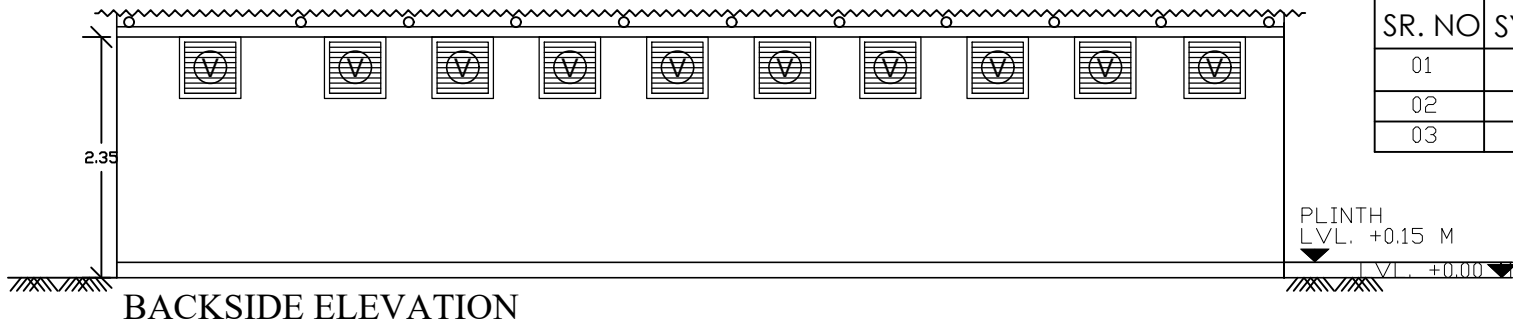
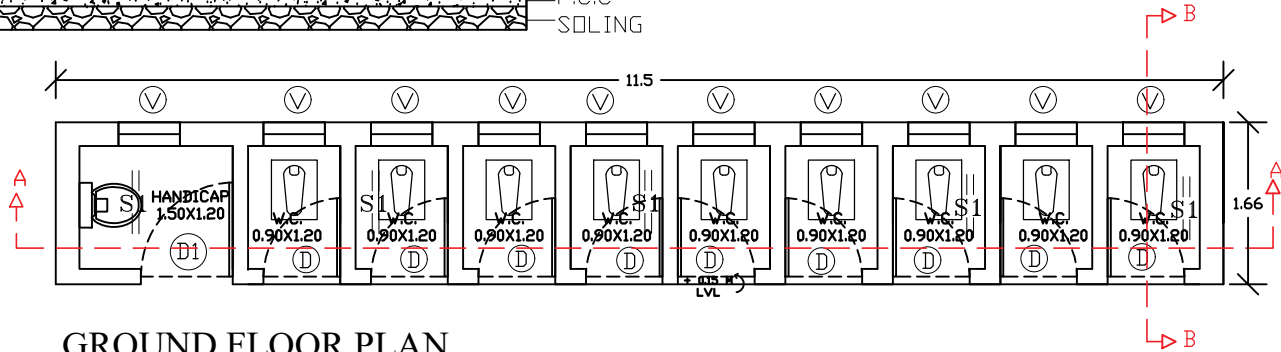
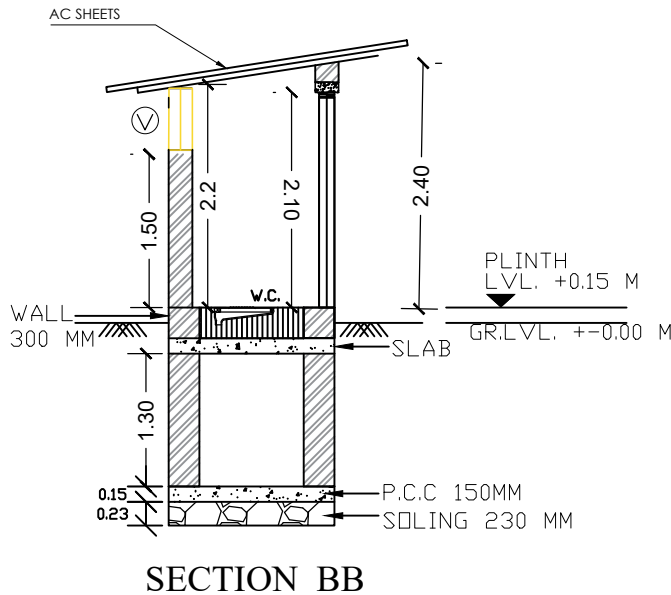
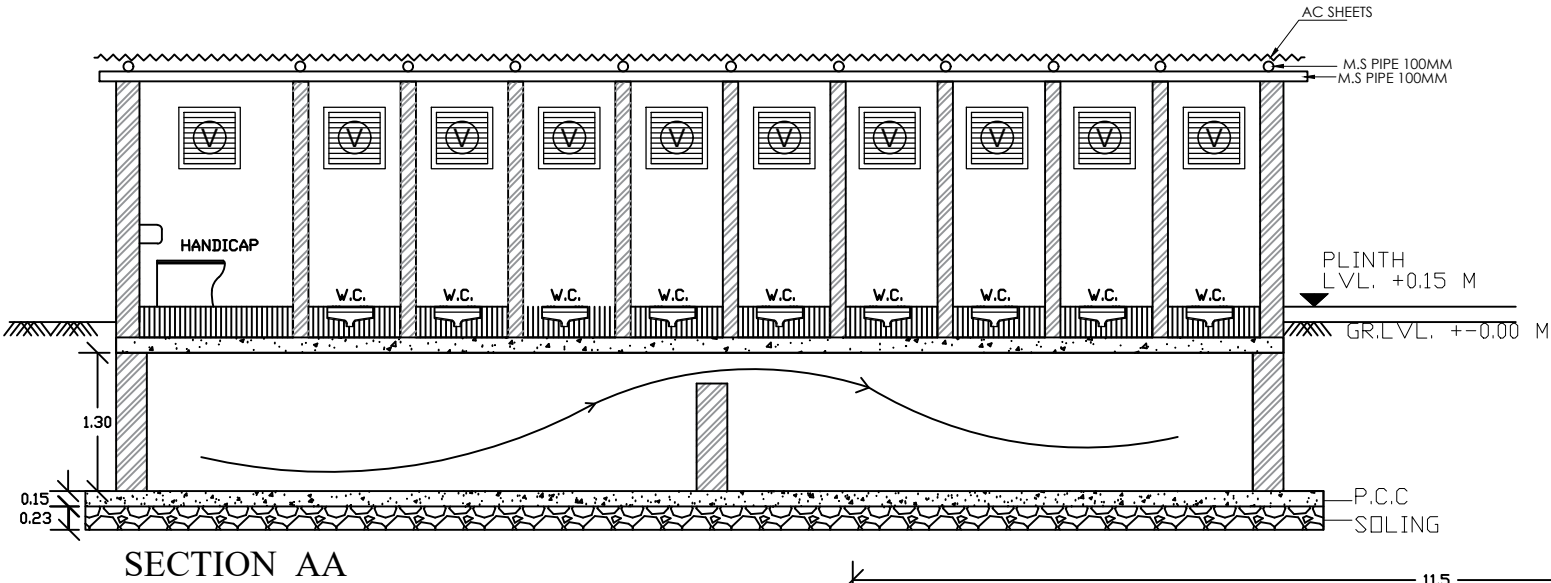
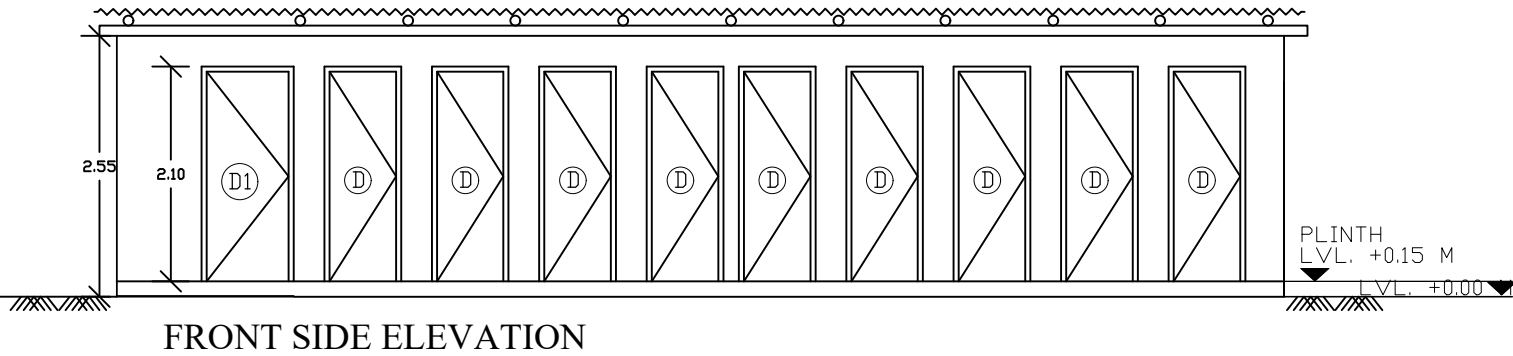


SCHEDULE OF PLINTH FLOOR SLAB

SLAB NO.	SIZE (OVERALL) IN MM	MID SPAN MAIN BARS		TOP BARS THROUGHOUT	EXTRA TOP BARS UPTO 0.3XL FROM FACE OF BEAM	DISTRIBUTION BARS C/C	REMARKS
		BOTTOM BARS	BOTTOM BENT-UP@0.25 FROM CETER OF SUPPORT				
S1	150	10 T @150 C/C	--	10 T @150 C/C	--	10 T @150 C/C	ONE WAY MESH



SR. NO	SYMBOL	DESCRIPTION	SIZE
01	D	FRP DOOR	0.75X2.1
02	D1	FRP DOOR	0.90X2.1
03	V	R.C.C JALI	0.60X0.60



SEATS - 10 (SPT)

- NOTES:-
- The following is done at the specific instruction MCGM.
- All dimesion are in m otherwise noted.
 - Any statutory approval from concerned authority shall be in the scope of MCGM.
 - Admixture KP 200 (@2kg/cum) to be mixed with concrete of UG septic and water tanks. PPC Cement should be used for tiling, plaster etc.
 - External plaster 20 mm thk in two coats in 1:4 C.M.with Additional waterproofing compound.
 - Internal sand face plaster 12-15 mm thk.
 - Polished kota stone shall be laid for flooring in passage, pump room including c.m.
 - Light colored glazed ceramic tiles for dado upto 2.1 m of less than 0.3 x 0.3 m size.
 - Suitable vent pipe to be provided in septic tank layout.
 - Urinal Partition of 0.75 x 1.8 m in green marble.
 - Pre construction anti-termite treatment to be provided.
 - All dimension are in meter.
 - size may vary in case of site hinderances.
 - External wall=230mm.
 - Internal wall=150mm.

GROUND FLOOR BUILT UP AREA CALCULATIONS	
ADDITIONS:	
A	= 11.5 X 1.66 X 1 = 19.09 sq.m.
TOTAL= 19.09sq.m.	

M-Jiwani MINATI D. JIWANI B. Arch. CA/2018/91360					
RIVISION	DATE	SIGNATURES			
R0					
R1					
R2					
R3					
R4					
R5		S.E.	A.E.	EX.ENGG.	DY. CH. ENGG.



JIWANI CONSTRUMA PVT.LTD.
Adding Life to Structures

Jiwani Construma Pvt Ltd.
An ISO 9001:2015 Certified Company
(Architectural & Structural Consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

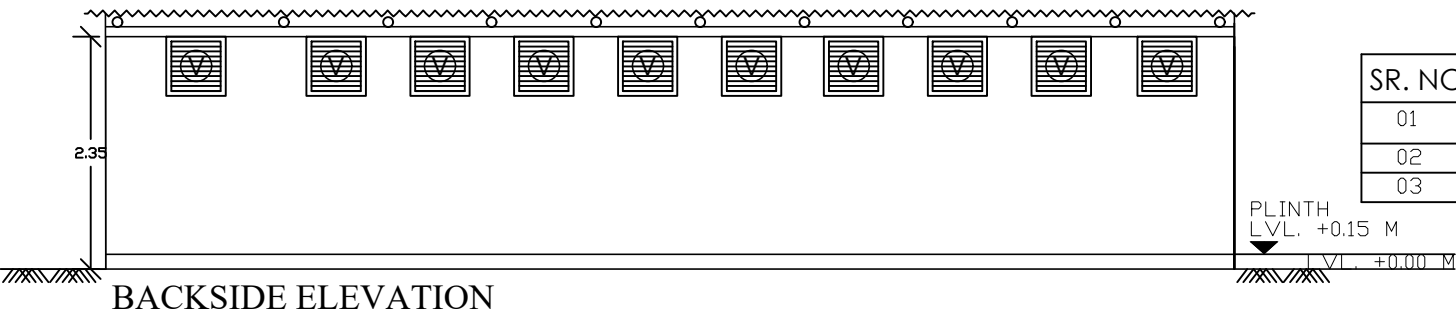
PROJECT:
CLIENT: BMC



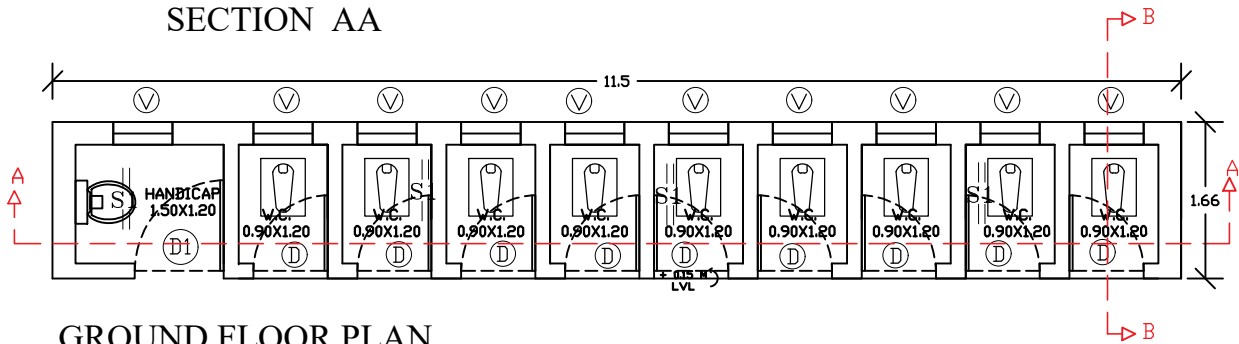
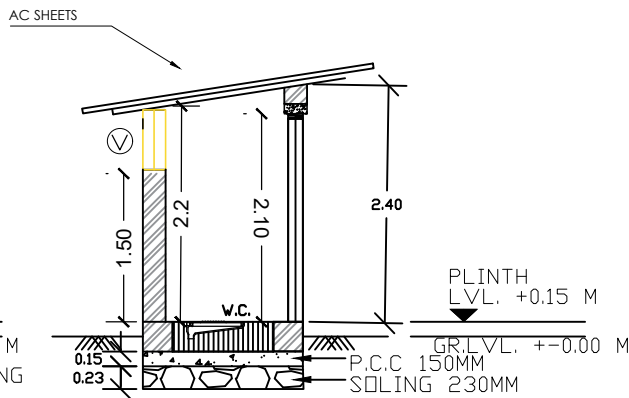
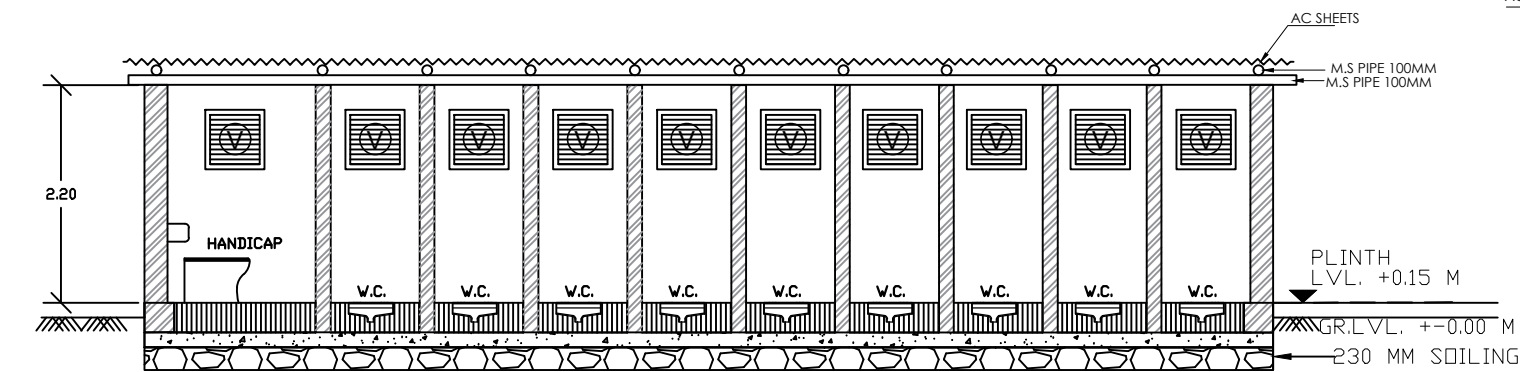
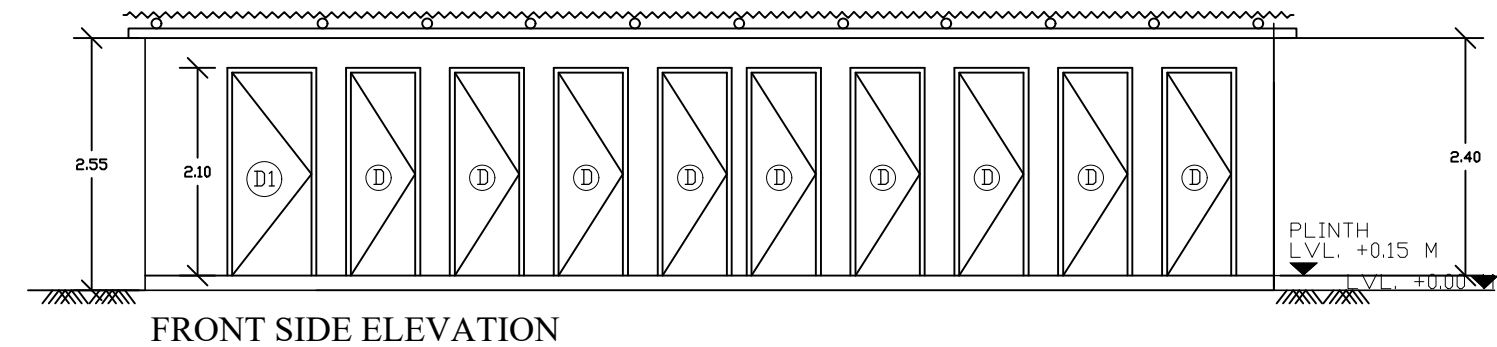
GENERAL ARRANGEMENT DRAWING FOR TENDER	
DRG. TITLE : ARCHITECTURAL DRAWING.	
DRAWN:	DATE

SCHEDULE OF PLINTH FLOOR SLAB

SLAB NO.	SIZE (OVERALL) IN MM	MID SPAN MAIN BARS		TOP BARS THROUGHOUT	EXTRA TOP BARS UPTO 0.3XL FROM FACE OF BEAM	DISTRIBUTION BARS C/C	REMARKS
		BOTTOM BARS	BOTTOM BENT-UP@0.25 FROM CETER OF SUPPORT				
S1	150	10 T @150 C/C	--	10 T @150 C/C	--	10 T @150 C/C	ONE WAY MESH



SR. NO	SYMBOL	DESCRIPTION	SIZE
01	D	FRP DOOR	0.75X2.1
02	D1	FRP DOOR	0.90X2.1
03	V	R.C.C JALI	0.60X0.60



SEATS - 10 (SWR)

- NOTES:-
- The following is done at the specific instruction MCGM.
- All dimesion are in m otherwise noted.
 - Any statutory approval from concerned authority shall be in the scope of MCGM.
 - Admixture KP 200 (@2kg/cum) to be mixed with concrete of UG septic and water tanks. PPC Cement should be used for tiling, plaster etc.
 - External plaster 20 mm thk in two coats in 1:4 C.M.with Additional waterproofing compound.
 - Internal sand face plaster 12-15 mm thk.
 - Polished kota stone shall be laid for flooring in passage, pump room including c.m.
 - Light colored glazed ceramic tiles for dado upto 2.1 m of less than 0.3 x 0.3 m size.
 - Suitable vent pipe to be provided in septic tank layout.
 - Urinal Partition of 0.75 x 1.8 m in green marble.
 - Pre construction anti-termite treatment to be provided.
 - All dimension are in meter.
 - size may vary in case of site hinderances.
 - External wall=230mm.
 - Internal wall=150mm.

GROUND FLOOR BUILT UP AREA CALCULATIONS					
ADDITIONS:					
A = 11.5 X 1.66 X 1 = 19.09 sq.m.					
TOTAL= 19.09sq.m.					
M. Jiwani					
MINATI D. JIWANI B. Arch. CA/2018/91360					
RVISION	DATE	SIGNATURES			
R0					
R1					
R2					
R3					
R4					
R5		S.E.	A.E.	EX.ENGG.	DY. CH. ENGG.



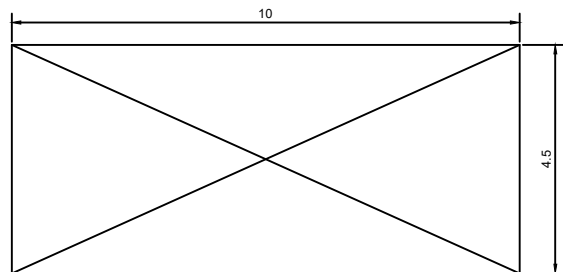
JIWANI CONSTRUMA PVT.LTD.
Adding Life to Structures

Jiwani Construma Pvt Ltd.
An ISO 9001:2015 Certified Company
(Architectural & Structural Consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

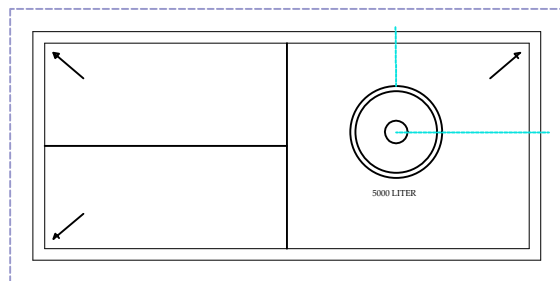
PROJECT:
CLIENT: BMC



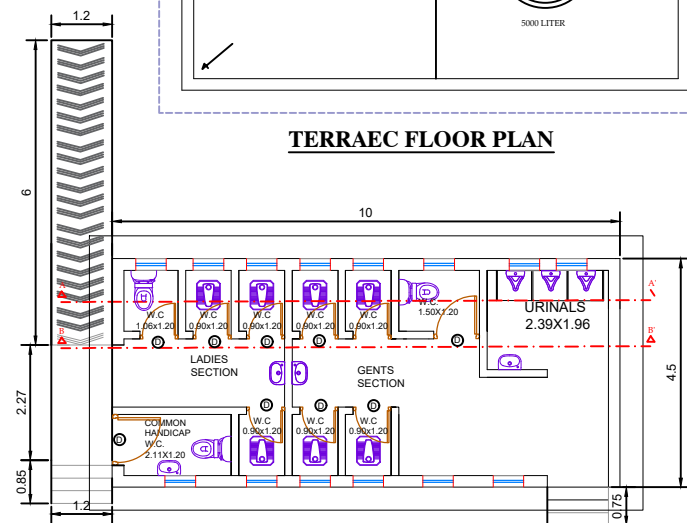
GENERAL ARRANGEMENT DRAWING FOR TENDER
DRG. TITLE : ARCHITECTURAL DRAWING.
DRAWN: DATE



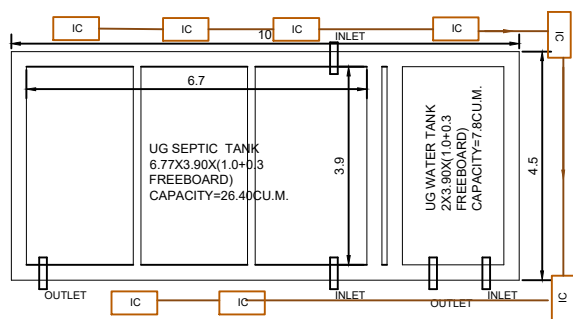
AREA LINE DIAGRAM



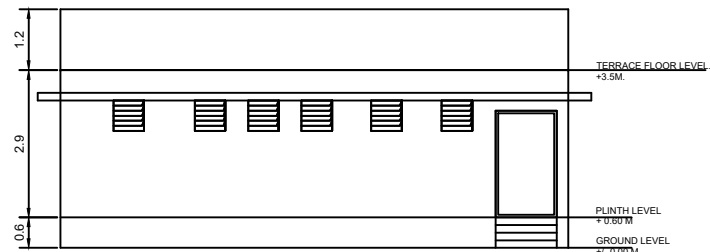
TERRAEC FLOOR PLAN



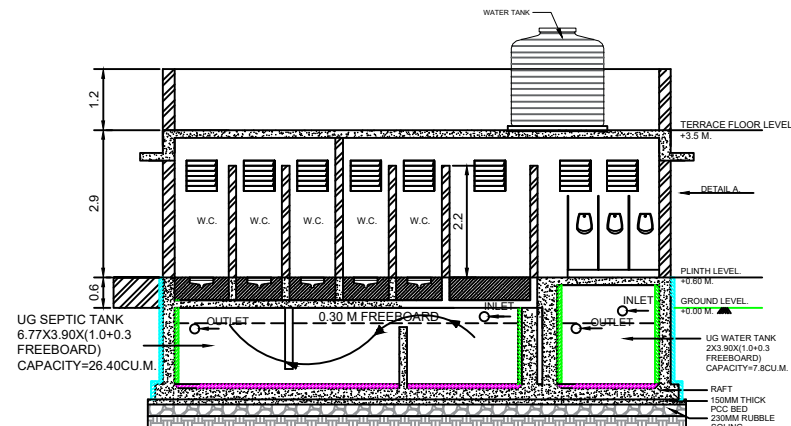
GROUND FLOOR PLAN



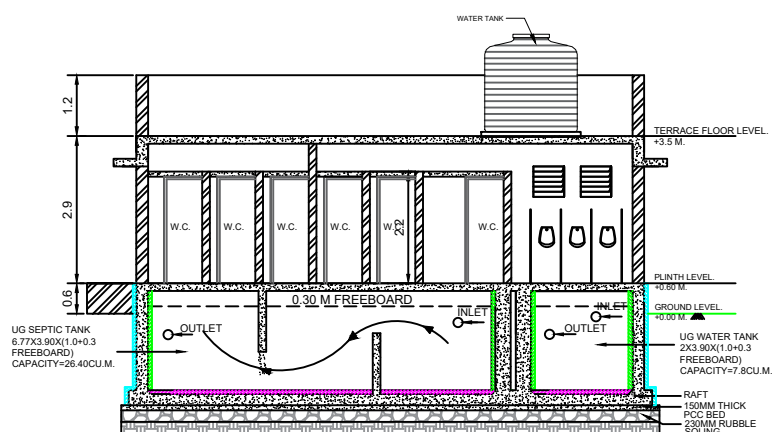
UNDERGROUND WATER TANK PLAN



FRONT ELEVATION



SECTION A-A'



SECTION B-B'

SCHEDULE OF TOILETS			
TYPE	GENTS	LADIES	TOTAL
W.C.	04	03	07
COMMON HANDICAP.	00	00	01
WESTERN	01	01	02
URINAL.	03	00	03

DESIGN OF SEPTIC TANK CALCULATIONS-
A). ASSUMPTION FOR SEPTIC TANK CALCULATION IS AS FOLLOWS
1). NO OF USERS PER SEAT : 35 ANNEXURE - N1
2). SLUDGE CLEANING INTERVAL : 3 MONTHS
3). SLUDGE ACCUMULATION RATE : 0.00021 CUM PER CAPITA PER DAY.
4). WASTE WATER DETENTION PERIOD : 2 DAYS
5). WASTE WATER ENTERING THE TANK : 8 LIT PER USERS
6). SCUM ACCUMULATION : 30% OF SLUDGE VOLUME
7). TOTAL CAPACITY OF SEPTIC TANK : WASTE WATER + SLUDGE +SCUM.

A). WASTE WATER ENTERING IN SEPTIC TANK
=35 X 10 = 350
=8 X 350 = 2800 LIT PER DAY
TOTAL CAPACITY OF SEPTIC TANK
(DETENTION PERIOD 2 DAYS)
=2 X 2800 = 5.6 CUM(I)
B) VOLUME OF SLUDGE STORAGE
=0.00021X350X182.5
=13.41 CUM.....(II)
C). VOLUME OF SCUM
=0.3X13.41
=4.02 CUM(III)
REQUIRED TOTAL CAPACITY OF THE SEPTIC TANK IS
=5.6+13.41+4.02
=23.03 CUM
PROVIDED OVER ALL INTERNAL SIZE OF TANK IS
=[(6.77 X3.90 X 1.0+ 0.3 FREEBOARD)]
=26.403 CU M Ie. OK SAFE

B). CALCULATION FOR DESIGN OF UGWT
REQUIRED UGWT = 560 LIT/SEAT[TD. PG-62-(Vi)]
=560 x 10 =
=5600 LITER
PROVIDED UGWT IS
=2 X 3.9X (1.0+ 0.3 FREEBOARD)
=7.8 LITERIe. OK SAFE.

C). CALCULATION FOR DESIGN OF OHWT
REQUIRED OHWT = 280 LIT/SEAT[TD. PG-62-(Viii)]
=280 LIT X 10
=2800 LITER
PROVIDED OHWT IS 3000 LITERIe OK SAFE

SCHEDULE OF DOOR & WINDOWS

TYPE	NOS	SIZE	DESCRIPTION
D	09	0.75 X 2.10	FRP DOOR
CG	3	1.2 X 2.10	M.S. COLLAPSIBLE GATE
V	14	0.60 X 0.60	RCC VENTILATOR
D1	.1	1 X 2.10	FRP DOOR

TANKS DESCRIPTION

TYPE	CAPACITY	DIMENSION
UGT	7800 LITER	2 X 3.90 X 1.0
SEPTIC	2640 LITER	6.77 X 3.90 X 1.0
OHT	3000 LITER	---
TOTAL	13440 LITER	---

SEATS - 10 (SPT)

NOTES:-

The following is done at the specific instruction MCGM.

- . All dimesion are in m otherwise noted.
- . Any statutory approval from concerned authority shall be in the scope of MCGM.
- . Admixture KP 200 (@2kg/cum) to be mixed with concrete of UG septic and water tanks. PPC Cement should be used for tiling, plaster etc.
- . External plaster 20 mm thk in two coats in 1:4 C.M.with Additional waterproofing compound.
- . Internal sand face plaster 12-15 mm thk.
- . Polished kota stone shall be laid for flooring in passage, pump room including c.m.
- . Light colored glazed ceramic tiles for dado upto 2.1 m of less than 0.3 x 0.3 m size.
- . Suitable vent pipe to be provided in septic tank layout.
- . Urinal Partition of 0.75 x 1.8 m in green marble.
- . Pre construction anti-termite treatment to be provided.
- . All dimension are in meter.
- . size may vary in case of site hinderances.
- . External wall=230mm.
- . Internal wall=150mm.

GROUND FLOOR BUILT UP AREA CALCULATIONS

ADDITIONS:

A = 10 X 4.5 X 1 = 45.00 sq.m.

TOTAL= 45.00 sq.m.

MAXIMUM PERMISSIBLE FOR PAYMENT = 10 x 4.5 = 45 sq.m.

M-Jiwani

MINATI D. JIWANI
B. Arch.
CA/2018/91360

RIVISION	DATE	SIGNATURES			
R0					
R1					
R2					
R3					
R4		S.E.	A.E.	EX.ENGG.	DY. CH. ENGG.
R5					

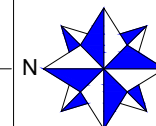


JIWANI CONSTRUMA PVT.LTD.
Adding Life to Structures

Jiwani Construma Pvt Ltd.
An ISO 9001:2015 Certified Company
(Architectural & Structural Consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

PROJECT:

CLIENT: BMC

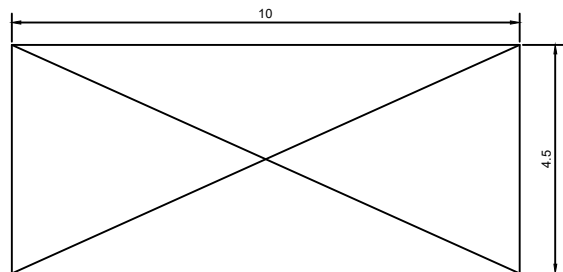


GENERAL ARRANGEMENT DRAWING FOR TENDER

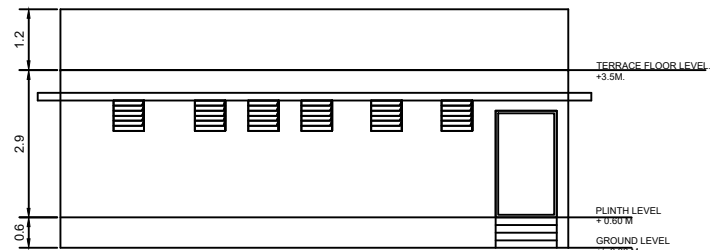
DRG. TITLE : ARCHITECTURAL DRAWING.

DRAWN:

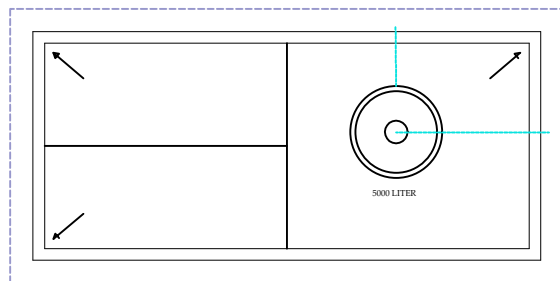
DATE



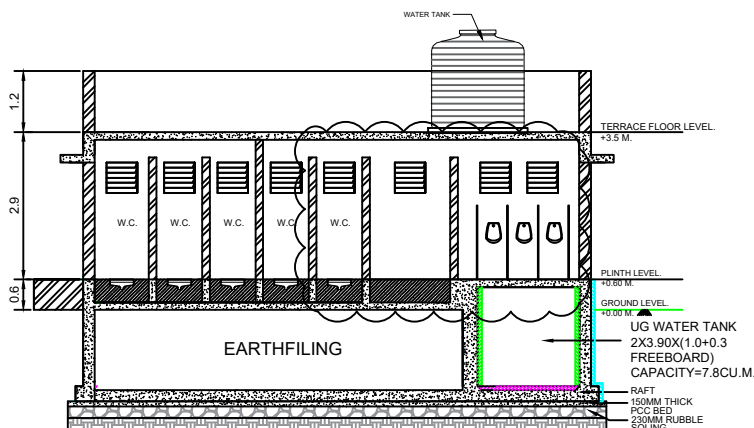
AREA LINE DIAGRAM



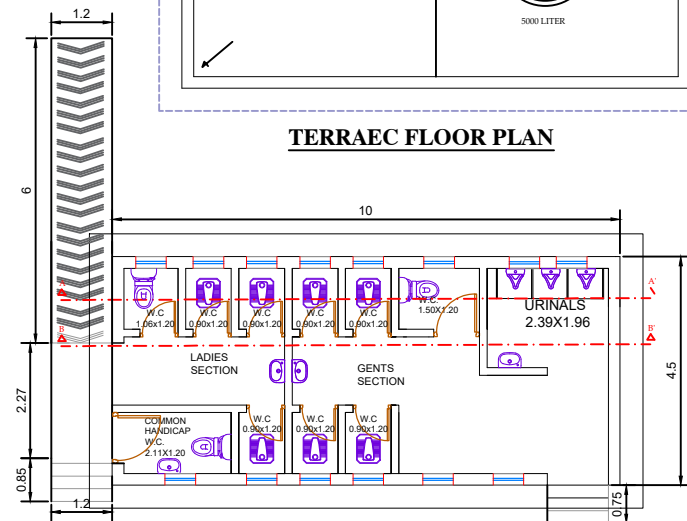
FRONT ELEVATION



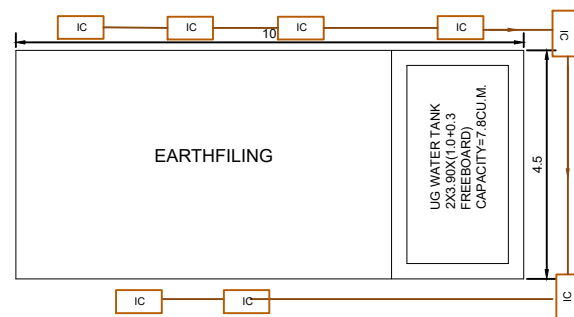
TERRAEC FLOOR PLAN



SECTION A-A



GROUND FLOOR PLAN



UNDERGROUND WATER TANK PLAN

DESIGN OF SEPTIC TANK CALCULATIONS-

A). ASSUMPTION FOR SEPTIC TANK CALCULATION IS AS FOLLOWS

- 1). NO OF USERS PER SEAT : 40 ANNEXURE - N1
- 2). SLUDGE CLEANING INTERVAL : 3 MONTHS
- 3). SLUDGE ACCUMULATION RATE : 0.00021 CUM PER CAPITA PER DAY.
- 4). WASTE WATER DETENTION PERIOD : 2 DAYS
- 5). WASTE WATER ENTERING THE TANK : 8 LIT PER USERS
- 6). SCUM ACCUMULATION : 30% OF SLUDGE VOLUME
- 7). TOTAL CAPACITY OF SEPTIC TANK : WASTE WATER + SLUDGE +SCUM.

A). CALCULATION FOR DESIGN OF UGWT

REQUIRED UGWT = 560 LIT/SEAT[TD. PG-62-(Vi)]

=560 x 10=

=5600 LITER

PROVIDED UGWT IS

=2 X 3.9X (1.0+ 0.3 FREEBOARD)

=7.8 LITERle. OK SAFE.

B). CALCULATION FOR DESIGN OF OHWT

REQUIRED OHWT = 280 LIT/SEAT[TD. PG-62-(Viii)]

=280 LIT X 10

=2800 LITER

PROVIDED OHWT IS 3000 LITER ...le OK SAFE

SCHEDULE OF DOOR & WINDOWS

TYPE	NOS	SIZE	DESCRIPTION
D	09	0.75 X 2.10	FRP DOOR
CG	3	1.2 X 2.10	M.S. COLLAPSIBLE GATE
V	14	0.60 X 0.60	RCC VENTILATOR
D1	.1	1 X 2.10	FRP DOOR

TANKS DESCRIPTION

TYPE	CAPACITY	DIMENSION
UGT	7800 LITER	2 X 3.90 X 1.0
SEPTIC	2640 LITER	6.77 X 3.90 X 1.0
OHT	3000 LITER	---
TOTAL	13440 LITER	---

SCHEDULE OF TOILETS

TYPE	GENTS	LADIES	TOTAL
W.C.	04	03	07
COMMON HANDICAP.	00	00	01
WESTERN	01	01	02
URINAL.	03	00	03

SEATS - 10 (SWR)

NOTES:-

The following is done at the specific instruction MCGM.

- . All dimesion are in m otherwise noted.
- . Any statutory approval from concerned authority shall be in the scope of MCGM.
- . Admixture KP 200 (@2kg/cum) to be mixed with concrete of UG septic and water tanks. PPC Cement should be used for tiling, plaster etc.
- . External plaster 20 mm thk in two coats in 1:4 C.M.with Additional waterproofing compound.
- . Internal sand face plaster 12-15 mm thk.
- . Polished kota stone shall be laid for flooring in passage, pump room including c.m.
- . Light colored glazed ceramic tiles for dado upto 2.1 m of less than 0.3 x 0.3 m size.
- . Suitable vent pipe to be provided in septic tank layout.
- . Urinal Partition of 0.75 x 1.8 m in green marble.
- . Pre construction anti-termite treatment to be provided.
- . All dimension are in meter.
- . size may vary in case of site hinderances.
- . External wall=230mm.
- . Internal wall=150mm.

GROUND FLOOR BUILT UP AREA CALCULATIONS

ADDITIONS:

A = 10 X 4.5 X 1 = 45.00 sq.m.

TOTAL= 45.00 sq.m.

MAXIMUM PERMISSIBLE FOR PAYMENT = 10 x 4.5 = 45 sq.m.

M-Jiwani

MINATI D. JIWANI
B. Arch.
CA/2018/91360

RIVISION	DATE	SIGNATURES			
R0					
R1					
R2					
R3					
R4					
R5		S.E.	A.E.	EX.ENGG.	DY. CH. ENGG.



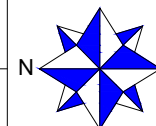
JIWANI CONSTRUMA PVT.LTD.

Adding Life to Structures

Jiwani Construma Pvt Ltd.
An ISO 9001:2015 Certified Company
(Architectural & Structural Consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

PROJECT:

CLIENT: BMC

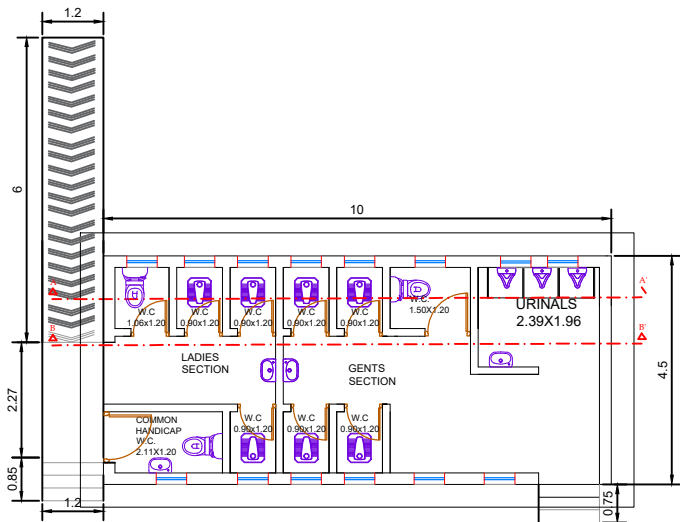


GENERAL ARRANGEMENT DRAWING FOR TENDER

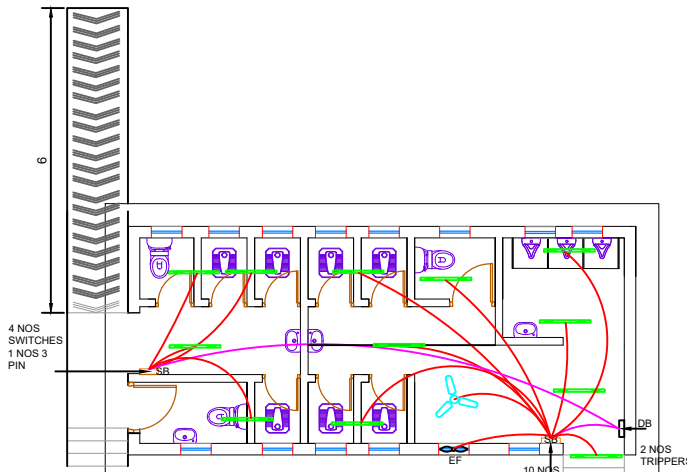
DRG. TITLE : ARCHITECTURAL DRAWING.

DRAWN:

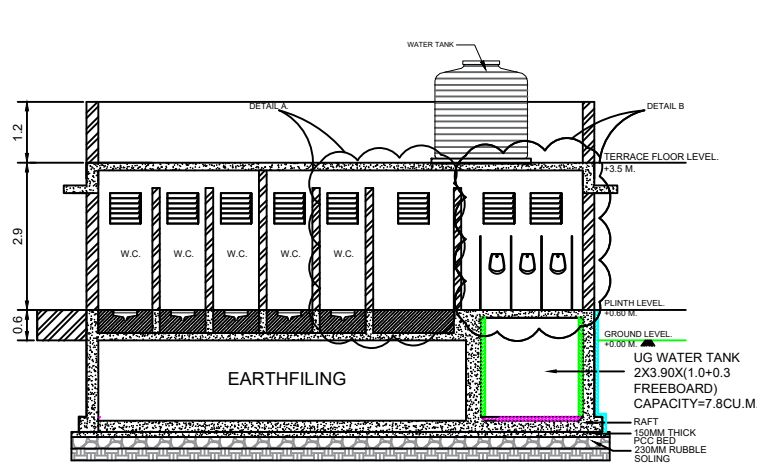
DATE



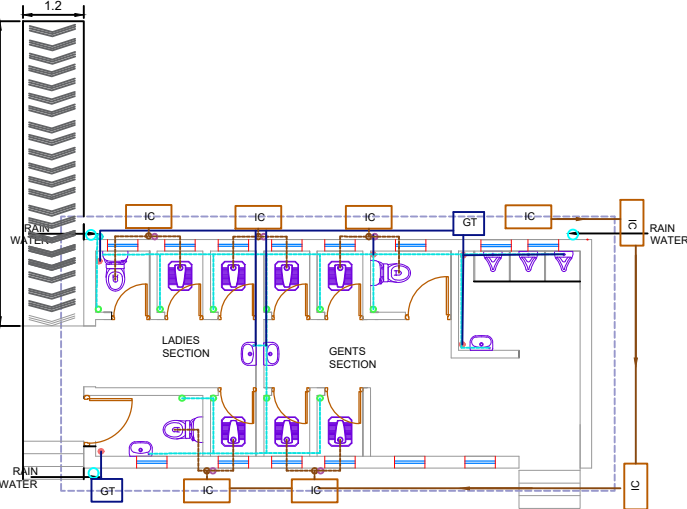
GROUND FLOOR PLAN



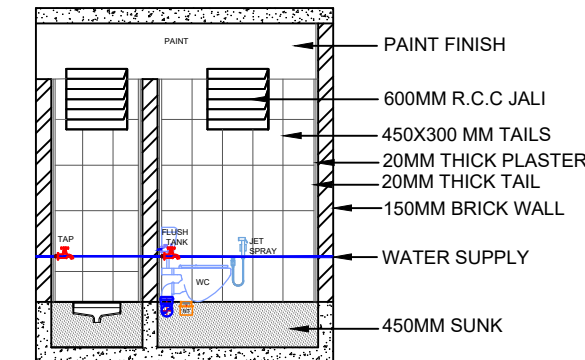
GROUND FLOOR ELECTRICAL PLAN



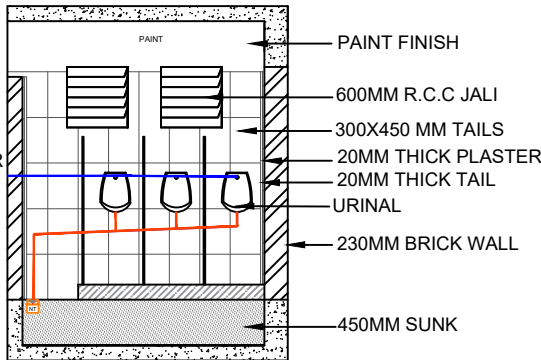
SECTION A-A



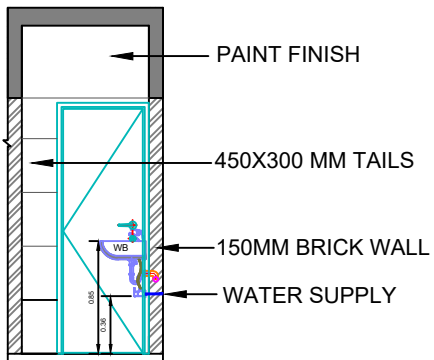
GROUND FLOOR PLUMBING PLAN



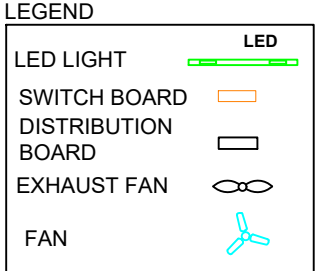
DEATAIL A



DEATAIL B



DETAIL OF WASH BASIN



SCHEDULE OF ELECTRICAL POINTS		
PARTICULARS	GROUND. F.L	TOTAL
LED	12	12
FT (FAN POINT)	01	01
SWITCH BOARD	02	02
DISTRIBUTION BOARD	01	01
EXHAUST FAN	01	01

LEGENDS:	
	110MM Ø SOIL PIPE
	80MM Ø VENT PIPE
	110MM Ø WASTE WATER PIPE
	50MM Ø TERRACE LOOPING
	25MM Ø WATER SUPPLY PIPE
	TAP
	NAHANI TRAP
	INSPECTION CHAMBER

WATERPROOFING DESCRIPTION	
	SHAHBAD LADI PROTECTION
	2 COAT PLASTER WITH ADDED WATERPROOFING SOLUTION
	25 MM WATERPROOF CEMENT MORTAR (1:3)

SEATS - 10 (SWR)

- NOTES:-
- The following is done at the specific instruction MCGM.
- . All dimesion are in m otherwise noted.
 - . Any statutory approval from concerned authority shall be in the scope of MCGM.
 - . Admixture KP 200 (@2kg/cum) to be mixed with concrete of UG septic and water tanks. PPC Cement should be used for tiling, plaster etc.
 - . External plaster 20 mm thk in two coats in 1:4 C.M.with Additional waterproofing compound.
 - . Internal sand face plaster 12-15 mm thk.
 - . Polished kota stone shall be laid for flooring in passage, pump room including c.m.
 - . Light colored glazed ceramic tiles for dado upto 2.1 m of less than 0.3 x 0.3 m size.
 - . Suitable vent pipe to be provided in septic tank layout.
 - . Urinal Partition of 0.75 x 1.8 m in green marble.
 - . Pre construction anti-termite treatment to be provided.
 - . All dimension are in meter.
 - . size may vary in case of site hinderances.
 - . External wall=230mm.
 - . Internal wall=150mm.

GROUND FLOOR BUILT UP AREA CALCULATIONS	
ADDITIONS:	
A = 10 X 4.5 X 1 = 45.00 sq.m.	TOTAL= 45.00 sq.m.
MAXIMUM PERMISSIBLE FOR PAYMENT = 10 x 4.5 = 45 sq.m.	

M-Iiwani					
MINATI D. JIWANI B. Arch. CA/2018/91360					
RIVISION	DATE	SIGNATURES			
R0					
R1					
R2					
R3					
R4					
R5		S.E.	A.E.	EX.ENGG.	DY. CH. ENGG.

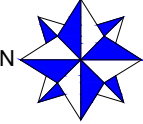


JIWANI CONSTRUMA PVT.LTD.
Adding Life to Structures

Jiwani Construma Pvt Ltd.
An ISO 9001:2015 Certified Company
(Architectural & Structural Consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

PROJECT:

CLIENT: BMC

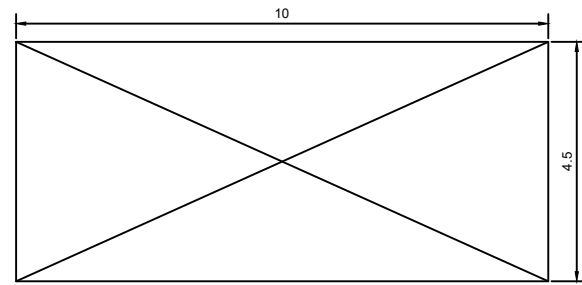


GENERAL ARRANGEMENT DRAWING FOR TENDER

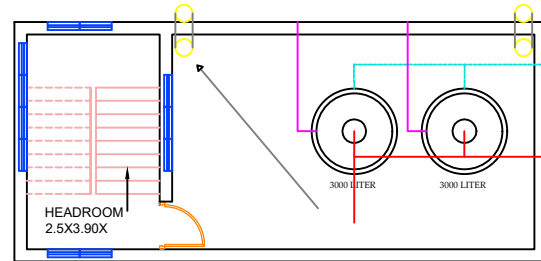
DRG. TITLE : ARCHITECTURAL DRAWING.

DRAWN:

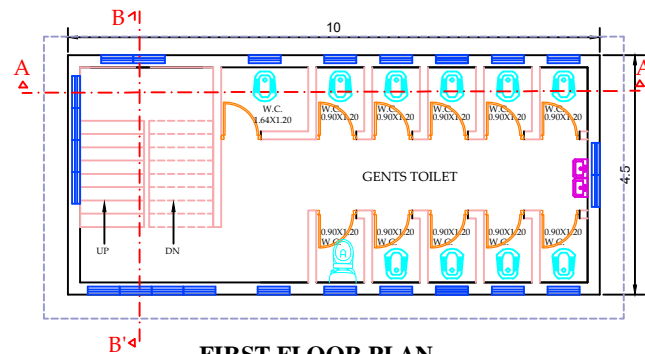
DATE



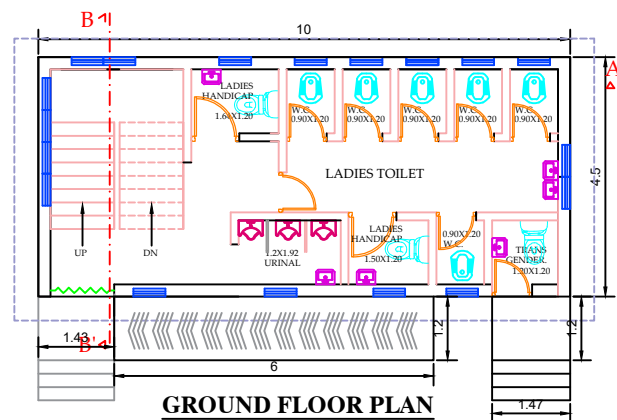
AREA LNE DIAGRAM



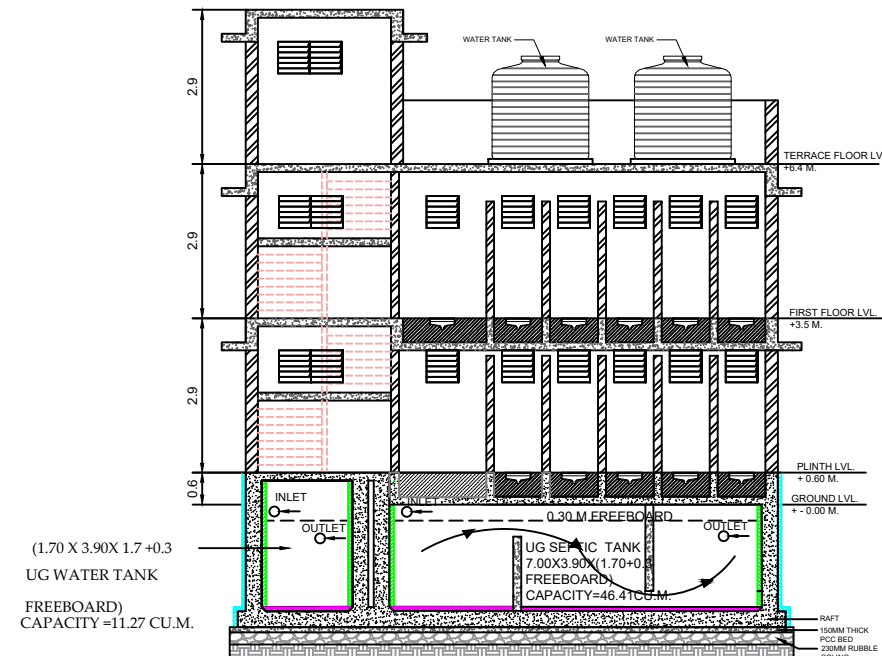
TERRAEC FLOOR PLAN



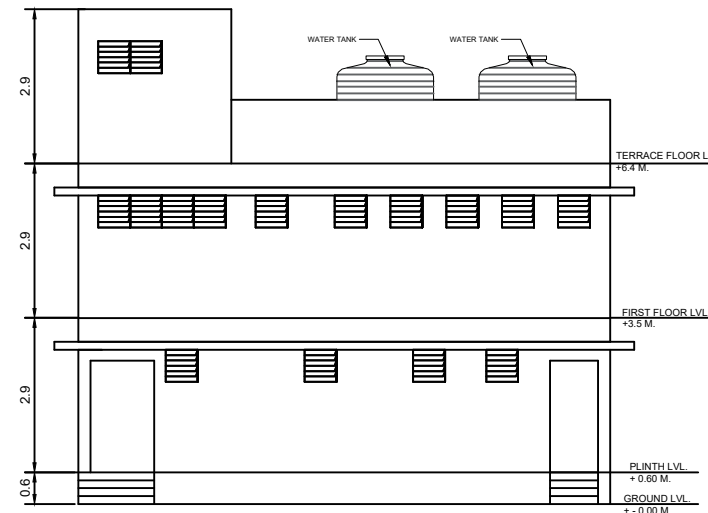
FIRST FLOOR PLAN



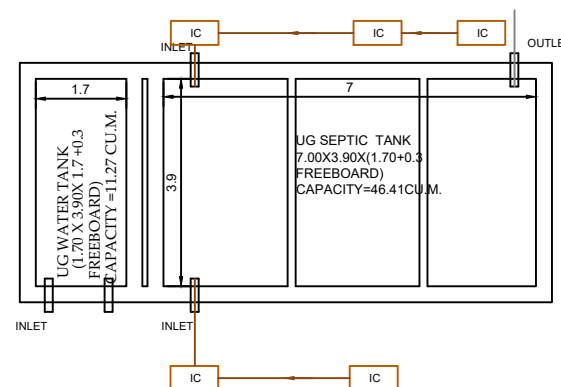
GROUND FLOOR PLAN



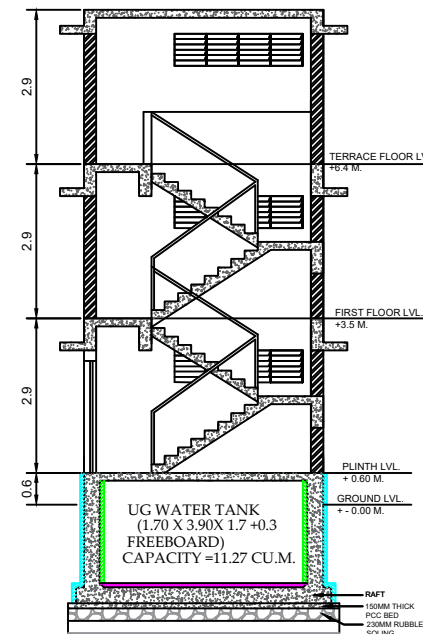
SECTION A-A



FRONT ELEVATION



UNDERGROUND WATER TANK PLAN



SECTION B-B

DESIGN OF SEPTIC TANK CALCULATIONS-
A). ASSUMPTION FOR SEPTIC TANK CALCULATION IS AS FOLLOWS
 1). NO OF USERS PER SEAT : 40 ANNEXURE - N1
 2). SLUDGE CLEANING INTERVAL : 3 MONTHS
 3). SLUDGE ACCUMULATION RATE : 0.00021 CUM PER CAPITA PER DAY.
 4). WASTE WATER DETENTION PERIOD : 2 DAYS
 5). WASTE WATER ENTERING THE TANK : 8 LIT PER USERS
 6). SCUM ACCUMULATION : 30% OF SLUDGE VOLUME
 7). TOTAL CAPACITY OF SEPTIC TANK : WASTE WATER + SLUDGE + SCUM.

A). WASTE WATER ENTERING IN SEPTIC TANK
 $= 35 \times 20 = 700$
 $= 8 \times 700 = 5600$ LIT PER DAY
TOTAL CAPACITY OF SEPTIC TANK (DETENTION PERIOD 2 DAYS)
 $= 2 \times 5600 = 11.20$ CUM(I)
B) VOLUME OF SLUDGE STORAGE
 $= 0.00021 \times 700 \times 182.5$
 $= 26.83$ CUM.....(II)
C). VOLUME OF SCUM
 $= 0.3 \times 26.83$
 $= 8.05$ CUM(III)
REQUIRED TOTAL CAPACITY OF THE SEPTIC TANK IS
 $= 11.20 + 26.83 + 8.05$
 $= 46.08$ CUM
PROVIDED OVER ALL INTERNAL SIZE OF TANK IS
 $= [(7.00 \times 3.90 \times 1.70 + 0.3 \text{ FREEBOARD})]$
 $= 46.41$ CU M le. OK SAFE

B). CALCULATION FOR DESIGN OF UGWT
REQUIRED UGWT = 560 LIT/SEAT[TD. PG-62-(Vi)]
 $= 560 \times 20 =$
 $= 11200$ LITER
PROVIDED UGWT IS
 $= 1.70 \times 3.90 \times (1.7 + 0.3 \text{ FREEBOARD})$
 $= 11.27$ LITERle. OK SAFE.

C). CALCULATION FOR DESIGN OF OHWT
REQUIRED OHWT = 280 LIT/SEAT[TD. PG-62-(VIII)]
 $= 280 \text{ LIT} \times 20$
 $= 5600$ LITER
PROVIDED OHWT IS 6000 LITERle OK SAFE

WATERPROOFING DESCRIPTION	
	SHAHBAD LADI PROTECTION
	2 COAT PLASTER WITH ADDED WATERPROOFING SOLUTION
	25 MM WATERPROOF CEMENT MORTAR (1:3)

SEATS - 20 (SPT)

NOTES:-

The following is done at the specific instruction MCGM.

- All dimension are in m otherwise noted.
- Any statutory approval from concerned authority shall be in the scope of MCGM.
- Admixture KP 200 (@2kg/cum) to be mixed with concrete of UG septic and water tanks. PPC Cement should be used for tiling, plaster etc.
- External plaster 20 mm thk in two coats in 1:4 C.M.with Additional waterproofing compound.
- Internal sand face plaster 12-15 mm thk.
- Polished kota stone shall be laid for flooring in passage, pump room including c.m.
- Light colored glazed ceramic tiles for dado upto 2.1 m of less than 0.3 x 0.3 m size.
- Suitable vent pipe to be provided in septic tank layout.
- Urinal Partition of 0.75 x 1.8 m in green marble.
- Pre construction anti-termite treatment to be provided.
- All dimension are in meter.
- size may vary in case of site hinderances.
- External wall=230mm.
- Internal wall=150mm.

GROUND FLOOR BUILT UP AREA CALCULATIONS

ADDITIONS:

A $= 10 \times 4.5 \times 1 = 45$ sq.m.

FIRST FLOOR BUILT UP AREA CALCULATIONS

ADDITIONS:

A $= 10 \times 4.5 \times 1 = 45$ sq.m.

TOTAL = 90 sq. m.

MAXIMUM PERMISSIBLE FOR PAYMENT $= 20 \times 4.5 = 90$ sq. m.

M. Jiwani
 MINATI D. JIWANI
 B. Arch.
 CA/2018/91360

RIVISION	DATE	SIGNATURES			
R0					
R1					
R2					
R3					
R4		S.E.	A.E.	EX.ENGG.	DY. CH. ENGG.
R5					



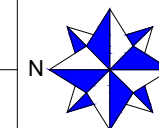
JIWANI CONSTRUMA PVT.LTD.

Adding Life to Structures

Jiwani Construma Pvt Ltd.
 An ISO 9001:2015 Certified Company
 (Architectural & Structural Consultants)
 7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
 e: info@jiwanigroup.in , t: 022 23861906

PROJECT:

CLIENT: BMC

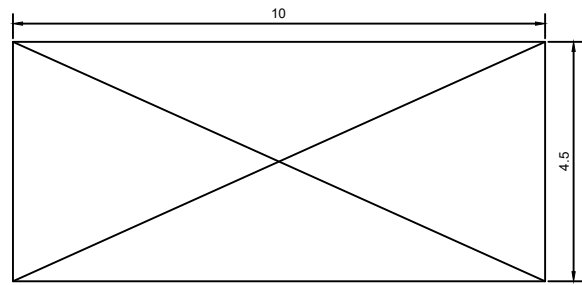


GENERAL ARRANGEMENT DRAWING FOR TENDER

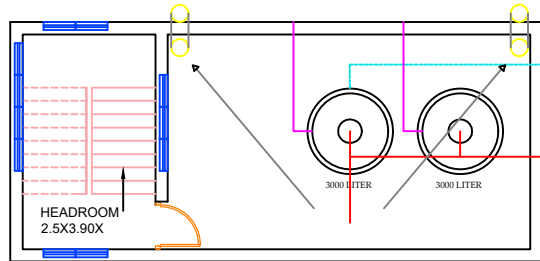
DRG. TITLE : ARCHITECTURAL DRAWING.

DRAWN:

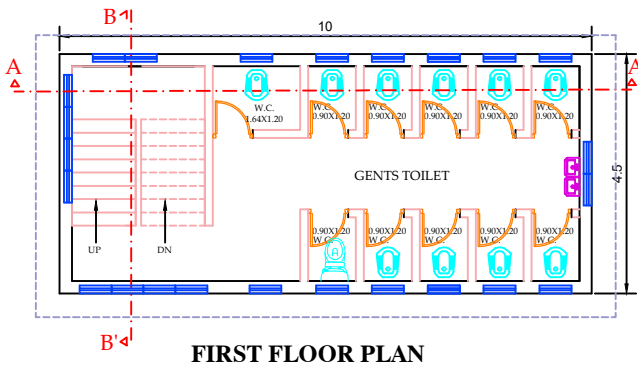
DATE



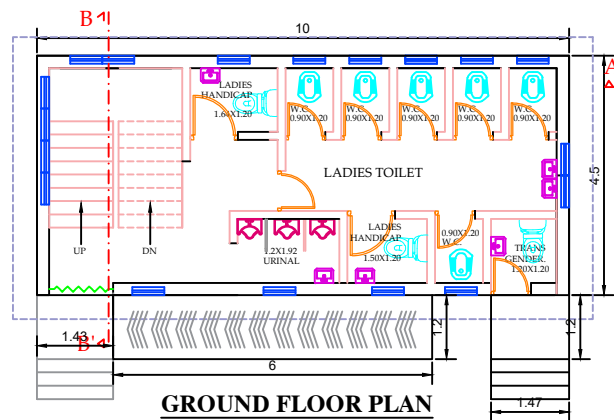
AREA LNE DIAGRAM



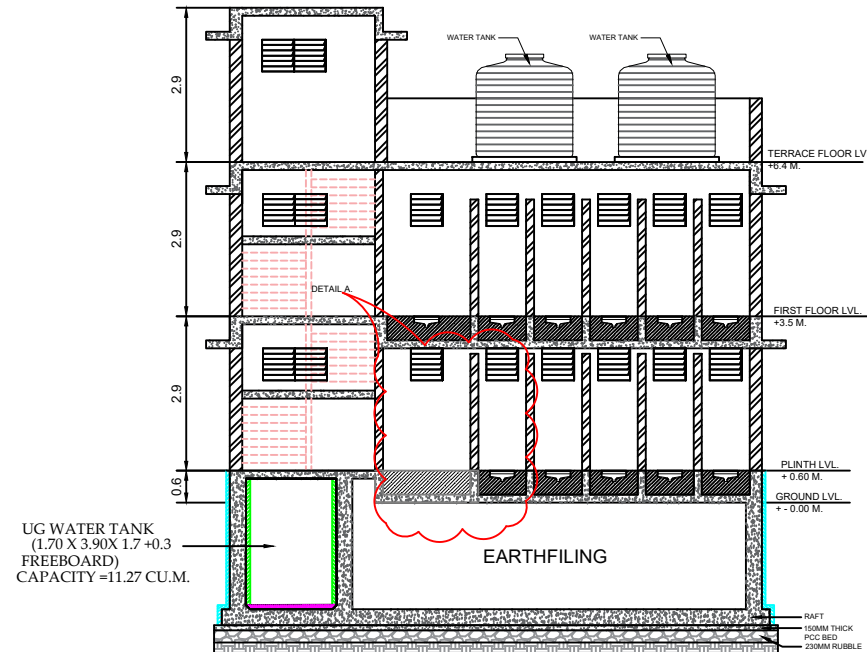
TERRAEC FLOOR PLAN



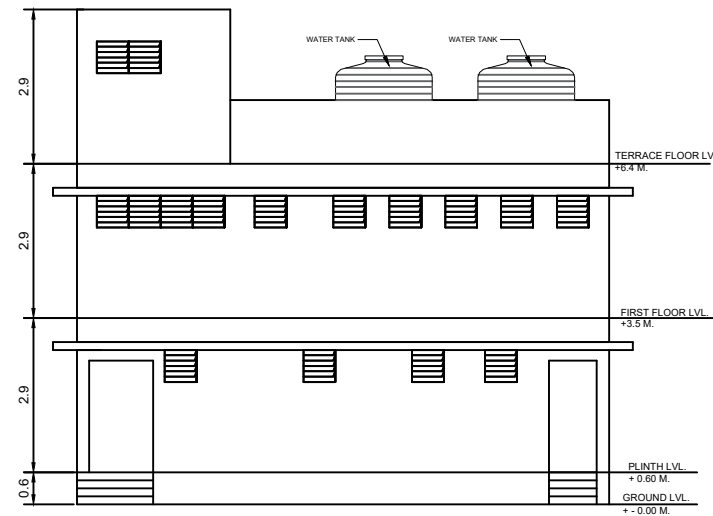
FIRST FLOOR PLAN



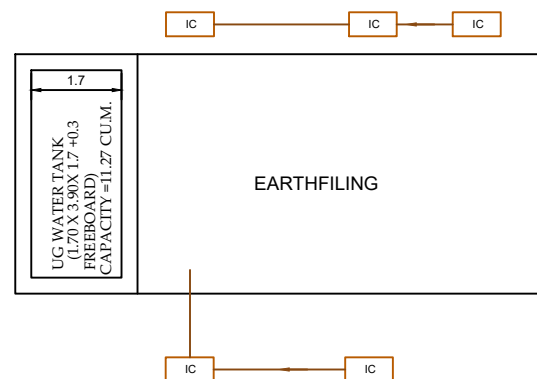
GROUND FLOOR PLAN



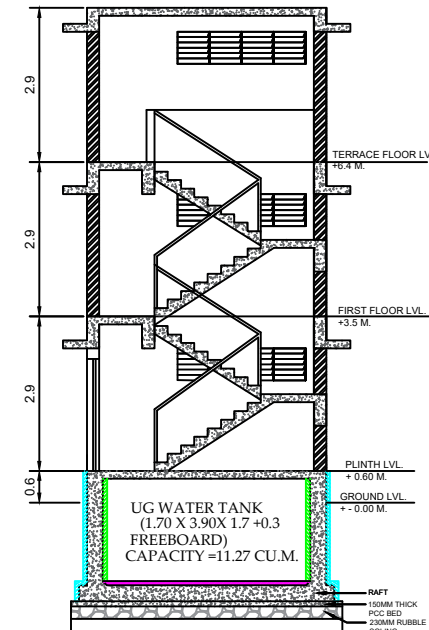
SECTION A-A



FRONT ELEVATION



UNDERGROUND WATER TANK PLAN



SECTION B-B

DESIGN OF SEPTIC TANK CALCULATIONS-

A). ASSUMPTION FOR SEPTIC TANK CALCULATION IS AS FOLLOWS

- 1). NO OF USERS PER SEAT : 40 ANNEXURE - N1
- 2). SLUDGE CLEANING INTERVAL : 3 MONTHS
- 3). SLUDGE ACCUMULATION RATE : 0.00021 CUM PER CAPITA PER DAY.
- 4). WASTE WATER DETENTION PERIOD : 2 DAYS
- 5). WASTE WATER ENTERING THE TANK : 8 LIT PER USERS
- 6). SCUM ACCUMULATION : 30% OF SLUDGE VOLUME
- 7). TOTAL CAPACITY OF SEPTIC TANK : WASTE WATER + SLUDGE +SCUM.

A). CALCULATION FOR DESIGN OF UGWT
REQUIRED UGWT = 560 LIT/SEAT[TD. PG-62-(Vi)]
=560 x 20=
=11200 LITER
PROVIDED UGWT IS
=1.70 X 3.9X (1.7+ 0.3 FREEBOARD)
=11.27 LITERle. OK SAFE.

B). CALCULATION FOR DESIGN OF OHWT
REQUIRED OHWT = 280 LIT/SEAT[TD. PG-62-(Viii)]
=280 LIT X 20
=5600 LITER
PROVIDED OHWT IS 6000 LITER ...le OK SAFE

WATERPROOFING DESCRIPTION	
	SHAHBAD LADI PROTECTION
	2 COAT PLASTER WITH ADDED WATERPROOFING SOLUTION
	25 MM WATERPROOF CEMENT MORTAR (1:3)

SEATS - 20 (SWR)

NOTES:-

The following is done at the specific instruction MCGM.

- . All dimension are in m otherwise noted.
- . Any statutory approval from concerned authority shall be in the scope of MCGM.
- . Admixture KP 200 (@2kg/cum) to be mixed with concrete of UG septic and water tanks. PPC Cement should be used for tiling, plaster etc.
- . External plaster 20 mm thk in two coats in 1:4 C.M.with Additional waterproofing compound.
- . Internal sand face plaster 12-15 mm thk.
- . Polished kota stone shall be laid for flooring in passage, pump room including c.m.
- . Light colored glazed ceramic tiles for dado upto 2.1 m of less than 0.3 x 0.3 m size.
- . Suitable vent pipe to be provided in septic tank layout.
- . Urinal Partition of 0.75 x 1.8 m in green marble.
- . Pre construction anti-termite treatment to be provided.
- . All dimension are in meter.
- . size may vary in case of site hinderances.
- . External wall=230mm.
- . Internal wall=150mm.

GROUND FLOOR BUILT UP AREA CALCULATIONS

ADDITIONS:

A =10x 4.5 x 1 = 45 sq.m.

FIRST FLOOR BUILT UP AREA CALCULATIONS

ADDITIONS:

A =10x 4.5 x 1 = 45 sq.m.

TOTAL = 90 sq. m.

MAXIMUM PERMISSIBLE FOR PAYMENT =20 x 4.5 = 90 sq. m.

M-Jiwani
MINATI D. JIWANI
B. Arch.
CA/2018/91360

RIVISION	DATE	SIGNATURES			
R0					
R1					
R2					
R3					
R4					
R5		S.E.	A.E.	EX.ENGG.	DY. CH. ENGG.

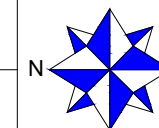


JIWANI CONSTRUMA PVT.LTD.
Adding Life to Structures

Jiwani Construma Pvt Ltd.
An ISO 9001:2015 Certified Company
(Architectural & Structural Consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

PROJECT:

CLIENT: BMC

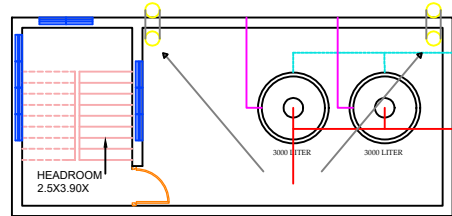


GENERAL ARRANGEMENT DRAWING FOR TENDER

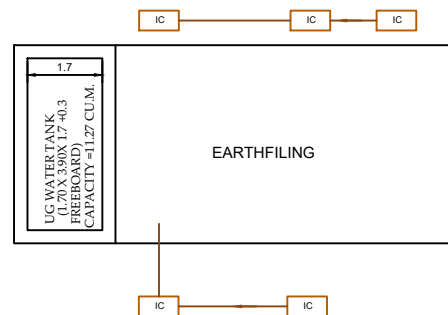
DRG. TITLE : ARCHITECTURAL DRAWING.

DRAWN:

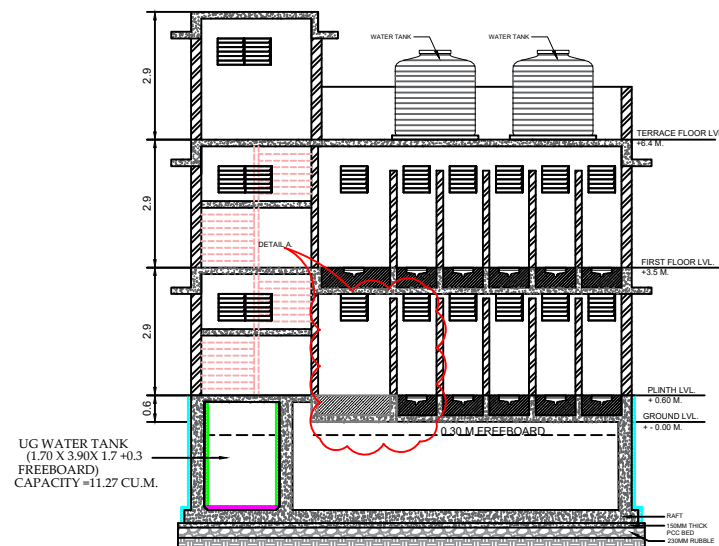
DATE



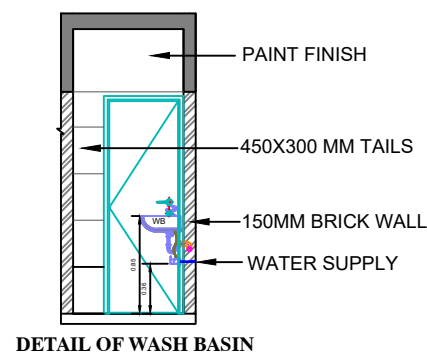
TERRAEC FLOOR PLAN



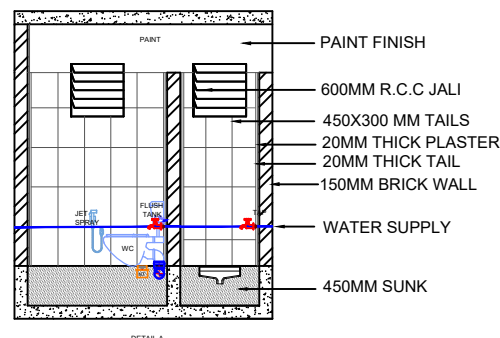
UNDERGROUND WATER TANK PLAN



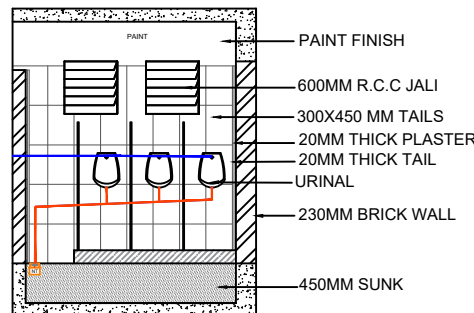
SECTION A-A



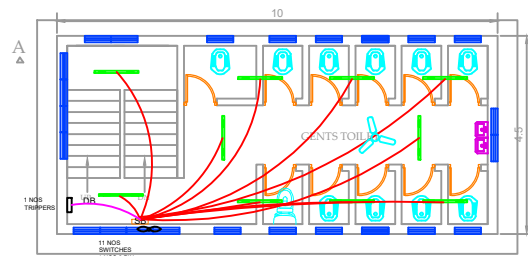
DETAIL OF WASH BASIN



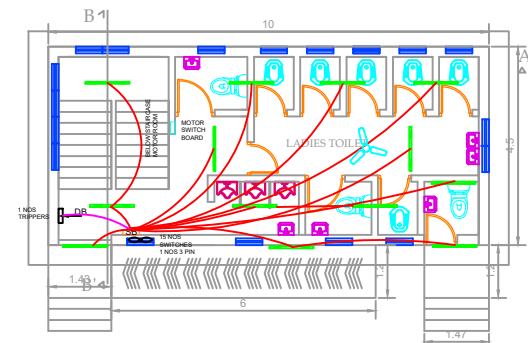
DETAIL A



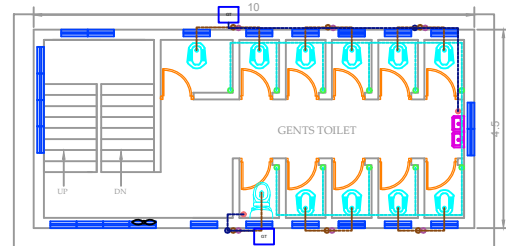
DETAIL B



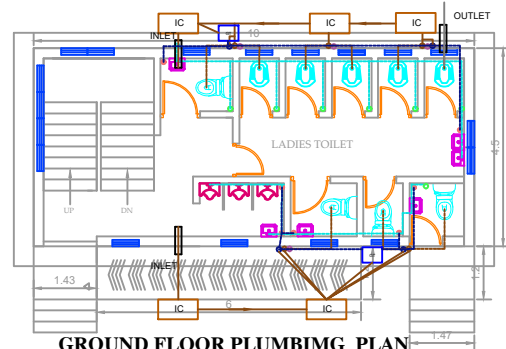
FIRST FLOOR ELECTRICAL PLAN



GROUND FLOOR ELECTRICAL PLAN



FIRST FLOOR PLUMBING PLAN



GROUND FLOOR PLUMBING PLAN

SCHEDULE OF DOOR & WINDOWS			
TYPE	NOS	SIZE	DESCRIPTION
D	22	0.75 X 2.10	FRP DOOR
CG	2	1.2 X 2.3	M.S. COLLAPSIBLE GATE
V	53	0.60 X 0.60	RCC VENTILATOR
CG1	1	0.9 X 2.3	M.S. COLLAPSIBLE GATE

SCHEDULE OF TOILETS			
TYPE	GENTS	LADIES	TOTAL
W.C.	11	06	17
HANDICAPPED W.C.	01	01	02
URINAL	03	00	03
TRANSGENDER	01	00	01
WESTERN	01	01	02

TANKS DESCRIPTION		
TYPE	CAPACITY	DIMENSION
UGT	11271 LITER	1.70 X 3.90 X 1.7
SEPTIC	46410 LITER	7.00X 3.90 X 1.7
OHT	6000 LITER	- - -
TOTAL	63681 LITER	- - -

SCHEDULE OF ELECTRICAL POINTS			
PARTICULARS	GROUND. F.L.	FIRST F.L.	TOTAL.
LED	13	10	23
FT (FAN POINT)	01	00	01
SWITCH BOARD	02	02	04
DISTRIBUTION BOARD	01	01	02
EXHAUST FAN	01	01	02

LEGENDS:	
	110MM Ø SOIL PIPE
	80MM Ø VENT PIPE
	110MM Ø WASTE WATER PIPE
	50MM Ø TERRACE LOOPING
	25MM Ø WATER SUPPLY PIPE
	TAP
	NAHANI TRAP
	INSPECTION CHAMBER

LEGEND	
LED LIGHT	
SWITCH BOARD	
DISTRIBUTION BOARD	
EXHAUST FAN	
FAN	

SEATS -20 (SWR)

NOTES:-

The following is done at the specific instruction MCGM.

- All dimension are in m otherwise noted.
- Any statutory approval from concerned authority shall be in the scope of MCGM.
- Admixture KP 200 (@2kg/cum) to be mixed with concrete of UG septic and water tanks. PPC Cement should be used for tiling, plaster etc.
- External plaster 20 mm thk in two coats in 1:4 C.M.with Additional waterproofing compound.
- Internal sand face plaster 12-15 mm thk.
- Polished kota stone shall be laid for flooring in passage, pump room including c.m.
- Light colored glazed ceramic tiles for dado upto 2.1 m of less than 0.3 x 0.3 m size.
- Suitable vent pipe to be provided in septic tank layout.
- Urinal Partition of 0.75 x 1.8 m in green marble.
- Pre construction anti-termite treatment to be provided.
- All dimension are in meter.
- size may vary in case of site hinderances.
- External wall=230mm.
- Internal wall=150mm.

GROUND FLOOR BUILT UP AREA CALCULATIONS

ADDITIONS:

A = 10x 4.5 x 1 = 45 sq.m.

FIRST FLOOR BUILT UP AREA CALCULATIONS

ADDITIONS:

A = 10x 4.5 x 1 = 45 sq.m.

TOTAL = 90 sq. m.

MAXIMUM PERMISSIBLE FOR PAYMENT = 20 x 4.5 = 90 sq. m.

M. Jiwani
MINATI D. JIWANI
B. Arch.
CA/2018/91360

REVISION	DATE	SIGNATURES			
R0					
R1					
R2					
R3					
R4					
R5		S.E.	A.E.	EX.ENGG.	DY. CH. ENGG.



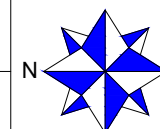
JIWANI CONSTRUMA PVT.LTD.

Adding Life to Structures

Jiwani Construma Pvt Ltd.
An ISO 9001:2015 Certified Company
(Architectural & Structural Consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

PROJECT:

CLIENT: BMC

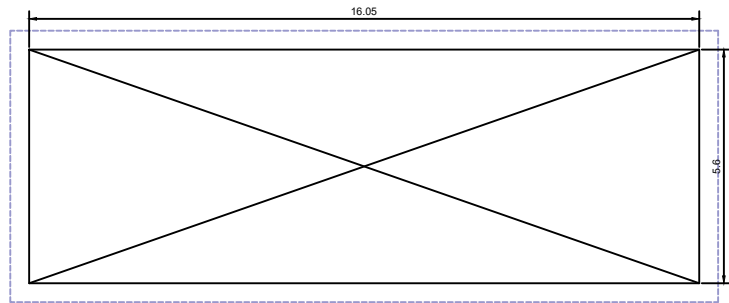


GENERAL ARRANGEMENT DRAWING FOR TENDER

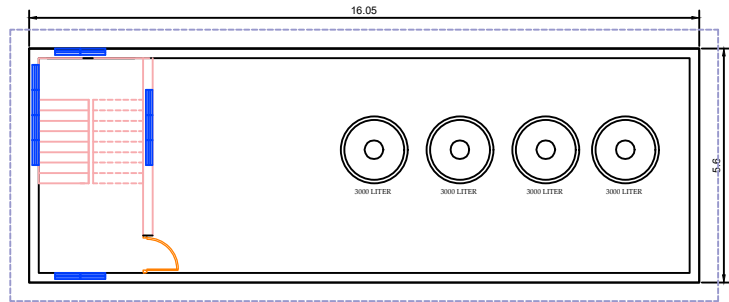
DRG. TITLE : ARCHITECTURAL DRAWING.

DRAWN:

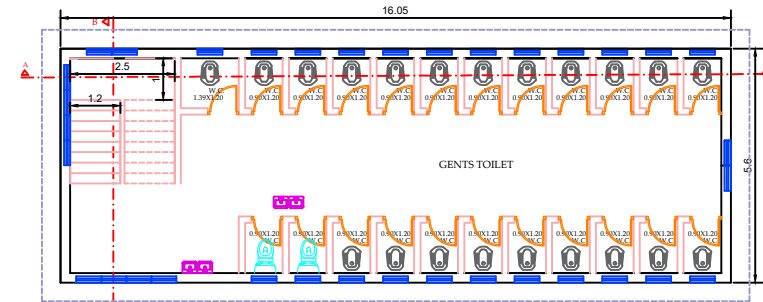
DATE



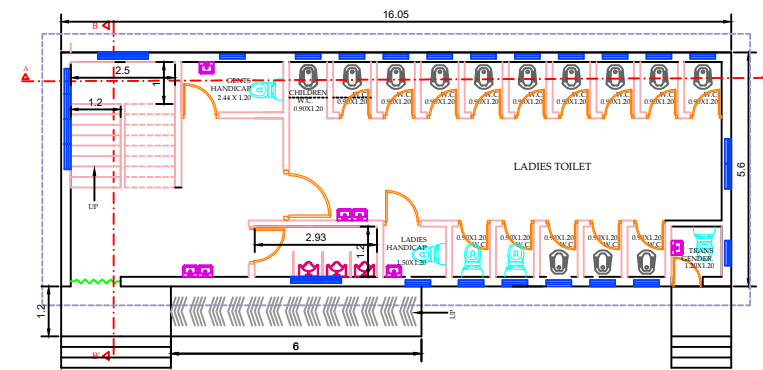
AREA LINE DIAGRAM



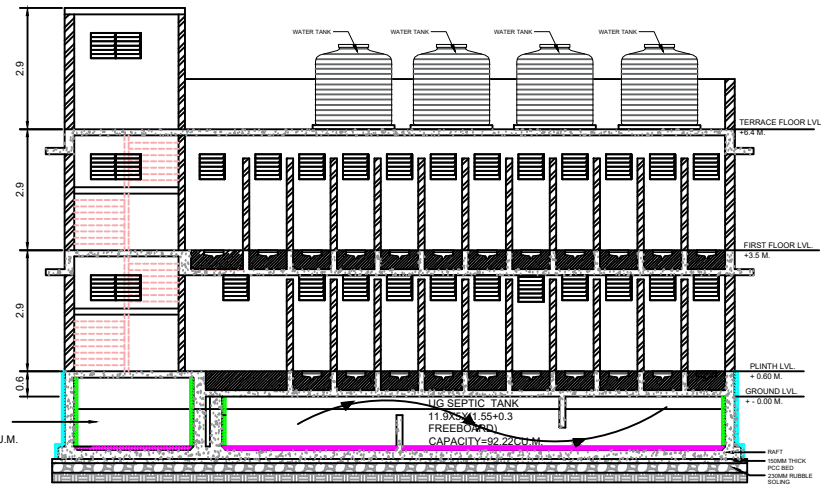
TERRACE FLOOR PLAN



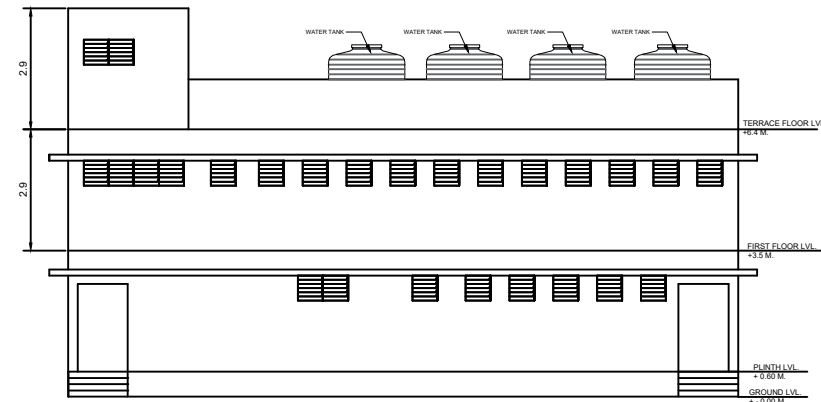
FIRST FLOOR PLAN



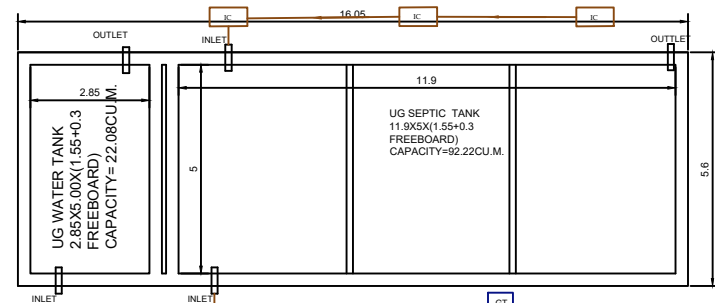
GROUND FLOOR PLAN



SECTION A-A



FRONT ELEVATION



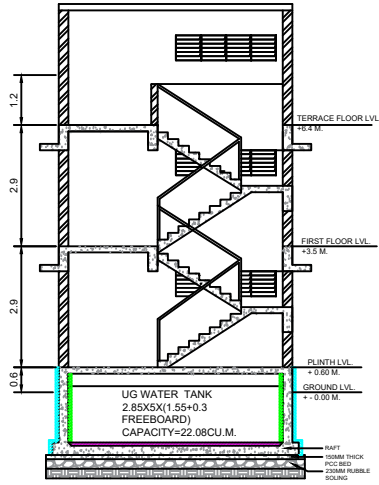
UNDERGROUND WATER TANK PLAN

WATERPROOFING DESCRIPTION	
	SHAHBAD LADI PROTECTION
	2 COAT PLASTER WITH ADDED WATERPROOFING SOLUTION
	25 MM WATERPROOF CEMENT MORTAR (1:3)

PROJECT

DESIGN OF SEPTIC TANK CALCULATIONS-	
A). ASSUMPTION FOR SEPTIC TANK CALCULATION IS AS FOLLOWS	
1). NO OF USERS PER SEAT : 40 ANNEXURE - N1	
2). SLUDGE CLEANING INTERVAL : 3 MONTHS	
3). SLUDGE ACCUMULATION RATE : 0.00021 CUM PER CAPITA PER DAY.	
4). WASTE WATER DETENTION PERIOD : 2 DAYS	
5). WASTE WATER ENTERING THE TANK : 8 LIT PER USERS	
6). SCUM ACCUMULATION : 30% OF SLUDGE VOLUME	
7). TOTAL CAPACITY OF SEPTIC TANK : WASTE WATER + SLUDGE +SCUM.	
A). WASTE WATER ENTERING IN SEPTIC TANK	
=35 X 40 = 1400	
=8 X 1400 = 11200 LIT PER DAY	
TOTAL CAPACITY OF SEPTIC TANK (DETENTION PERIOD 2 DAYS)	
=2 X 11200 = 22.4 CUM(I)	
B) VOLUME OF SLUDGE STORAGE	
=0.00021X1400X182.5	
=5365 CUM.....(II)	
C). VOLUME OF SCUM	
=0.3X53.65	
=16.095 CUM(III)	
REQUIRED TOTAL CAPACITY OF THE SEPTIC TANK IS	
=22.4+16.09+53.65	
=92.14 CUM	
PROVIDED OVER ALL INTERNAL SIZE OF TANK IS	
=[(11.9 X5 X 1.55+ 0.3 FREEBOARD)]	
=92.22 CU M ie. OK SAFE	
B). CALCULATION FOR DESIGN OF UGWT	
REQUIRED UGWT = 560 LIT/SEAT(TD. PG-62-(VI))	
=560 x 40 =	
=22400 LITER	
PROVIDED UGWT IS	
=2.85X 5X (1.55+ 0.3 FREEBOARD)	
=22.08 LITERie. OK SAFE.	
C). CALCULATION FOR DESIGN OF OHWT	
REQUIRED OHWT = 280 LIT/SEAT(TD. PG-62-(VIII))	
=280 LIT X 40	
=11200 LITER	
PROVIDED OHWT IS12000 LITERie OK SAFE	

SCHEDULE OF TOILETS			
TYPE	GENTS	LADIES	TOTAL
W.C.	21	12	33
COMMON HANDICAP	01	01	01
WESTERN	02	02	04
URINAL.	00	00	03
CHILDREN W.C	01	00	01



SECTION B-B

SEATS - 40 (SPT)

NOTES:-

The following is done at the specific instruction MCGM.

- All dimension are in m otherwise noted.
- Any statutory approval from concerned authority shall be in the scope of MCGM.
- Admixture KP 200 (@2kg/cum) to be mixed with concrete of UG septic and water tanks. PPC Cement should be used for tiling, plaster etc.
- External plaster 20 mm thk in two coats in 1:4 C.M.with Additional waterproofing compound.
- Internal sand face plaster 12-15 mm thk.
- Polished kota stone shall be laid for flooring in passage, pump room including c.m.
- Light colored glazed ceramic tiles for dado upto 2.1 m of less than 0.3 x 0.3 m size.
- Suitable vent pipe to be provided in septic tank layout.
- Urinal Partition of 0.75 x 1.8 m in green marble.
- Pre construction anti-termite treatment to be provided.
- All dimension are in meter.
- size may vary in case of site hinderances.
- External wall=230mm.
- Internal wall=150mm.

GROUND FLOOR BUILT UP AREA CALCULATIONS

ADDITIONS:

A = 16.05 x 5.60x 1 =89.88 sq.m.

FIRST FLOOR BUILT UP AREA CALCULATIONS

A = 16.05 x 5.60x 1 =89.88 sq.m.

TOTAL = 179.76 sq. m.

MAXIMUM PERMISSIBLE FOR PAYMENT = 40 x 4.5 = 180 sq. m.

M-Jiwani

MINATI D. JIWANI
B. Arch.
CA/2018/91360

RIVISION	DATE	SIGNATURES			
R0					
R1					
R2					
R3					
R4					
R5		S.E.	A.E.	EX.ENGG.	DY. CH. ENGG.



JIWANI CONSTRUMA PVT.LTD.

Adding Life to Structures

GENERAL ARRANGEMENT DRAWING FOR TENDER

DRG. TITLE : ARCHITECTURAL DRAWING.

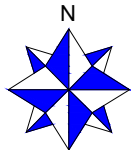
DRAWN:

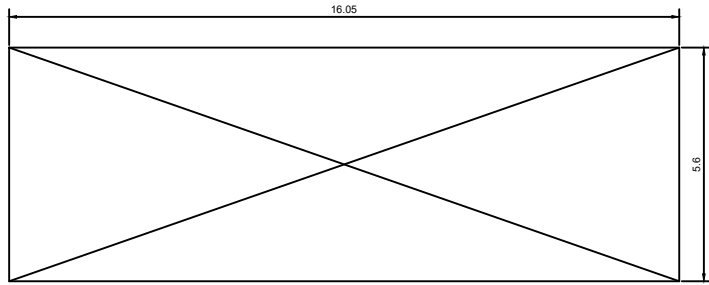
DATE

Jiwani Construma Pvt Ltd.
An ISO 9001:2015 Certified Company
(Architectural & Structural Consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

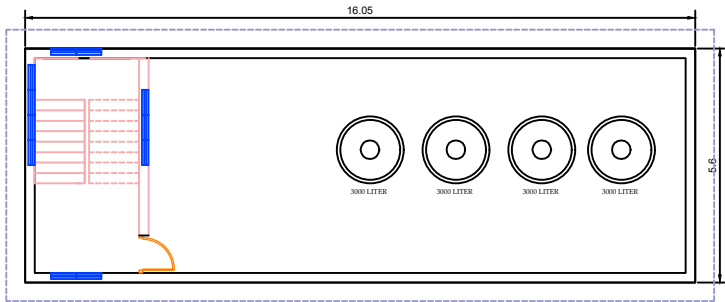
PROJECT

CLIENT: BMC

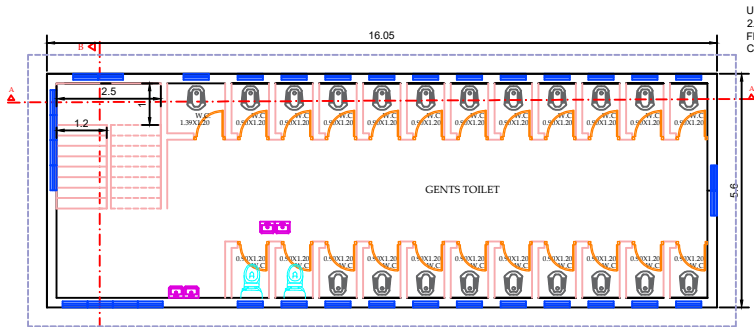




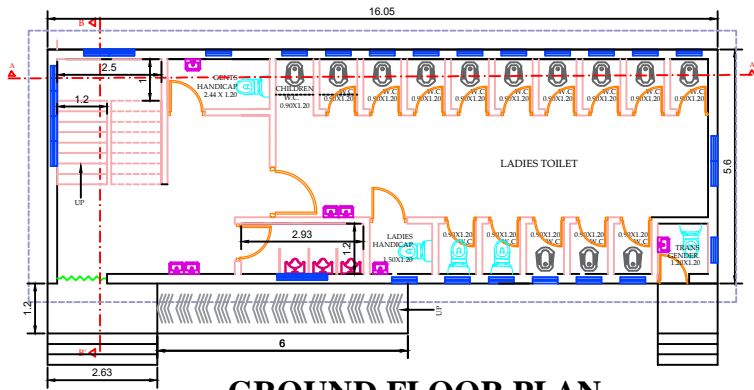
AREA LINE DIAGRAM



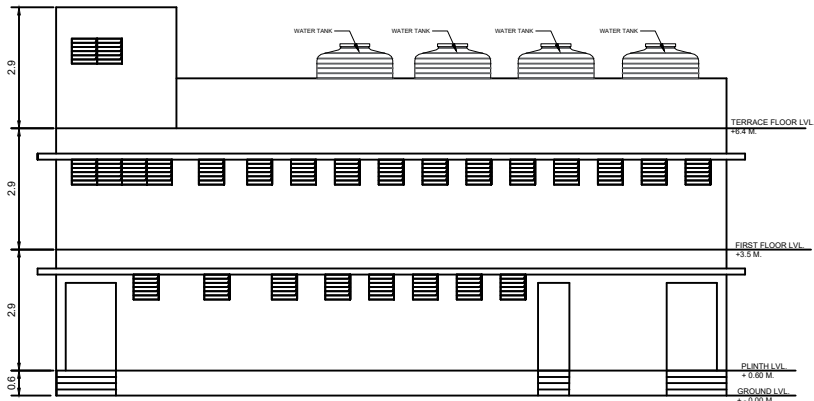
TERRACE FLOOR PLAN



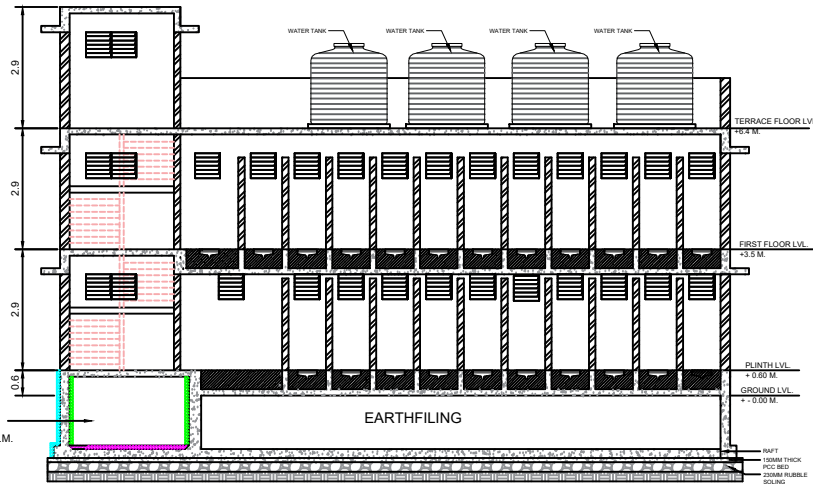
FIRST FLOOR PLAN



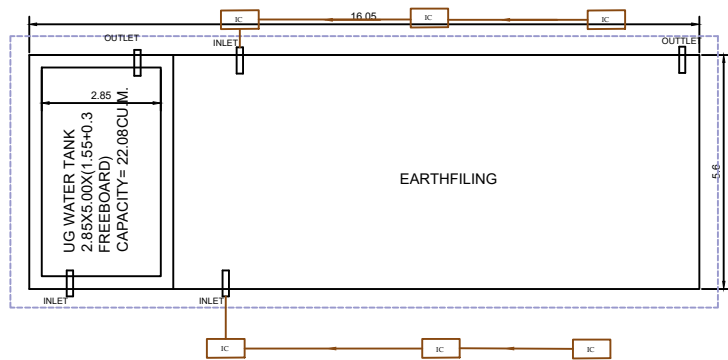
GROUND FLOOR PLAN



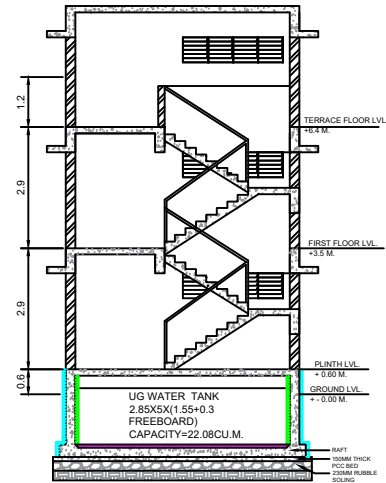
FRONT ELEVATION



SECTION A-A



UNDERGROUND WATER TANK PLAN



SECTION B-B

DESIGN OF SEPTIC TANK CALCULATIONS-

A). ASSUMPTION FOR SEPTIC TANK CALCULATION IS AS FOLLOWS

1). NO OF USERS PER SEAT : 40 ANNEXURE - N1

2). SLUDGE CLEANING INTERVAL : 3 MONTHS

3). SLUDGE ACCUMULATION RATE : 0.00021 CUM PER CAPITA PER DAY.

4). WASTE WATER DETENTION PERIOD : 2 DAYS

5). WASTE WATER ENTERING THE TANK : 8 LIT PER USERS

6). SCUM ACCUMULATION : 30% OF SLUDGE VOLUME

7). TOTAL CAPACITY OF SEPTIC TANK : WASTE WATER + SLUDGE +SCUM.

B). CALCULATION FOR DESIGN OF UGWT

REQUIRED UGWT = 560 LIT/SEAT[TD. PG-62-(VI)]

=560 x 40 =

=22400 LITER

PROVIDED UGWT IS

=2.85X 5X (1.55+ 0.3 FREEBOARD)

=22.08 LITERle. OK SAFE.

C). CALCULATION FOR DESIGN OF OHWT

REQUIRED OHWT = 280 LIT/SEAT[TD. PG-62-(VIII)]

=280 LIT X 40

=11200 LITER

PROVIDED OHWT IS12000 LITER ...le OK SAFE

WATERPROOFING DESCRIPTION	
	SHAHBAD LADI PROTECTION
	2 COAT PLASTER WITH ADDED WATERPROOFING SOLUTION
	25 MM WATERPROOF CEMENT MORTAR (1:3)

SCHEDULE OF TOILETS			
TYPE	GENTS	LADIES	TOTAL
W.C.	21	12	33
COMMON HANDICAP	01	01	01
WESTERN	02	02	04
URINAL.	00	00	03
CHILDREN W.C	01	00	01
TRANSGENDER	01	00	01

SEATS - 40 (SWR)

NOTES:-

The following is done at the specific instruction MCGM.

- . All dimension are in m otherwise noted.
- . Any statutory approval from concerned authority shall be in the scope of MCGM.
- . Admixture KP 200 (@2kg/cum) to be mixed with concrete of UG septic and water tanks. PPC Cement should be used for tiling, plaster etc.
- . External plaster 20 mm thk in two coats in 1:4 C.M.with Additional waterproofing compound.
- . Internal sand face plaster 12-15 mm thk.
- . Polished kota stone shall be laid for flooring in passage, pump room including c.m.
- . Light colored glazed ceramic tiles for dado upto 2.1 m of less than 0.3 x 0.3 m size.
- . Suitable vent pipe to be provided in septic tank layout.
- . Urinal Partition of 0.75 x 1.8 m in green marble.
- . Pre construction anti-termite treatment to be provided.
- . All dimension are in meter.
- . size may vary in case of site hinderances.
- . External wall=230mm.
- . Internal wall=150mm.

GROUND FLOOR BUILT UP AREA CALCULATIONS					
ADDITIONS:					
A	=	16.05 x 5.60x 1	=	89.88	sq.m.
FIRST FLOOR BUILT UP AREA CALCULATIONS					
A	=	16.05 x 5.60x 1	=	89.88	sq.m.
					TOTAL = 179.76 sq. m.
MAXIMUM PERMISSIBLE FOR PAYMENT = 40 x 4.5 = 180 sq. m.					

M-Jiwani
MINATI D. JIWANI
B. Arch.
CA/2018/91360

RIVISION	DATE	SIGNATURES			
R0					
R1					
R2					
R3					
R4					
R5		S.E.	A.E.	EX.ENGG.	DY. CH. ENGG.



JIWANI CONSTRUMA PVT.LTD.

Adding Life to Structures

GENERAL ARRANGEMENT DRAWING FOR TENDER

DRG. TITLE : ARCHITECTURAL DRAWING.

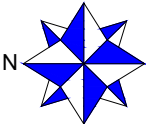
DRAWN:

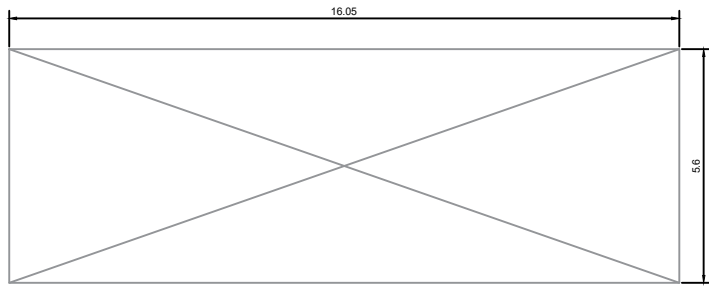
DATE

Jiwani Construma Pvt Ltd.
An ISO 9001:2015 Certified Company
(Architectural & Structural Consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

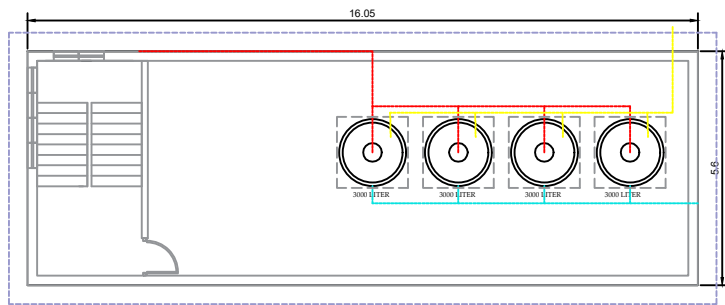
PROJECT

CLIENT: BMC





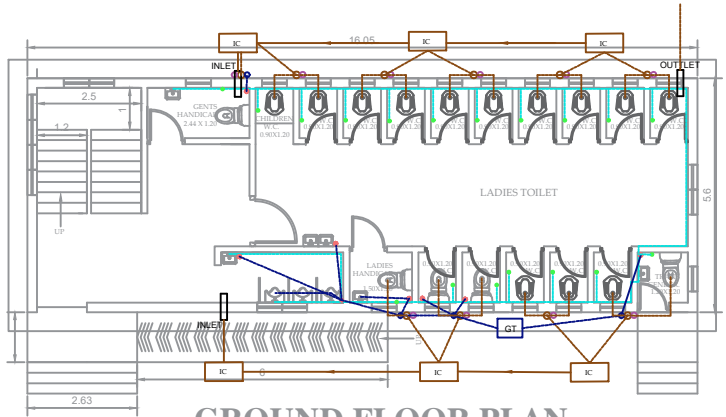
AREA LINE DIAGRAM



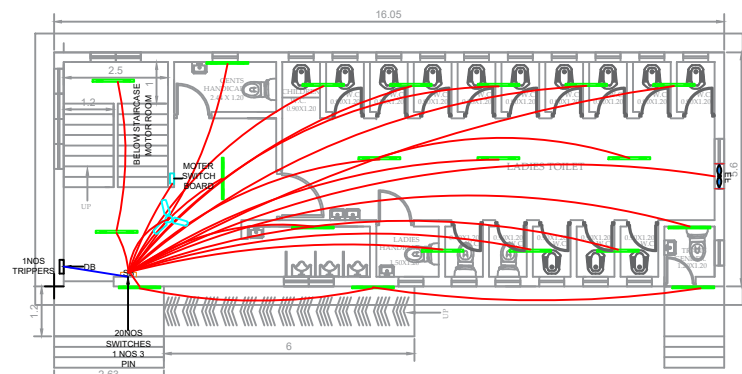
TERRACE FLOOR PLAN



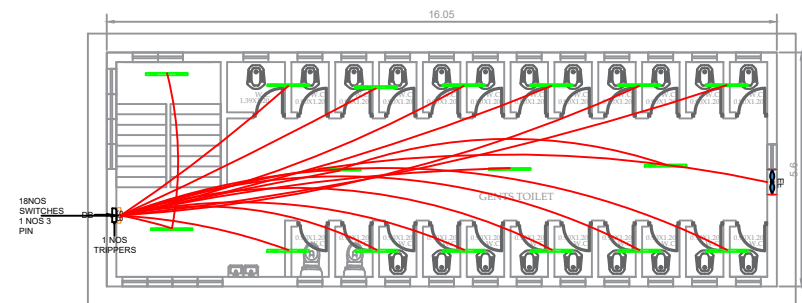
FIRST FLOOR PLAN



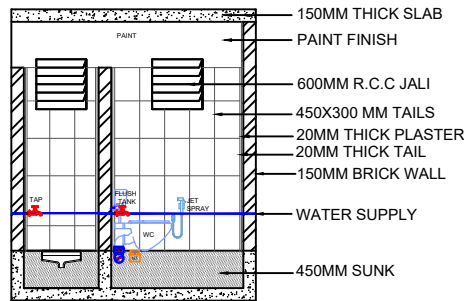
GROUND FLOOR PLAN



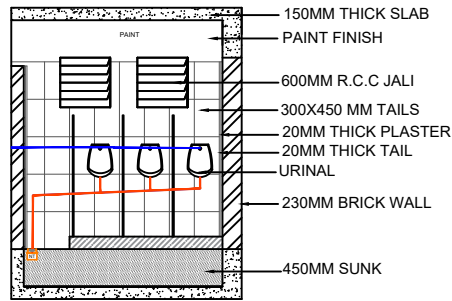
GROUND FLOOR PLAN



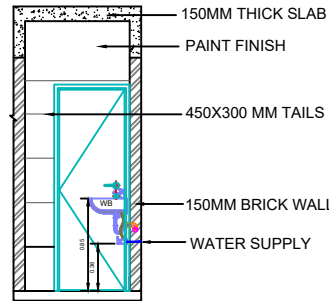
FIRST FLOOR PLAN



DEATAIL A



DEATAIL B



DETAIL OF WASH BASIN

SCHEDULE OF DOOR & WINDOWS

TYPE	NOS	SIZE	DESCRIPTION
D	38	0.75 X 2.10	FRP DOOR
CG	3	1.2 X 2.10	M.S. COLLAPSIBLE GATE
V	77	0.60 X 0.60	RCC VENTILATOR

SCHEDULE OF ELECTRICAL POINTS

PARTICULARS	GROUND. F.L	FIRST FLOOR	TOTAL
LED	17	17	34
FT (FAN POINT)	01	00	01

TANKS DESCRIPTION

TYPE	CAPACITY	DIMENSION
UGT	22087 LITER	2.85 X 5 X 1.55
SEPTIC	92225 LITER	11.9X 5 X 1.55
OHT	12000 LITER	---
TOTAL	126312 LITER	---

LEGENDS:

	110MM Ø SOIL PIPE
	80MM Ø VENT PIPE
	110MM Ø WASTE WATER PIPE
	50MM Ø TERRACE LOOPING
	25MM Ø WATER SUPPLY PIPE
	TAP
	NAHANI TRAP
	INSPECTION CHAMBER

LEGEND

LED LIGHT	
SWITCH BOARD	
DISTRIBUTION BOARD	
EXHAUST FAN	
FAN	

SEATS - 40 (SWR)

NOTES:-

The following is done at the specific instruction MCGM.

- All dimension are in m otherwise noted.
- Any statutory approval from concerned authority shall be in the scope of MCGM.
- Admixture KP 200 (@2kg/cum) to be mixed with concrete of UG septic and water tanks. PPC Cement should be used for tiling, plaster etc.
- External plaster 20 mm thk in two coats in 1:4 C.M.with Additional waterproofing compound.
- Internal sand face plaster 12-15 mm thk.
- Polished kota stone shall be laid for flooring in passage, pump room including c.m.
- Light colored glazed ceramic tiles for dado upto 2.1 m of less than 0.3 x 0.3 m size.
- Suitable vent pipe to be provided in septic tank layout.
- Urinal Partition of 0.75 x 1.8 m in green marble.
- Pre construction anti-termite treatment to be provided.
- All dimension are in meter.
- size may vary in case of site hinderances.
- External wall=230mm.
- Internal wall=150mm.

GROUND FLOOR BUILT UP AREA CALCULATIONS

ADDITIONS:

A = 16.05 x 5.60x 1 =89.88 sq.m.

FIRST FLOOR BUILT UP AREA CALCULATIONS

ADDITIONS:

A = 16.05 x 5.60x 1 =89.88 sq.m.

TOTAL = 179.76 sq. m.

MAXIMUM PERMISSIBLE FOR PAYMENT = 40 x 4.5 = 180 sq. m.

M-Jiwani
MINATI D. JIWANI
B. Arch.
CA/2018/91360

RIVISION	DATE	SIGNATURES			
R0					
R1					
R2					
R3					
R4					
R5		S.E.	A.E.	EX.ENGG.	DY. CH. ENGG.



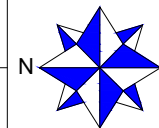
JIWANI CONSTRUMA PVT.LTD.

Adding Life to Structures

Jiwani Construma Pvt Ltd.
An ISO 9001:2015 Certified Company
(Architectural & Structural Consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

PROJECT

CLIENT: BMC

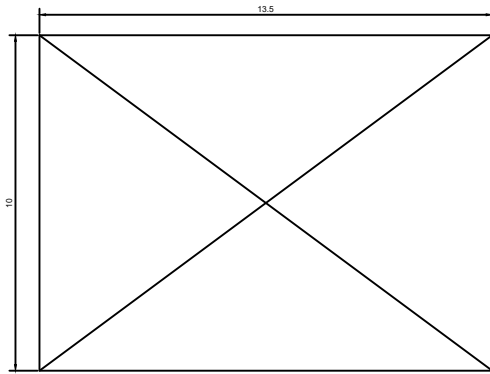


GENERAL ARRANGEMENT DRAWING FOR TENDER

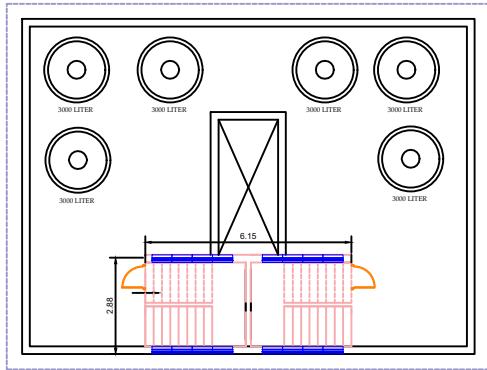
DRG. TITLE : ARCHITECTURAL DRAWING.

DRAWN:

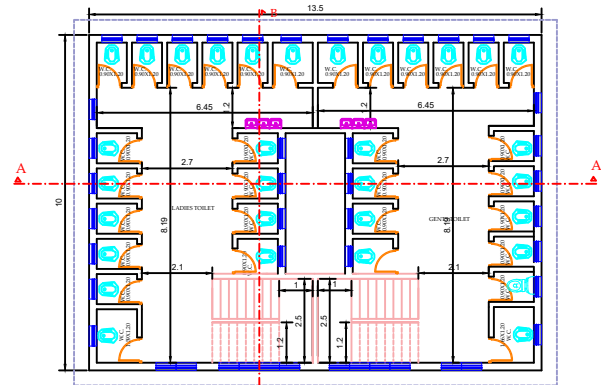
DATE



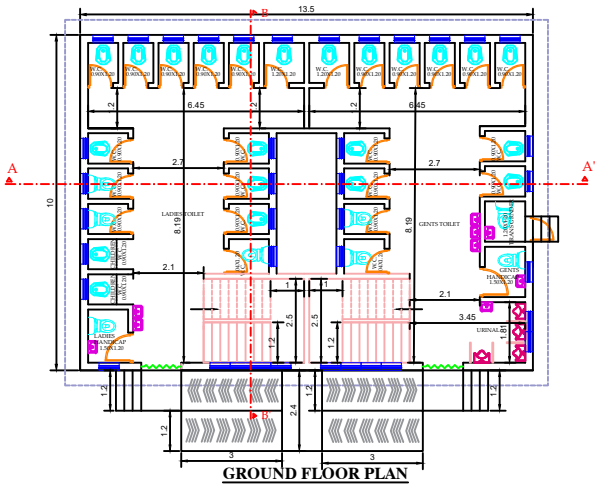
AREA LINE DIAGRAM



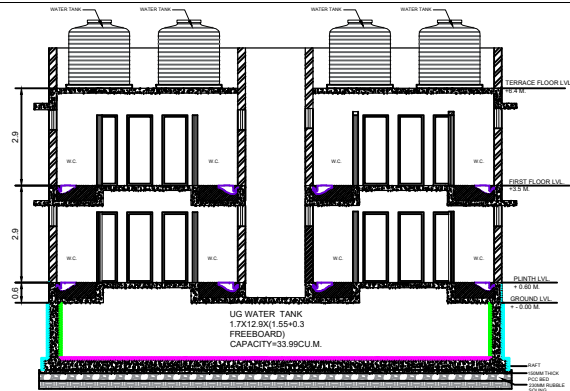
TERRACE FLOOR PLAN



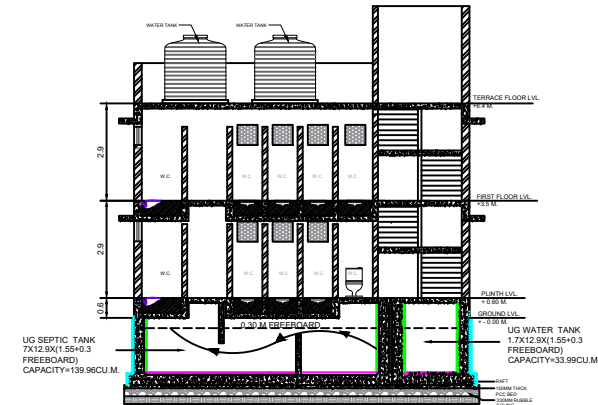
FIRST FLOOR PLAN



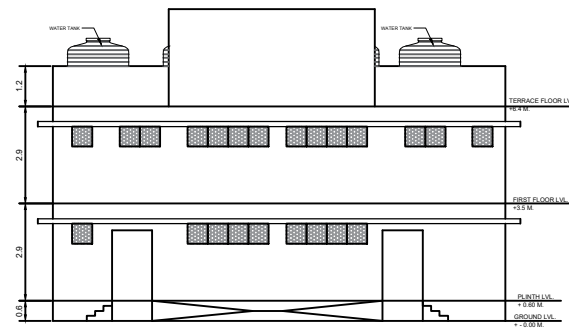
GROUND FLOOR PLAN



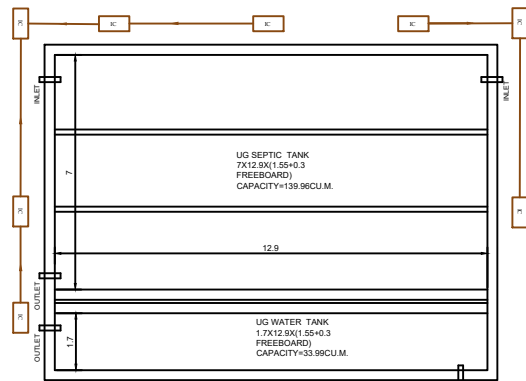
SECTION A-A



SECTION B-B



FRONT ELEVATION



UNDER GROUND WATER TANK PLAN

DESIGN OF SEPTIC TANK CALCULATIONS-

A). ASSUMPTION FOR SEPTIC TANK CALCULATION IS AS FOLLOWS

1). NO OF USERS PER SEAT : 40 ANNEXURE - N1

2). SLUDGE CLEANING INTERVAL : 3 MONTHS

3). SLUDGE ACCUMULATION RATE : 0.00021 CUM PER CAPITA PER DAY.

4). WASTE WATER DETENTION PERIOD : 2 DAYS

5). WASTE WATER ENTERING THE TANK : 8 LIT PER USERS

6). SCUM ACCUMULATION : 30% OF SLUDGE VOLUME

7). TOTAL CAPACITY OF SEPTIC TANK : WASTE WATER + SLUDGE +SCUM.

A). WASTE WATER ENTERING IN SEPTIC TANK
=35 X 60 = 2100
=8 X 2100=16800 LIT PER DAY
TOTAL CAPACITY OF SEPTIC TANK
(DETENTION PERIOD 2 DAYS)
=2 X 16800= 33.6 CUM(I)

B) VOLUME OF SLUDGE STORAGE
=0.00021X2100X182.5
=80.48 CUM.....(II)

C). VOLUME OF SCUM
=0.3X80.48
=24.14 CUM(III)

REQUIRED TOTAL CAPACITY OF THE SEPTIC TANK IS
=33.6+80.48+24.14
=138.22 CUM
PROVIDED OVER ALL INTERNAL SIZE OF TANK IS
=[(7.00 X12.9X 1.55+ 0.3 FREEBOARD)]
=139.96 CU M Ie. OK SAFE

B). CALCULATION FOR DESIGN OF UGWT
REQUIRED UGWT = 560 LIT/SEAT[TD. PG-62-(Vi)]
=560 x 60=
=3360 LITER
PROVIDED UGWT IS
=1.70 X 12.9X (1.55+ 0.3 FREEBOARD)
=33.99 LITERIe. OK SAFE.

C). CALCULATION FOR DESIGN OF OHWT
REQUIRED OHWT = 280 LIT/SEAT[TD. PG-62-(Viii)]
=280 LIT X60
=16800 LITER
PROVIDED OHWT IS 18000 LITER ...Ie OK SAFE

WATERPROOFING DESCRIPTION

	SHAHBAD LADI PROTECTION
	2 COAT PLASTER WITH ADDED WATERPROOFING SOLUTION
	25 MM WATERPROOF CEMENT MORTAR (1:3)

SCHEDULE OF TOILETS

TYPE	GENTS	LADIES	TOTAL
W.C.	25	26	51
HANDICAPPED W.C.	01	01	02
URINAL	04	00	04
TRANSGENDER	01	00	01
WESTERN	03	03	06
CHILDREN	02	00	02

SEATS - 60 (SPT)

NOTES:-

The following is done at the specific instruction MCGM.

- All dimension are in m otherwise noted.
- Any statutory approval from concerned authority shall be in the scope of MCGM.
- Admixture KP 200 (@2kg/cum) to be mixed with concrete of UG septic and water tanks. PPC Cement should be used for tiling, plaster etc.
- External plaster 20 mm thk in two coats in 1:4 C.M.with Additional waterproofing compound.
- Internal sand face plaster 12-15 mm thk.
- Polished kota stone shall be laid for flooring in passage, pump room including c.m.
- Light colored glazed ceramic tiles for dado upto 2.1 m of less than 0.3 x 0.3 m size.
- Suitable vent pipe to be provided in septic tank layout.
- Urinal Partition of 0.75 x 1.8 m in green marble.
- Pre construction anti-termite treatment to be provided.
- All dimension are in meter.
- size may vary in case of site hinderances.
- External wall=230mm.
- Internal wall=150mm.

GROUND FLOOR BUILT UP AREA CALCULATIONS

ADDITIONS:

A = 13.5 X 10X 1 = 135sq.m.

FIRST FLOOR BUILT UP AREA CALCULATIONS

ADDITIONS:

A =13.5x 10 x 1 = 135 sq.m.

TOTAL = 270 sq. m.

MAXIMUM PERMISSIBLE FOR PAYMENT =60 x 4.5 =270

M-Jiwani
MINATI D. JIWANI
B. Arch.
CA/2018/91360

RIVISION	DATE	SIGNATURES			
R0					
R1					
R2					
R3					
R4					
R5		S.E.	A.E.	EX.ENGG.	DY. CH. ENGG.



JIWANI CONSTRUMA PVT.LTD.

Adding Life to Structures

GENERAL ARRANGEMENT DRAWING FOR TENDER

DRG. TITLE : ARCHITECTURAL DRAWING.

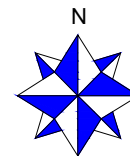
DRAWN:

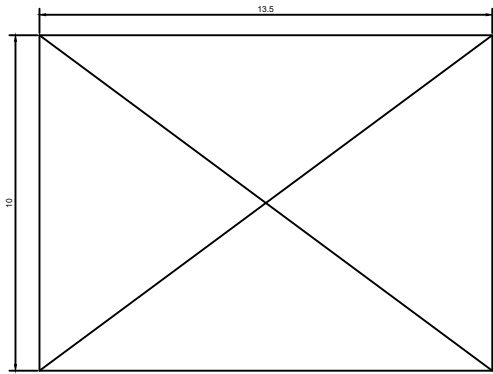
DATE

Jiwani Construma Pvt Ltd.
An ISO 9001:2015 Certified Company
(Architectural & Structural Consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

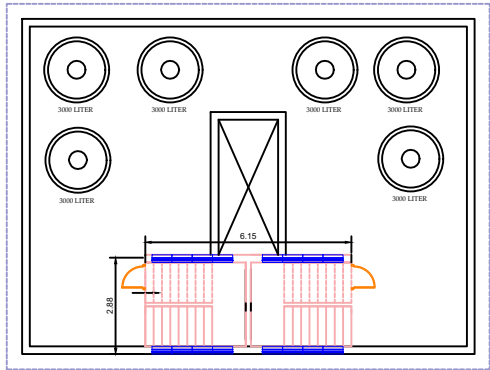
PROJECT:

CLIENT: BMC

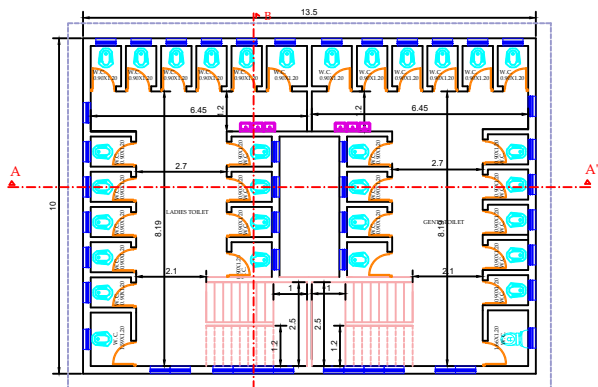




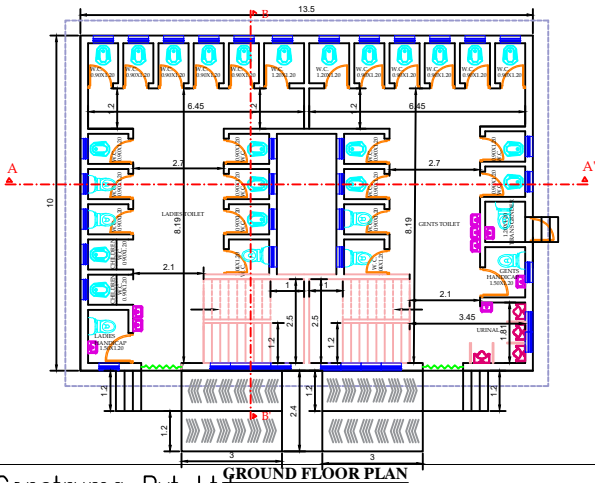
AREA LINE DIAGRAM



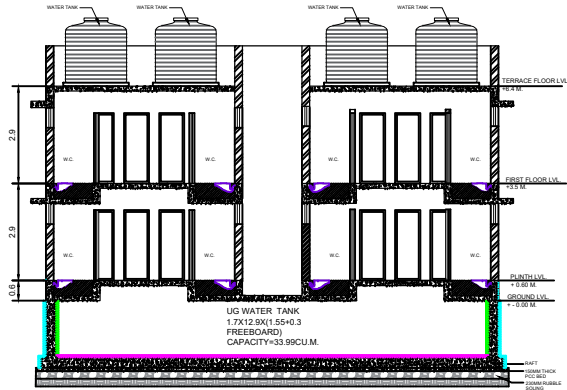
TERRACE FLOOR PLAN



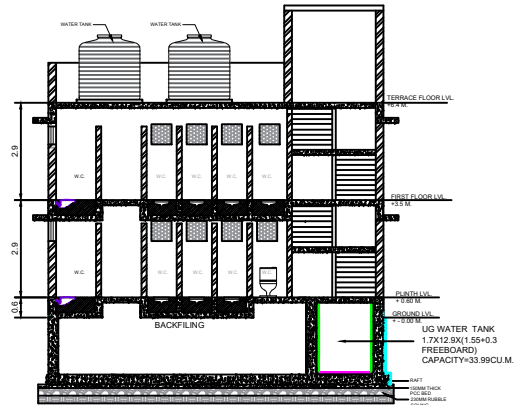
FIRST FLOOR PLAN



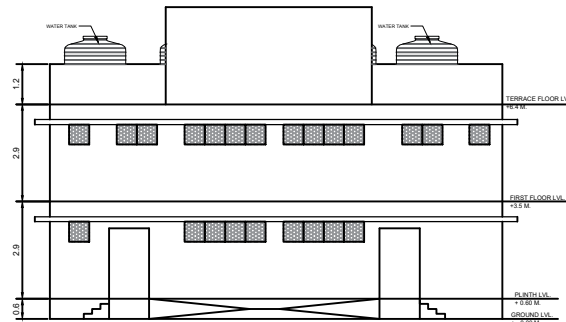
GROUND FLOOR PLAN



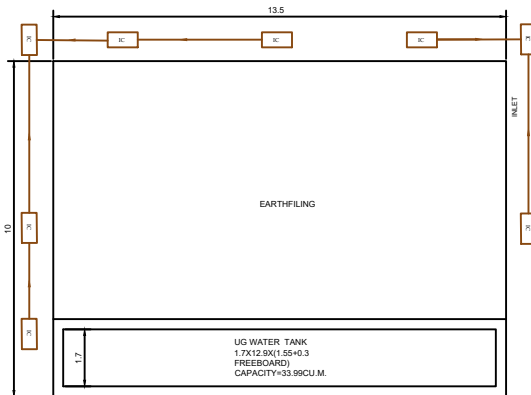
SECTION A-A



SECTION B-B



FRONT ELEVATION



UNDER GROUND WATER TANK PLAN

DESIGN OF SEPTIC TANK CALCULATIONS-
A]. ASSUMPTION FOR SEPTIC TANK CALCULATION IS AS FOLLOWS
1). NO OF USERS PER SEAT : 40 ANNEXURE - N1
2). SLUDGE CLEANING INTERVAL : 3 MONTHS
3). SLUDGE ACCUMULATION RATE : 0.00021 CUM PER CAPITA PER DAY.
4). WASTE WATER DETENTION PERIOD : 2 DAYS
5). WASTE WATER ENTERING THE TANK : 8 LIT PER USERS
6). SCUM ACCUMULATION : 30% OF SLUDGE VOLUME
7). TOTAL CAPACITY OF SEPTIC TANK : WASTE WATER + SLUDGE +SCUM.

B). CALCULATION FOR DESIGN OF UGWT
REQUIRED UGWT = 560 LIT/SEAT[TD. PG-62-(Vi)]
=560 x 60=
=3360 LITER
PROVIDED UGWT IS
=1.70 X 12.9X (1.55+ 0.3 FREEBOARD)
=33.99 LITERle. OK SAFE.

C). CALCULATION FOR DESIGN OF OHWT
REQUIRED OHWT = 280 LIT/SEAT[TD. PG-62-(Viii)]
=280 LIT X60
=16800 LITER
PROVIDED OHWT IS 18000 LITER ...le OK SAFE

WATERPROOFING DESCRIPTION	
	SHAHBAD LADI PROTECTION
	2 COAT PLASTER WITH ADDED WATERPROOFING SOLUTION
	25 MM WATERPROOF CEMENT MORTAR (1:3)

SCHEDULE OF TOILETS			
TYPE	GENTS	LADIES	TOTAL
W.C.	25	26	51
HANDICAPPED W.C.	01	01	02
URINAL	04	00	04
TRANSGENDER	01	00	01
WESTERN	03	03	06
CHILDREN	02	00	02

SEATS - 60 (SWR)

- NOTES:-
- The following is done at the specific instruction MCGM.
- All dimension are in m otherwise noted.
 - Any statutory approval from concerned authority shall be in the scope of MCGM.
 - Admixture KP 200 (@2kg/cum) to be mixed with concrete of UG septic and water tanks. PPC Cement should be used for tiling, plaster etc.
 - External plaster 20 mm thk in two coats in 1:4 C.M.with Additional waterproofing compound.
 - Internal sand face plaster 12-15 mm thk.
 - Polished kota stone shall be laid for flooring in passage, pump room including c.m.
 - Light colored glazed ceramic tiles for dado upto 2.1 m of less than 0.3 x 0.3 m size.
 - Suitable vent pipe to be provided in septic tank layout.
 - Urinal Partition of 0.75 x 1.8 m in green marble.
 - Pre construction anti-termite treatment to be provided.
 - All dimension are in meter.
 - size may vary in case of site hinderances.
 - External wall=230mm.
 - Internal wall=150mm.

GROUND FLOOR BUILT UP AREA CALCULATIONS

ADDITIONS:

A = 13.5 X 10X 1 = 135sq.m.

FIRST FLOOR BUILT UP AREA CALCULATIONS

ADDITIONS:

A =13.5x 10 x 1 = 135 sq.m.

TOTAL = 270 sq. m.

MAXIMUM PERMISSIBLE FOR PAYMENT =60 x 4.5 =270

M-Iiwani
MINATI D. JIWANI
B. Arch.
CA/2018/91360

RIVISION	DATE	SIGNATURES			
R0					
R1					
R2					
R3					
R4		S.E.	A.E.	EX.ENGG.	DY. CH. ENGG.
R5					

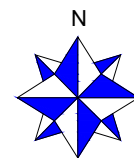


JIWANI CONSTRUMA PVT.LTD.
Adding Life to Structures

Jiwani Construma Pvt Ltd.
An ISO 9001:2015 Certified Company
(Architectural & Structural Consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

PROJECT:

CLIENT: BMC

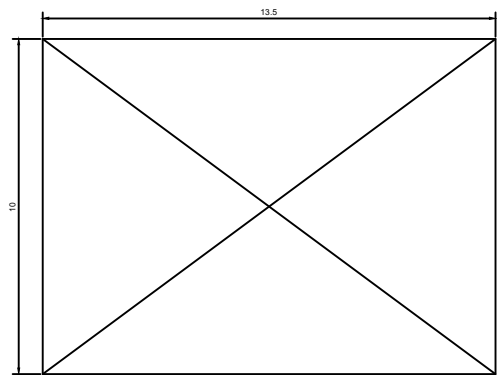


GENERAL ARRANGEMENT DRAWING FOR TENDER

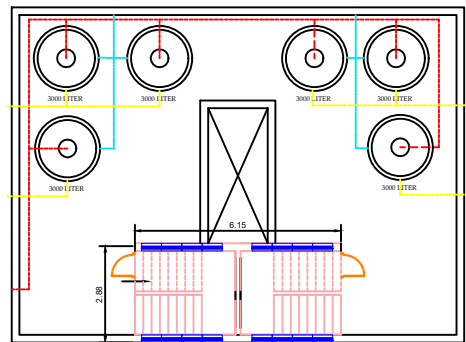
DRG. TITLE : ARCHITECTURAL DRAWING.

DRAWN:

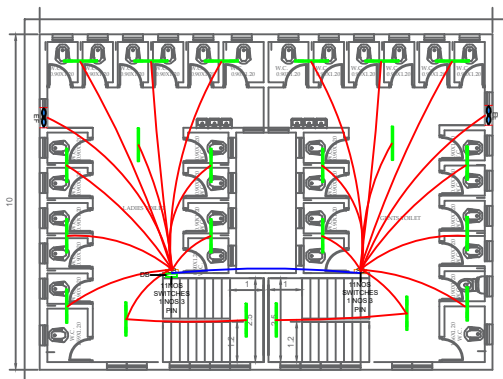
DATE



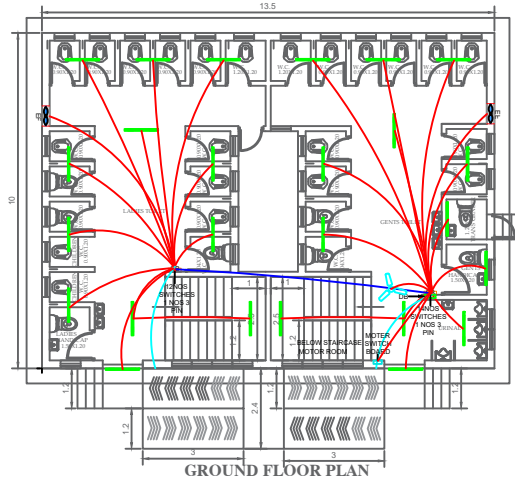
AREA LINE DIAGRAM



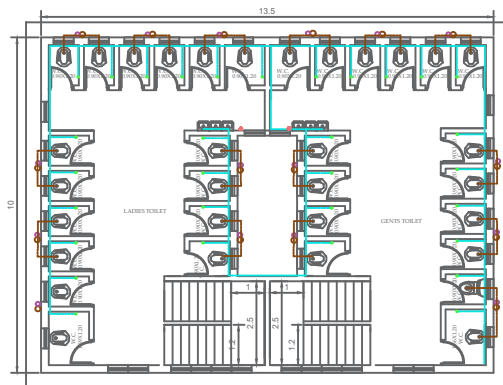
TERRACE FLOOR PLAN



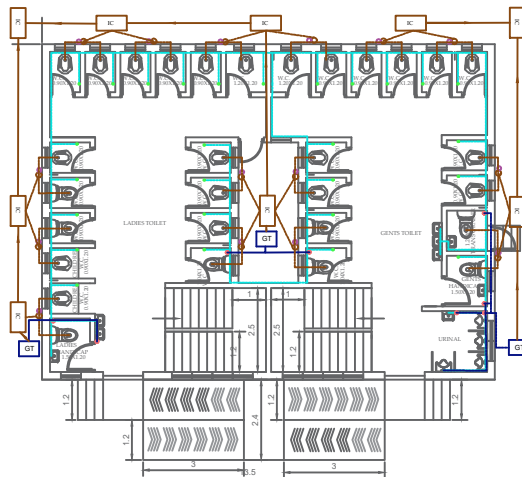
FIRST FLOOR PLAN



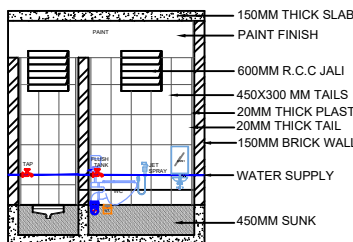
GROUND FLOOR PLAN



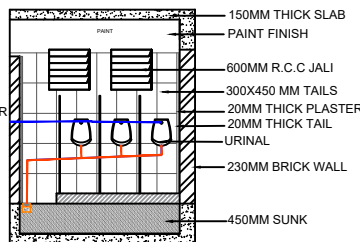
FIRST FLOOR PLAN



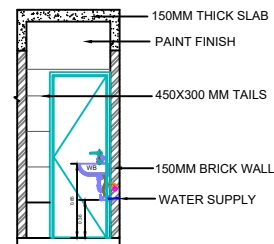
GROUND FLOOR PLAN



DEATAIL A



DEATAIL B



DETAIL OF WASH BASIN

LEGENDS:	
	110MM Ø SOIL PIPE
	80MM Ø VENT PIPE
	110MM Ø WASTE WATER PIPE
	50MM Ø TERRACE LOOPING
	25MM Ø WATER SUPPLY PIPE
	TAP
	NAHANI TRAP
	INSPECTION CHAMBER
	GULLY TAP

SCHEDULE OF DOOR & WINDOWS

TYPE	NOS	SIZE	DESCRIPTION
D	62	0.75 X 2.10	FRP DOOR
CG	2	1.2 X 2.10	M.S. COLLAPSIBLE GATE
V	105	0.60 X 0.60	RCC VENTILATOR

SCHEDULE OF ELECTRICAL POINTS

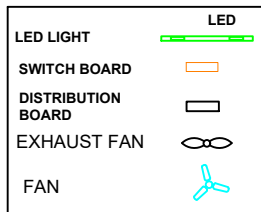
PARTICULARS	GROUND F.L.	FIRST F.L.	TOTAL
LED	25	22	47
FT (FAN POINT)	01	00	01
SWITCH BOARD	02	02	04
DISTRIBUTION BOARD	01	01	02
EXHAUST FAN	02	00	02

SCHEDULE OF TOILETS

TYPE	GENTS	LADIES	TOTAL
W.C.	25	26	51
HANDICAPPED W.C.	01	01	02
URINAL	04	00	04
TRANSGENDER	01	00	01
WESTERN	03	03	06
CHILDREN	02	00	02

TANKS DESCRIPTION

TYPE	CAPACITY	DIMENSION
UGT	33991 LITER	1.7 X 12.9 X 1.55
SEPTIC	13996 LITER	7X 12.9 X 1.55
OHT	18000 LITER	---
TOTAL	65987 LITER	---



SEATS - 60 (SWR)

NOTES:-

The following is done at the specific instruction MCGM.

- All dimension are in m otherwise noted.
- Any statutory approval from concerned authority shall be in the scope of MCGM.
- Admixture KP 200 (@2kg/cum) to be mixed with concrete of UG septic and water tanks. PPC Cement should be used for tiling, plaster etc.
- External plaster 20 mm thk in two coats in 1:4 C.M.with Additional waterproofing compound.
- Internal sand face plaster 12-15 mm thk.
- Polished kota stone shall be laid for flooring in passage, pump room including c.m.
- Light colored glazed ceramic tiles for dado upto 2.1 m of less than 0.3 x 0.3 m size.
- Suitable vent pipe to be provided in septic tank layout.
- Urinal Partition of 0.75 x 1.8 m in green marble.
- Pre construction anti-termite treatment to be provided.
- All dimension are in meter.
- size may vary in case of site hinderances.
- External wall=230mm.
- Internal wall=150mm.

GROUND FLOOR BUILT UP AREA CALCULATIONS

ADDITIONS:

A = 13.5 X 10X 1 = 135sq.m.

FIRST FLOOR BUILT UP AREA CALCULATIONS

ADDITIONS:

A = 13.5x 10 x 1 = 135 sq.m.

TOTAL = 270 sq. m.

MAXIMUM PERMISSIBLE FOR PAYMENT =60 x 4.5 =270

M-Jiwani
MINATI D. JIWANI
B. Arch.
CA/2018/91360

RIVISION	DATE	SIGNATURES			
R0					
R1					
R2					
R3					
R4					
R5		S.E.	A.E.	EX.ENGG.	DY. CH. ENGG.



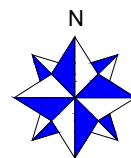
JIWANI CONSTRUMA PVT.LTD.

Adding Life to Structures

Jiwani Construma Pvt Ltd.
An ISO 9001:2015 Certified Company
(Architectural & Structural Consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

PROJECT:

CLIENT: BMC



GENERAL ARRANGEMENT DRAWING FOR TENDER

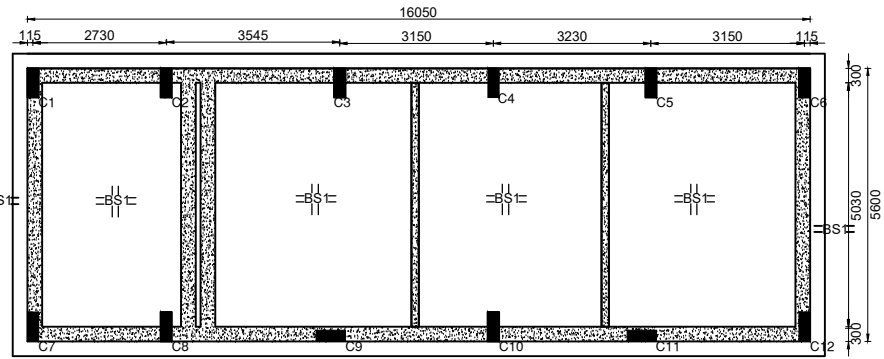
DRG. TITLE : ARCHITECTURAL DRAWING.

DRAWN:

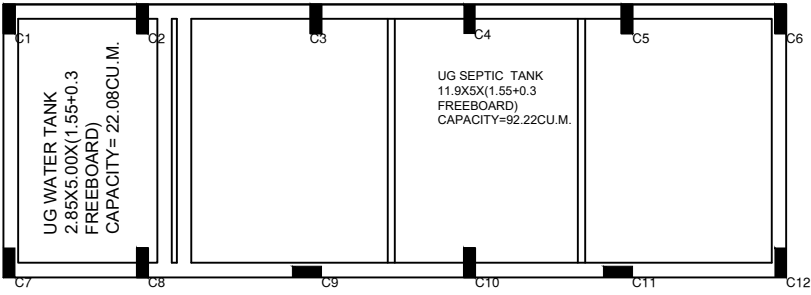
DATE

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. THIS DRAWING & DESIGN IS BASED ON THE FOLLOWING CODES OF PRACTICE & THE RELEVANT CODES REFERRED TO THEREIN
1. I.S. 456:2000 2. I.S. 875 (ALL PARTS):1987
3. I.S. 1893:2002 4. I.S. 4326:1994
3. AS THE HEIGHT OF STRUCTURE IS LESS THAN 40 M., WIND EFFECTS ARE NOT CONSIDERED IN THE DESIGN.
- THE RESPONSIBILITY OF ADHERING TO DRAWING ON SITE WILL BE OF CONTRACTOR.
4. SBC IS 10 T / SQ. M. THE SAME IS TO BE VERIFIED / ASCERTAINED BY SOIL INVESTIGATION AGENCY PRIOR TO FOUNDATION CONCRETE WORKS.
5. FOR DIMENSIONS, LEVEL AND GENERAL ARRANGEMENT REFER ARCH. DRWG.
- THE FLOOR HEIGHT HAS BEEN CONSIDERED AS 2.9M.
6. DO NOT SCALE THE DRAWING, ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWD UNLESS NOTED OTHERWISE ALL REINFORCEMENT SHALL BE OF T.M.T OF GRADE Fe500 CONFIRMING TO INDIAN STANDARD.
- AS PER IS 456:2000, THE MINIMUM GRADE OF R/F CONCRETE FOR SEVERE CONDITIONS IS M30.
- REINFORCEMENT COVER SHALL BE AS FOLLOWS:
1. FOOTING - 50 MM AT BOTTOM AND 40MM ON TOP
2. COLUMN - 40 MM
- WATERPROOF TREATMENT SHALL BE PROVIDED TO WALL OF SEPTIC TANK AND OUTER FACE OF COLUMN WHICH IS EMBEDDED IN SEPTIC TANK. ADMIXTURE KP 200 (@2KG/CUM) TO BE MIXED WITH CONCRETE FOR UG SEPTIC AND WATER TANKS.
- AT BEAM AND COLUMN JUNCTION, BEAM BARS IF IN CONFLICT WITH COLUMN BAR SHALL BE GRADUALLY BENT AND PLACED CLEAR OF COLUMN BARS. BEAM BARS SHOULD BE INSIDE COLUMN BARS.
- UNDER NO CIRCUMSTANCES COLUMN VERTICAL BARS SHALL BE BENT TO ACCOMMODATE BEAM BARS.
- NOT MORE THAN 50% OF BARS SHALL BE ULAPPED AT ANY SECTION LAP LENGTH ANY TYPE OF OPENING FOR PLUMBING, DRAWING OR ELECTRICAL IS NOT PERMITTED IN R.C.C. BEAMS AND COLUMN AFTER CASTING.
- PREDETERMINED HOLES IN THE FORM OF PIPES (DIA < 25 MM) MAY, HOWEVER BE PROVIDED.
- STRUCTURE IS DESIGNED FOR U.G. TANK +GROUND FLOOR + FIRST FLOOR ONLY.



FOUNDATION LEVEL PLAN
(CENTER LINE PLAN)
SCALE 1:100



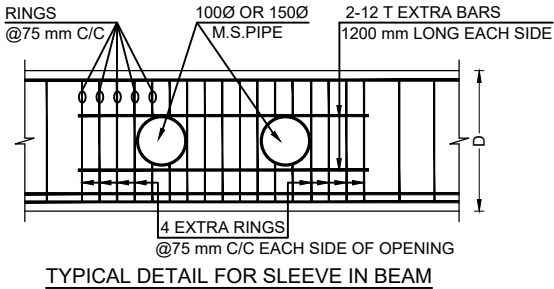
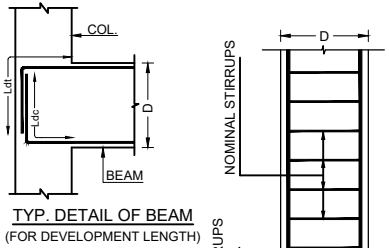
UNDERGROUND WATER TANK PLAN

SCHEDULE OF R.C.C WALL

SR. NO.	WALL THICKNESS	VERTICAL BARS AT INNER FACE	VERTICAL BARS AT OUTER FACE	HORIZONTAL BARS AT EACH FACE	REMARKS
VS1	230 THK.	12 T @150	12 T @150	10 T @ 150	RETAINING WALL
VS1	300 THK.	12 T @150	12 T @150	10 T @ 150	RETAINING WALL

SCHEDULE OF SLABS (BASEMENT)

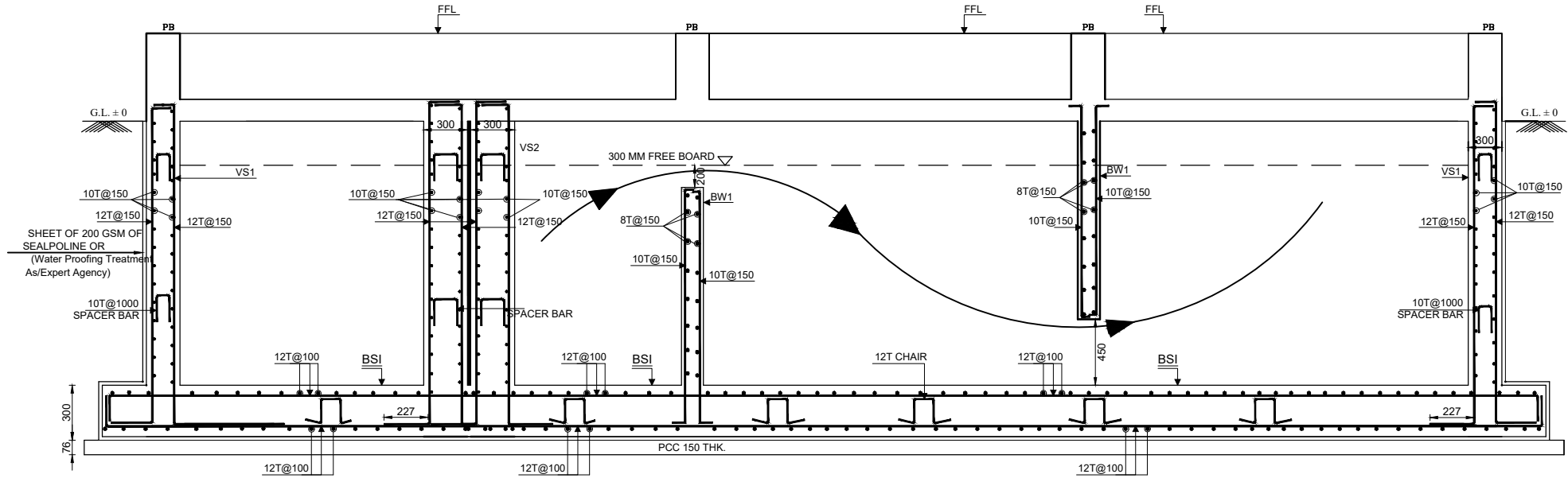
SLAB NO.	SIZE (OVERALL) IN MM	MID SPAN MAIN BARS		TOP BARS THROUGH-OUT	EXTRA TOP BARS UPTO 0.3xL FROM FACE OF BEAM	DISTRIBUTION BARS C/C	REMARKS
		BOTTOM BARS	BOTTOM BENT-UP @ 0.25xL FROM CENTER OF SUPPORT				
BS1	300 THK.	12 T @100 MESH		12 T @100 MESH			BASE SLAB



LAP/ SPLICE IN COLUMN

COLUMN AND WALL SCHEDULE

COLUMN	M30 : Fe500 , COVER = 50MM	M30 : Fe500 , COVER = 50MM	M30 : Fe500 , COVER = 50MM
VERTICAL STEEL	12-T16	4-T16 + 6-T12	8-T20 + 2-T16
LATERAL TIES	8T@100-150 C/C	8T@100-150 C/C	8T@100-150 C/C
COLUMN MARKED	C1 C3 C7 C9	C2 C6 C8 C12	C4C5 C10 C11



TYP. SECTION

Deepaka Jiwani
DEEPAKA JIWANI
Structural Engineer
MCGM License No. STR:840013193

SEPTIC TANK



JIWANI CONSTRUMA PVT.LTD.

Adding Life to Structures

Jiwani Construma Pvt Ltd.
(Architectural & Structural consultants)

7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

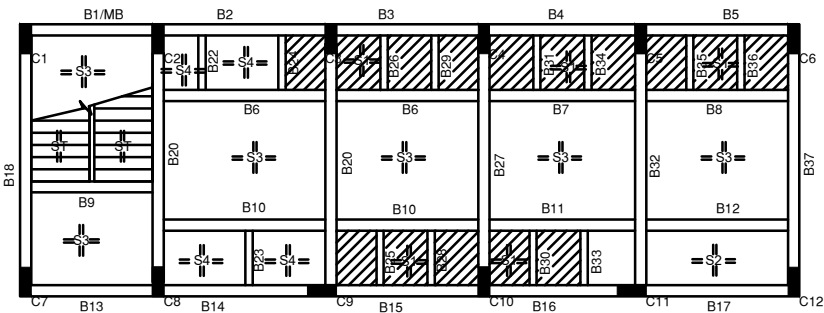
PROJECT

CLIENT: BMC

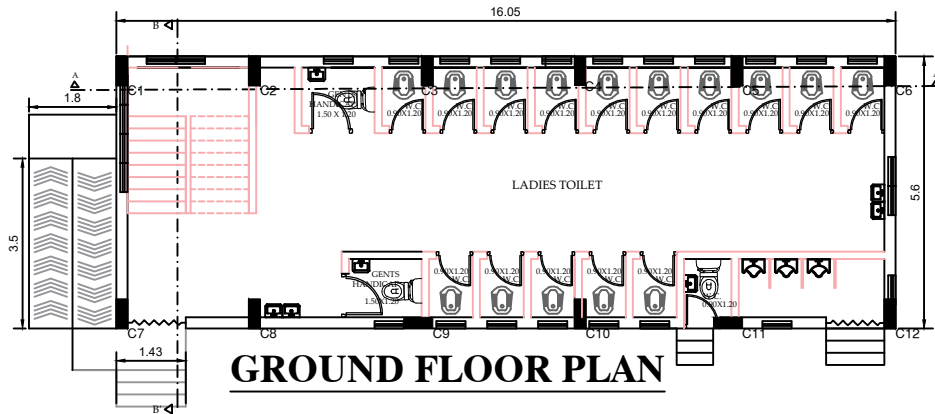
DRG. TITLE : UG TANK LAYOUT AND RCC DETAILS

DESIGN BY:

DATE:



PLINTH LEVEL PLAN
SCALE 1:100



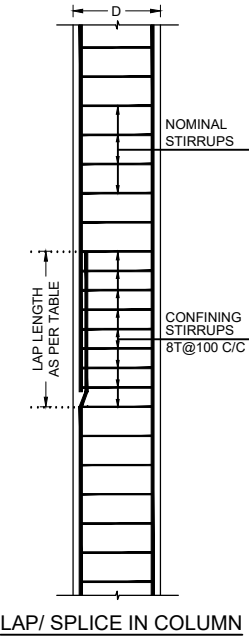
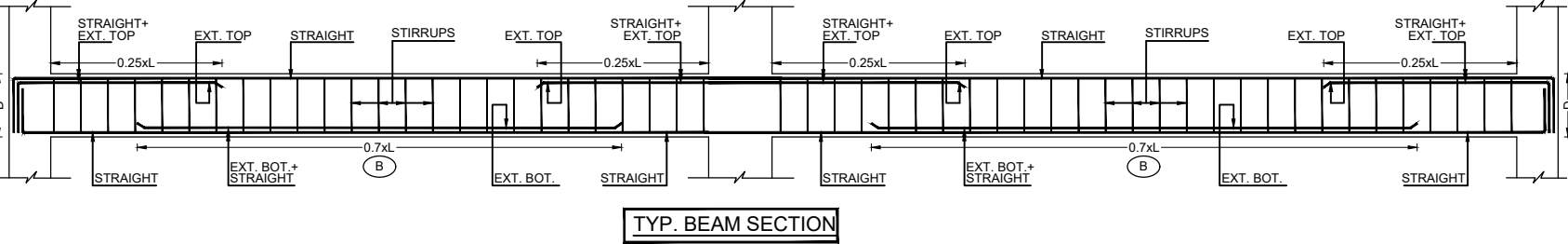
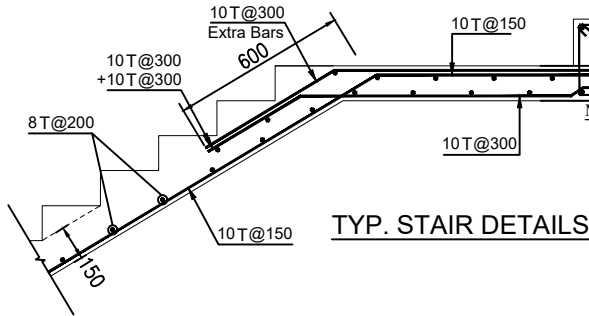
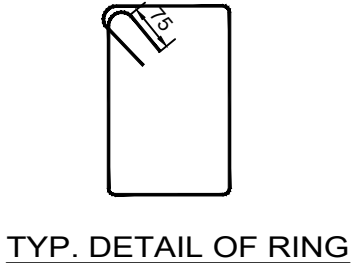
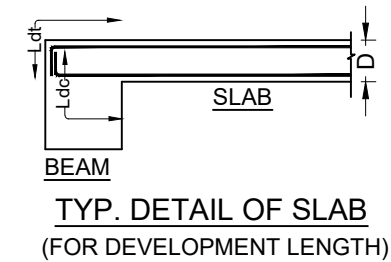
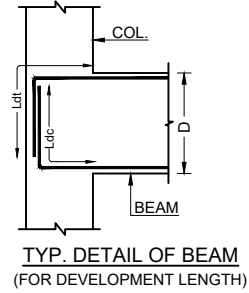
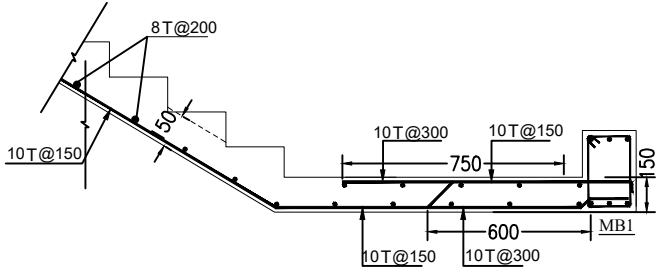
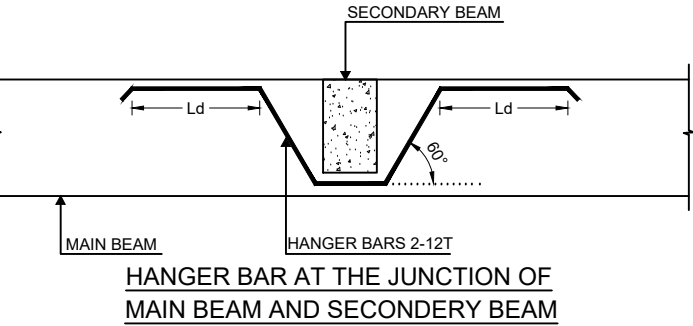
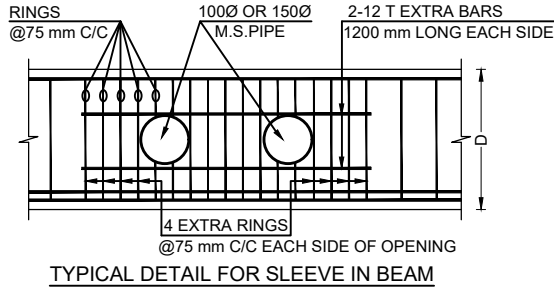
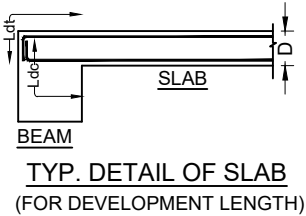
GROUND FLOOR PLAN

NOTES:-

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
 - THIS DRAWING & DESIGN IS BASED ON THE FOLLOWING CODES OF PRACTICE & THE RELEVANT CODES REFERRED TO THEREIN
 - I.S. 456:2000
 - I.S. 875 (ALL PARTS):1987
 - I.S. 1893:2002
 - I.S. 4326:1994
 - AS THE HEIGHT OF STRUCTURE IS LESS THAN 40 M., WIND EFFECTS ARE NOT CONSIDERED IN THE DESIGN. THE RESPONSIBILITY OF ADHERING TO DRAWING ON SITE WILL BE OF CONTRACTOR.
 - SBC IS 10 T / SQ. M. THE SAME IS TO BE VERIFIED / ASCERTAINED BY SOIL INVESTIGATION AGENCY PRIOR TO FOUNDATION CONCRETE WORKS.
 - FOR DIMENSIONS, LEVEL AND GENERAL ARRANGEMENT REFER ARCH. DRWG. THE FLOOR HEIGHT HAS BEEN CONSIDERED AS 2.9M.
 - DO NOT SCALE THE DRAWING, ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED UNLESS NOTED OTHERWISE ALL REINFORCEMENT SHALL BE OF T.M.T OF GRADE Fe500 CONFIRMING TO INDIAN STANDARD. AS PER IS 456:2000, THE MINIMUM GRADE OF R/F CONCRETE FOR SEVERE CONDITIONS IS M30. REINFORCEMENT COVER SHALL BE AS FOLLOWS:
 - FOOTING - 50 MM AT BOTTOM AND 40MM ON TOP
 - COLUMN - 40 MM
- WATERPROOF TREATMENT SHALL BE PROVIDED TO WALL OF SEPTIC TANK AND OUTER FACE OF COLUMN WHICH IS EMBEDDED IN SEPTIC TANK. ADMIXTURE KP 200 (@2KG/CUM) TO BE MIXED WITH CONCRETE FOR UG SEPTIC AND WATER TANKS.
- AT BEAM AND COLUMN JUNCTION, BEAM BARS IF IN CONFLICT WITH COLUMN BAR SHALL BE GRADUALLY BENT AND PLACED CLEAR OF COLUMN BARS. BEAM BARS SHOULD BE INSIDE COLUMN BARS. UNDER NO CIRCUMSTANCES COLUMN VERTICAL BARS SHALL BE BENT TO ACCOMMODATE BEAM BARS. NOT MORE THAN 50% OF BARS SHALL BE ULAPPED AT ANY SECTION LAP LENGTH ANY TYPE OF OPENING FOR PLUMBING, DRAWING OR ELECTRICAL IS NOT PERMITTED IN R.C.C. BEAMS AND COLUMN AFTER CASTING. PREDETERMINED HOLES IN THE FORM OF PIPES (DIA < 25 MM) MAY, HOWEVER BE PROVIDED. STRUCTURE IS DESIGNED FOR U.G. TANK +GROUND FLOOR + FIRST FLOOR ONLY.

SCHEDULE OF SLABS

SLAB NO.	SIZE (OVERALL) IN MM	MID SPAN MAIN BARS		TOP BARS THROUGH-OUT	EXTRA TOP BARS UPTO 0.3xL FROM FACE OF BEAM	DISTRIBUTION BARS C/C	REMARKS
		BOTTOM BARS	BOTTOM BENT-UP @ 0.25xL FROM CENTER OF SUPPORT				
S1	150 THK.	10 T @150 MESH		10 T @150 MESH			SUNK SLAB
S2	150 THK.	10 T @150	ALT.@0.25xL		12 T @300	8 T @200	ONE WAY SLAB
S3	150 THK.	10 T @150	ALT.@0.25xL		12 T @300	10 T @150	TWO WAY SLAB
S4	150 THK.	10 T @150	-	10 T @150	-	10 T @150	DOUBLE MESH
ST	150 THK.	10 T @150	ALT.@0.25xL		10 T @300	8 T @200	WAIST SLAB



Deepaka Jiwani
DEEPAKA JIWANI
Structural Engineer
MCGM License No. STR:840013193

SEPTIC TANK



JIWANI CONSTRUMA PVT.LTD.
Adding Life to Structures

Jiwani Construmate Pvt Ltd.
(Architectural & Structural consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

PROJECT

CLIENT: BMC

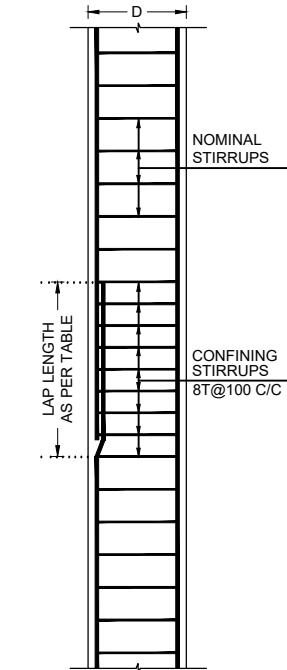
DRG. TITLE : RCC DETAILS AT PLINTH LEVEL

DESIGN BY:

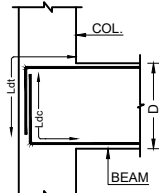
DATE:

PLINTH FLOOR BEAM SCHEDULE (M30;Fe500)

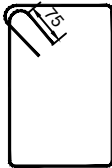
BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT			SHEAR STIRRUPS	REMARKS
	B	D	STRAIGHT	CURTAILED	STRAIGHT	EXTRA LEFT SUPP	EXTRA RIGHT SUPP		
B1	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B2	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B3	230	600	3-T16	-	3-T16	-	-	8 T @ 150 C/C	
B4	230	600	3-T12	-	3-T16	-	-	8 T @ 150 C/C	
B5	230	600	3-T16	-	3-T16	-	-	8 T @ 150 C/C	
B6	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B7,B11	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B8	230	600	3-T16	-	3-T16	-	-	8 T @ 150 C/C	
B9	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B10	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B12	230	600	3-T16	-	3-T16	-	-	8 T @ 150 C/C	
B13	230	600	3-T12	-	3-T16	-	-	8 T @ 150 C/C	
B14	230	600	3-T12	-	3-T16	-	-	8 T @ 150 C/C	
B15	230	600	3-T12	-	3-T16	-	-	8 T @ 150 C/C	
B16	230	600	3-T12	-	3-T16	-	-	8 T @ 150 C/C	
B17	230	600	3-T12	-	3-T16	-	-	8 T @ 150 C/C	
B18	230	600	3-T12	-	3-T16	-	-	8 T @ 150 C/C	
B19	230	600	3-T16	-	3-T16	-	-	8 T @ 150 C/C	
B20	230	600	3-T16	-	4-T20	-	-	8 T @ 150 C/C	
B21,B33	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B22	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B23,B24	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B25,B28,B30	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B26,B29,B31,B34 ,B35	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B27	230	600	3-T16	-	4-T20	-	-	8 T @ 150 C/C	
B32	230	600	3-T16	-	4-T20	-	-	8 T @ 150 C/C	
B36	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B37	230	600	3-T16	-	4-T20	-	-	8 T @ 150 C/C	



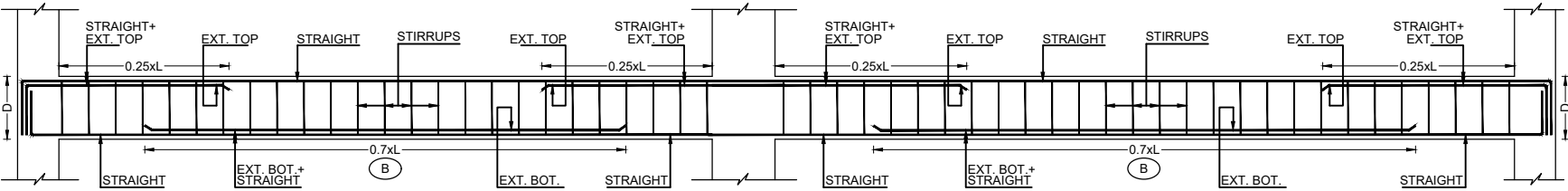
LAP/ SPLICE IN COLUMN



TYP. DETAIL OF BEAM
(FOR DEVELOPMENT LENGTH)



TYP. DETAIL OF RING



TYP. BEAM SECTION

NOTES:-

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
- THIS DRAWING & DESIGN IS BASED ON THE FOLLOWING CODES OF PRACTICE & THE RELEVANT CODES REFERRED TO THEREIN
 - I.S. 456:2000
 - I.S. 875 (ALL PARTS):1987
 - I.S. 1893:2002
 - I.S. 4326:1994
- AS THE HEIGHT OF STRUCTURE IS LESS THAN 40 M., WIND EFFECTS ARE NOT CONSIDERED IN THE DESIGN. THE RESPONSIBILITY OF ADHERING TO DRAWING ON SITE WILL BE OF CONTRACTOR.
- SBC IS 10 T / SQ. M. THE SAME IS TO BE VERIFIED / ASCERTAINED BY SOIL INVESTIGATION AGENCY PRIOR TO FOUNDATION CONCRETE WORKS.
- FOR DIMENSIONS, LEVEL AND GENERAL ARRANGEMENT REFER ARCH. DRWG. THE FLOOR HEIGHT HAS BEEN CONSIDERED AS 2.9M.
- DO NOT SCALE THE DRAWING, ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWD UNLESS NOTED OTHERWISE ALL REINFORCEMENT SHALL BE OF T.M.T OF GRADE Fe500 CONFIRMING TO INDIAN STANDARD. AS PER IS 456:2000, THE MINIMUM GRADE OF R/F CONCRETE FOR SEVERE CONDITIONS IS M30.
REINFORCEMENT COVER SHALL BE AS FOLLOWS:
 - FOOTING - 50 MM AT BOTTOM AND 40MM ON TOP
 - COLUMN - 40 MMWATERPROOF TREATMENT SHALL BE PROVIDED TO WALL OF SEPTIC TANK AND OUTER FACE OF COLUMN WHICH IS EMBEDDED IN SEPTIC TANK. ADMIXTURE KP 200 (@2KG/CUM) TO BE MIXED WITH CONCRETE FOR UG SEPTIC AND WATER TANKS.
AT BEAM AND COLUMN JUNCTION, BEAM BARS IF IN CONFLICT WITH COLUMN BAR SHALL BE GRADUALLY BENT AND PLACED CLEAR OF COLUMN BARS. BEAM BARS SHOULD BE INSIDE COLUMN BARS. UNDER NO CIRCUMSTANCES COLUMN VERTICAL BARS SHALL BE BENT TO ACCOMMODATE BEAM BARS. NOT MORE THAN 50% OF BARS SHALL BE ULAPPED AT ANY SECTION LAP LENGTH ANY TYPE OF OPENING FOR PLUMBING, DRAWING OR ELECTRICAL IS NOT PERMITTED IN R.C.C. BEAMS AND COLUMN AFTER CASTING.
PREDETERMINED HOLES IN THE FORM OF PIPES (DIA < 25 MM) MAY, HOWEVER BE PROVIDED.
STRUCTURE IS DESIGNED FOR U.G. TANK +GROUND FLOOR + FIRST FLOOR ONLY.

Deepaka Jiwani
DEEPAKA JIWANI
Structural Engineer
MCGM License No. STR:840013193

SEPTIC TANK



JIWANI CONSTRUMA PVT.LTD.

Adding Life to Structures

Jiwani Construmate Pvt Ltd.
(Architectural & Structural consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

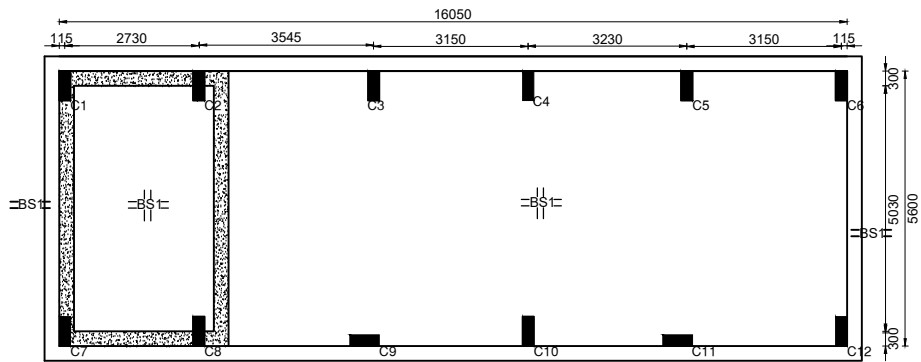
PROJECT

CLIENT: BMC

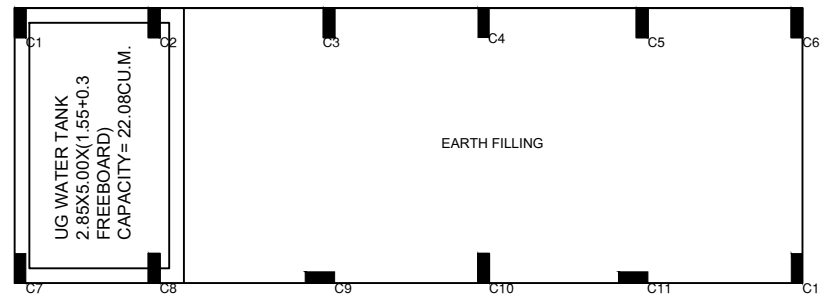
DRG. TITLE : RCC DETAILS AT PLINTH LEVEL

DESIGN BY:

DATE:



FOUNDATION LEVEL PLAN
(CENTER LINE PLAN)
SCALE 1:100



UNDERGROUND WATER TANK PLAN

SCHEDULE OF R.C.C WALL

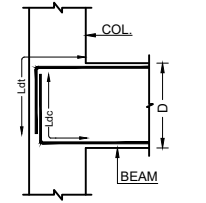
SR. NO.	WALL THICKNESS	VERTICAL BARS AT INNER FACE	VERTICAL BARS AT OUTER FACE	HORIZONTAL BARS AT EACH FACE	REMARKS
VS1	230 THK.	12 T @150	12 T @150	10 T @ 150	RETAINING WALL
VS1	300 THK.	12 T @150	12 T @150	10 T @ 150	RETAINING WALL

COLUMN AND WALL SCHEDULE

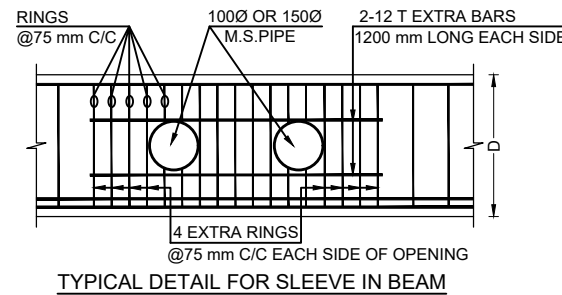
COLUMN	M30 : Fe500 , COVER = 50MM	M30 : Fe500 , COVER = 50MM	M30 : Fe500 , COVER = 50MM
VERTICAL STEEL	12-T16	4-T16 + 6-T12	8-T20 + 2-T16
LATERAL TIES	8T@100-150 C/C	8T@100-150 C/C	8T@100-150 C/C
COLUMN MARKED	C1 C3 C7 C9	C2 C6 C8 C12	C4C5 C10 C11

SCHEDULE OF SLABS (BASEMENT)

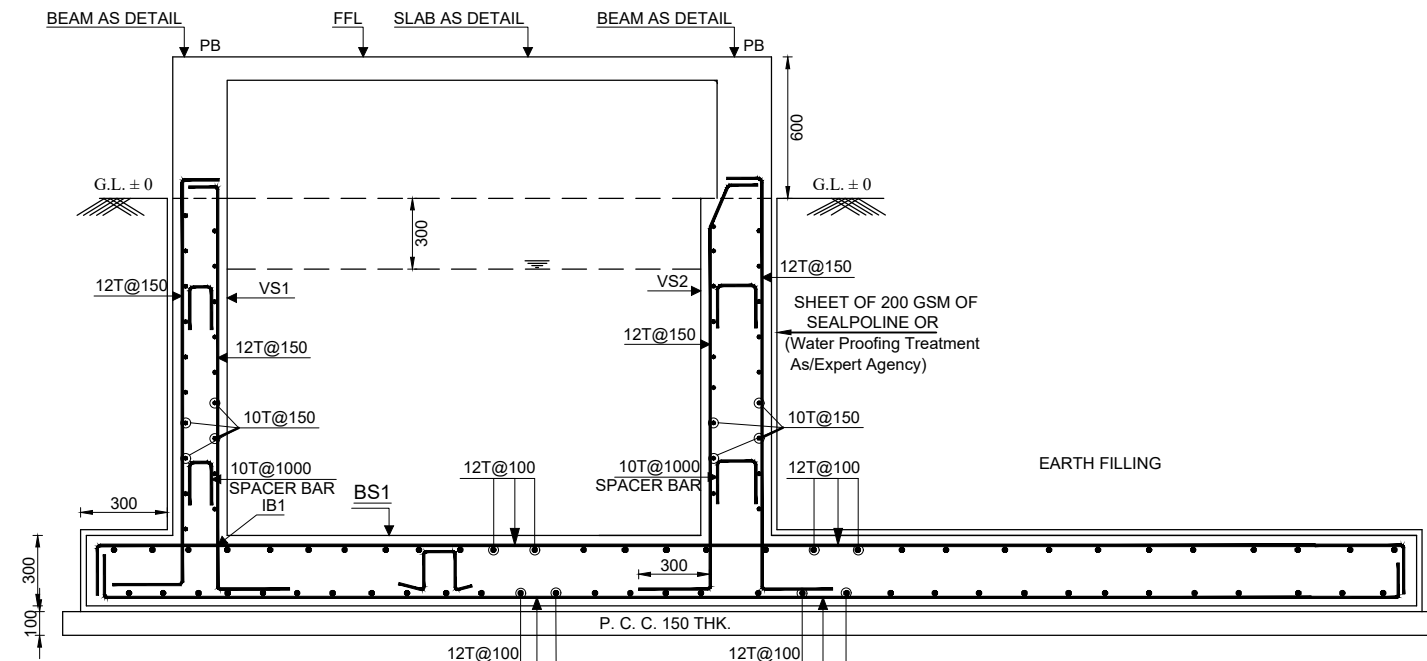
SLAB NO.	SIZE (OVERALL) IN MM	MID SPAN MAIN BARS		TOP BARS THROUGH-OUT	EXTRA TOP BARS UPTO 0.3xL FROM FACE OF BEAM	DISTRIBUTION BARS C/C	REMARKS
		BOTTOM BARS	BOTTOM BENT-UP @ 0.25xL FROM CENTER OF SUPPORT				
BS1	300 THK.	12 T @100 MESH		12 T @100 MESH			BASE SLAB



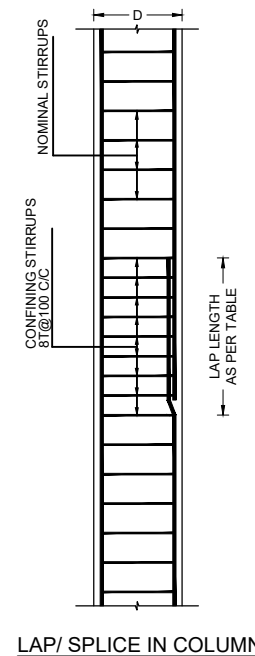
TYP. DETAIL OF BEAM
(FOR DEVELOPMENT LENGTH)



TYPICAL DETAIL FOR SLEEVE IN BEAM



TYP. SECTION OF UGW



LAP/ SPLICE IN COLUMN

NOTES:-

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
 - THIS DRAWING & DESIGN IS BASED ON THE FOLLOWING CODES OF PRACTICE & THE RELEVANT CODES REFERRED TO THEREIN
 - I.S. 456:2000
 - I.S. 875 (ALL PARTS):1987
 - I.S. 1893:2002
 - I.S. 4326:1994
 - AS THE HEIGHT OF STRUCTURE IS LESS THAN 40 M., WIND EFFECTS ARE NOT CONSIDERED IN THE DESIGN. THE RESPONSIBILITY OF ADHERING TO DRAWING ON SITE WILL BE OF CONTRACTOR.
 - SBC IS 10 T / SQ. M. THE SAME IS TO BE VERIFIED / ASCERTAINED BY SOIL INVESTIGATION AGENCY PRIOR TO FOUNDATION CONCRETE WORKS.
 - FOR DIMENSIONS, LEVEL AND GENERAL ARRANGEMENT REFER ARCH. DRWG. THE FLOOR HEIGHT HAS BEEN CONSIDERED AS 2.9M.
 - DO NOT SCALE THE DRAWING, ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED UNLESS NOTED OTHERWISE ALL REINFORCEMENT SHALL BE OF T.M.T OF GRADE Fe500 CONFIRMING TO INDIAN STANDARD. AS PER IS 456:2000, THE MINIMUM GRADE OF R/F CONCRETE FOR SEVERE CONDITIONS IS M30. REINFORCEMENT COVER SHALL BE AS FOLLOWS:
 - FOOTING - 50 MM AT BOTTOM AND 40MM ON TOP
 - COLUMN - 40 MM
- WATERPROOF TREATMENT SHALL BE PROVIDED TO WALL OF SEPTIC TANK AND OUTER FACE OF COLUMN WHICH IS EMBEDDED IN SEPTIC TANK. ADMIXTURE KP 200 (@2KG/CUM) TO BE MIXED WITH CONCRETE FOR UG SEPTIC AND WATER TANKS.
- AT BEAM AND COLUMN JUNCTION, BEAM BARS IF IN CONFLICT WITH COLUMN BAR SHALL BE GRADUALLY BENT AND PLACED CLEAR OF COLUMN BARS. BEAM BARS SHOULD BE INSIDE COLUMN BARS.
- UNDER NO CIRCUMSTANCES COLUMN VERTICAL BARS SHALL BE BENT TO ACCOMMODATE BEAM BARS.
- NOT MORE THAN 50% OF BARS SHALL BE ULAPPED AT ANY SECTION LAP LENGTH ANY TYPE OF OPENING FOR PLUMBING, DRAWING OR ELECTRICAL IS NOT PERMITTED IN R.C.C. BEAMS AND COLUMN AFTER CASTING.
- PREDETERMINED HOLES IN THE FORM OF PIPES (DIA < 25 MM) MAY, HOWEVER BE PROVIDED.
- STRUCTURE IS DESIGNED FOR U.G. TANK +GROUND FLOOR + FIRST FLOOR ONLY.

Deepaka Jiwani
DEEPAKA JIWANI
Structural Engineer
MCGM License No. STR:840013193

SEWER LINE



JIWANI CONSTRUMA PVT.LTD.

Adding Life to Structures

Jiwani Construma Pvt Ltd.
(Architectural & Structural consultants)

7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

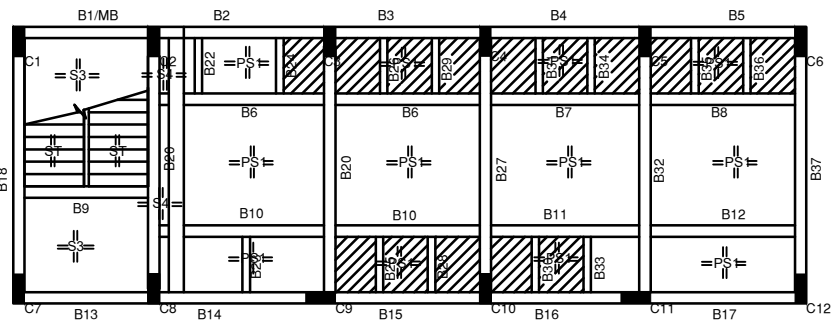
PROJECT

CLIENT: BMC

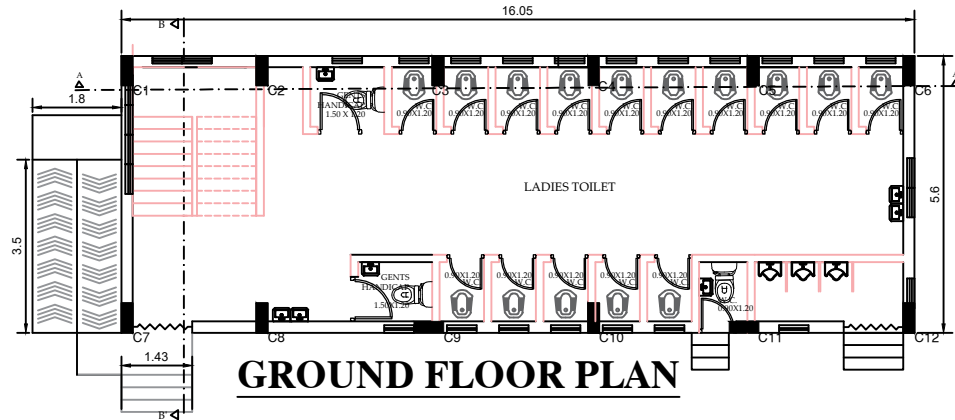
DRG. TITLE : UG TANK LAYOUT AND RCC DETAILS

DESIGN BY:

DATE:



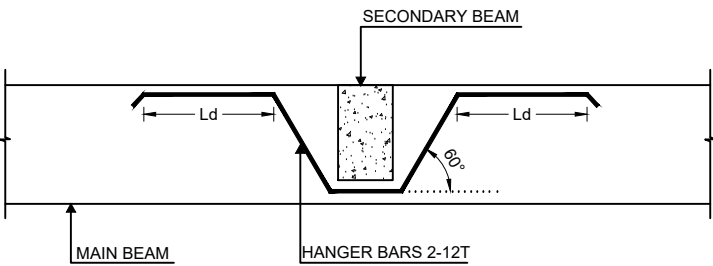
PLINTH LEVEL PLAN
SCALE 1:100



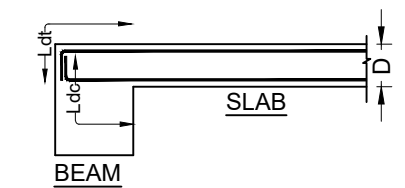
GROUND FLOOR PLAN

SCHEDULE OF SLABS

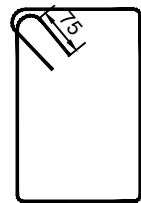
SLAB NO.	SIZE (OVERALL) IN MM	MID SPAN MAIN BARS BOTTOM BARS	BOTTOM BENT-UP @ 0.25xL FROM CENTER OF SUPPORT	TOP BARS THROUGH-OUT	EXTRA TOP BARS UPTO 0.3xL FROM FACE OF BEAM	DISTRIBUTION BARS C/C	REMARKS
S1	150 THK.	10 T @150 MESH		10 T @150 MESH			SUNK SLAB
S2	150 THK.	10 T @150	ALT.@0.25xL		12 T @300	8 T @200	ONE WAY SLAB
S3	150 THK.	10 T @150	ALT.@0.25xL		12 T @300	10 T @150	TWO WAY SLAB
S4	150 THK.	10 T @150	-	10 T @150	-	10 T @150	DOUBLE MESH
PS1	150 THK.	10 T @150		10 T @150		8 T @200	GRID SLAB
ST	150 THK.	10 T @150	ALT.@0.25xL		10 T @300	8 T @200	WAIST SLAB



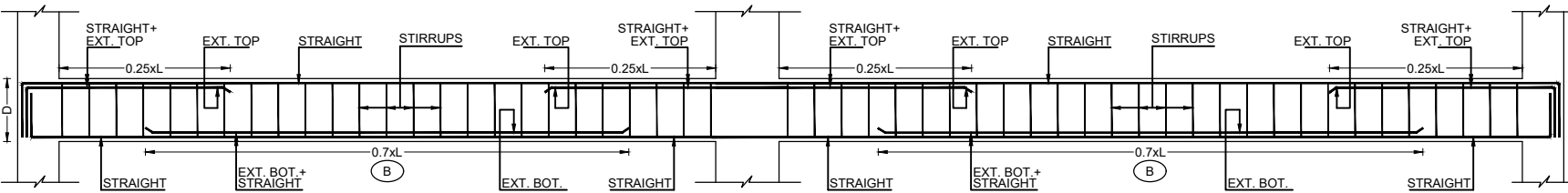
HANGER BAR AT THE JUNCTION OF
MAIN BEAM AND SECONDARY BEAM



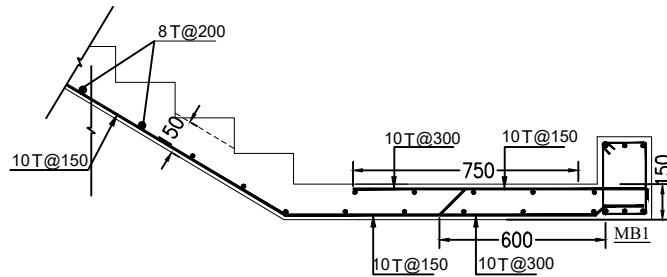
TYP. DETAIL OF SLAB
(FOR DEVELOPMENT LENGTH)



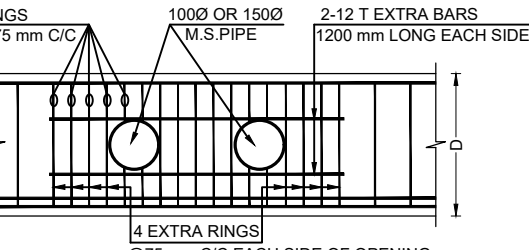
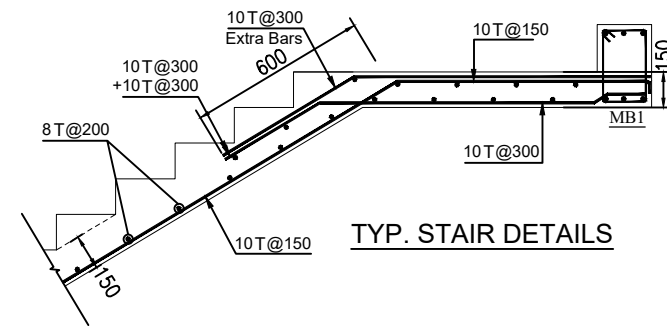
TYP. DETAIL OF RING



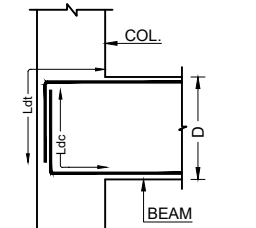
TYP. BEAM SECTION



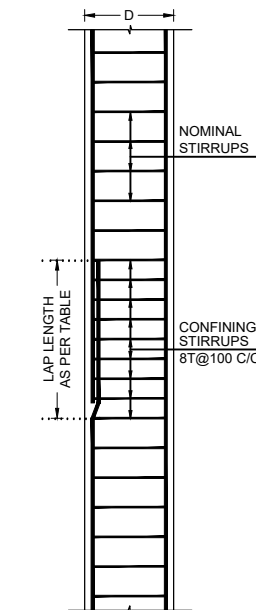
TYP. STAIR DETAILS



TYPICAL DETAIL FOR SLEEVE IN BEAM



TYP. DETAIL OF BEAM
(FOR DEVELOPMENT LENGTH)



LAP/ SPLICE IN COLUMN

NOTES:-

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
- THIS DRAWING & DESIGN IS BASED ON THE FOLLOWING CODES OF PRACTICE & THE RELEVANT CODES REFERRED TO THEREIN
 - I.S. 456:2000
 - I.S. 875 (ALL PARTS):1987
 - I.S. 1893:2002
 - I.S. 4326:1994
- AS THE HEIGHT OF STRUCTURE IS LESS THAN 40 M., WIND EFFECTS ARE NOT CONSIDERED IN THE DESIGN. THE RESPONSIBILITY OF ADHERING TO DRAWING ON SITE WILL BE OF CONTRACTOR.
- SBC IS 10 T / SQ. M. THE SAME IS TO BE VERIFIED / ASCERTAINED BY SOIL INVESTIGATION AGENCY PRIOR TO FOUNDATION CONCRETE WORKS.
- FOR DIMENSIONS, LEVEL AND GENERAL ARRANGEMENT REFER ARCH. DRWG. THE FLOOR HEIGHT HAS BEEN CONSIDERED AS 2.9M.
- DO NOT SCALE THE DRAWING, ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED UNLESS NOTED OTHERWISE ALL REINFORCEMENT SHALL BE OF T.M.T OF GRADE Fe500 CONFIRMING TO INDIAN STANDARD. AS PER IS 456:2000, THE MINIMUM GRADE OF R/F CONCRETE FOR SEVERE CONDITIONS IS M30. REINFORCEMENT COVER SHALL BE AS FOLLOWS:
 - FOOTING - 50 MM AT BOTTOM AND 40MM ON TOP
 - COLUMN - 40 MM
 WATERPROOF TREATMENT SHALL BE PROVIDED TO WALL OF SEPTIC TANK AND OUTER FACE OF COLUMN WHICH IS EMBEDDED IN SEPTIC TANK. ADMIXTURE KP 200 (@2KG/CUM) TO BE MIXED WITH CONCRETE FOR UG SEPTIC AND WATER TANKS. AT BEAM AND COLUMN JUNCTION, BEAM BARS IF IN CONFLICT WITH COLUMN BAR SHALL BE GRADUALLY BENT AND PLACED CLEAR OF COLUMN BARS. BEAM BARS SHOULD BE INSIDE COLUMN BARS. UNDER NO CIRCUMSTANCES COLUMN VERTICAL BARS SHALL BE BENT TO ACCOMMODATE BEAM BARS. NOT MORE THAN 50% OF BARS SHALL BE ULAPPED AT ANY SECTION LAP LENGTH ANY TYPE OF OPENING FOR PLUMBING, DRAWING OR ELECTRICAL IS NOT PERMITTED IN R.C.C. BEAMS AND COLUMN AFTER CASTING. PREDETERMINED HOLES IN THE FORM OF PIPES (DIA < 25 MM) MAY, HOWEVER BE PROVIDED. STRUCTURE IS DESIGNED FOR U.G. TANK +GROUND FLOOR + FIRST FLOOR ONLY.

Deepaka Jiwani
DEEPAKA JIWANI
Structural Engineer
MCGM License No. STR:840013193

SEWER LINE



JIWANI CONSTRUMA PVT.LTD.

Adding Life to Structures

Jiwani Construma Pvt Ltd.
(Architectural & Structural consultants)

7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

PROJECT

CLIENT: BMC
MUMBAI (MCGM)

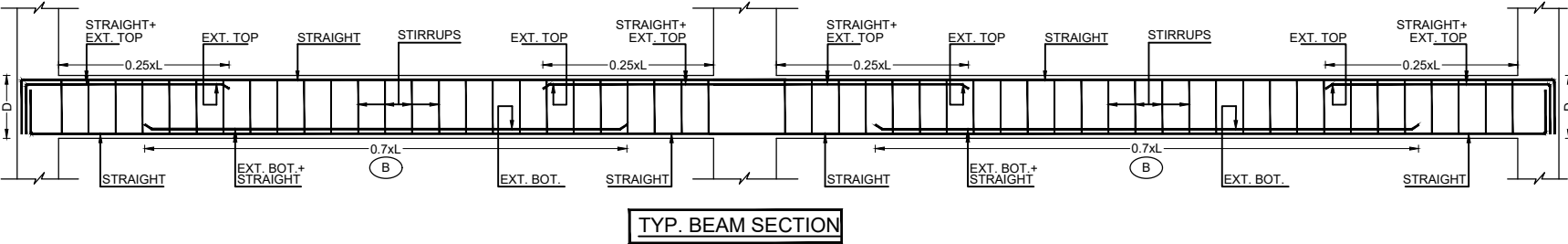
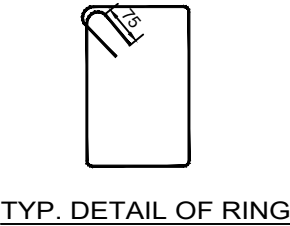
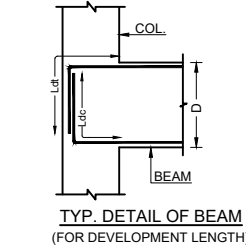
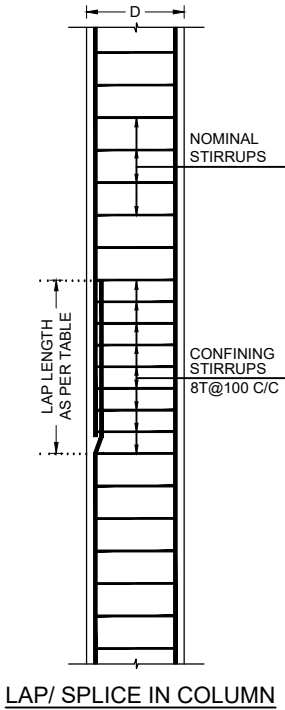
DRG. TITLE : RCC DETAILS AT PLINTH LEVEL

DESIGN BY:

DATE:

PLINTH FLOOR BEAM SCHEDULE (M30:Fe500)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT			SHEAR STIRRUPS	REMARKS
	B	D	STRAIGHT	CURTAILED	STRAIGHT	EXTRA LEFT SUPP	EXTRA RIGHT SUPP		
B1	230	600	3-T12	-	3-T12	-	- 3-T12	8 T @ 150 C/C	
B2	230	600	3-T12	-	3-T12	-	- 3-T12	8 T @ 150 C/C	
B3	230	600	3-T16	-	3-T16	- 3-T16	- 3-T16	8 T @ 150 C/C	
B4	230	600	3-T12	-	3-T16	- 3-T16	- 3-T16	8 T @ 150 C/C	
B5	230	600	3-T16	-	3-T16	- 3-T16	- 3-T16	8 T @ 150 C/C	
B6	230	600	3-T12	- 2-T12	3-T12	- 2-T12	- 2-T12	8 T @ 150 C/C	
B7,B11	230	600	3-T12	- 2-T12	3-T12	- 2-T12	- 2-T12	8 T @ 150 C/C	
B8	230	600	3-T16	- 2-T12	3-T16	-	-	8 T @ 150 C/C	
B9	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B10	230	600	3-T12	- 2-T12	3-T12	- 2-T12	- 2-T12	8 T @ 150 C/C	
B12	230	600	3-T16	- 2-T12	3-T16	-	-	8 T @ 150 C/C	
B13	230	600	3-T12	-	3-T16	-	-	8 T @ 150 C/C	
B14	230	600	3-T12	-	3-T16	-	- 3-T16	8 T @ 150 C/C	
B15	230	600	3-T12	- 2-T12	3-T16	- 3-T16	- 3-T16	8 T @ 150 C/C	
B16	230	600	3-T12	- 2-T12	3-T16	- 3-T16	- 3-T16	8 T @ 150 C/C	
B17	230	600	3-T12	- 2-T12	3-T16	- 3-T16	- 3-T16	8 T @ 150 C/C	
B18	230	600	3-T12	- 2-T12	3-T16	- 3-T16	- 3-T16	8 T @ 150 C/C	
B19	230	600	3-T16	- 3-T12	3-T16	- 3-T16	- 3-T16	8 T @ 150 C/C	
B20	230	600	3-T16	- 2-T12	4-T20	- 3-T16	- 3-T16	8 T @ 150 C/C	
B21,B33	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B22	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B23,B24	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B25,B28,B30	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B26,B29,B31,B34 ,B35	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B27	230	600	3-T16	- 3-T12	4-T20	- 3-T16	- 3-T16	8 T @ 150 C/C	
B32	230	600	3-T16	- 3-T12	4-T20	- 3-T16	- 3-T16	8 T @ 150 C/C	
B36	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B37	230	600	3-T16	-	4-T20	- 3-T16	- 3-T16	8 T @ 150 C/C	



- NOTES:-
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
 - THIS DRAWING & DESIGN IS BASED ON THE FOLLOWING CODES OF PRACTICE & THE RELEVANT CODES REFERRED TO THEREIN
 - I.S. 456:2000
 - I.S. 875 (ALL PARTS):1987
 - I.S. 1893:2002
 - I.S. 4326:1994
 - AS THE HEIGHT OF STRUCTURE IS LESS THAN 40 M., WIND EFFECTS ARE NOT CONSIDERED IN THE DESIGN. THE RESPONSIBILITY OF ADHERING TO DRAWING ON SITE WILL BE OF CONTRACTOR.
 - SBC IS 10 T / SQ. M. THE SAME IS TO BE VERIFIED / ASCERTAINED BY SOIL INVESTIGATION AGENCY PRIOR TO FOUNDATION CONCRETE WORKS.
 - FOR DIMENSIONS, LEVEL AND GENERAL ARRANGEMENT REFER ARCH. DRWG. THE FLOOR HEIGHT HAS BEEN CONSIDERED AS 2.9M.
 - DO NOT SCALE THE DRAWING, ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED UNLESS NOTED OTHERWISE ALL REINFORCEMENT SHALL BE OF T.M.T OF GRADE Fe500 CONFIRMING TO INDIAN STANDARD. AS PER IS 456:2000, THE MINIMUM GRADE OF R/F CONCRETE FOR SEVERE CONDITIONS IS M30.
- REINFORCEMENT COVER SHALL BE AS FOLLOWS:
- FOOTING - 50 MM AT BOTTOM AND 40MM ON TOP
 - COLUMN - 40 MM
- WATERPROOF TREATMENT SHALL BE PROVIDED TO WALL OF SEPTIC TANK AND OUTER FACE OF COLUMN WHICH IS EMBEDDED IN SEPTIC TANK. ADMIXTURE KP 200 (@2KG/CUM) TO BE MIXED WITH CONCRETE FOR UG SEPTIC AND WATER TANKS.
- AT BEAM AND COLUMN JUNCTION, BEAM BARS IF IN CONFLICT WITH COLUMN BAR SHALL BE GRADUALLY BENT AND PLACED CLEAR OF COLUMN BARS. BEAM BARS SHOULD BE INSIDE COLUMN BARS. UNDER NO CIRCUMSTANCES COLUMN VERTICAL BARS SHALL BE BENT TO ACCOMMODATE BEAM BARS. NOT MORE THAN 50% OF BARS SHALL BE ULAPPED AT ANY SECTION LAP LENGTH ANY TYPE OF OPENING FOR PLUMBING, DRAWING OR ELECTRICAL IS NOT PERMITTED IN R.C.C. BEAMS AND COLUMN AFTER CASTING. PREDETERMINED HOLES IN THE FORM OF PIPES (DIA < 25 MM) MAY, HOWEVER BE PROVIDED. STRUCTURE IS DESIGNED FOR U.G. TANK +GROUND FLOOR + FIRST FLOOR ONLY.

Deepaka Jiwani
DEEPAKA JIWANI
Structural Engineer
MCGM License No. STR:840013193

SEWER LINE



JIWANI CONSTRUMA PVT.LTD.
Adding Life to Structures

Jiwani Construmate Pvt Ltd.
(Architectural & Structural consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

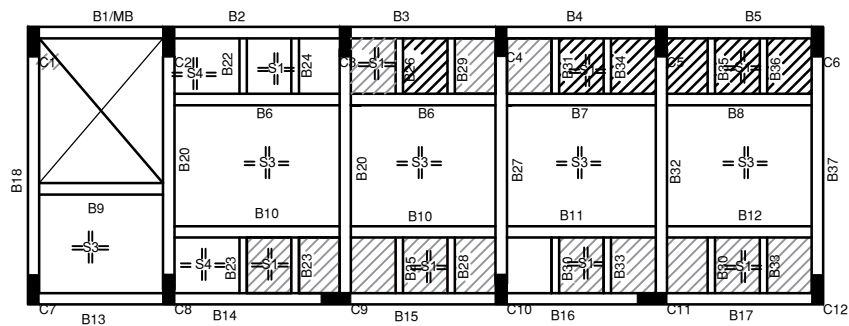
PROJECT

CLIENT: BMC

DRG. TITLE : RCC DETAILS AT PLINTH LEVEL

DESIGN BY:

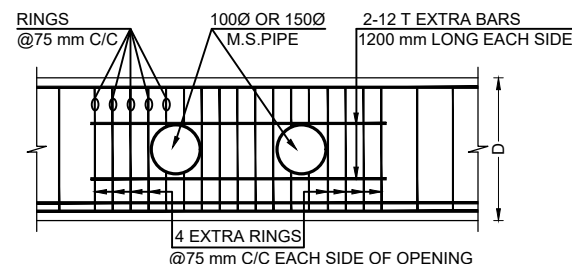
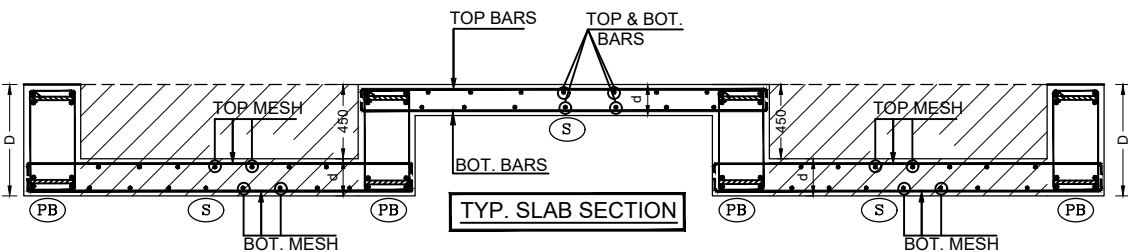
DATE:



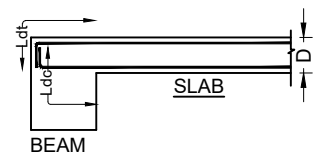
FIRST SLAB LEVEL PLAN
SCALE 1:100

SCHEDULE OF SLABS

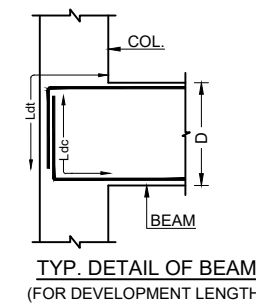
SLAB NO.	SIZE (OVERALL) IN MM	MID SPAN MAIN BARS		TOP BARS THROUGH-OUT	EXTRA TOP BARS UPTO 0.3xL FROM FACE OF BEAM	DISTRIBUTION BARS C/C	REMARKS
		BOTTOM BARS	BOTTOM BENT-UP @ 0.25xL FROM CENTER OF SUPPORT				
S1	150 THK.	10 T @150 MESH		10 T @150 MESH			SUNK SLAB
S2	150 THK.	10 T @150	ALT.@0.25xL		12 T @300	8 T @200	ONE WAY SLAB
S3	150 THK.	10 T @150	ALT.@0.25xL		12 T @300	10 T @150	TWO WAY SLAB
S4	150 THK.	10 T @150	-	10 T @150	-	10 T @150	DOUBLE MESH
ST	150 THK.	10 T @150	ALT.@0.25xL		10 T @300	8 T @200	WAIST SLAB



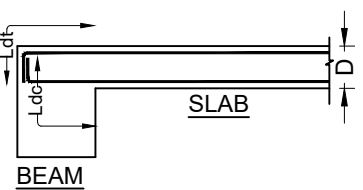
TYPICAL DETAIL FOR SLEEVE IN BEAM



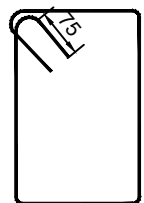
TYP. DETAIL OF SLAB
(FOR DEVELOPMENT LENGTH)



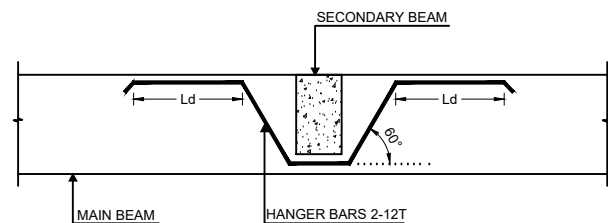
TYP. DETAIL OF BEAM
(FOR DEVELOPMENT LENGTH)



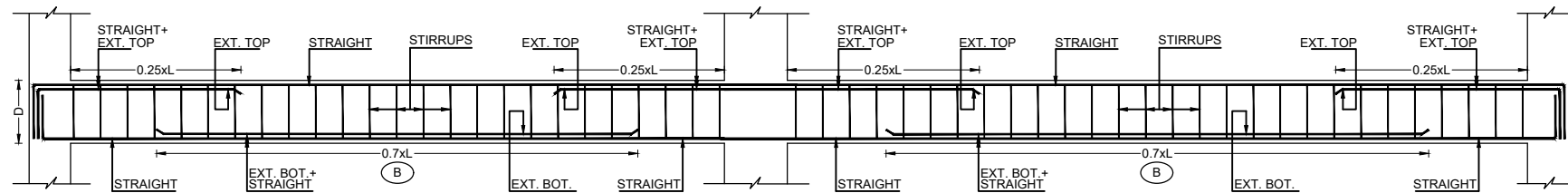
TYP. DETAIL OF SLAB
(FOR DEVELOPMENT LENGTH)



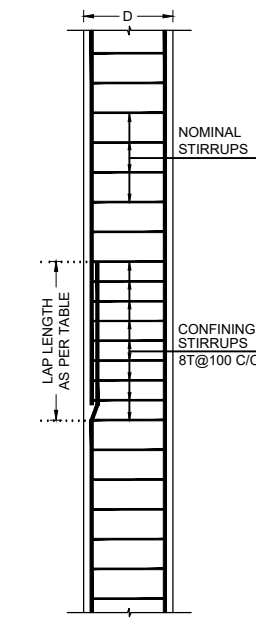
TYP. DETAIL OF RING



HANGER BAR AT THE JUNCTION OF
MAIN BEAM AND SECONDARY BEAM



TYP. BEAM SECTION



LAP/ SPLICE IN COLUMN

NOTES:-

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
 - THIS DRAWING & DESIGN IS BASED ON THE FOLLOWING CODES OF PRACTICE & THE RELEVANT CODES REFERRED TO THEREIN
 - I.S. 456:2000
 - I.S. 875 (ALL PARTS):1987
 - I.S. 1893:2002
 - I.S. 4326:1994
 - AS THE HEIGHT OF STRUCTURE IS LESS THAN 40 M., WIND EFFECTS ARE NOT CONSIDERED IN THE DESIGN. THE RESPONSIBILITY OF ADHERING TO DRAWING ON SITE WILL BE OF CONTRACTOR.
 - SBC IS 10 T / SQ. M. THE SAME IS TO BE VERIFIED / ASCERTAINED BY SOIL INVESTIGATION AGENCY PRIOR TO FOUNDATION CONCRETE WORKS.
 - FOR DIMENSIONS, LEVEL AND GENERAL ARRANGEMENT REFER ARCH. DRWG. THE FLOOR HEIGHT HAS BEEN CONSIDERED AS 2.9M.
 - DO NOT SCALE THE DRAWING, ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED UNLESS NOTED OTHERWISE ALL REINFORCEMENT SHALL BE OF T.M.T OF GRADE Fe500 CONFIRMING TO INDIAN STANDARD. AS PER IS 456:2000, THE MINIMUM GRADE OF R/F CONCRETE FOR SEVERE CONDITIONS IS M30. REINFORCEMENT COVER SHALL BE AS FOLLOWS:
 - FOOTING - 50 MM AT BOTTOM AND 40MM ON TOP
 - COLUMN - 40 MM
- WATERPROOF TREATMENT SHALL BE PROVIDED TO WALL OF SEPTIC TANK AND OUTER FACE OF COLUMN WHICH IS EMBEDDED IN SEPTIC TANK. ADMIXTURE KP 200 (@2KG/CUM) TO BE MIXED WITH CONCRETE FOR UG SEPTIC AND WATER TANKS.
- AT BEAM AND COLUMN JUNCTION, BEAM BARS IF IN CONFLICT WITH COLUMN BAR SHALL BE GRADUALLY BENT AND PLACED CLEAR OF COLUMN BARS. BEAM BARS SHOULD BE INSIDE COLUMN BARS. UNDER NO CIRCUMSTANCES COLUMN VERTICAL BARS SHALL BE BENT TO ACCOMMODATE BEAM BARS. NOT MORE THAN 50% OF BARS SHALL BE ULAPPED AT ANY SECTION LAP LENGTH ANY TYPE OF OPENING FOR PLUMBING, DRAWING OR ELECTRICAL IS NOT PERMITTED IN R.C.C. BEAMS AND COLUMN AFTER CASTING.
- PREDETERMINED HOLES IN THE FORM OF PIPES (DIA < 25 MM) MAY, HOWEVER BE PROVIDED. STRUCTURE IS DESIGNED FOR U.G. TANK +GROUND FLOOR + FIRST FLOOR ONLY.

Deepaka Jiwani
DEEPAKA JIWANI
Structural Engineer
MCGM License No. STR:840013193

SEWER LINE



JIWANI CONSTRUMA PVT.LTD.

Adding Life to Structures

Jiwani Construma Pvt Ltd.
(Architectural & Structural consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

PROJECT

CLIENT: BMC

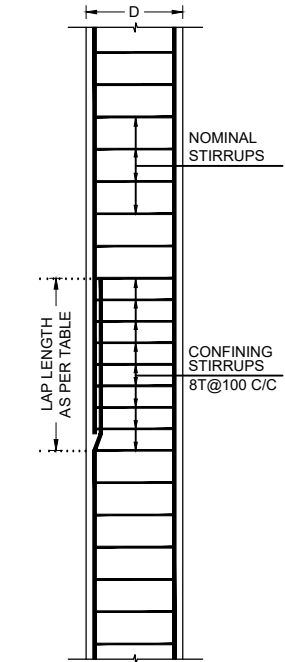
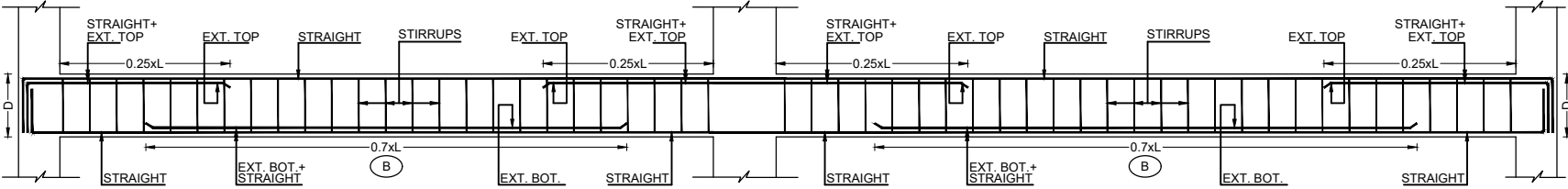
DRG. TITLE : RCC DETAILS AT FIRST SLAB LEVEL

DESIGN BY:

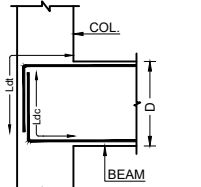
DATE:

FIRST FLOOR BEAM SCHEDULE (M30:Fe500)

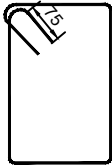
BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT			SHEAR STIRRUPS	REMARKS
	B	D	STRAIGHT	CURTAILED	STRAIGHT	EXTRA LEFT SUPP	EXTRA RIGHT SUPP		
B1	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B2	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B3	230	600	3-T16	-	3-T16	-	-	8 T @ 150 C/C	
B4	230	600	3-T12	-	3-T16	-	-	8 T @ 150 C/C	
B5	230	600	3-T16	-	3-T16	-	-	8 T @ 150 C/C	
B6	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B7,B11	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B8	230	600	3-T16	-	3-T16	-	-	8 T @ 150 C/C	
B9	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B10	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B12	230	600	3-T16	-	3-T16	-	-	8 T @ 150 C/C	
B13	230	600	3-T12	-	3-T16	-	-	8 T @ 150 C/C	
B14	230	600	3-T12	-	3-T16	-	-	8 T @ 150 C/C	
B15	230	600	3-T12	-	3-T16	-	-	8 T @ 150 C/C	
B16	230	600	3-T12	-	3-T16	-	-	8 T @ 150 C/C	
B17	230	600	3-T12	-	3-T16	-	-	8 T @ 150 C/C	
B18	230	600	3-T12	-	3-T16	-	-	8 T @ 150 C/C	
B19	230	600	3-T16	-	3-T16	-	-	8 T @ 150 C/C	
B20	230	600	3-T16	-	4-T20	-	-	8 T @ 150 C/C	
B21,B33	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B22	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B23,B24	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B25,B28,B30	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B26,B29,B31,B34 ,B35	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B27	230	600	3-T16	-	4-T20	-	-	8 T @ 150 C/C	
B32	230	600	3-T16	-	4-T20	-	-	8 T @ 150 C/C	
B36	230	600	3-T12	-	3-T12	-	-	8 T @ 150 C/C	
B37	230	600	3-T16	-	4-T20	-	-	8 T @ 150 C/C	



LAP/ SPLICE IN COLUMN



TYP. DETAIL OF BEAM
(FOR DEVELOPMENT LENGTH)



TYP. DETAIL OF RING

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. THIS DRAWING & DESIGN IS BASED ON THE FOLLOWING CODES OF PRACTICE & THE RELEVANT CODES REFERRED TO THEREIN

1. I.S. 456:20002. I.S. 875 (ALL PARTS):1987

3. I.S. 1893:20024. I.S. 4326:1994
3. AS THE HEIGHT OF STRUCTURE IS LESS THAN 40 M., WIND EFFECTS ARE NOT CONSIDERED IN THE DESIGN. THE RESPONSIBILITY OF ADHERING TO DRAWING ON SITE WILL BE OF CONTRACTOR.
4. SBC IS 10 T / SQ. M. THE SAME IS TO BE VERIFIED / ASCERTAINED BY SOIL INVESTIGATION AGENCY PRIOR TO FOUNDATION CONCRETE WORKS.
5. FOR DIMENSIONS, LEVEL AND GENERAL ARRANGEMENT REFER ARCH. DRWG. THE FLOOR HEIGHT HAS BEEN CONSIDERED AS 2.9M.
6. DO NOT SCALE THE DRAWING, ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED UNLESS NOTED OTHERWISE ALL REINFORCEMENT SHALL BE OF T.M.T OF GRADE Fe500 CONFIRMING TO INDIAN STANDARD. AS PER IS 456:2000, THE MINIMUM GRADE OF R//F CONCRETE FOR SEVERE CONDITIONS IS M30.
- REINFORCEMENT COVER SHALL BE AS FOLLOWS:

1. FOOTING - 50 MM AT BOTTOM AND 40MM ON TOP

2. COLUMN - 40 MM
- WATERPROOF TREATMENT SHALL BE PROVIDED TO WALL OF SEPTIC TANK AND OUTER FACE OF COLUMN WHICH IS EMBEDDED IN SEPTIC TANK. ADMIXTURE KP 200 (@2KG/CUM) TO BE MIXED WITH CONCRETE FOR UG SEPTIC AND WATER TANKS.
- AT BEAM AND COLUMN JUNCTION, BEAM BARS IF IN CONFLICT WITH COLUMN BAR SHALL BE GRADUALLY BENT AND PLACED CLEAR OF COLUMN BARS. BEAM BARS SHOULD BE INSIDE COLUMN BARS. UNDER NO CIRCUMSTANCES COLUMN VERTICAL BARS SHALL BE BENT TO ACCOMMODATE BEAM BARS. NOT MORE THAN 50% OF BARS SHALL BE ULAPPED AT ANY SECTION LAP LENGTH ANY TYPE OF OPENING FOR PLUMBING, DRAWING OR ELECTRICAL IS NOT PERMITTED IN R.C.C. BEAMS AND COLUMN AFTER CASTING.
- PREDETERMINED HOLES IN THE FORM OF PIPES (DIA < 25 MM) MAY, HOWEVER BE PROVIDED.
- STRUCTURE IS DESIGNED FOR U.G. TANK +GROUND FLOOR + FIRST FLOOR ONLY.

Deepaka Jiwani
DEEPAKA JIWANI
Structural Engineer
MCGM License No. STR:840013193

SEWER LINE



JIWANI CONSTRUMA PVT.LTD.
Adding Life to Structures

Jiwani Construmate Pvt Ltd.
(Architectural & Structural consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

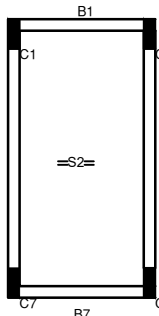
PROJECT

CLIENT: BMC

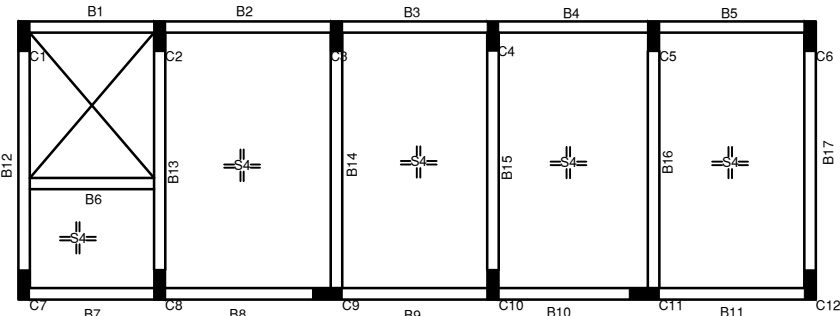
DRG. TITLE : RCC DETAILS AT FIRST LEVEL

DESIGN BY:

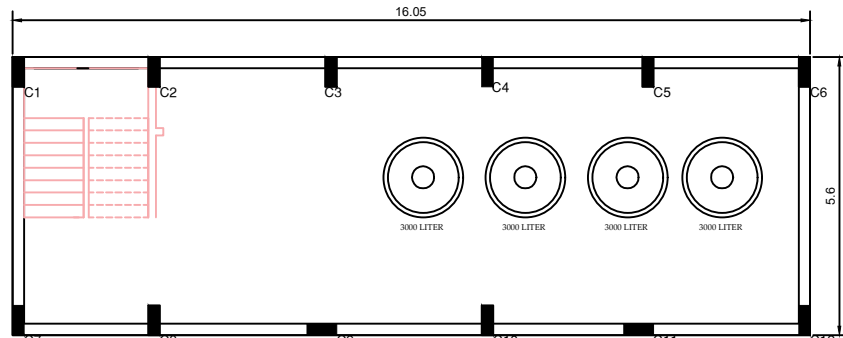
DATE:



HEAD ROOM LEVEL PLAN
SCALE 1:100



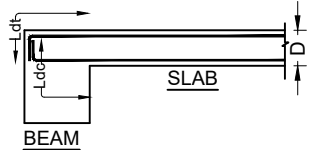
TERRACE LEVEL PLAN
SCALE 1:100



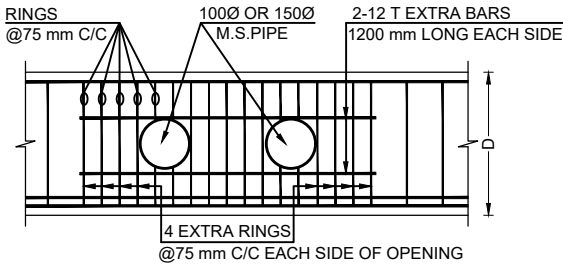
AREA LINE DIAGRAM

SCHEDULE OF SLABS

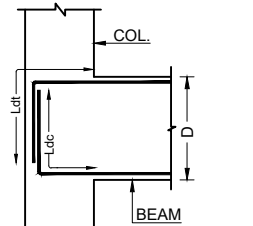
SLAB NO.	SIZE (OVERALL) IN MM	MID SPAN MAIN BARS		TOP BARS THROUGH-OUT	EXTRA TOP BARS UPTO 0.3xL FROM FACE OF BEAM	DISTRIBUTION BARS C/C	REMARKS
		BOTTOM BARS	BOTTOM BENT-UP @ 0.25xL FROM CENTER OF SUPPORT				
S1	150 THK.	10 T @150 MESH		10 T @150 MESH			SUNK SLAB
S2	150 THK.	10 T @150	ALT.@0.25xL		12 T @300	8 T @200	ONE WAY SLAB
S3	150 THK.	10 T @150	ALT.@0.25xL		12 T @300	10 T @150	TWO WAY SLAB
S4	150 THK.	10 T @150	-	10 T @150	-	10 T @150	DOUBLE MESH
ST	150 THK.	10 T @150	ALT.@0.25xL		10 T @300	8 T @200	WAIST SLAB



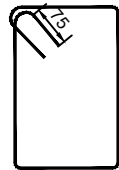
TYP. DETAIL OF SLAB
(FOR DEVELOPMENT LENGTH)



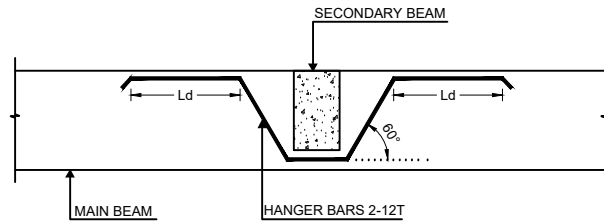
TYPICAL DETAIL FOR SLEEVE IN BEAM



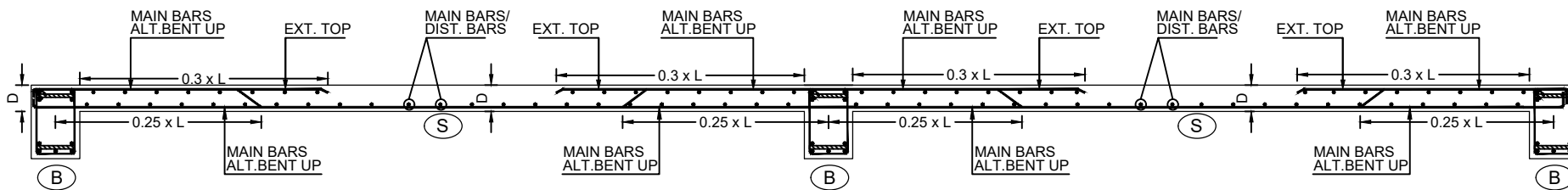
TYP. DETAIL OF BEAM
(FOR DEVELOPMENT LENGTH)



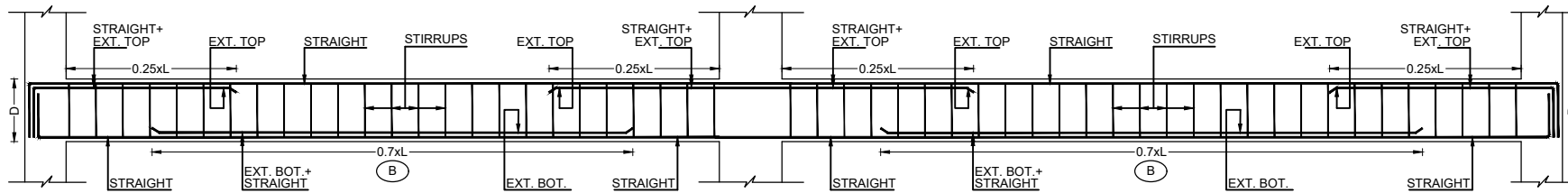
TYP. DETAIL OF RING



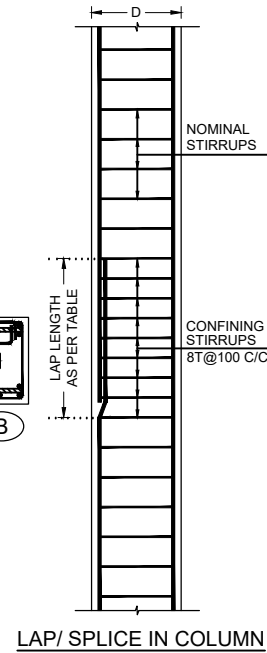
HANGER BAR AT THE JUNCTION OF
MAIN BEAM AND SECONDARY BEAM



TYP. SLAB SECTION



TYP. BEAM SECTION



NOTES:-

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
 - THIS DRAWING & DESIGN IS BASED ON THE FOLLOWING CODES OF PRACTICE & THE RELEVANT CODES REFERRED TO THEREIN
 - I.S. 456:2000
 - I.S. 875 (ALL PARTS):1987
 - I.S. 1893:2002
 - I.S. 4326:1994
 - AS THE HEIGHT OF STRUCTURE IS LESS THAN 40 M., WIND EFFECTS ARE NOT CONSIDERED IN THE DESIGN.
THE RESPONSIBILITY OF ADHERING TO DRAWING ON SITE WILL BE OF CONTRACTOR.
 - SBC IS 10 T / SQ. M. THE SAME IS TO BE VERIFIED / ASCERTAINED BY SOIL INVESTIGATION AGENCY PRIOR TO FOUNDATION CONCRETE WORKS.
 - FOR DIMENSIONS, LEVEL AND GENERAL ARRANGEMENT REFER ARCH. DRWG.
THE FLOOR HEIGHT HAS BEEN CONSIDERED AS 2.9M.
 - DO NOT SCALE THE DRAWING, ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWD UNLESS NOTED OTHERWISE ALL REINFORCEMENT SHALL BE OF T.M.T OF GRADE Fe500 CONFIRMING TO INDIAN STANDARD.
AS PER IS 456:2000, THE MINIMUM GRADE OF R/F CONCRETE FOR SEVERE CONDITIONS IS M30.
REINFORCEMENT COVER SHALL BE AS FOLLOWS:
 - FOOTING - 50 MM AT BOTTOM AND 40MM ON TOP
 - COLUMN - 40 MM
- WATERPROOF TREATMENT SHALL BE PROVIDED TO WALL OF SEPTIC TANK AND OUTER FACE OF COLUMN WHICH IS EMBEDDED IN SEPTIC TANK. ADMIXTURE KP 200 (@2KG/CUM) TO BE MIXED WITH CONCRETE FOR UG SEPTIC AND WATER TANKS.
- AT BEAM AND COLUMN JUNCTION, BEAM BARS IF IN CONFLICT WITH COLUMN BAR SHALL BE GRADUALLY BENT AND PLACED CLEAR OF COLUMN BARS. BEAM BARS SHOULD BE INSIDE COLUMN BARS. UNDER NO CIRCUMSTANCES COLUMN VERTICAL BARS SHALL BE BENT TO ACCOMMODATE BEAM BARS. NOT MORE THAN 50% OF BARS SHALL BE ULAPPED AT ANY SECTION LAP LENGTH ANY TYPE OF OPENING FOR PLUMBING, DRAWING OR ELECTRICAL IS NOT PERMITTED IN R.C.C. BEAMS AND COLUMN AFTER CASTING.
- PREDETERMINED HOLES IN THE FORM OF PIPES (DIA < 25 MM) MAY, HOWEVER BE PROVIDED.
- STRUCTURE IS DESIGNED FOR U.G. TANK +GROUND FLOOR + FIRST FLOOR ONLY.

Deepaka Jiwani
DEEPAKA JIWANI
Structural Engineer
MCGM License No. STR:840013193

SEWER LINE



JIWANI CONSTRUMA PVT.LTD.

Adding Life to Structures

Jiwani Construma Pvt Ltd.
(Architectural & Structural consultants)

7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

PROJECT

CLIENT: BMC

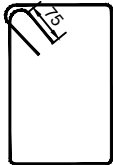
DRG. TITLE : RCC DETAILS AT TERRACE LEVEL

DESIGN BY:

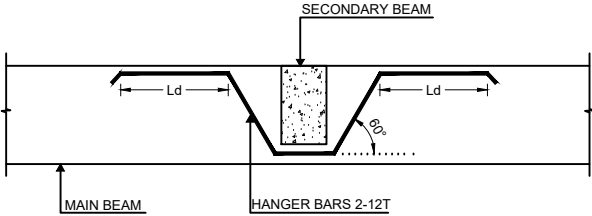
DATE:

TERRACE FLOOR BEAM SCHEDULE (M30:Fe500)

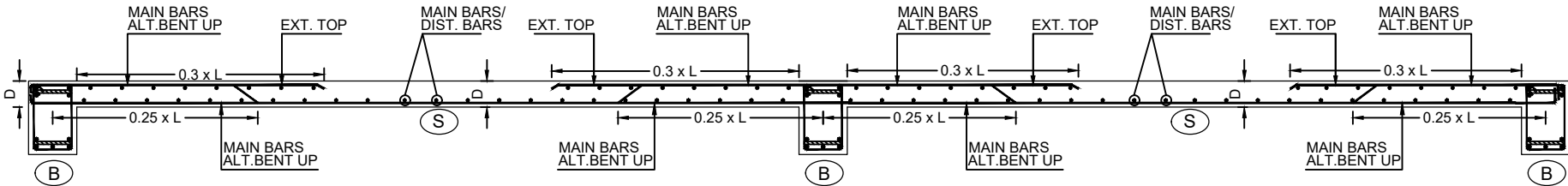
BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS	REMARKS
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT		
B1	230	600	3-T12	3-T12	3-T12	3-T12	3-T12	3-T12	8 T @ 150 C/C	
B2	230	600	3-T12	3-T12	3-T12	3-T12	3-T12	3-T12	8 T @ 150 C/C	
B3	230	600	3-T12	3-T12	3-T12	3-T12	3-T12	3-T16	8 T @ 150 C/C	
B4	230	600	3-T12	3-T12	3-T12	3-T16	3-T16	3-T16	8 T @ 150 C/C	
B5	230	600	3-T16	3-T16	3-T16	3-T16	3-T16	3-T16	8 T @ 150 C/C	
B6	230	600	3-T12	3-T12	3-T12	3-T12	3-T12	3-T12	8 T @ 150 C/C	
B7	230	600	3-T12	3-T12	3-T12	3-T12	3-T12	3-T12	8 T @ 150 C/C	
B8	230	600	3-T12	3-T12	3-T12	3-T12	3-T12	3-T12	8 T @ 150 C/C	
B9	230	600	3-T12	3-T12	3-T12	3-T12	3-T12	3-T16	8 T @ 150 C/C	
B10	230	600	3-T12	3-T12	3-T12	3-T16	3-T16	3-T16	8 T @ 150 C/C	
B11	230	600	3-T16	3-T16	3-T16	3-T16	3-T16	3-T16	8 T @ 150 C/C	
B12	230	600	3-T16	3-T16 + 2-T12	3-T16	3-T16 + 2-T16	3-T16	3-T16 + 3-T16	8 T @ 150 C/C	
B13	230	600	3-T16	3-T16 + 3-T16	3-T16	3-T16 + 3-T16	3-T16	3-T16 + 3-T16	8 T @ 150 C/C	
B14	230	600	3-T20	3-T20 + 3-T16	3-T20	3-T20 + 3-T16	3-T20	3-T20 + 3-T16	8 T @ 150 C/C	
B15	230	600	3-T20	2-T25 + 2-T16	3-T20	3-T20 + 3-T16	3-T20	3-T20 + 3-T16	8 T @ 150 C/C	
B16	230	600	3-T20	2-T25 + 2-T16	3-T20	3-T20 + 3-T16	3-T20	3-T20 + 3-T16	8 T @ 150 C/C	
B17	230	600	3-T20	2-T25 + 2-T16	3-T20	3-T20 + 3-T16	3-T20	3-T20 + 3-T16	8 T @ 150 C/C	



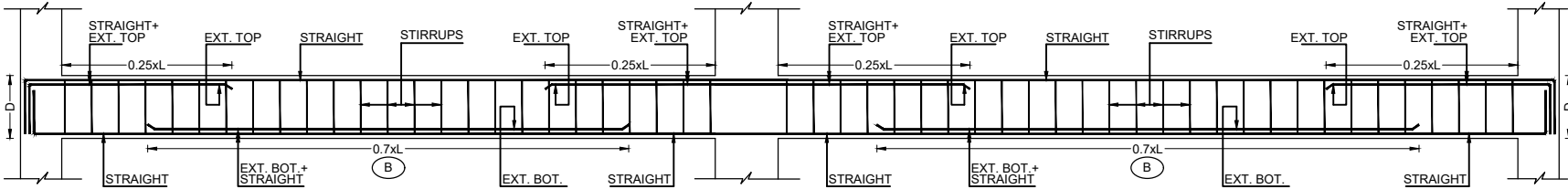
TYP. DETAIL OF RING



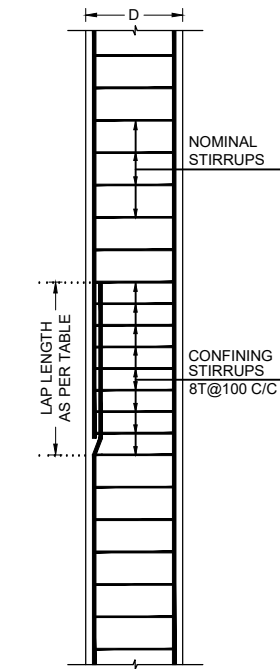
HANGER BAR AT THE JUNCTION OF MAIN BEAM AND SECONDERY BEAM



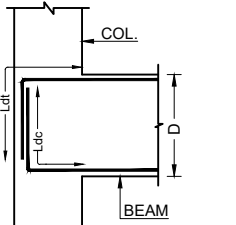
TYP. SLAB SECTION



TYP. BEAM SECTION



LAP/ SPLICE IN COLUMN



TYP. DETAIL OF BEAM (FOR DEVELOPMENT LENGTH)

NOTES:-

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
- THIS DRAWING & DESIGN IS BASED ON THE FOLLOWING CODES OF PRACTICE & THE RELEVANT CODES REFERRED TO THEREIN
 - I.S. 456:2000
 - I.S. 875 (ALL PARTS):1987
 - I.S. 1893:2002
 - I.S. 4326:1994
- AS THE HEIGHT OF STRUCTURE IS LESS THAN 40 M., WIND EFFECTS ARE NOT CONSIDERED IN THE DESIGN. THE RESPONSIBILITY OF ADHERING TO DRAWING ON SITE WILL BE OF CONTRACTOR.
- SBC IS 10 T / SQ. M. THE SAME IS TO BE VERIFIED / ASCERTAINED BY SOIL INVESTIGATION AGENCY PRIOR TO FOUNDATION CONCRETE WORKS.
- FOR DIMENSIONS, LEVEL AND GENERAL ARRANGEMENT REFER ARCH. DRWG. THE FLOOR HEIGHT HAS BEEN CONSIDERED AS 2.9M.
- DO NOT SCALE THE DRAWING, ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWD UNLESS NOTED OTHERWISE ALL REINFORCEMENT SHALL BE OF T.M.T OF GRADE Fe500 CONFIRMING TO INDIAN STANDARD. AS PER IS 456:2000, THE MINIMUM GRADE OF R/F CONCRETE FOR SEVERE CONDITIONS IS M30. REINFORCEMENT COVER SHALL BE AS FOLLOWS:
 - FOOTING - 50 MM AT BOTTOM AND 40MM ON TOP
 - COLUMN - 40 MMWATERPROOF TREATMENT SHALL BE PROVIDED TO WALL OF SEPTIC TANK AND OUTER FACE OF COLUMN WHICH IS EMBEDDED IN SEPTIC TANK. ADMIXTURE KP 200 (@2KG/CUM) TO BE MIXED WITH CONCRETE FOR UG SEPTIC AND WATER TANKS. AT BEAM AND COLUMN JUNCTION, BEAM BARS IF IN CONFLICT WITH COLUMN BAR SHALL BE GRADUALLY BENT AND PLACED CLEAR OF COLUMN BARS. BEAM BARS SHOULD BE INSIDE COLUMN BARS. UNDER NO CIRCUMSTANCES COLUMN VERTICAL BARS SHALL BE BENT TO ACCOMMODATE BEAM BARS. NOT MORE THAN 50% OF BARS SHALL BE ULAPPED AT ANY SECTION LAP LENGTH ANY TYPE OF OPENING FOR PLUMBING, DRAWING OR ELECTRICAL IS NOT PERMITTED IN R.C.C. BEAMS AND COLUMN AFTER CASTING. PREDETERMINED HOLES IN THE FORM OF PIPES (DIA < 25 MM) MAY, HOWEVER BE PROVIDED. STRUCTURE IS DESIGNED FOR U.G. TANK +GROUND FLOOR + FIRST FLOOR ONLY.

Deepaka Jiواني
DEEPAKA JIWANI
Structural Engineer
MCGM License No. STR:840013193

SEWER LINE



JIWANI CONSTRUMA PVT.LTD.

Adding Life to Structures

Jiwani Construmate Pvt Ltd.
(Architectural & Structural consultants)
7, Narayan Niwas, 2nd Khetwadi Lane, Mumbai - 400 004
e: info@jiwanigroup.in , t: 022 23861906

PROJECT

CLIENT: BMC

DRG. TITLE : RCC DETAILS AT TERRACE LEVEL

DESIGN BY:

DATE: