

POINT	ITEM No.	QTY	DESCRIPTION	KKS CODE	Y	X	Z
1	CLA3/CDB/1	2	50NB STRAIGHT PIPE (218mm)	---	N/A	N/A	N/A
2	CLA3/CDB/2	22	50NB x 90° LONG RADIUS BEND	---	N/A	N/A	N/A
3	CLA3/CDB/3	2	50NB STRAIGHT PIPE (176mm)	---	N/A	N/A	N/A
4	CLA3/CDB/4	6	---	0 0GNB53 AA505	-58 412,043	+2 622 092,746	884,286
5			50NB KNIFE GATE VALVE	0 0GNB53 AA506	-58 412,304	+2 622 093,712	884,286
6				0 0GNB53 AA509	-58 446,029	+2 622 064,242	892,225
7				0 0GNB53 AA507	-58 445,799	+2 622 063,946	892,225
8				0 0GNB53 AA510	-58 442,623	+2 622 052,196	892,225
9				0 0GNB53 AA511	-58 442,700	+2 622 052,479	892,225
10	CLA3/CDB/5	1	50NB STRAIGHT PIPE (376mm)	---	N/A	N/A	N/A
11	CLA3/CDB/6	2	50NB STRAIGHT PIPE (1474mm)	---	N/A	N/A	N/A
12	CLA3/CDB/7	2	50NB STRAIGHT PIPE (198mm)	---	N/A	N/A	N/A
13	CLA3/CDB/8	2	50NB T-PIECE	---	N/A	N/A	N/A
14	CLA3/CDB/9	2	50NB STRAIGHT PIPE (350mm)	---	N/A	N/A	N/A
15	CLA3/CDB/10	-	---	---	N/A	N/A	N/A
16	CLA3/CDB/11	1	50NB STRAIGHT PIPE (15318mm)	---	N/A	N/A	N/A
17	CLA3/CDB/12	1	50NB STRAIGHT PIPE (6870mm)	---	N/A	N/A	N/A
18	CLA3/CDB/13	2	50NB STRAIGHT PIPE (6571mm)	---	N/A	N/A	N/A
19	CLA3/CDB/14	5	50NB x 45° LONG RADIUS BEND	---	N/A	N/A	N/A
20	CLA3/CDB/15	2	50NB STRAIGHT PIPE (4028mm)	---	N/A	N/A	N/A
21	CLA3/CDB/16	2	50NB STRAIGHT PIPE (27 367mm)	---	N/A	N/A	N/A
22	CLA3/CDB/17	-	---	---	N/A	N/A	N/A
23	CLA3/CDB/18	1	50NB STRAIGHT PIPE (111 32mm)	---	N/A	N/A	N/A
24	CLA3/CDB/19	3	50NB STRAIGHT PIPE (3 112mm)	---	N/A	N/A	N/A
25	CLA3/CDB/20	1	50NB STRAIGHT PIPE (12 894mm)	---	N/A	N/A	N/A
26	CLA3/CDB/21	1	50NB STRAIGHT PIPE (24 395mm)	---	N/A	N/A	N/A
27	CLA3/CDB/22	1	50NB SWEEPING T-PIECE	---	N/A	N/A	N/A
28	CLA3/CDB/23	1	15mm SAUNDERS VALVE FOR PIT	0 0GNB53 AA301	-58 413,701	+2 622 091,884	884,952
29	CLA3/CDB/110	1	50NB STRAIGHT PIPE (14 500mm)	---	N/A	N/A	N/A
30	CLA3/CDB/120	1	50NB STRAIGHT PIPE (7 070mm)	---	N/A	N/A	N/A
31	CLA3/CDB/300	1	50NB STRAIGHT PIPE (176mm)	---	N/A	N/A	N/A
32	CLA3/CDB/500	1	50NB ACTUATED VALVE	---	N/A	N/A	N/A

NB: ALL CO-ORDINATES SHOWN IN THE TABLE ABOVE ARE AND MAY CHANGE DURING CONSTRUCTION.

PIPING:

1. PIPING TO BE SANS 62 HEAVY UP & INCLUDING 150NB & SANS 719 GRADE B 6THK WALL FOR 200 NB AND ABOVE.
2. ALL ITEMS TO BE CLEARLY HARD MARKED ON PIPE APPROX. 300mm FROM FIXED FLANGE WITH ITEM NUMBER & DRAWING NUMBER. RUBBER HOSES TO BE SECURELY TAGGED WITH ITEM NUMBER & DRAWING NUMBER.
3. ALL FLANGES TO BE TO S.A.N.S. 1123-11000- DIMENSIONS TO NP/3 FLAT FACE
4. FLANGES TO BE FITTED WITH HOLES OFF CENTER (i.e. 2 HOLES TOP)
5. ALL FLANGES TO BE FLAT FACED SLIP
6. ALL GASKETS TO BE FULL FACE 3,0mm THICK, EPDM INSERTION RUBBER GASKETS, OR SIMILAR APPROVED
7. ALL STEEL BENDS TO HAVE R=3xDIA. ALL RUBBER HOSES TO HAVE R=10xDIA.
8. BUTT WELDED PIPE FITTINGS TO COMPLY WITH ASTM A234 GRADE WPB, SIZES TO ANSI B19.9
9. SCREWED PIPES & FITTINGS: (40 NB AND SMALLER)
 - a) SCREWED TO B.S. 21
 - b) WROUGHT STEEL FITTING TO B.S. 1740
 - c) MALLEABLE CAST IRON PIPE FITTINGS TO SANS 509
10. ALL CLOSERS TO BE SUPPLIED 100mm LONGER THAN DRAWING DIMENSION (i.e. AS PER MATERIAL LIST DIMENSION) & WITH LOOSE FLANGE TO ALLOW FOR SITE ADJUSTMENT
11. LOOSE FLANGES ARE MARKED THUS:
12. FABRICATOR TO SUPPLY ALL NUTS, BOLTS & WASHERS, SUITABLY BAGGED, (INCL. 5% SPARES) LABELED & DISPATCHED TO SITE TOGETHER WITH PIPING, FASTENERS TO BE ELECTROPLATED EXCEPT FOR THOSE REQUIRED FOR OUT OF PLANT PIPING WHICH ARE TO BE HOT DIP GALVANIZED.
13. ALL FLUSHING POINTS TO BE FITTED WITH 25NB NIPPLE, 25NB BALL VALVE (C.I.) AND 25NB QUICK RELEASE COUPLING.
14. FOR CORROSION PROTECTION INFORMATION SEE MEDUPI POWER STATION CORROSION PROTECTION SPECIFICATION (DOC No. SSZ.45-17) - REF. CPS1000 'HOT DIP GALVANIZING'.

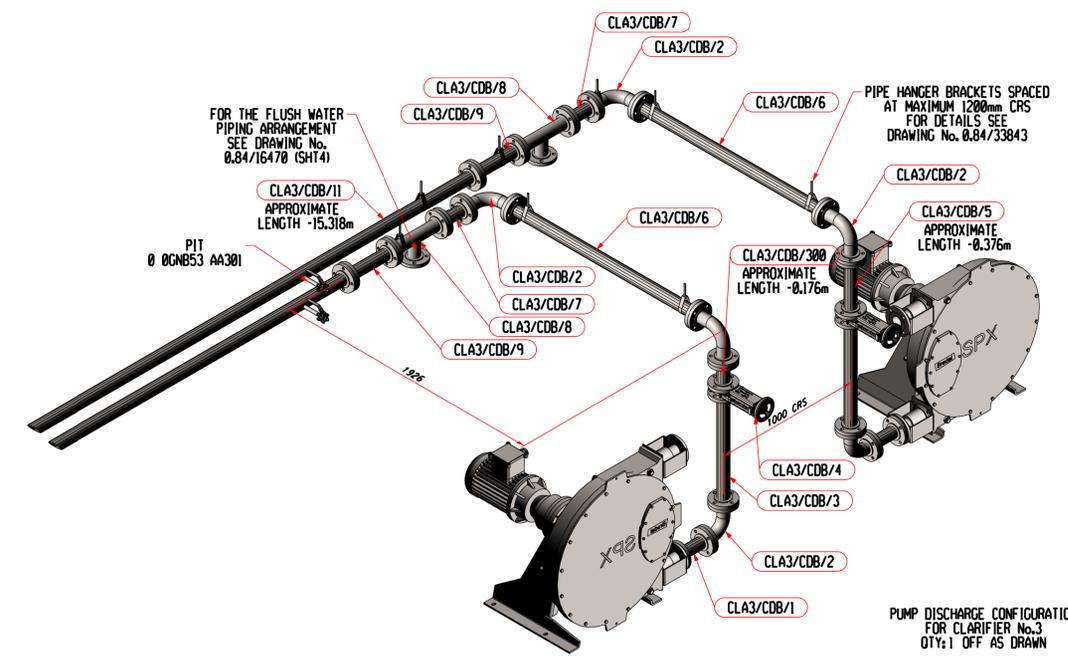
REFERENCE DRAWINGS:

- CLARIFIERS GENERAL ARRANGEMENT SEE DRAWING No. 0.84/7821
- CLARIFIER TO ASH PUMPS SEE DRAWING No. 0.84/16470 SHT 1
- FLUSH WATER PIPE ROUTE SEE DRAWING No. 0.84/16470 SHT3
- ASH PUMPS TO CENTRIFUGE/DRYING BEDS SEE DRAWING No. 0.84/19234 (SHT1)
- PIPE HANGER & SUPPORT BRACKET DETAILS SEE DRAWING No. 0.84/33843

NOTES

1. ALL PIPE DIMENSIONS ARE TO BE CHECKED & CONFIRMED ON SITE TO ORDERING
2. REFER TO TECHNICAL DATA PACK FOR TECHNICAL SPECIFICATION OF VALVES, ETC.
3. WORKSHOP FABRICATION DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING FABRICATION.

CHECK PRINT
Signature: _____
Date: ____/____/____



PUMP DISCHARGE CONFIGURATION FOR CLARIFIER No.3 QTY: 1 OFF AS DRAWN

0	2025-07-02	RECREATED AS PER WORK REQUEST CAD-2025-502	EH	MM			
1	2013-05-31	PIPE ROUTE TO DRYING BEDS UPDATED	BH	AP	LA	AP	
3	2012-11-12	PIPE SUPPORTS ADDED	BH	AP	LA	TS	
DO.	REV	DATE	BY	CHKD BY	JOB APPR	APPR BY	REFERENCE DRAWINGS
APPROVED BY:		CLASSIFICATION					
INITIAL AND SURNAME:		PBS PATH					
PR ENG/PR TECH ENG No.:		UGD, UGU & GNB					
DATE:							
SIGNATURE:							
CODIFICATION BY:							
CHECKED BY:							
M. MOLABE 2025-07-02		MEDUPI POWER STATION ASH WASHDOWN - COLLECTION AND TREATMENT SECONDARY TREATMENT PLANT CLARIFIERS - PIPEWORK DETAILS SLUDGE PUMPS TO CENTRIFUGE / DRYING BEDS					
CREATED BY:							
E. FLATSHWAYO 2025-07-02							
SCALE		N.T.S.		ESKOM HOLDINGS SOC. LTD REG No. 2002/015527/30		ESKOM DRAWING No. 0.84/16470 (SHT2)	
				SHT		REV	
				2/5		5	