	Scope of Work	Generation
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Compiled by



MD Delekoa
Chemical Engineer

Date: 12/09/2022

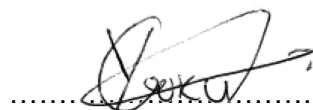
Functional Responsibility



C Odendaal
P17 LDE

Date: 12/09/2022


Supported by



Y Gokul
BOP Manager

Date: 12/09/2022

Authorised by



T Railo
Project Engineering Manager

Date: 13/09/2022

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1. INTRODUCTION

Kusile Power Station consists of six boiler generating units, each generating unit has a dedicated Condensate Polishing Plant (CPP), which removes unwanted materials such as crud and debris in the system. The CPP's treat the condensate collected in the Air-Cooled Condensate Tank (ACCCT). Each Unit CPP comprises of 4 pre-polishing cartridges for normal operations. Each cartridge houses 8 pre-polishers which equates to a total of 32 pre-polishing filters per unit. These filters require frequent replacement to support commissioning and unit start-up conditions due to the overall dirtiness of the boiler and turbine steam/water cycle.

2. SUPPORTING CLAUSES

2.1 SCOPE

2.1.1 Purpose

This document provides the specification of the CPP pre-polishing filters required for commissioning and start-up of Unit 5 and 6.

2.1.2 Applicability

This document shall apply to Kusile Power Station only.

2.2 NORMATIVE/INFORMATIVE REFERENCES

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

[1] ISO 9001 Quality Management Systems.

2.2.2 Informative

None

2.3 DEFINITIONS

2.3.1 Disclosure Classification

Controlled disclosure: controlled disclosure to external parties (either enforced by law, or discretionary).

2.4 ABBREVIATIONS

Abbreviation	Description
CPP	Condensate Polishing Plant
ACCCT	Air-Cooled Condensate Tank

2.5 ROLES AND RESPONSIBILITIES

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2.6 PROCESS FOR MONITORING

Not applicable.

2.7 RELATED/SUPPORTING DOCUMENTS

- [1] 366-316742 Scope of Work for the Supply of CPP Pre-Polishing Filters, Rev1.
- [2] 2522M-D10-00-00-02 FILTER TYPE: GB 8 R6/HORIZ
- [3] 1074309361 Procurement Strategy: Supply and Delivery of 3671 Condensate Polishing Plant Commissioning Pre-Filters for Kusile Power Station

3. SCOPE OF WORK

Supply the required quantity of pre-polishing filters (Table 2) according to the below specification:

Table 1: CPP Pre-Polishing Filter Specification

Type	Disposable non-back washable cartridge filters
Filtration rating	5micron /10micron / 20micron Absolute
Dimensions	6x60 inches
Filter Media Material	Pleated Polypropylene
Hardware Material	Polypropylene
Max Allowable differential pressure	200 kPa
Filtering area per pre-filtration vessel	68m ²
Design Temperature	110°C

Table 2: Required Amount of CPP Pre-Polishing Filters

Pre-Polishing Filters	Number required
20Microns	552
10Microns	128
5Microns	412

Appendix A shows the technical specification of the 5Microns filter. The 20microns and 10microns filters must have exact technical specification as the 5microns filters the only difference must be the filter pores sizes.

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4. TECHNICAL EVALUATION STRATAGY

Only filters that fully comply with this specification will be considered. Any other proposals will be immediately disqualified and will not be evaluated.

5. AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation
Yuvir Gokul	BOP-Manager
Chris Odendaal	P17 LDE

6. REVISIONS

Date	Rev.	Compiler	Remarks
May 2020	1	V Mphaga	Initial SOW
May 2022	2	MD Delekoa	Revised SOW
September 2022	3	MD Delekoa	Updated number of filters required

7. DEVELOPMENT TEAM

The following people were involved in the development of this document:

- David Delekoa
- Chris Odendaal

8. ACKNOWLEDGEMENTS

None

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9. APPENDICES

9.1 APPENDIX A: 5MICRON FILTER TECHNICAL SPECIFICATION/DATASHEET

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</thead></table>		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	IJ	JK	JL	JM	JN	JO	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY	JZ	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LL	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UY	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	XZ	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ	<p>Quantity</p> <p>Quantità</p>	<p>24 (TWENTYFOUR)</p>	<p>Operating esercizio</p> <p>Design progetto</p>	<p>Flow-Rate Portata</p> <p>Pressure Pressione</p> <p>ΔP at Clean / Dirty Filter</p> <p>Temperature Temperatura</p> <p>Wind load Carico del vento</p> <p>Seismic load Carico sismico</p> <p>Fluid density Densità fluido</p> <p>Corr. All. Sovr. Di corrosione</p> <p>Remarks:</p> <p>Hidrostatyc Test Pressure</p>	<p>m3/h</p> <p>kPa</p> <p>kPa</p> <p>°C</p> <p>kg</p> <p>kg</p> <p>kg/dm3</p> <p>mm</p> <p>kPa</p>	<p>435 ÷ 580</p> <p>800</p> <p>≤ 35 / 150</p> <p>50 ÷ 85 MAX</p> <p>See 2522M-</p> <p>307</p> <p>1</p> <p>3</p> <p>1500</p>	<p>652</p> <p>1000</p> <p>110</p> <p>--</p> <p>307</p>
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	IJ	JK	JL	JM	JN	JO	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY	JZ	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LL	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UY	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	XZ	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ									
<p>FABRICATION DATA</p> <p>Dati costruttivi</p>		<p>Body Material</p> <p>Top Cover Flanges Material</p> <p>Internals Material: Welded/Removable</p> <p>External Bolts&Nuts Material</p> <p>Top Cover Gasket Material</p> <p>Internal Lining</p> <p>Top Cover Closure Type</p> <p>External Finishing</p> <p>Internal Finishing</p>				<p>Material Materiale</p> <p>ASTM A 516 GR 70</p> <p>ASTM A 105</p> <p>R</p> <p>ASTM A 193 B7 / A 194 2H (ZINC PLATED TYPE AND METRIC SIZE)</p> <p>VITON</p> <p>/</p> <p>FLANGE W/HINGE</p> <p>DCS 1000 Primer only vessel / DCS 1000 legs</p> <p>TECTYL 506 EH</p>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
<p>CONNECTIONS</p> <p>Connessioni</p>		<p>IN/OUT</p> <p>VENT</p> <p>DPI</p> <p>BOTTOM DRAIN</p> <p>TUBE SHEET DRAIN</p> <p>PSV</p>				<p>12" S.O. ANSI 150#</p> <p>* 1" S.O. ANSI 150#</p> <p>* 1/2" SW ANSI 3000#</p> <p>* 2" S.O. ANSI 150# + 1" S.O. ANSI 150# (see dwg. GB 2401)</p> <p>/</p> <p>/</p>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
<p>FILTER ELEMENT DATA</p>		<p>TYPE</p> <p>MODEL</p> <p>QUANTITY</p> <p>FILTRATION RATING</p> <p>DIMENSIONS</p> <p>FILTER MEDIA MATERIAL</p> <p>HARDWARE MATERIAL</p> <p>MAX ALLOWABLE ΔP kPa</p> <p>FILTERING AREA</p>				<p>DISPOSABLE CARTRIDGE</p> <p>MPP2/5/60</p> <p>8</p> <p></p> <p>6"x60"</p> <p>PLEATED POLYPROPYLENE</p> <p>POLYPROPYLENE</p> <p>200 ~</p> <p>68 m²</p>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
<p>Client:</p> <p>Plant:</p> <p>CPP SERVICE PRE-POLISHING FILTERS</p>		<p>ESKOM KUSILE POWER STATION</p> <p>CONDENSATE POLISHING PLANT</p>				<p>DOC. No.</p> <p>2522M-D10-00-00-02</p> <p>Date 23/06/11</p> <p>Rev. 2</p> <p>Draw GB</p> <p>Check GB</p> <p>Auth. GM</p>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

12/03/12 G.B. FILTRI - Filled according to GE comments
01/08/11 & 24/02/12 and G.B. Filtri internal revision
27/07/11 G.B. FILTRI - Filled

* ACCORDING TO PIPING SPECIFICATION
TO BE FILL BY MFR
(refer to Supplier spec. Nr. A6080/1 Rev. 1 dated 21/03/11)

G.B. Filtri s.r.l.
Sede legale: Via Belfiore, 13 - 21047 SARNANO
Sede operativa: Via Ugo La Malfa, 18/20
Tel. 0331/846622 - Fax 0331/846622
20027 PAVIA (MI)
Cod. Fisc. 02026220123

Escom Dwg No. : 0.90/22267
PDNA Dwg No. : TKB-AU-TB-00045-001

ASS'Y DWG. GB 2401 - Detail Assembly dwg.

GE Infrastructure
Water & Process Technologies