


MATERIAL LIST				
LINE No. 0 OGDK07 BR001 450NB				
SERVICE: WC (CLARIFIED WATER) CC SPECIFICATION				
ITEM	SIZE	QTY	DESCRIPTION	
1	450	3.0 M	PIPE, SABS 719 Gr.B x 4,5mm WALL	
2	350	1.3 M	PIPE, SABS 719 Gr.B x 4,5mm WALL	
3	350	1.5 M	MITERED PIPE, SABS 719 Gr.B x 4,5mm WALL	
4	250	0.1 M	PIPE, SABS 719 Gr.B x 4,5mm WALL	
5	25	0.6 M	PIPE, SABS62 MED. WALL	
6	350x250	1	REDUCER, CONC. JIS B2311-82	
7	350x1"	2	THREAD-O-LET, 3000 # ANSI B16.11 304 ST.ST.	
8	350x1"	1	THREAD-O-LET, 3000 # ANSI B16.11 304 ST.ST.	
9	450	2	FLG, FFSO SABS 1123 T1000/3, M.S.	
10	350	4	FLG, FFSO SABS 1123 T1000/3, M.S.	
11	250	1	FLG, FFSO SABS 1123 T1000/3, M.S.	
12	450	1	GASKET, FF TO SABS 1123 T1000x3mm, RUBBER INSERTION	
13	350	2	GASKET, FF TO SABS 1123 T1000x3mm, RUBBER INSERTION	
14	250	1	GASKET, FF TO SABS 1123 T1000x3mm, RUBBER INSERTION	
15	M20x210	16	STUD BOLT C/W 2 NUTS & WASHERS HD GALV.	
16	M24x100	20	BOLT SABS 1123 T1000 SABS 135 GR 4.6 HD GALV.	
17	M20x75	12	BOLT SABS 135 GR 4.6 HD GALV.	
18	350	1	BUTTERFLY VALVE, HAITIMA 2014W	
19	350	1	CHECK VALVE, CHECKRITE MODEL 210 ANSI SERIES	
20	25	1	BALL VALVE, THRD, HAITIMA 2017	
21	M20x240	16	STUD BOLT C/W 2 NUTS&WASHERS SABS135 GR.4.6HD GALV.	
22	1/2"	8	NIPPLE, 3000# ANSI B16.11 304 ST.ST.	
23	1/2"	4	FULL COUPLING, 3000# ANSI B16.11 304 ST.ST.	
24	1/2"	4	BALL VALVE, THRD, HAITIMA 2017K	

- 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 C048/15059-A
DRG ORIGINATED FROM ~ TAG No.
 - 8) CORROSION PROTECTION:
INTERNAL - SAND BLAST TO SA 3
CARBOLINE 891 TO MINIMUM DFT OF 250µ
EXTERNAL: SAND BLAST TO SA 3
CARBOLINE 891 TO MINIMUM DFT OF 130µ
CARBOLINE 134 TOP COAT TO MINIMUM DFT OF 75µ
COLOUR TO BE CONFIRMED.
 - 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/L27 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.



Linkview
260 Kent Avenue
Randburg
P.O.Box 3597
Randburg
2125

Tel.: +27 11 886-0266
Fax: +27 11 886-0294
E-Mail: info@aquasa.co.za

NO.	REV.	DATE	DESCRIPTION	BY	CHKD BY	APP	DATE
3	27.09.13	AS BUILT		J.R.	J.D.C.	B.D.	J.V.
2	17.02.11	UPDATE TO ESKOM COMMENTS		E.R.	B.R.	B.D.	J.V.
1	29.09.10	UP-DATE TO ESKOM COMMENTS		E.R.	B.R.	B.D.	J.V.
0	13.05.10	APPROVED FOR CONSTRUCTION		S.M.	J.P.	H.H.	J.V.

DESIGN NOTES

A. DESIGN PRESSURE : 1000 kPaG
B. OPERATING PRESSURE : 310 kPaG
C. TEST PRESSURE (HYDROSTATIC) : 465 kPaG
SYSTEM TEST ON SITE
D. TEMPERATURE : 24°C
E. STRESS RELIEF : YES / NO
F. CORROSION ALLOWANCE : 1mm
G. NDE / NDT : YES / NO

SCALE: NTS

ESKOM

Medupi Power Station
WTP - UF
FEED PUMPS DELIVERY
ISOMETRICSHEET 2 OF 4
C048-15059
0.84/16525

SPV CODE SHEET REV
2 3

INSTRUMENT CO-ORDINATES				
INSTRUMENT	TAG NUMBER	X CO-ORDINATE	Y CO-ORDINATE	Z CO-ORDINATE
'A'	PIT O OGDK06 CP021	+2 623 164.03	-57 735.19	+903,385
'B'	PIT O OGDK06 CP521	+2 623 163.96	-57 734.91	+903,385