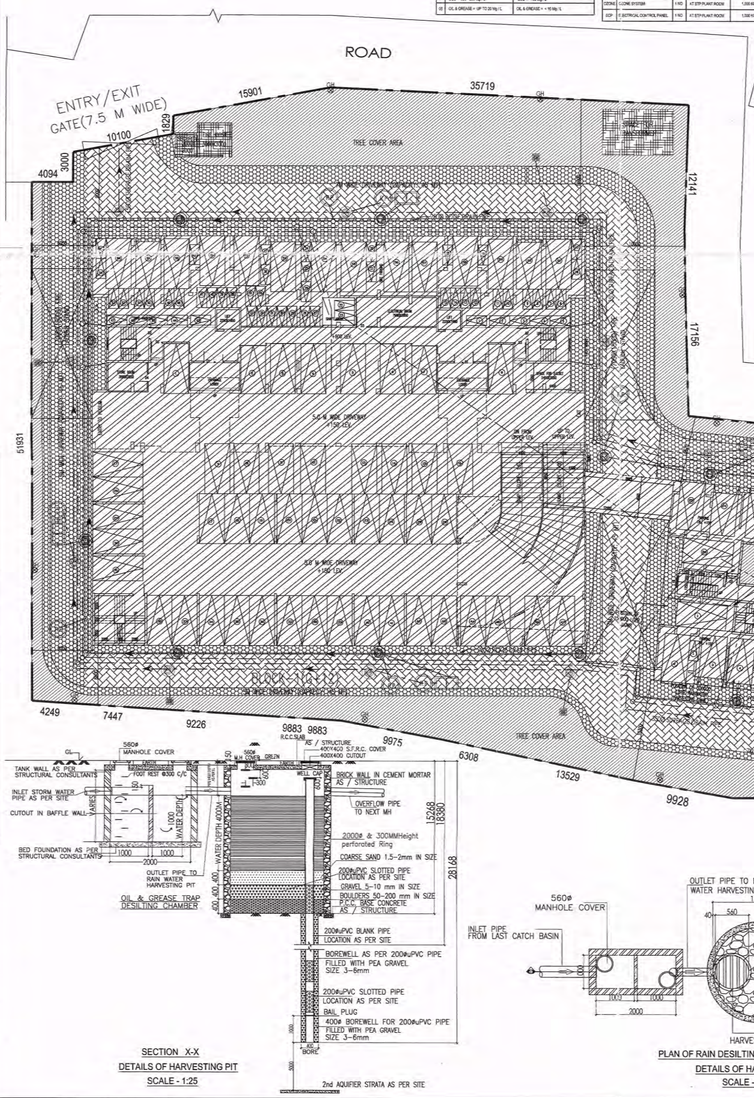
SERVICE AREA

RECHARGE PIT (RP)

GARDEN HYDRANT (GH)

LEGEND:-

1. SEWERAGE LINE
2. STORM WATER LINE
3. SURFACE WATER LINE
4. FRESH WATER LINE
5. FLUSHING WATER LINE
6. C.B.(CATCH BASIN 450x450mm)
7. 900Ø/1200Ø/1500Ø (MANHOLE) (SH) (SH)



SITE PLAN

SCALE -1:600

LOCATION PLAN

NOT TO SCALE

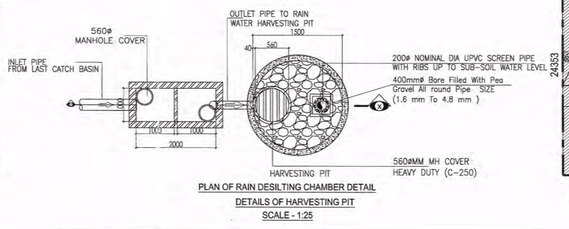
GROUND FLOOR PLAN

SCALE -1:200

SECTION X-X

DETAILS OF HARVESTING PIT

SCALE - 1:25



PLAN OF RAIN DESILTING CHAMBER DETAIL

DETAILS OF HARVESTING PIT

SCALE - 1:25

REVISED SANCTIONED PLAN

File No. 4021550/4/REV/KMDA

1. Sale should not be any court case or any complains from any corner in respect of the said property as per plan.
2. " South 24 Parganas Zilla Parishad" will not be liable if any dispute arises at the site.

16/9/20

District Engineer
South 24 Pgs. Z.P.

For CENTRAL GOVERNMENT EMPLOYEES WELFARE HOUSING ORGANISATION

GOUSAL AZAM
PROJECT MANAGER
C.G.E.WH.O.
KOLKATA-PH-III

C.G.E.WH.O. Project, Kolkata-PH-III

AUTHORISED SIGNATORY

SIGNATURE OF OWNER

CERTIFICATE OF STRUCTURAL ENGINEER.

THIS IS TO CERTIFY THAT THE STRUCTURAL DESIGN AND DRAWINGS OF BOTH FOUNDATION AND SUPER STRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECTS.

SIGNATURE OF STRUCTURAL ENGG.

CERTIFICATE OF ARCHITECTS.

I DO HEREBY CERTIFY WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS BEEN DRAWN UP AS PER NATIONAL BUILDING CODE OF INDIA 2016 & W.B. MUNICIPAL BUILDING RULES AS AMENDED FROM TIME TO TIME. THAT THE WIDTH OF THE ABUTTING ROAD CONFORM WITH THE PLAN AND IT IS A BUILDABLE SITE NOT A TANK OR A FILLED UP TANK. THE SITE PLAN, LOCATION PLAN AGREES WITH THE SITE. THE PLOT IS DEMARCATED BY BOUNDARY WALLS & MEASUREMENTS TALLY WITH THE REGD. DEED PLAN. THE EXISTING STRUCTURE AS SHOWN FULLY OCCUPIED BY OWNERS AS PER OWNERS' UNDERTAKING.

SOUMAYA KANTI GHOSH
B. Arch.
Reg. No.- CA/2009/46527

SOUMAYA KANTI GHOSH (CA/2009/46527)

SIGNATURE OF ARCHITECTS / L.B.S.

TITLE-

GROUND FLOOR PLAN , SITE PLAN , LOCATION PLAN , DETAILS OF S.T.P & U.G.W.R

PROJECT

PROPOSED CGEWHO HOUSING PROJECT KOLKATA PHASE III

ONE NO. G+12 STORIED (BLOCK-1) WITH 3 LAYERED PODIUM PARKING,THREE NO. G+12 STORIED (BLOCK-2,3,4) UNDER GROUP RESIDENTIAL BUILDING AT D. H. ROAD, MOUZA - SARMESTARCHAK, J.L. NO. 17, R.S. DAG NOS. 115, 116 & 117, CORRESPONDING TO L.R. DAG NOS. 114, 115 & 116, MOUZA - DAULATPUR, J.L. NO. 79, R.S./L.R. DAG NOS. 23, 27, 28, 29, 30, 31, 32, & 49, POST OFFICE - PAULAN HAT, POLICE STATION - BISHNUPUR, WITHIN KULERDARI GRAM PANCHAYET, DISTRICT - SOUTH 24 PARGANAS. PREVIOUSLY KNOWN AS " THE 102 ".

DRAWING NO - 15

ARCHITECTS

ACRE ARCHITECTS

HOWRAH | KOLKATA

SCALE	DATE	DEALT	CHECKED
1 : 100	10.03.2020	UMA	SOUMAYA