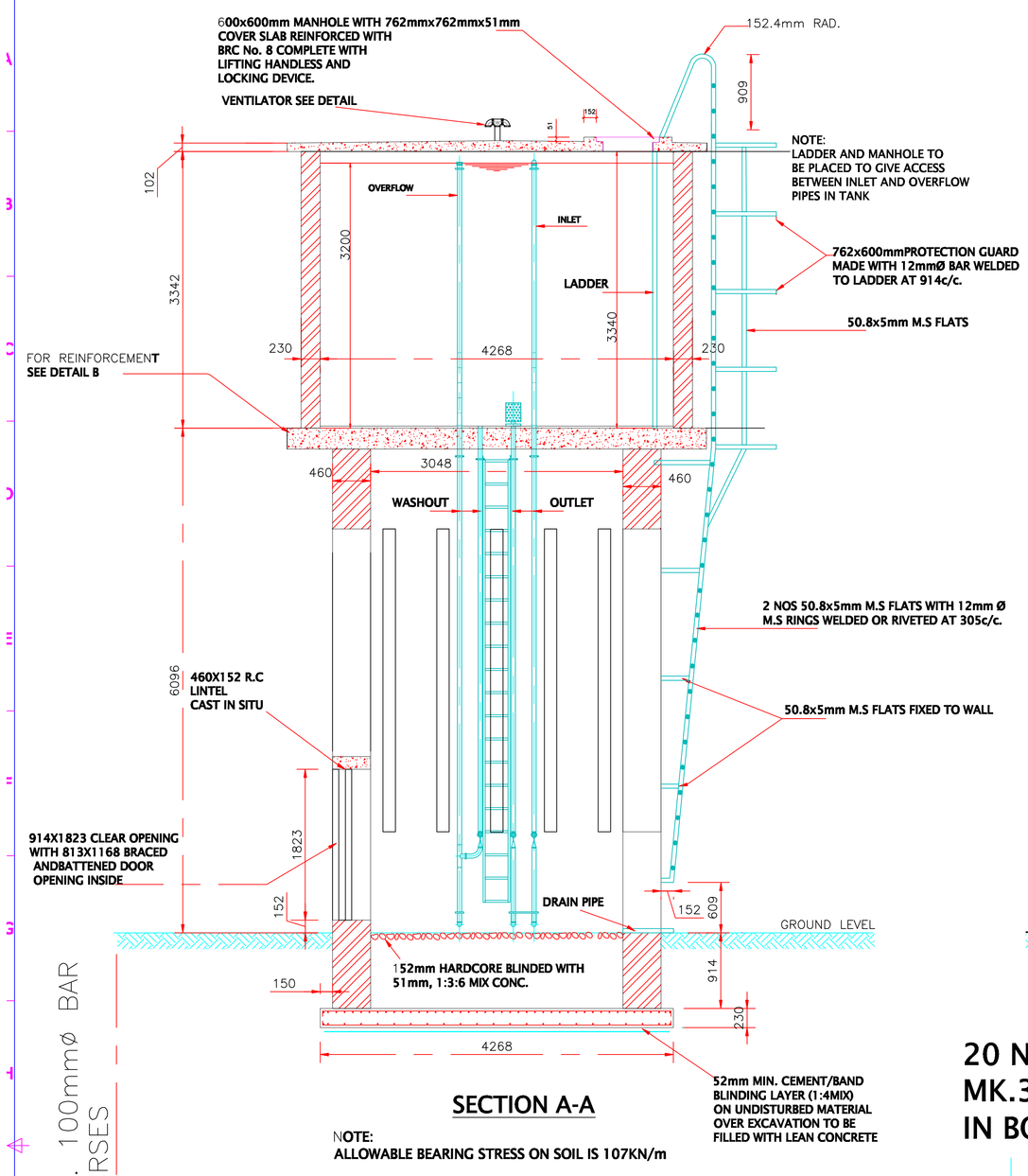
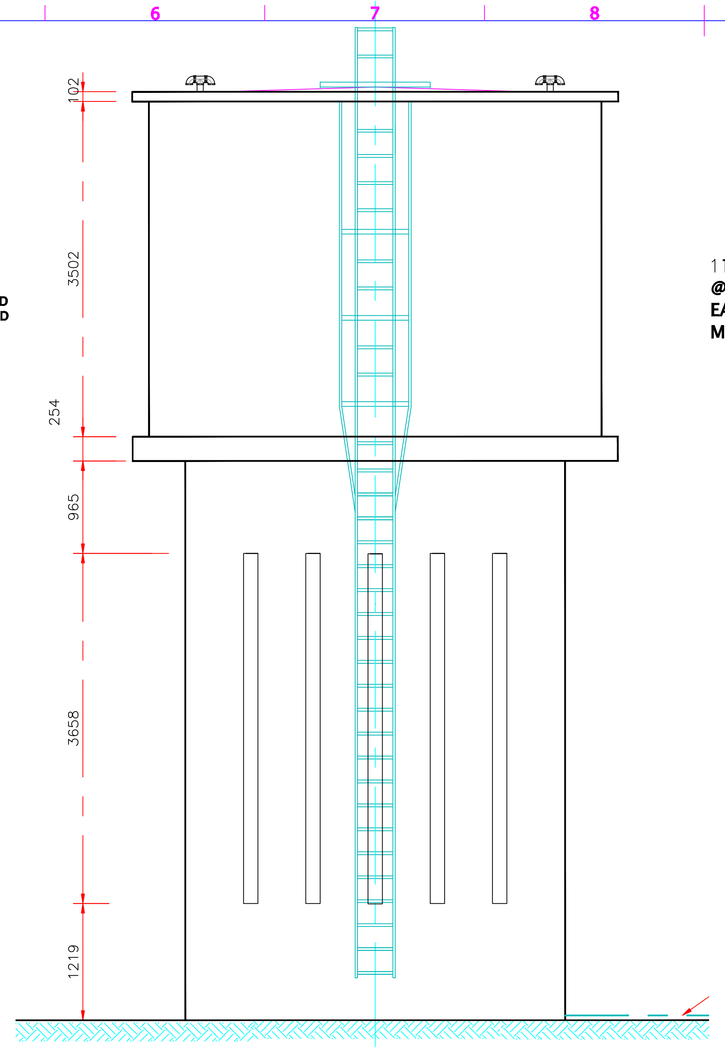
RevNo	Revision note	Date	Signature	Checked

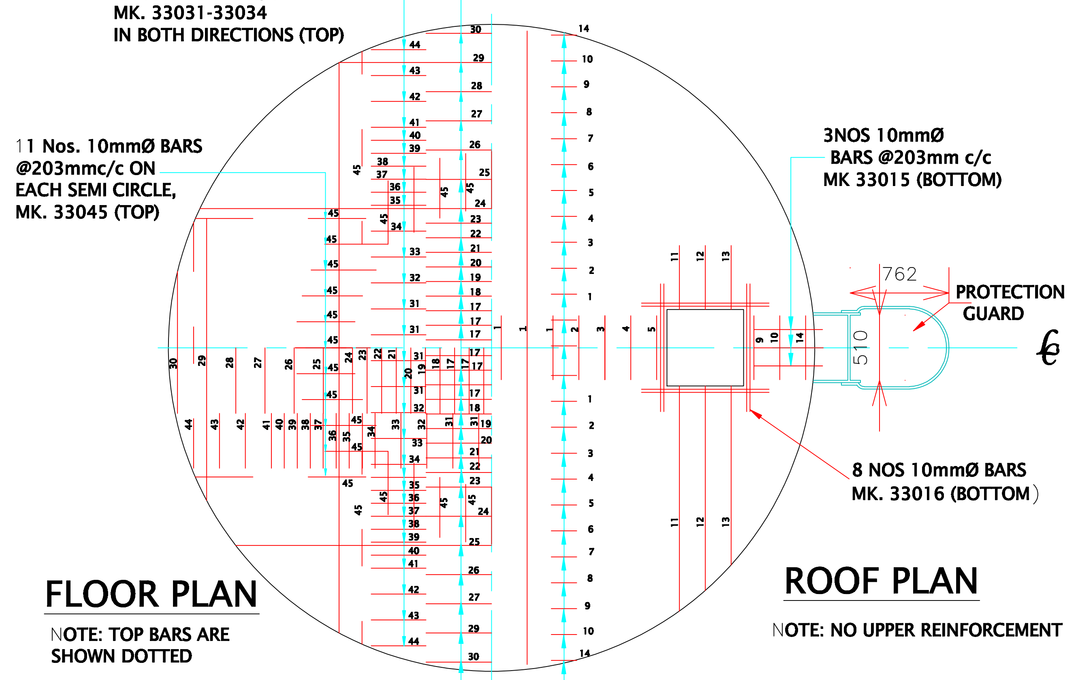


SECTION A-A

NOTE:
ALLOWABLE BEARING STRESS ON SOIL IS 107KN/m



FRONT ELEVATION



FLOOR PLAN

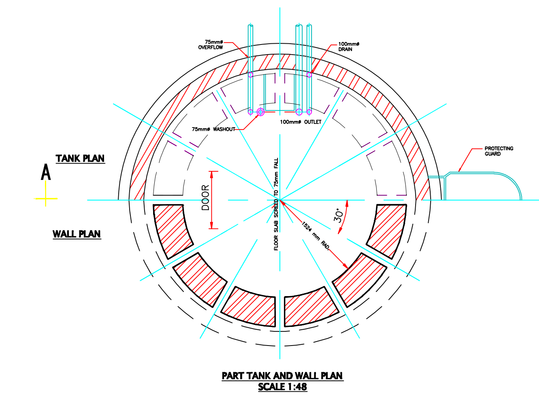
NOTE: TOP BARS ARE SHOWN DOTTED

ROOF PLAN

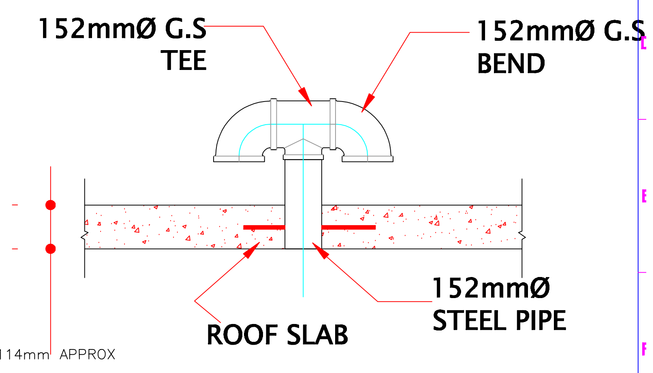
NOTE: NO UPPER REINFORCEMENT

DETAIL OF FLOOR & ROOF REINFORCEMENT
SCALE 1:24

NOTE: FIGURES SHOWN ON THE BARS ARE LAST TWO DIGTS OF MARK NO SHOWN IN BENDING SCHEDULE .



PART TANK AND WALL PLAN
SCALE 1:48



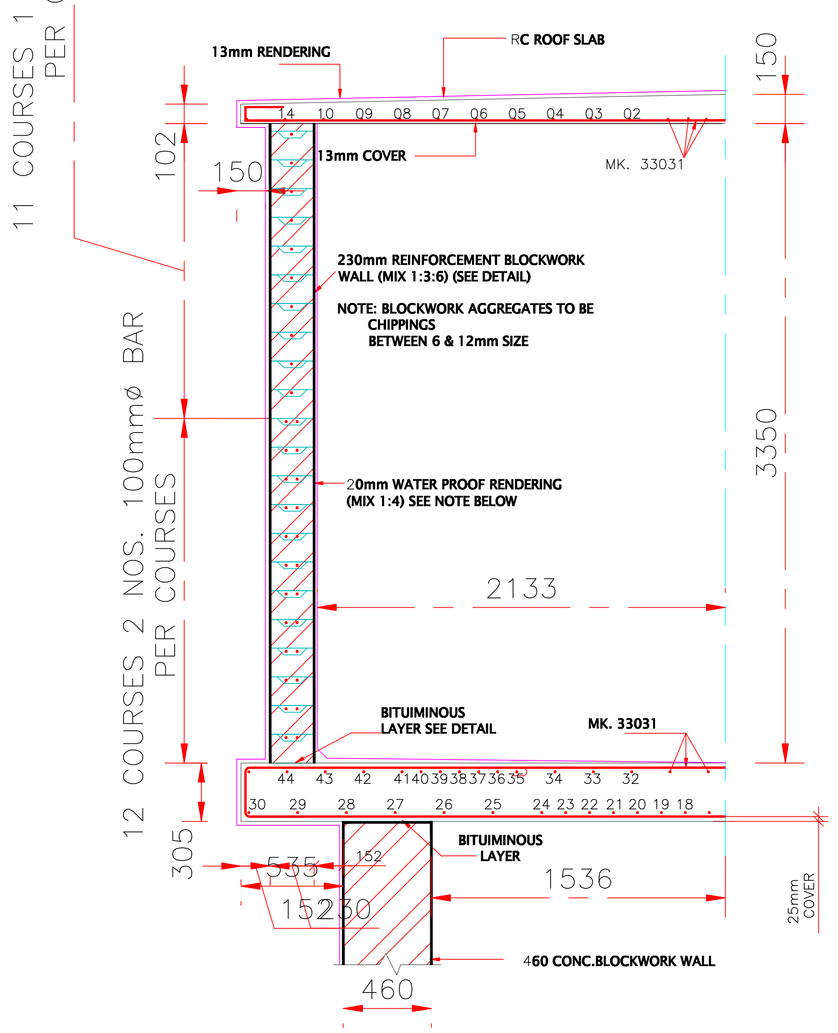
SECTIONAL VIEW

DETAIL OF VENTILATOR TWO NOS
SCALE 1:16

NOTES:
1. CONCRETE MIX UNLESS OTHERWISE SPECIFIED THE CONCRETE SHALL BE A 1:2:4 MIX AND SHALL GIVE MINIMUM WORK CUBE STRENGTH OF 141Kg/cm² AT 7DAYS AND 211Kg/cm² AT 28 DAYS
2. AGGREGATES: COARSE AND FINE TO BE CLEAN AND DEVOID OF FORBIGN MATTER AND COMPLY WITH B.S 882
3. ALL STEEL MUST BE BENT COLD AND COMPLY WITH B.S 755
4. STEEL PLACING NO. CONCRETING SHALL BE DONE UNTIL THE PLACING OF STEEL REINFORCEMENT HAS BEEN INSPECTED AND APPROVED BY A SITE ENGINEER.
5. CONCERET COVER: UNLESS OTHERWISE SPECIFIED THE MIN COVER OVER MAIN BARS BE 25mm
6. CONSTRUCTION BREAKS AND SHUTTERING STRIPPING TIME TO BE DIRECTED AND APPROVED BY SITE ENGINEER.
7. CURRING THE EXPOSED SURFACE OF THE CONC. SHALL BE KEPT MOIST FOR A MINIMUM PERIOD OF 7 DAYS AFTER PLACING.
8. ANY DISAGREEMENT SHOULD BE IMMEDIATELY NOTIFIED TO THIS OFFICE BEFORE PLACING
9. WATER PROOFING(INTERNALLY): PROVIDE 20MM THICK RENDERING ADDED WITH SEALOCRETE WATER PROOFING COMPUND AS PER SEALOCRETE HAND BOOK
10. PERMISSIBLE BEARING CAPACITY FOR THIS TANK ON SOIL IS 1.094 Kg/cm²
11. THIS TANK HAVE A HIGHER UP TO SOFT HIGH ON CONDITION THAT THE ALLOWABLE BEARING ON SOIL IS 1.641Kg/cm²

11 COURSES 1 NO. 100mmØ BAR PER COURSES

12 COURSES 2 NOS. 100mmØ BAR PER COURSES

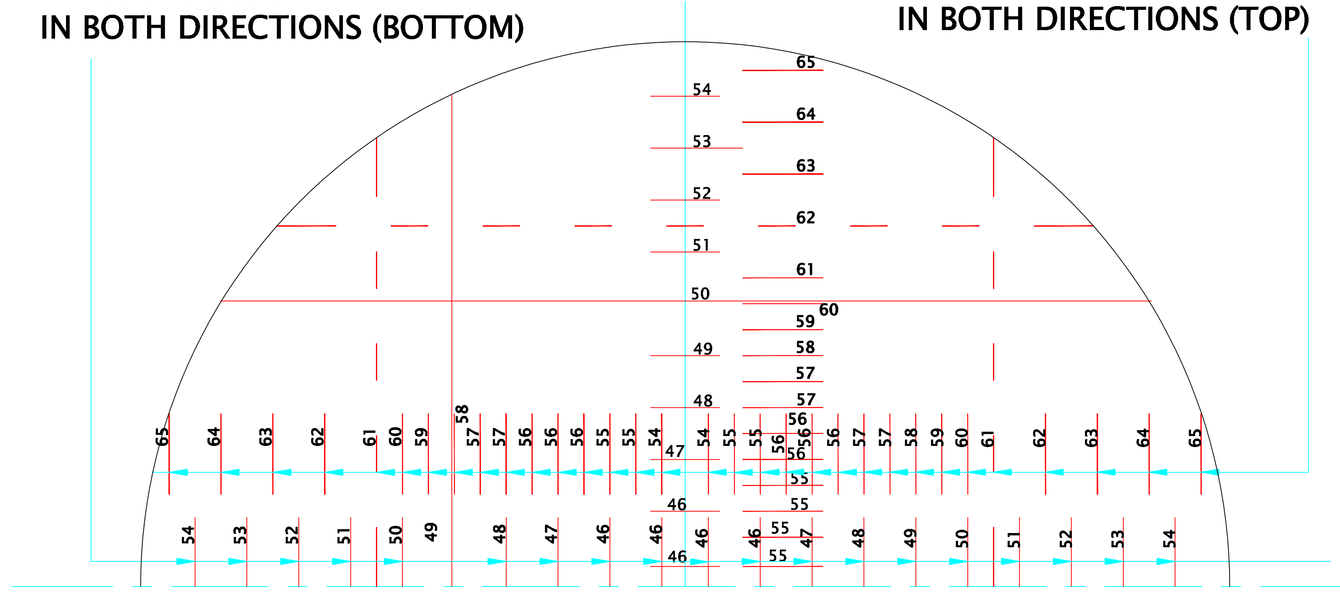


HALF SECTIONAL DETAIL OF TANK

SCALE 1:16

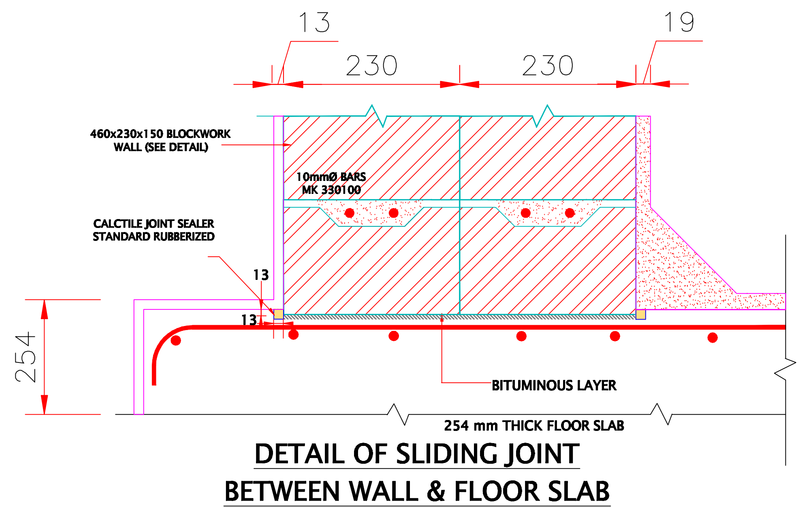
20 NOS 10mmØ BARS @203mm c/c MK.33046-33054 IN BOTH DIRECTIONS (BOTTOM)

32NOS 10mmØ BARS @203mm & 102mm c/c MK.33055-33065 IN BOTH DIRECTIONS (TOP)

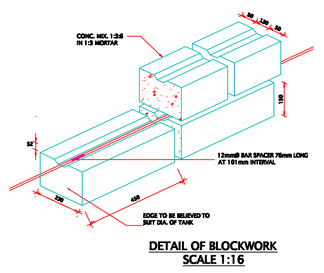


DETAIL OF FOUNDATION REINFORCEMENT
SCALE 1:32

NOTE: TOP BARS ARE SHOWN DOTTED



DETAIL OF SLIDING JOINT BETWEEN WALL & FLOOR SLAB
SCALE 1:4



DETAIL OF BLOCKWORK
SCALE 1:16

BAR BENDING SCHEDULE

MK NO	LOCATION	CONFIGURATION	A(mm)	B(mm)	DIA (mm)	LENGTH (mm)	REQ NO	TOTAL LENGTH (mm)	Kg/m	Kg	MK NO	LOCATION	CONFIGURATION	A(mm)	B(mm)	DIA (mm)	LENGTH (mm)	REQ NO	TOTAL LENGTH (mm)	Kg/m	Kg
3301	Inroof (Bottom)		4953	610	10	6300	6	37800	0.6	23.4	33035	Infloor (Top)	Same as Mk 33031	4470		10	5080	4	20320	0.6	12.6
3302		Same as MK 3301	4826	610	10	6173	4	24692	0.6	15.3	33036			4369		10	4978	4	19914	0.6	12.3
3303			4674	610	10	6021	4	24082	0.6	14.9	33037			4267		10	4877	4	19507	0.6	12.1
3304			4521	610	10	5868	4	23473	0.6	14.6	33038			4115		10	4572	4	18288	0.6	11.3
3305			4470	610	10	5817	4	23270	0.6	14.4	33039			3962		10	4572	4	18288	0.6	11.3
6033			5613	16	1	696	3	18802	6.0	12.9	33040			3810		10	244	4	17678	0.6	11.0
3307			3785	610	10	5132	6	30790	0.6	19.1	14033			3607		1	6124	4	16856	0.6	10.5
3308			8733	16	1	5274	3	14176	0.6	8.8	24033			3124		10	3785	4	15138	0.6	9.4
3309			2921	610	1	4268	4	27071	6.0	10.6	33043			2591		10	3200	4	12802	6.0	7.9
1033			2261	610	10	3608	4	14430	0.6	9.0	33044			1727		10	7332	4	9347	6.0	8.5
33011			6761	610	10	3023	2	6047	0.6	3.7	33045			1524		10	3491	44	85496	0.6	53.0
33012			1600	610	10	2947	2	5894	0.6	3.7	64033	Infounds (Bottom)		4191		1	574	8	37998	6.0	23.6
31033			1295	610	1	2642	2	5285	6.0	9.3	33047		Same as Mk33046	9804		10	4775	4	10191	6.0	11.8
41033			1168	305	1	5091	4	7622	0.6	4.7	33048			3962		10	4267	4	17069	0.6	10.6
33015		Straight	559		10	955	3	6761	0.6	1.0	33049			5873		10	5182	4	62702	0.6	9.2
33016	In manhole		1067		10	1676	8	13411	0.6	8.3	5033			1853		10	4140	4	16561	6.0	10.3
44017	Infloor (Bottom)		4953		12	5258	21	63094	0.9	56.2	15033			7723		10	5383	4	15342	6.0	9.5
44018			4928		21	2325	4	20930	0.9	18.6	33052			2896		10	3505	4	14021	0.6	7.8
44019			7784		12	2815	4	20726	9.0	18.4	33053			8832		10	2946	4	11786	0.6	3.7
44020			4901		12	5015	4	20422	0.9	18.2	33054			6761		10	5322	4	1498	0.6	5.5
12044			4274		12	5029	4	71102	9.0	17.9	33055	Infounds (Top)		4115		1	4934	16	70307	6.0	43.6
44022			4674		12	4978	4	19914	0.9	17.7	65033		Same as Mk 33055	4064		1	4293	8	34341	0.6	21.3
32044			4572		12	4877	4	19507	9.0	17.4	33057			2693		10	4191	8	33528	6.0	20.8
44024			4496		12	4801	4	19202	9.0	17.1	33058			3851		10	4089	4	16358	0.6	1.0
52044			4216		12	4521	4	58081	0.9	16.1	33059			4373		1	3962	4	15850	6.0	9.8
44026			3886		12	4191	4	16764	9.0	14.9	33060			3607		10	5383	4	15342	6.0	9.5
72044			5053		12	3810	4	15240	0.9	6.3	33061			3505		10	6883	4	54551	0.6	9.6
82044			3203		12	3327	4	1331	0.9	11.8	33062			3200		10	3556	4	42241	6.0	8.8
92044			6822		21	2591	4	10363	0.9	9.2	36033			2743		10	2972	4	78811	0.6	7.4
44030			2438		12	1219	4	4877	0.9	4.3	33064			2286		1	2667	4	10668	6.0	6.6
33031	In Floor (Top)	Same as MK 33031	4953		10	5563	8	10544	6.0	6.7	33065			1295		10	1600	4	1046	6.0	0.4
33032			4877		10	5486	4	64912	0.6	13.6	33066	In wall	Straight						499872	0.6	309.9
33033			1914		10	5410	4	21641	0.6	13.4											
43033			4572		10	5258		21031	0.6	13.0											

Total 10mm? bars = 1524 =945Kg ,Total 12mm?bars =283 -175.2 Kg. Total weight = 1120Kg =1.12 Tons

Itemref	Quantity	Title/Name, designation, material, dimension etc			Article No./Reference
Designed by	Checked by	Approved by - date	Filename	Date 14/03/2020	Scale
MINISTRY OF WATER			90m3 R.C CIRCULAR TANK ON 6m HIGH RISER		
			S/MO/826	Edition	Sheet 1/?