

MATERIAL LIST			
LINE No. 0 OGDK17 BR007-500NB			
SERVICE: FW (FILTERED WATER) CC SPECIFICATION			
ITEM	SIZE	QTY	DESCRIPTION
1	500	4.1 M	PIPE, SABS 719 Gr.B x 6mm WALL
2	350	1.9 M	PIPE, SABS 719 Gr.B x 4,5mm WALL
3	350	2.9 M	MITERED PIPE, SABS 719 Gr.B x 4,5mm WALL
4	250	0.2 M	PIPE, SABS 719 Gr.B x 4,5mm WALL
5	350x250	2	REDUCER, CONC. JIS B2311-82
6	350x1/2"	4	THREAD-0-LET, 3000# ANSI B16.11 304 ST.ST.
7	500	2	FLG, FFSO SABS 1123 T1000/3, M.S.
8	350	8	FLG, FFSO SABS 1123 1000/3, M.S.
9	250	2	FLG, FFSO SABS 1123 1000/3, M.S.
10	500	1	GASKET, FF TO SABS 1123 T1000x3mm, RUBBER INSERTION
11	350	4	GASKET, FF TO SABS 1123 T1000x3mm, RUBBER INSERTION
12	250	2	GASKET, FF TO SABS 1123 T1000x3mm, RUBBER INSERTION
13	500	1	FLG, FF BLIND SABS 1123 T1000/8, M.S.
14	M24x100	20	BOLT SABS 135 GR 4.6 HD GALV.
			C/W NUT & WASHER
15	M20x75	24	BOLT SABS 135 GR 4.6 HD GALV.
			C/W NUT & WASHER
16	M20x240	32	STUD BOLT C/W 2 NUTS&WASHERS HD GALV.SABS135 GR.4.6
17	M20x205	32	STUD BOLT C/W 2 NUTS&WASHERS HD GALV.SABS135 GR.4.6
18	350	2	CHECK VALVE, CHECKRITE MODEL 210 ANSI SERIES
			125/150
19	350	2	BUTTERFLY VALVE, HAITIMA 2014
20	1/2"	8	NIPPLE, 3000# ANSI B16.11 304 ST.ST.
21	1/2"	4	FULL COUPLING, 3000# ANSI B16.11 304 ST.ST.
22	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 C048/15129-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. STEEL 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.

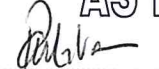


AQUA ENGINEERING
DWTA WATER TECHNOLOGY GROUP

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

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

AS BUILT


Signed  Date 15/5/2014

- DESIGN NOTES
- A. DESIGN PRESSURE : 1000 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 : 1mm
G. NDE / NDT : YES / NO

INSTRUMENT CO-ORDINATES				
INSTRUMENT	TAG NUMBER	X CO-ORDINATE	Y CO-ORDINATE	Z CO-ORDINATE
'A'	PIT 0 OGDK17 CP001	+2 623 174.79	-57 747.16	+903,566
'B'	PIO 0 OGDK17 CP501	+2 623 174.86	-57 747.44	+903,566
'C'	PIO 0 OGDK17 CP511	+2 623 172.97	-57 747.35	+903,566
'D'	PIT 0 OGDK17 CP011	+2 623 172.90	-57 747.07	+903,566

D.O.	REV	DATE	INDEX REFERENCE	APPROVED FOR CONSTRUCTION	DATE	REV	CHKD	BY	APP	REFERENCE DRAWINGS
3	06.02.14	AS BUILT	TPS	J.P.	B.D.	J.V.				
2	18.02.11	ISO KOS No.CHANGE WAS 0.84/16563-1	E.R	B.R	B.D	J.V				
		NOW IS 0.84/16527-1								
1	22.09.10	PUMP UP DML/UPDATE TO ESKOM COMM	E.R	B.R	H.H	J.V.	0.48/4675	PARD	UF BACKWASH PUMPS	
0	17.05.10	APPROVED FOR CONSTRUCTION	S.W	J.P.	H.H	J.V.	0.84/19554	- UF BACKWASH PUMPS	GA	
** REVISION **										
DRG	REV	DATE	INDEX REFERENCE	APPROVED FOR CONSTRUCTION	DATE	REV	CHKD	BY	APP	REFERENCE DRAWINGS
DRG	REV	DATE	INDEX REFERENCE	APPROVED FOR CONSTRUCTION	DATE	REV	CHKD	BY	APP	REFERENCE DRAWINGS
DESIGN	REV	DATE	INDEX REFERENCE	APPROVED FOR CONSTRUCTION	DATE	REV	CHKD	BY	APP	REFERENCE DRAWINGS
KOS	REV	DATE	INDEX REFERENCE	APPROVED FOR CONSTRUCTION	DATE	REV	CHKD	BY	APP	REFERENCE DRAWINGS
DO	REV	DATE	INDEX REFERENCE	APPROVED FOR CONSTRUCTION	DATE	REV	CHKD	BY	APP	REFERENCE DRAWINGS
CHKD	REV	DATE	INDEX REFERENCE	APPROVED FOR CONSTRUCTION	DATE	REV	CHKD	BY	APP	REFERENCE DRAWINGS
BY	REV	DATE	INDEX REFERENCE	APPROVED FOR CONSTRUCTION	DATE	REV	CHKD	BY	APP	REFERENCE DRAWINGS
SCALE	NTS									

MEDUPI POWER STATION
WTP 100
UF BACKWASH PUMPS DELIVERY
ISOMETRIC SHEET 1 OF 4
C048-15129
0.84/16527

 **Eskom**

SPF CODE SHEET REV
1 3