

ITEM	DESCRIPTION	DIAMETER (mm)	LENGTH (mm)	QUANTITY (No.)
I INLET AND OUTLET PIPEWORK FOR GICHONJO TANK				
1	HDPE/GI ADAPTOR(STUB END WITH STEEL FLANGE ADAPTOR)	110/100		2
2	ALL FLANGED STEEL PIPE	100	1000	3
3	ALL FLANGED GATE VALVE	100		2
4	FLANGED ADAPTER	100		4
5	90° FLANGED BEND	100		2
6	SINGLE FLANGED PIPE	100	3500	1
7	SINGLE FLANGED PIPE WITH CENTRAL PADDLE FLANGE	100	600	1
8	FLANGED BEAT EQUILIBRIUM FLOAT VALVE	100		1
9	FLANGED BELL MOUTH	100		1
10	DOUBLE FLANGED SHORT RADIUS BEND	100		1
11	BLIND FLANGE	80		1
11a	SINGLE FLANGED PIPE WITH PADDLE FLANGE 500mm FROM ONE END	100	3500	1
12	ALL FLANGED TEE	100x80		1
24	DOUBLE FLANGED CONCENTRIC TAPER	100x100		1
25	DOUBLE FLANGED GATE VALVE	100		1
26	SINGLE FLANGED PIPE	100	1000	1
27	HDPE/GI ADAPTOR	90/100		1
II OVERFLOW AND WASHOUT FITTINGS				
13	SINGLE FLANGED PIPE WITH PUDDLE FLANGE	100	400	2
14	90° DOUBLE FLANGED BEND	100		1
15	FLANGED ADAPTOR	100		1
16	SINGLE FLANGED PIPE	100	2500	1
17	45° DOUBLE FLANGED BEND	100		1
18	SINGLE FLANGED PIPE WITH BEVELED END	100	1500	1
19	SINGLE FLANGED PIPE WITH PADDLE FLANGE 450mm FROM PLAIN END	100	2100	1
20	ALL FLANGED GATE VALVE	100		1
21	90° DOUBLE FLANGED BEND	100		1
22	FLANGED ADAPTOR	100x90		1
23	HDPE PIPE	90	6000	4

ITEM	DESCRIPTION	DIAMETER (mm)	LENGTH (mm)	QUANTITY (No.)
I INLET AND OUTLET PIPEWORK FOR MBIRI TANK				
1	HDPE/GI ADAPTOR(STUB END WITH STEEL FLANGE ADAPTOR)	160/150		2
2	ALL FLANGED STEEL PIPE	150	1000	3
3	ALL FLANGED GATE VALVE	150		2
4	FLANGED ADAPTER	150		4
5	90° FLANGED BEND	150		2
6	SINGLE FLANGED PIPE	150	3500	1
7	SINGLE FLANGED PIPE WITH CENTRAL PADDLE FLANGE	150	600	1
8	FLANGED BEAT EQUILIBRIUM FLOAT VALVE	150		1
9	FLANGED BELL MOUTH	150		1
10	DOUBLE FLANGED SHORT RADIUS BEND	150		1
11	BLIND FLANGE	80		1
11a	SINGLE FLANGED PIPE WITH PADDLE FLANGE 500mm FROM ONE END	150	3500	1
12	ALL FLANGED TEE	150x80		1
24	DOUBLE FLANGED CONCENTRIC TAPER	150x100		1
25	DOUBLE FLANGED GATE VALVE	100		1
26	SINGLE FLANGED PIPE	100	1000	1
27	HDPE/GI ADAPTOR	110/100		1
II OVERFLOW AND WASHOUT FITTINGS				
13	SINGLE FLANGED PIPE WITH PUDDLE FLANGE	150	400	2
14	90° DOUBLE FLANGED BEND	150		1
15	FLANGED ADAPTOR	150		1
16	SINGLE FLANGED PIPE	150	2500	1
17	45° DOUBLE FLANGED BEND	150		1
18	SINGLE FLANGED PIPE WITH BEVELED END	150	1500	1
19	SINGLE FLANGED PIPE WITH PADDLE FLANGE 450mm FROM PLAIN END	150	2100	1
20	ALL FLANGED GATE VALVE	150		1
21	90° DOUBLE FLANGED BEND	150		1
22	FLANGED ADAPTOR	150x110		1
23	HDPE PIPE	110	6000	4

ITEM	DESCRIPTION	DIAMETER (mm)	LENGTH (mm)	QUANTITY (No.)
I INLET AND OUTLET PIPEWORK FOR KIAUMBUI TANK				
1	HDPE/GI ADAPTOR(STUB END WITH STEEL FLANGE ADAPTOR)	260/250		2
2	ALL FLANGED STEEL PIPE	250	1000	3
3	ALL FLANGED GATE VALVE	250		2
4	FLANGED ADAPTER	250		4
5	90° FLANGED BEND	250		2
6	SINGLE FLANGED PIPE	250	3500	1
7	SINGLE FLANGED PIPE WITH CENTRAL PADDLE FLANGE	250	600	1
8	FLANGED BEAT EQUILIBRIUM FLOAT VALVE	250		1
9	FLANGED BELL MOUTH	250		1
10	DOUBLE FLANGED SHORT RADIUS BEND	250		1
11	BLIND FLANGE	100		1
11a	SINGLE FLANGED PIPE WITH PADDLE FLANGE 500mm FROM ONE END	250	3500	1
12	ALL FLANGED TEE	250x80		1
24	DOUBLE FLANGED CONCENTRIC TAPER	250x200		1
25	DOUBLE FLANGED GATE VALVE	200		1
26	SINGLE FLANGED PIPE	200	1000	1
27	HDPE/GI ADAPTOR	200/200		1
II OVERFLOW AND WASHOUT FITTINGS				
13	SINGLE FLANGED PIPE WITH PUDDLE FLANGE	250	400	2
14	90° DOUBLE FLANGED BEND	250		1
15	FLANGED ADAPTOR	250		1
16	SINGLE FLANGED PIPE	250	2500	1
17	45° DOUBLE FLANGED BEND	250		1
18	SINGLE FLANGED PIPE WITH BEVELED END	250	1500	1
19	SINGLE FLANGED PIPE WITH PADDLE FLANGE 450mm FROM PLAIN END	250	2100	1
20	ALL FLANGED GATE VALVE	250		1
21	90° DOUBLE FLANGED BEND	250		1
22	FLANGED ADAPTOR	250x200		1
23	HDPE PIPE	200	6000	4

NOTES

- PROGRAMME, METHOD OF CONSTRUCTION AND SETTING OUT OF WORK TO BE APPROVED BY THE ENGINEER BEFORE COMMENCEMENT OF WORK
- DESIGN CRITERIA
 - DESIGN CODES B.S. 8007 & B.S. 8110 AND K.S. EAS 18-3
 - UNIFORM NON-COMPRESSIBLE FOUNDATION WITH MINIMUM BEARING CAPACITY 90kN/m²
- CONCRETE
 - CEMENT TO BE CEM 1 - 42.5 TO KES EAS 18-1 AND K.S. EAS 18-3
 - WATER IN CONCRETE TO B.S. 3148
 - CONCRETE CLASSES TO BE AS FOLLOWS:-
MASS CONCRETE FILL AND BLINDING MIX, CLASS 15/20.
REINFORCED CONCRETE CLASS 25/20.
MINIMUM COVER TO ALL REINFORCEMENT TO BE 40mm UNLESS AS SPECIFIED BELOW
 - FOR BUILDINGS:-
MEMBERS OF BUILDINGS:-
- SLABS - 20mm
- BEAMS - 25mm
- COLUMNS - 40mm
- FOUNDATIONS AND FOOTINGS - 50mm
IN A FULL HEIGHT POUR AS SOON AS POSSIBLE AFTER THE BASE HAS BEEN CONCRETED (2 TO 3 DAYS)
- REINFORCEMENT:
 - REINFORCEMENT TO BE HIGH YIELD SQUARE TWISTED BARS TO B.S. 4461
 - BENDING DIMENSIONS TO B.S. 4466
 - EXAMPLE: 16 T12 - 07-150 SIGNIFIES 16 No. HIGH AT 150mm CENTRE TO CENTRE SPACING
- JOINTS
 - THE POSITION AND NUMBER OF INTERMEDIATE AS SHOWN IN THE DRAWINGS BEFORE PLACING FRESH CONCRETE THE OLD SURFACE SHALL BE ROUGHENED AND ALL LAITANCE AND LOOSE MATERIAL REMOVED SURFACE DRY CONDITION HAVE 100mm KICKER UNLESS OTHERWISE SPECIFIED
 - THE UPVC WATER STOP SHALL BE 200mm WIDE UNLESS OTHERWISE SPECIFIED
 - JOINT FILLER TO B.S. 5292AND TO BE APPROVED BY THE ENGINEER

- 6. ABBREVIATIONS**
- T - TOP
 - B - BOTTOM
 - N.F. - NEAR FACE
 - F.F. - FAR FACE
 - E.F. - EACH FACE
 - E.W. - EACH WAY


LEGEND

- BF - BLANK FLANGE
- PF - PUDDLE FLANGE
- DN - NOMINAL DIAMETER
- C/C - CENTRE TO CENTRE
- PCC - PRECAST CONCRETE
- RC - REINFORCED CONCRETE
- MS - MILD STEEL
- FC - FLEXIBLE COUPLING
- TWL - TOP WATER LEVEL
- PCC/STEEL - PRE-CAST CONCRETE/STEEL PIPE COUPLING

FOR CONSTRUCTION

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

CLIENT




TANA WATER WORKS DEVELOPMENT AGENCY
P. O. BOX 1292-10100
NYERI

PROJECT

NGARIAMA NJUKIINI WATER PROJECT

Civil/Structural Engineers



TANA WATER WORKS DEVELOPMENT AGENCY
P. O. BOX 1292-10100
NYERI

Drawing Title
NGARIAMA NJUKIINI WATER PROJECT
TANK REHABILITATION
TANK DETAIL SCHEDULE (SHEET 2 OF 2)

Designed by DWN	Drawn by EWN
Checked by JMM	Approved by
Scale AS SHOWN (A1)	Date MAY, 2022
Job No. 1	ACAD File: