



MATERIAL LIST			
LINE No. 0 OGDK15 BR005-50NB			
SERVICE: FW (FILTERED WATER) CG SPECIFICATION			
ITEM	SIZE	QTY	DESCRIPTION
1	50	3.3 M	PIPE, SABS62 MED. WALL GALV.
2	32	0.2 M	PIPE, SABS62 MED. WALL GALV.
3	50x25	1	REDUCING BUSH, THRD, BSP
4	50	2	UNION, THRD, BS 1740 GALV.
5	50	1	NIPPLE, 3000# ANSI B16.11 GALV. TBE (100 MM LG)
6	50	6	ELBOW, 90 THRD, BS 1740 GALV.
7	25	1	NIPPLE, 3000# ANSI B16.11 GALV. TBE (60 MM LG)
8	25	1	FLG, RF THRD SABS 1123 1000/4, M.S. GALV.
9	25	1	GASKET, RING TYPE TO SABS 1123 1000x3mm, RUBBER INSERTION
10	M16x50	8	BOLT, SABS 135 GR 4.6 HD GALV.
11	50	1	BALL VALVE, THRD, HATIMA 2017K
12	50	1	NEEDLE VALVE, THRD, HATIMA
13	50x32	2	REDUCING BUSH, THRD, BSP
14	320Dx1 1/4	2	BARREL NIPPLE REDUCING uPVC ~ ONE END PLAIN FOR SOLVENT WELDING, THE OTHER THREADED ~ CODE NRV (FIP)
15	32	1	UNION, THRD, BS 1740 GALV.
16	320D	1	ROTAMETER STUBBE DFM 350

- 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 (ie 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 CO48/55116-A
DRG ORIGINATED FROM TAG No.
 - 8) CORROSION PROTECTION : H.D. GAL'D.
 - 9) CORROSION PROTECTION TO ESKOM SPECIFICATION - CSS 222
 - 10) ALL S.S. BOLT THREADS MUST BE TREATED WITH A NICKEL BASED, ANTI-SEIZE CORROSION PROTECTION COMPOUND.
 - 11) TOLERANCES - DIMENSIONS UP TO 1000mm = ±1mm
- DIMENSIONS OVER 1000mm = ±3mm
- HOLE CENTRES = ±0.5mm
- ANGULAR TOLERANCE = ±30 minutes
 - 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=-57 470.00 AND X=2 622 675.00. (I.A.W. WGS84/Lo27 SYSTEM)
 - 14) THE STATION DATUM LEVEL IS 902.250 m.
- WHERE APPLICABLE :
* GREEN ENDS - ADD 200mm TO PIPE AND TACK WELD FLANGE. ON SITE, CUT PIPE AND FULLY WELD FLANGE TO SUIT. REPAIR CORROSION PROTECTION AFTER WELDING.

NOTE!!
ALL PIPING TO BE SITE RUN & SUPPORTS MADE UP ON SITE TO SUIT.

AS BUILT
Signed Date 15/5/2014

- DESIGN NOTES**
- A. DESIGN PRESSURE : 900 kPaG
B. OPERATING PRESSURE : 300 kPaG
C. TEST PRESSURE (HYDROSTATIC) : 450 kPaG
SYSTEM TEST ON SITE
D. TEMPERATURE : 24°C
E. STRESS RELIEF : YES / NO
F. CORROSION ALLOWANCE : N/A
G. NDE / NDT : YES / NO

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4	13.11.13	AS-BUILT	JMK	J.P.	H.H.	J.V.	
3	13.04.11	ESKOM'S COMMENTS NOTED	Mega	J.P.	B.D.	J.V.	
2	02.02.11	PIPE MODIFIED/DIM & MAT.CHANGE	MF	B.R.	B.D.	J.V.	
1	24.11.10	UPDATE TO ESKOM COMMENTS	J.M.	B.R.	B.D.	J.V.	0.84/4701 ~ P. & L. DIAGRAM
0	29.08.10	APPROVED FOR CONSTRUCTION	MF	J.W.	B.D.	J.V.	0.84/21750 ~ GENERAL ARRANGEMENT

REV	DATE	INDEX REFERENCE	BY	CHKD BY	APP	DATE
DRG	22.06.10	E.J.M.				
DESIGN	22.06.10	H.H.				
KOS	22.06.10	J.V.				
DO	21.06.10	B.D.				
CHKD	18.06.10	J.W.				
DRW	01.06.10	MF				

SCALE: NTS

ESKOM

MEDUPI POWER STATION
WTP - GTM SYSTEM
FILTERED WATER TO VACUUM PUMPS
ISOMETRIC (SHEET 2 OF 5)
C048-55116
0.84/17069

SPF CODE	SHEET	REV
	2	4