



PIPE ROUTE FROM CLARIFIER No. 1
TO CENTRIFUGE/EMERGENCY DRYING BEDS
PIPE DIAMETER: 65NB
QTY: 1 OFF REQ'D

PIPE SUPPORT BRACKETS
SPACED AT MAXIMUM 1500mm CRS
FOR DETAILS SEE DRAWING No. 084/33843

PIPE HANGER BRACKETS SPACED
AT MAXIMUM 1200mm CRS
FOR DETAILS SEE
DRAWING No. 084/33843

TYPICAL ASH PUMP DISCHARGE
CONFIGURATION
SCALE: N.T.S.
QTY: 1 OFF REQ'D

POINT	ITEM No.	QTY	DESCRIPTION	KKS CODE	Y	X	Z
1	CLAI/CDB/1	2	65NB STRAIGHT PIPE (144mm)	---	N/A	N/A	N/A
2	CLAI/CDB/2	2	65NB x 90° LONG RADIUS BEND	---	N/A	N/A	N/A
3	CLAI/CDB/3	6	NB65 ACTUATED KIFE GATE VALVE	0 00NB14 AA505	-57 467,952	+2 623 134,165	894,788
4				0 00NB14 AA506	-57 468,833	+2 623 133,656	894,788
5				0 00NB14 AA509	-57 492,179	+2 623 188,855	903,575
6				0 00NB14 AA507	-57 492,448	+2 623 187,921	902,908
7				0 00NB14 AA510	-57 514,484	+2 623 096,515	903,100
8				0 00NB14 AA511	-57 514,833	+2 623 096,267	903,100
9	CLAI/CDB/4	2	65NB STRAIGHT PIPE (1340mm)	---	N/A	N/A	N/A
10	CLAI/CDB/5	12	65NB x 90° LONG RADIUS BEND	---	N/A	N/A	N/A
11	CLAI/CDB/6	2	65NB STRAIGHT PIPE (1320mm)	---	N/A	N/A	N/A
12	CLAI/CDB/7	2	65NB T-PIECE	---	N/A	N/A	N/A
13	CLAI/CDB/8	1	65NB STRAIGHT PIPE (670mm)	---	N/A	N/A	N/A
14	CLAI/CDB/9	1	65NB STRAIGHT PIPE (10 780mm)	---	N/A	N/A	N/A
15	CLAI/CDB/10	1	65NB STRAIGHT PIPE (6 480mm)	---	N/A	N/A	N/A
16	CLAI/CDB/11	2	65NB STRAIGHT PIPE (3 280mm)	---	N/A	N/A	N/A
17	CLAI/CDB/12	4	65NB x 45° LONG RADIUS BEND	---	N/A	N/A	N/A
18	CLAI/CDB/13	2	65NB STRAIGHT PIPE (17 110mm)	---	N/A	N/A	N/A
19	CLAI/CDB/14	2	65NB STRAIGHT PIPE (16 290mm)	---	N/A	N/A	N/A
20	CLAI/CDB/15	1	50NB x 90° LONG RADIUS BEND	---	N/A	N/A	N/A
21	CLAI/CDB/16	3	50NB STRAIGHT PIPE (16 290mm)	---	N/A	N/A	N/A
22	CLAI/CDB/17	2	50NB STRAIGHT PIPE (19 110mm)	---	N/A	N/A	N/A
23	CLAI/CDB/18	3	50NB STRAIGHT PIPE (6 680mm)	---	N/A	N/A	N/A
24	CLAI/CDB/19	1	65NB STRAIGHT PIPE (6 210mm)	---	N/A	N/A	N/A
25	CLAI/CDB/20	1	65NB STRAIGHT PIPE (24 860mm)	---	N/A	N/A	N/A
26	CLAI/CDB/21	1	65NB STRAIGHT PIPE (6 680 mm)	---	N/A	N/A	N/A
27	CLAI/CDB/22	1	65NB STRAIGHT PIPE (1 190 mm)	---	N/A	N/A	N/A
28	CLAI/CDB/23	1	65NB T-PIECE	---	N/A	N/A	N/A
29	CLAI/CDB/24	1	65NB STRAIGHT PIPE (680 mm)	---	N/A	N/A	N/A
30	CLAI/CDB/25	1	15mm SAUNDERS VALVE FOR PIT	0 00NB14 AA301	-57 468,380	+2 623 132,042	896,220
31	CLAI/CDB/120	1	50NB x 45° LONG RADIUS BEND	---	N/A	N/A	N/A
32	CLAI/CDB/500	9	50NB x 90° LONG RADIUS BEND	---	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 (1.0, 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=3-DIA. ALL RUBBER HOSES TO HAVE R=10-DIA.
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. SS2.45-17) - REF. CPS100 'HOT DIP GALVANIZING'.

REFERENCE DRAWINGS:

- CLARIFIERS GENERAL ARRANGEMENT
SEE DRAWING No. 084/7020
- CLARIFIER TO ASH PUMPS
SEE DRAWING No. 084/19233
- FLUSH WATER PIPE ROUTE
SEE DRAWING No. 084/19235 (SHT 1 & SHT 2)
- ASH PUMPS TO CENTRIFUGE/DRYING BEDS
SEE DRAWING No. 084/19234 (SHT1)
- PIPE HANGER & SUPPORT BRACKET DETAILS
SEE DRAWING No. 084/33843

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: ____/____/____

5	2025-07-02	RECREATED AS PER WORK REQUEST CAD-2025-502	EH	HM			
4	2014-09-14	KKS CODES ADDED	CL	JP		AP	
3	2013-06-18	VALVE POSITION UPDATED	BM	AP		TS	
2	2013-06-18	VALVE POSITION UPDATED	BM	AP		TS	
1	2013-06-18	VALVE POSITION UPDATED	BM	AP		TS	

APPROVED BY:	CLASSIFICATION:
PR ENG/PR TECH ENG No.:	PBS PATH:
DATE:	UCD, UGU & GNB:
SIGNATURE:	
CODIFICATION BY:	
CHECKED BY:	
M MOLAHE 2025-07-02	
CREATED BY:	
E FLATSHWAY 2025-07-02	
SCALE:	N.T.S.

MEDUPI POWER STATION	
ASH WASHDOWN - COLLECTION AND TREATMENT	
PRIMARY TREATMENT PLANT	
CLARIFIERS - PIPEWORK DETAILS	
SLUDGE PUMPS TO CENTRIFUGE / DRYING BEDS	
ESKOM DRAWING No.	SHT
084/19234 (SHT1)	1 of 2
REV	5