BAR BENDING SCHEDULE

MEMBER	BAR MARK	TYPE & SIZE	No. OF MEMBERS	No. IN EACH	TOTAL No.	LENGTH OF EACH BAR	SHAPE	TOTAL MY8	TOTAL MY10	TOTAL MY12	TOTAL MY16
FLOOR SLAB	1	Y10	1	2	2	6020	6020		12.04		
	2	Y10	1	4	4	6000	6000		24.0		
	3	Y10	1	4	4	5940	5940		23.76		
	4	Y10	1	4	4	5830	5830		23.32		
	5	Y10	1	4	4	5680	5680		22.72		
	6	Y10	1	4	4	5480	5480		21.92		
	7	Y10	1	4	4	5230	5230		20.94		
	8	Y10	1	4	4	4920	4920		19.68		
	9	Y10	1	4	4	4530	4530		18.12		
	10	Y10	1	4	4	4040	4040		16.16		
	11	Y10	1	4	4	3410	3410		13.64		
	12	Y10	1	4	4	2560	2560		10.24		
	13	Y10	1	4	4	1020	1020		4.08		
	14	Y12	1	4	4	6020	6020			12.04	
	15	Y12	1	2	2	5940	5940			23.76	
	16	Y12	1	4	4	5680	5680			22.72	
	17	Y12	1	4	4	5230	5230			20.94	
	18	Y12	1	4	4	4530	4530			18.12	
	19	Y12	1	4	4	3410	3410			13.64	
	20	Y12	1	4	4	1020	1020			4.08	
	21	Y12	1	12	12	2500	2500			30.0	
SUMP	22	Y10	1	2	2	3400	900 700		6.8		
	23	Y10	1	5	5	1700	500 700 500		8.5		
	24	Y10	1	4	4	1900	500 900 500		7.6		
	25	Y10	1	10	10	1210	1210		12.1		
WALLS	26	Y8	1	3x40	120	6000	6000 2.6	720			
ROOF SLAB	27	Y10	1	4	4	5370	5370		21.48		
	28	Y10	1	8	8	5360	5360		42.88		
	29	Y10	1	8	8	5310	5310		42.48		
	30	Y10	1	8	8	5240	5240		41.92		
	31	Y10	1	8	8	5130	5130		41.40		
	32	Y10	1	8	8	4990	4990		39.92		
	33	Y10	1	8	8	4810	4810		38.48		
	34	Y10	1	8	8	4600	4600		36.80		
	35	Y10	1	8	8	4330	4330		34.64		
	36	Y10	1	8	8	4010	4010		32.08		
	37	Y10	1	8	8	3620	3620		28.96		
	38	Y10	1	8	8	3140	3140		25.12		
	39	Y10	1	8	8	2500	2500		20.00		
	40	Y10	1	8	8	1550	1550		12.4		
	41	Y16	1	4	4	1950	1950				7.8
TOTAL LENGTH								720	723.82	145.3	7.8
WEIGHT PER M								0.395	0.616	0.888	1.579
SUB-TOTAL WT								284.4	445.87	129.03	12.32
TOTAL WEIGHT											871.62

NOTES:-

CONCRETE:-
ALL CONCRETE CLASS 25/20 THE AGGREGATES SHOULD COMPLY WITH THE FOLLOWING STANDARDS:- BS 882, BS 877, BS 1047,BS 3797, BS4619.THE CHLORIDE CONTENT OF THE AGGREGATES SHOULD BE CAREFULLY CONSIDERED.MINIMUM CEMENT CONTENT TO BE 290KG/M³. IF THE CONCRETE I TO BE EXPOSED TO SULPHATE ATTACK,SULPHATE RESISTING OR SUPER SULPHATE CEMENT SHOULD BE USED.

ADMIXTURES:-
MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.

REINFORECEMENTS:-
SPECIFIC REFERENCE IS MADE TO BS 4449 AND BS4461. CONCRETE NORMALY SPECIFIED AS 40MM.

CONSTRUCTION JOINTS:-
ONLY WHEN SHOWN,OTHERWISE NOT PERMITTED.

BLINDING LAYER:-
75MM IS RECOMMENDED,GRADE 15,BUT IF THERE ARE INJURIOUS SOILS OR EXCESSIVE GROUND WATER,GRADE 25 IS RECOMMENDED. IT IS RECOMMENDED THAT THE LAST FEW INCHES OF EXCAVATION BE REMOVED BY HAND

1.THE MASONRY WALL SHALL NOT BE CONNECTED TO EITHER THE FLOOR SLAB OR THE ROOF SLAB. THE WALL SUPPORTING AREA OF THE FLOOR SLAB AS WELL AS THE TOP OF THE WALL SHALL BE TROWEL FINISHED AND PAINTED WITH THREE COATS OF BITUMINOUS PAINT.

2.THE MASONRY WALL SHALL BE BUILT OF GOOD QUALITY LOCAL BUILDING STONES OR CONCRETE BLOCKS. THE SIZE OF THE STONES WILL BE
WIDTH: NOT LESS 225MM
LENGTH: BETWEEN 200MM - 300MM
HEIGHT: + NOT LESS THAN 150MM
THE STONES SHALL BE SOAKED IN WATER FPR 24HRS: BEFORE BEING BUILT INTO THE WALL.PARTICULAR CARE MUST BE TAKEN TO FILL THE JOINTS WITH MOTAR.
MOTAR RATIO 1:3 (CEMENT TO SAND) ALL JOINTS TO BE ABOUT 20MM.

3. THE EXTERIOR SURFACE OF THE TANK SHALL RECEIVE ONE COAT OF CEMENT WASH.

4. THE INTERIOR SURFACE OF THE TANK SHALL BE PLASTERED. THICKNESS OF PLASTER 15MM WITH MOTAR ,MIX OF 1:2(CEMENT : SAND). TO OBTAIN A WATERPROOF PLASTERING,"PUDLO" CEMENT SHOULD BE ADDED.

CLIENT
National Environment Management Authority
P.O Box 67839–00200
Nairobi, KENYA

DESIGNED BY: M. Nderi
DRAWN BY: M.M.K.
CHECKED BY: M. Nderi
APPROVED BY: M>M>N

CONSULTANT

PROJECT: WATER HARVESTING TECHNOLOGIES IN KAJIADO AND NARO COUNTIES
DRG. TITLE: 50 M³ MASONRY STORAGE TANK BAR BENDING SCHEDULE & NOTES

DRG NO: MT/03
SHEET: 3 OF 3
SCALE: NTS