



MATERIAL LIST			
LINE No. 0 OGDK76-BR003			
SERVICE: BR - CONC. WASTE BRINE (X5 SPECIFICATION)			
ITEM	SIZE	QTY	DESCRIPTION
1	180 O.D.	0.9 M	PIPE, HDPE PE 100 PN6 SDR26
2	180 O.D.	2	TEE, EQUAL MOULDED HDPE PE 100 PN6 SDR26
3	180X140	1	REDUCER, ECC. HDPE PE 100 PN6 SDR26
4	180X1"	2	CLAMP SADDLE, HDPE PE100 PN16 THRD to 1" BSP
5	180 O.D.	1	ELBOW, 90 MOULDED BEND HDPE PE 100 PN6 SDR26
6	140X110	1	REDUCER, ECC. HDPE PE 100 PN6 SDR26
7	110X90	1	REDUCER, ECC. HDPE PE 100 PN6 SDR26
8	1"	1	NIPPLE, BSP, 304L ST.ST. TBE (60 MM LG)
9	150 NB	7	FLG, BACKING RING SABS 1123 T1000 M.S. GALV.
10	180 O.D.	7	STUB END, HDPE PE 100 PN6 SDR26
11	90 O.D.	1	STUB END, HDPE PE 100 PN6 SDR26
12	80 NB	1	FLG, BACKING RING SABS 1123 T1000 M.S. GALV.
13	80 NB	1	GASKET, RING TYPE TO SABS 1123 1000x3mm, EPDM
14	150 NB	3	BUTTERFLY VALVE, HATIMA 2014
15	1"	1	BALL VALVE, THRD, HATIMA 2017K
16	M20x200	8	STUD BOLT, SABS 135 GR 4.6 HD GALV.
18	M16x75	8	BOLT, SET SABS 1123 T1000 SABS 135 GR 4.6 HD GALV. C/W NUT & WASHER
19	150 NB	1	INLINE STRAINER STYLE 'BS' CONE TYPE
20	M20x240	8	STUD BOLT, SABS 135 GR 4.6 HD GALV. C/W 2 NUTS & 2 WASHERS
21	M20	4	NUTS & WASHERS, SABS 135 GR 4.6 HD GALV.
22	M20x180	8	STUD BOLT, SABS 135 GR 4.6 HD GALV. C/W 2 NUTS & 2 WASHERS

- GENERAL NOTES**
- 1) ALL PIPING MATERIAL AS PER AQUA SPECIFICATION 200-12752.
 - 2) ALL FITTINGS AS PER AQUA SPECIFICATION 200-12752.
 - 3) ALL WELDS MUST BE CONTINUOUS, SMOOTH & FREE FROM ANY SLAG, SPLATTER ETC.
 - 4) ALL SHARP EDGES, CORNERS, HOLES ETC TO BE GROUND SMOOTH & ROUNDED (a 3mm RAD. MIN)
 - 5) ALL FLANGES & GASKETS AS PER AQUA SPECIFICATION 200-12752. BOLT HOLES TO STRADDLE CENTRE LINES
 - 6) ALL ITEMS TO BE CLEARLY MARKED USING HARD STAMPED LETTERING
 - 7) PIPE MARKING LEGEND :- ITEM C048/15221-A
DRG ORIGINATED FROM [] TAG No.
 - 8) CORROSION PROTECTION : NONE
 - 9) CORROSION PROTECTION TO ESKOM SPECIFICATION - CSS 222
 - 10) ALL S.STEEL BOLT THREADS MUST BE TREATED WITH A NICKEL BASED, ANTI-SEIZE CORROSION PROTECTION COMPOUND.
 - 11) TOLERANCES - REFER TO QP/AE/28 PIPE FABRICATION SPECIFICATION
 - 12) PLAIN PIPE ENDS SHOULD BE SMOOTH, WITH NO SEAMS, SCORE MARKS, DENTS OF OVALITY BEYOND THOSE DETAILED IN BS 534-1990 SECTION 15
 - 13) THE C.P. OF THE STATION IS Y=-57 470.000 AND X=2 622 675.000 (I.A.W. WGS84/Lo27 SYSTEM)
 - 14) THE STATION DATUM LEVEL IS 902.250 m.

WHERE APPLICABLE :
 * GREEN ENDS - ALLOW AN ADDITIONAL 200mm TO LENGTH OF PIPE WHERE GREEN ENDS ARE SPECIFIED.
 TACK WELD FLANGE TO PIPE END IF REQUIRED.
 ON SITE - CUT PIPE TO SUIT AND FULLY WELD FLANGE.
 REPAIR CORROSION PROTECTION AFTER WELDING.

AQUA
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AS BUILT
 Signed: [Signature]
 Date: 7/1/16

DESIGN NOTES

A. DESIGN PRESSURE : 420 kPaG
 B. OPERATING PRESSURE : 300 kPaG
 C. TEST PRESSURE (HYDROSTATIC) : 360 kPaG
 SYSTEM TEST ON SITE
 D. TEMPERATURE : 24°C
 E. STRESS RELIEF : NO
 F. CORROSION ALLOWANCE : NIL
 G. NDE / NDT : NO

NO.	DATE	REVISION	BY	CHECKED BY	APP'D BY	REFERENCE DRAWINGS
3	02.12.15	AS BUILT	J.R.	J.M.K.	J.V.	
2	28.11.13	ADDED IN-LINE STRAINER & GATE VALVE	G.J.	J.P.	B.D.	J.V.
1	13.01.12	ADDED CLAMP SADDLE & A.F.C.	G.J.	J.D.C.	B.D.	J.V.
0	22.11.11	ISSUED FOR REVIEW	G.J.	J.C.D.	B.D.	J.V. 0.84/4717 (C048-11003) P.M. DIAGRAM

MEDUPI POWER STATION
 W.T.P. NEUTRALIZATION SUMP
 SUCTION LINE 0 OGDK76 BR003
 ISOMETRIC (SHEET 1 OF 3)
 C048-15221
 0.84/28803