LEGEND

E	ACTUATED KNIFE GATE VALVE
E	ACTUATED VALVE
	MANUALLY OPERATED VALVE
	NON RETURN VALVE
	SLUICE GATE
DP	DIFFERENTIAL PRESSURE GAUGE
M	FLOW MONITOR
	SPRAYS
	DRUM SCREEN
	IN LINE STRAINER WITH DOOR
	DECANTING CENTRIFUGE
	SOLENOID OPERATED VALVE

	PERISTALTIC SLUDGE PUMP
	CENTRIFUGAL PUMP
E	SUMP PUMP WITH INTERNAL FLOAT

PI	PRESSURE INDICATOR - INDICATES VALUE LOCALLY ONLY.
PIT	PRESSURE INDICATING TRANSDUCER.
LI	LEVEL INDICATOR - INDICATES VALUE LOCALLY ONLY.
LS	LEVEL SWITCH - DOES NOT MONITOR PRESSURE VARIATION, BUT CAUSES SWITCHING AT A PRESET VALUE. COULD BE ANALOGUE OR BINARY.
LIT	LEVEL INDICATING TRANSDUCER.
FS	FLOW SWITCH - DOES NOT MONITOR PRESSURE VARIATION, BUT CAUSES SWITCHING AT A PRESET VALUE. COULD BE ANALOGUE OR BINARY.
FIT	FLOW INDICATING TRANSDUCER.
LCT	LOAD CELL TRANSDUCER.

REFERENCE DRAWINGS:

SECONDARY TREATMENT PLANT SITE LAYOUT
SEE DRAWING No. 0.84/16458

STORMWATER LAYOUT AND LONGITUDINAL PROFILE SEE DRAWING No. 0.84/16468

CLARIFIERS GENERAL ARRANGEMENT AND DETAILS SEE DRAWING No. 0.84/7021

CENTRIFUGE STATION GENERAL ARRANGEMENT AND DETAILS SEE DRAWING No. 0.84/16614

DRYING BEDS GENERAL ARRANGEMENT AND DETAILS SEE DRAWING No. 0.84/16464

DIRTY WATER TRANSFER CHANNEL
SEE DRAWING No. 0.84/11185

READ IN CONJUNCTION WITH THE OPERATING PHILOSOPHY DOCUMENT No. 200-46525

THE KKS CODES TABULATED BELOW REFER TO SECONDARY ITEM SUCH AS COUPLINGS, GEARBOXES, ETC., WHICH CANNOT BE SHOWN ON THE P&ID DUE TO LACK OF SPACE. THEY ARE LOCATED WITH THE ASSOCIATED PRIMARY ITEMS WHICH ARE IDENTIFIED BY THEIR KKS CODES

0 0GNB52 AA101 MG01	CLARIFIER 3 SLUDGE OUTLET VALVE GEARBOX
0 0GNB52 AT001 MG01	CLARIFIER 3 SCRAPER PRIMARY GEARBOX
0 0GNB52 AT001 MG02	CLARIFIER 3 SCRAPER SECONDARY GEARBOX
0 0GNB52 AT001 MK01	CLARIFIER 3 SCRAPER PRIMARY COUPLING
0 0GNB52 AT001 MK02	CLARIFIER 3 SCRAPER FINAL DRIVE CHAIN COUPLING
0 0GNB53 AP001 MG01	CLARIFIER 3 SLUDGE PUMP 1 GEARBOX
0 0GNB53 AP002 MG01	CLARIFIER 3 SLUDGE PUMP 2 GEARBOX
0 0GNB41 AP001 MK01	CLARIFIER 3 FLUSH WATER PUMP COUPLING
0 0GNB62 AA101 MG01	CLARIFIER 4 SLUDGE OUTLET VALVE GEARBOX
0 0GNB62 AT001 MG01	CLARIFIER 4 SCRAPER PRIMARY GEARBOX
0 0GNB62 AT001 MG02	CLARIFIER 4 SCRAPER SECONDARY GEARBOX
0 0GNB62 AT001 MK01	CLARIFIER 4 SCRAPER PRIMARY COUPLING
0 0GNB62 AT001 MK02	CLARIFIER 4 SCRAPER FINAL DRIVE CHAIN COUPLING
0 0GNB63 AP001 MG01	CLARIFIER 4 SLUDGE PUMP 1 GEARBOX
0 0GNB63 AP002 MG01	CLARIFIER 4 SLUDGE PUMP 2 GEARBOX
0 0GNB42 AP001 MK01	CLARIFIER 4 FLUSH WATER PUMP COUPLING

KKS CODE - 0 0GNB

REFERENCE DRAWINGS:

SLURRY INLET PIPEWORK DETAILS
SEE DRAWING No. 0.84/7021 SHT 3

CLARIFIERS TO ASH PUMPS PIPEWORK DETAILS
SEE DRAWING No. 0.84/16470 SHT 1

CLARIFIER 3 ASH PUMPS TO DRYING BEDS / CENTRIFUGES PIPEWORK DETAILS
SEE DRAWING No. 0.84/16470 SHT 2

CLARIFIER 4 ASH PUMPS TO DRYING BEDS / CENTRIFUGES PIPEWORK DETAILS
SEE DRAWING No. 0.84/16470 SHT 3

FLUSH WATER PIPEWORK DETAILS
SEE DRAWING No. 0.84/16470 SHT 4

FLUSH WATER PIPEWORK DETAILS
SEE DRAWING No. 0.84/16470 SHT 5

SUMP PUMPS PIPEWORK DETAILS
SEE DRAWING No. 0.84/27841

CENTRIFUGE FEED PIPEWORK DETAILS
SEE DRAWING No. 0.84/19330

CENTRIFUGE DISCHARGE PIPEWORK DETAILS
SEE DRAWING No. 0.84/19331

17	07 05 16	TABLE OF KKS CODES FOR SECONDARY ITEMS NOT SHOWN ON IS ADDED. FLEX PIPES ON SUMP PUMPS ADDED	KCF	LAVERON	JF				
16	05 04 16	KKS FOR SLUDGE PUMP VSD'S ADDED	KCF	LAVERON	JF				
15	07 11 14	Ø32 BRANCH AND VALVE FOR CENTRIFUGE WASHING ADDED. FIRE WATER SYSTEM KKS CODES UPDATED.	KCF	LAVERON	LD				
14	17 09 14	FIT's (PREVIOUSLY AT CENTRIFUGES) ADDED AT SLUDGE PUMPS	KCF	LAVERON	LD				
13	04 07 11	BEARING FLUSH WATER CHANGED FROM DEDICATED POTABLE SUPPLY TO SHARING MCC FIRE WATER SUPPLY. KKS CODES FOR SCRAPER OIL PUMPS CORRECTED. PIPE DIAMETERS INDICATED.	KCF	LAVERON	LD				
D.O.	REV	DATE	*** REVISION ***			REV BY	CHKD BY	AUTH BY	KKS APP
ORIG PROJECTS	--	--	INDEX REFERENCE :						REFERENCE DRAWINGS
DESIGN APPROVED	--	--	A.P	ACCORDED FOR ESKOM BY	DATE	--	--	--	--
KKS APP	--	--							
DO AUTH	16 05 11	AGS							
CHKD BY	16 05 11	AP							
DRAWN BY	16 05 11	MP							
SCALE	N.T.S								

MEDUPI POWER STATION
ASH WASHDOWN - COLLECTION AND TREATMENT
SECONDARY TREATMENT PLANT
P & ID (SHEET 1)

J26182/A/ASH/07/02/06/00

0.84/26150

SHEET 1 of 2 | REV 17

SIZE A1