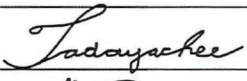


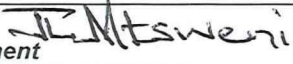





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PLANT AREA: Matla Power Station – Units 1-6 PF Burners			
TITLE: Supply of PF Burner Spares to Matla Power Station for 5 Years			
REF: MEB-055573	Reference Rev No: 0	MULTIDISCIPLINARY: No	Plant Level: 1
COMPILED BY	Name: Theo Padayachee System Engineer	Signature: 	Date: 24/04/2025
APPROVED	Name: John Makuleka Line Manager	Signature: 	Date: 24/04/2025
APPROVED	Name: Lindokuhle Ngobese Group Manager	Signature: 	Date: 25/04/2025
REVIEWED	Name:  Quality Department	Signature: 	Date: 25/04/2025
REVIEWED	Name: Occupational Health and Safety	Signature: N/A	Date: —
REVIEWED	Name: Makutse Thermane Environmental Department	Signature: 	Date: 29/04/2025
ACCEPTED	Name: Outage Department	Signature: 	Date: 29/04/2025
ACCEPTED	Name: Christo Groenewald AIA	Signature: N/A	Date: —

NB: Do not tamper with the template.

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GENERAL


- Data books, reviews, reports, and diagrams/drawings shall be submitted to Engineering after the completion of the work. Engineering to forward the data books to Quality Department (Document Control)
- All QCP's to be submitted to Engineering and Quality for approval prior to outage/project or maintenance work commencement.

	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
1.1	Occupational Health and Safety	<ul style="list-style-type: none"> • Health and safety file should be approved by Safety risk management department prior to any work commences on site • All work is to be done in accordance with OHS Act 85 of 1993, Matla plant procedures and Plant Safety Regulations. (240-150642762). • Matla power station SHEQ induction must be done before access to site can be granted • The contractor should ensure that all employees have acquired the required competency for the task they are performing. • The contractor to ensure compliance to updated legal requirements and other requirements 	Eskom to witness.	Contractor
1.2	Environmental Management.	<ul style="list-style-type: none"> • All activities listed in the National Environmental Act 107 of 1998, EIA Regulations as amended, must have environmental AUTHORISATION before commencement of work. • The contractor shall comply with all applicable legal and other requirements. • The polluter pays principle will be applied. 	Eskom to witness.	Contractor

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		<ul style="list-style-type: none"> The contractor manager shall ensure compliance with Eskom Matla Environmental procedures to ensure the prevention of pollution (refer: OMOP 4090 and 4402). The last payment will be processed based on the status of the last housekeeping check sheet (Annexure C: OMOP 4402) of designated area. EMS file based on ISO14001 will be required. 		
1.3	Quality Management	<ul style="list-style-type: none"> The contractor/executioner of work will be responsible for drawing up all QCP documentation and this must be approved by engineering and authorised by the Quality Department before commencing with the work. Contractors/executioner to adhere to QM 58 and OMOP4497 requirements Number of NCR issued can affect your next tendering process. The QCP shall be signed progressively by the Engineer/Supervisor, Eskom QC Inspector, Contractor QC Inspector and/or AIA. No procuring of outage items without the approval of scopes by quality All outage scopes creep and scopes addition should be approved by quality No contractor should be in the possession of scopes for execution without the scopes approved by quality The contractor is subjected to quality auditing at any point in time during execution of scope 	Hold point	Contractor

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1.4	Inputs from other departments			
1.5	Commissioning reference			

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	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
a	The pulverized fuel (PF) burner spares contractor shall comply to all relevant legislation and standards.		HOLD	CONTRACTOR
b.	<p>The pulverized fuel (PF) burner spares contractor shall ensure a certificate of conformance accompanies all PF burner spares delivered to Matla Power Station.</p> <p>Note. The PF burner spares will be rejected should the contractor fails to provide a certificate of conformance.</p>		HOLD	CONTRACTOR
c	<p>The pulverized fuel (PF) burner spares contractor shall ensure 3.1 material certificates as per EN 10204 accompanies all PF burner spares delivered to Matla Power Station.</p> <p>Note. The PF burner spares will be rejected should the contractor fails to provide suitable material certificates.</p>		HOLD	CONTRACTOR

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d	The pulverized fuel (PF) burner spares contractor is responsible for packaging and transportation of PF burners spares delivered to Matla Power Station.		HOLD	CONTRACTOR
e	The pulverized fuel (PF) burner spares contractor will be informed of the latest outage listing.		HOLD	CONTRACTOR
f	The PF burner spares is required for both planned and unplanned outages on a five (5) year period on an as and when required basis.		HOLD	CONTRACTOR
g	Eskom to be involved prior to the commencement of fabrication of non-standard PF burner spares. The pulverized fuel (PF) burner spares contractor shall ensure all manufacturing QCPs are in place. The pulverized fuel (PF) burner spares contractor shall ensure a complete data book is provided for all fabricated PF burner spares.		HOLD	CONTRACTOR
h	<p>Penalties shall be imposed on the contractor for failure to deliver all PF burner spares mentioned in this scope of work to Matla Power Station within agreed prescribed timeframes.</p> <p>Note. Agreed timeframes of delivery to Matla Power Station of all PF burner spares to be agreed between Eskom and the contractor after contract award.</p>		HOLD	CONTRACTOR

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i Five-year outage listing (22 April 2025)

Outage#	Outage Code	Station	Unit	Planned/Actual Start Time	Planned/Revised End Time	MW Loss	MW Loss Percent	Outage Description	Status	Planned Duration
24410	ML02UMO-25-04-2025	Matla	2	2025/04/25 00:00:00	2025/06/08 23:59:00	575	100	MO	ROLLSCHE	45.00
24428	ML05UGO-03-07-2025	Matla	5	2025/07/03 00:00:00	2025/09/20 23:59:00	575	100	GO	ROLLSCHE	80.00
24404	ML01UIR-12-12-2025	Matla	1	2025/12/12 00:00:00	2025/12/29 23:59:00	575	100	IR	SCHED	18.00
24423	ML04UMO-16-01-2026	Matla	4	2026/01/16 00:00:00	2026/03/01 23:59:00	575	100	MO	ROLLSCHE	45.00
38251	ML03UIR-18-04-2026	Matla	3	2026/04/18 00:00:00	2026/05/05 23:59:00	575	100	IR	ROLLSCHE	18.00
24412	ML02UIR-08-11-2026	Matla	2	2026/11/08 00:00:00	2026/11/25 23:59:00	575	100	IR	SCHED	18.00
24429	ML05UIR-21-03-2027	Matla	5	2027/03/21 00:00:00	2027/04/07 23:59:00	575	100	IR	SCHED	18.00
24405	ML01UGO-13-06-2027	Matla	1	2027/06/13 00:00:00	2027/08/31 23:59:00	575	100	GO	SCHED	80.00
24417	ML03UMO-04-12-2027	Matla	3	2027/12/04 00:00:00	2028/01/17 23:59:00	575	100	MO	SCHED	45.00
24424	ML04UIR-08-12-2027	Matla	4	2027/12/08 00:00:00	2027/12/25 23:59:00	575	100	IR	SCHED	18.00
24434	ML06UMO-04-01-2028	Matla	6	2028/01/04 00:00:00	2028/02/17 23:59:00	575	100	MO	SCHED	45.00
44053	ML06UIR-12-02-2028	Matla	6	2028/02/12 00:00:00	2028/02/29 23:59:00	575	100	IR	SCHED	18.00
38248	ML02UMO-22-05-2028	Matla	2	2028/05/22 00:00:00	2028/07/05 23:59:00	575	100	MO	SCHED	45.00
44059	ML05UMO-08-10-2028	Matla	5	2028/10/08 00:00:00	2028/11/21 23:59:00	575	100	MO	SCHED	45.00
44030	ML01UIR-16-02-2029	Matla	1	2029/02/16 00:00:00	2029/03/05 23:59:00	575	100	IR	SCHED	18.00
44047	ML04UMO-22-06-2029	Matla	4	2029/06/22 00:00:00	2029/08/05 23:59:00	575	100	MO	SCHED	45.00
44054	ML06UMO-01-09-2029	Matla	6	2029/09/01 00:00:00	2029/10/15 23:59:00	575	100	MO	SCHED	45.00
38249	ML02UIR-11-01-2030	Matla	2	2030/01/11 00:00:00	2030/01/28 23:59:00	575	100	IR	SCHED	18.00

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1	The following PF burner spares are required to be delivered on as and when required basis to Matla Power Station:			
1.1	<p>Centre core air tube</p> <p><u>SAP description:</u></p> <p>Pipe, metallic: nominal pipe size designation: OD 197 mm; material: mild steel; length: 3.357 m; wall thickness: 10 mm; end type: flanged one end; open one end; grade: 43A; specification: BS 4360; drawing no: 0.47/58453 rev 0; flanged one end: 8 hole; M18 diameter; PCD 260 mm; thickness 20 mm (flange); AISI 310; length of AISI 310: 500mm; supplier to adhere to Eskom welding rulebook.</p>	<ul style="list-style-type: none"> Stock number: 594027 Drawing: 29.47/ 58453 (Revision 2) Quantity: 510 	Hold	Contractor
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1.2	Wing core air tube <u>SAP description:</u> Pipe, metallic: nominal pipe size designation: OD 197 mm; material: mild steel; length: 3.662 m; wall thickness: 10 mm; end type: flanged one end; open one end; maximum operating temperature: 800°C grade: 43A; specification: BS 4360; drawing no: 0.47/58453 rev 0; flanged one end 8 hole; M18 diameter; PCD 260; thickness 20 mm (flange); AISI 310; length of AISI 310; 500 mm; supplier to adhere to Eskom welding rulebook.	<ul style="list-style-type: none"> • Stock number: 594026 • Drawing: 29.47/ 58453 (Revision 2) • Quantity: 165 	Hold	Contractor
1.3	Centre primary air (PA) tube <u>SAP description:</u> Pipe, metallic: nominal pipe size designation: 624 mm; material: mild steel; length: 2.435 m; wall thickness: 12 mm; end type: flange one end; maximum operating	<ul style="list-style-type: none"> • Stock number: 594028 • Drawing: 0.47/ 50595 • Quantity: 145 	Hold	Contractor

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	temperature: 600°C; grade: 43A; specification: BS 4360; drawing no: 0.47/50595 rev 1; flanged end id 600 mm; open end ID 534 mm; OD 558 mm; pipe is ceramic lined; 32 mm ceramic tiling; material stainless steel ANSI 310 (nozzle); suppliers to adhere to Eskom welding rulebook.			
1.4	<p>Wing primary air (PA) tube</p> <p><u>SAP description:</u></p> <p>Pipe, metallic: nominal pipe size designation: OD 624 mm; material: mild steel; length: 2.74 m; wall thickness: 12 mm; end type: flanged one end; open one end; maximum operating temperature: 600°C; grade: 43A; specification: BS 4360; drawing no: 0.47/50595 rev 1; flanged end ID 600 mm; OD 624 mm; open end ID 534 mm; OD 558 mm; material stainless steel ANSI 310 (nozzle); supplier to adhere to Eskom welding rulebook.</p>	<ul style="list-style-type: none"> • Stock number: 594200 • Drawing: 0.47/ 50595 • Quantity: 72 	Hold	Contractor

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1.5	PF burner elbow <u>SAP description:</u> Elbow: type: burner primary air; for circular; bore: 533 mm.	<ul style="list-style-type: none"> • Stock number: 50964 • Drawing: 0.47/ 28424 (Revision 5) • Quantity: 165 	Hold	Contractor
1.6	PF burner diffuser <u>SAP description:</u> Impeller: type: core air tube; dimensions: diameter 433 mm; material: stainless stell grade HH HRSS W700 ASTM A297 or BS 3100 grade 310; drawing no: Eskom 0.47/50610 rev 1; used on pulverised fuel burner, drawing and specification obtainable from Matla power station boiler plant engineering.	<ul style="list-style-type: none"> • Stock number: 40606 • Drawing: 0.47/50610 • Quantity: 912 	Hold	Contractor
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1.7	Angle wear plate liner <u>SAP description:</u> Plate, wear: dimensions: width 280 x length 533 x thick 40 mm; material: stainless; type: elbow liner; for use on core air burner pulverised fuel.	<ul style="list-style-type: none"> Stock number: 52252 Quantity: 225 	Hold	Contractor
1.8	Air register <u>SAP description:</u> Register, air: dimensions: width 680 mm x length 1.87 m; material: steel; control assembly, clockwise flow	<ul style="list-style-type: none"> Stock number: 50910 Quantity: 30 	Hold	Contractor
1.9	Air register vanes <u>SAP description:</u> Door: type: air register; dimensions: width 280 x length 480 x thick 6 mm; material: stainless steel.	<ul style="list-style-type: none"> Stock number: 28948 Quantity: 3360 	Hold	Contractor

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1.10	Windbox sighting glass <u>SAP description:</u> Glass, sight: dimensions: diameter 215 x thick 6 mm; material: glass heat resistant; colour: clear; armour plated; safety; for windbox on boiler.	<ul style="list-style-type: none"> Stock number: 52254 Quantity: 360 	Hold	Contractor
1.11	PA tube rope gasket (20 mm) <u>SAP description:</u> Packing, bulk: width: 20 mm; thickness: 20 mm; length: 30 m/roll; material: glass fibre; max pressure: 12 KPa; temperature range: 650°C; type: door; shape: square; supplementary part number: 9480; Burgmann style.	<ul style="list-style-type: none"> Stock number: 97417 Quantity: 1800 m 	Hold	Contractor
1.12	PA tube rope gasket (16 mm) <u>SAP description:</u> Packing, bulk: Diameter: 16 mm; length: 30 m; material: glass fibre; type: rope; shape: round; supplementary part number: 9472; Burgmann style.	<ul style="list-style-type: none"> Stock number: 97418 Quantity: 3600 m 	Hold	Contractor

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1.13	Core air tube gasket <u>SAP description:</u> Gasket, precut; dimensions: ID 200 x OD 300 x thick 3 mm; type: flange; material: Klingerite compressed joint 80 sheet; shape: round; PCD: 260 mm; holes: 8; diameter: 18 mm.	<ul style="list-style-type: none"> Stock number: 105790 Quantity: 625 	Hold	Contractor
1.14	PF pipe gasket <u>SAP description:</u> Gasket, precut; dimensions: ID 490 x OD 665 x thick 4 mm; type: universal; material: glass fibre cloth rubber coated; shape: round; PCD: 600 mm; holes: 20 diameter 22 mm; coated on both sides with natural rubber, material to be suitable to withstand temperature of 120°C and a pressure of 20 KPa, maximum of two joints, joints to be on opposite sides and on opposite sealing faces to each other, all joints to be sealed and	<ul style="list-style-type: none"> Stock number: 94066 Quantity: 525 	Hold	Contractor

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	flush with the sealing faces of the gasket, specification of glass fibre cloth and natural rubber to be submitted to Eskom for approval prior to manufacture.			
1.15	Tape sealing gasket <u>SAP description:</u> Tape, thread: type: sealing; width: 40 mm; material: glass fibre reinforced; colour: white; ladder; thick 3 mm.	<ul style="list-style-type: none"> Stock number: 94068 Quantity: 900 m 	Hold	Contractor
1.16	Grease <u>SAP description:</u> Grease, industrial: type: general purpose; temperature rating: 130°C; colour: brown light; container: 18 kg; physical form: semi solid; grade: NLGI 2; trade name: Alvania RL2; supplementary part number: Alvania G2; S2 V100 2; Eskom specification GGSS 0894, lube code GPG-2LKXEP; material safety data sheets with environmental information in the 16 point format to be	<ul style="list-style-type: none"> Stock number: 161535 Quantity: 1300 kg 	Hold	Contractor

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	provided with every delivery as required by the occupational health and safety act.			
1.17	Petal plate retaining ring <u>SAP description:</u> Plate: type: back/ring; dimensions: ID 470 x OD 600 x thick 130 mm; material: stainless steel; application: burner boiler.	<ul style="list-style-type: none"> Stock number: 52302 Quantity: 500 	Hold	Contractor
1.18	Epoxy <u>SAP description:</u> Adhesive: type: tile epoxy; container: can 5 l; reference no: AF11-6; Koldkote, for cementing vinyl tiles to floor, white acrylic water base, material safety data sheets with environmental information in the 16-point format to be provided with every delivery as required by the occupational health and safety act.	<ul style="list-style-type: none"> Stock number: 160221 Quantity: 850 litres 	Hold	Contractor

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1.19	Red silicone <u>SAP description:</u> Compound, sealing: type: gasket; colour: red; container: cartridge 280 ml; material: rubber SI; reference no: RTV 736; high temperature silastic sealant; material safety data sheets with environmental information in the 16-point format to be provided with every delivery as required by the occupational health and safety act.	<ul style="list-style-type: none"> Stock number: 160096 Quantity: 4380 	Hold	Contractor
1.20	Core air tube concentric support (Mild steel) <u>SAP description:</u> Plate: type: square plate; dimensions: diameter 160 x length 340 x thick 10 mm; material: carbon steel; application: pf burner; 3.2 certificate.	<ul style="list-style-type: none"> Stock number: 729187 Quantity: 2000 	Hold	Contractor

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1.21	Core air tube concentric support (Stainless steel) <u>SAP description:</u> Plate: type: square plate; dimensions: diameter 160 x length 340 x thick 10 mm; material: stainless steel; 3.2 certificate.	<ul style="list-style-type: none"> Stock number: 729181 Quantity: 2000 	Hold	Contractor
1.22	RH petal plate <u>SAP description:</u> Plate: type: pedestal 1; dimensions: diameter 498 x length 440 x thick 3 mm; material: SS316; right hand concentric petal; tolerance to be plus minus 0.2 mm; certificate to be supplied upon delivery.	<ul style="list-style-type: none"> Stock number: 731179 Drawing: 13.47/1079 Quantity: 1800 	Hold	Contractor
1.23	RH petal plate with hole <u>SAP description:</u> Plate: type: pedestal 1; dimensions: diameter 498 x length 440 x thick 3 mm; material: SS316; right hand concentric petal with a hole; 3.2 certificate to be	<ul style="list-style-type: none"> Stock number: 731178 Quantity: 288 	Hold	Contractor

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	supplied upon delivery; tolerance to be plus minus 0.2 mm.			
1.24	LH petal plate <u>SAP description:</u> Plate: type: pedestal 1; dimensions: diameter 498 x length 440 x thick 3 mm; material: stainless steel; left hand concentric petal; certificate must be supplied upon delivery; tolerance to be plus minus 0.2 mm.	<ul style="list-style-type: none"> • Stock number: 731132 • Drawing: 13.47/1077 • Quantity: 1800 	Hold	Contractor
1.25	LH petal plate with hole <u>SAP description:</u> Plate: type: pedestal 1; dimensions: diameter 498 x length 440 x thick 3 mm; material: stainless steel; left hand petal with a hole; 3.2 certificate to be supplied upon delivery; tolerance to be plus minus 0.2 mm.	<ul style="list-style-type: none"> • Stock number: 731131 • Quantity: 288 	Hold	Contractor

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1.26	Core air tube liner ceramic tile <u>SAP description:</u> Tile: type: chute; dimensions: width 25 x length 150 x thick 6 mm; material: ceramic alumina high sintered, 90 pct; colour: white; specification: Eskom GGSS 0667; supplementary part number: P22; 1 each = 1 box = 250 tiles.	<ul style="list-style-type: none"> Stock number: 247240 Quantity: 600 boxes 	Hold	Contractor

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5. BILL OF MATERIAL

	Full description of Material/Spares/Equipment	Specifications of Material/Spares/Equipment	Stock No	Part Number	Required Quantity
1	Centre core air tube		594027		510
2	Wing core air tube		594026		165
3	Centre primary air tube		594028		145
4	Wing primary air tube		594200		72
5	PF burner elbow		50964		165
6	PF burner diffuser		40606		912
7	Angle wear plate liner		52252		225
8	Air register		50910		35
9	Air register vanes		28948		3360
10	Windbox sighting glass		52254		360
11	PA tube rope gasket	20 mm	97417		1800 m
12	PA tube rope gasket	16 mm	97418		3600 m
13	Core air tube gasket		105790		625

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14	PF pipe gasket		94066		525
15	Tape sealing gasket		94068		900 m
16	Grease		161535		1300 kg
17	Petal plate retaining ring		52302		500
18	Epoxy		160221		850 litres
19	Red silicone		160096		4380
20	Core air tube concentric support (Mild steel)		729187		2000
21	Core air tube concentric support (Stainless steel)		729181		2000
22	RH petal plate		731179		1800
23	RH petal plate with hole		731178		288
24	LH petal plate		731132		1800
25	LH petal plate with hole		731131		288
26	Core air tube liner ceramic tile		247240		600 boxes

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SCOPE COMPILATION REFERENCES				
SOURCE & Ref No.	Yes	No	N/A	Comments
Previous outage service reports	X			
Return to service data packages	X			
Maintenance Strategy with Rev number	X			
SAP defects (attach list as appendix)	X			
GHRMS (STEP) reports (Generation Heat Rate Management System)	X			
Online Condition Monitoring		X		
Pre-outage performance test results		X		
Post outage performance test results		X		
GPSS/ Plant Performance data on UCLF incurred		X		
OMS / IIRMS recommendations (Audits Reports)		X		
Risk controls (IRM system)	X			
Previous audits and reviews (e.g. ERAP)		X		
Engineering Change Requests (Projects)		X		
LOPP strategy reports		X		
URS	X			

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Philosophy (Outage)	X			
Condition Monitoring Report		X		
VA/PHD Viewer trends		X		
Corrective Actions	X			
CARAB reports		X		
Statutory Requirements	X			
Grid code requirements		X		
Waivers and Exemptions		X		
Calibration requirements		X		
Previous Outage SOW variations	X			
Post Mortems Actions from previous outages	X			
Pre-Outage plant walks	X			
Risk based inspection (RBI) report		X		
Simulation, TOIs, OON, SI	X			

COMMENTS

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ATTACHMENTS: DRAWINGS, SKETCHES, DIAGRAMS, INSTRUCTIONS, etc	
1	29.47/ 58453 (Revision 2) - Core air tube
2	0.47/ 50595 - Primary air tube
3	0.47/50610 - PF burner diffuser
4	13.47/1079 - RH petal plate
5	13.47/1077 - LH petal plate

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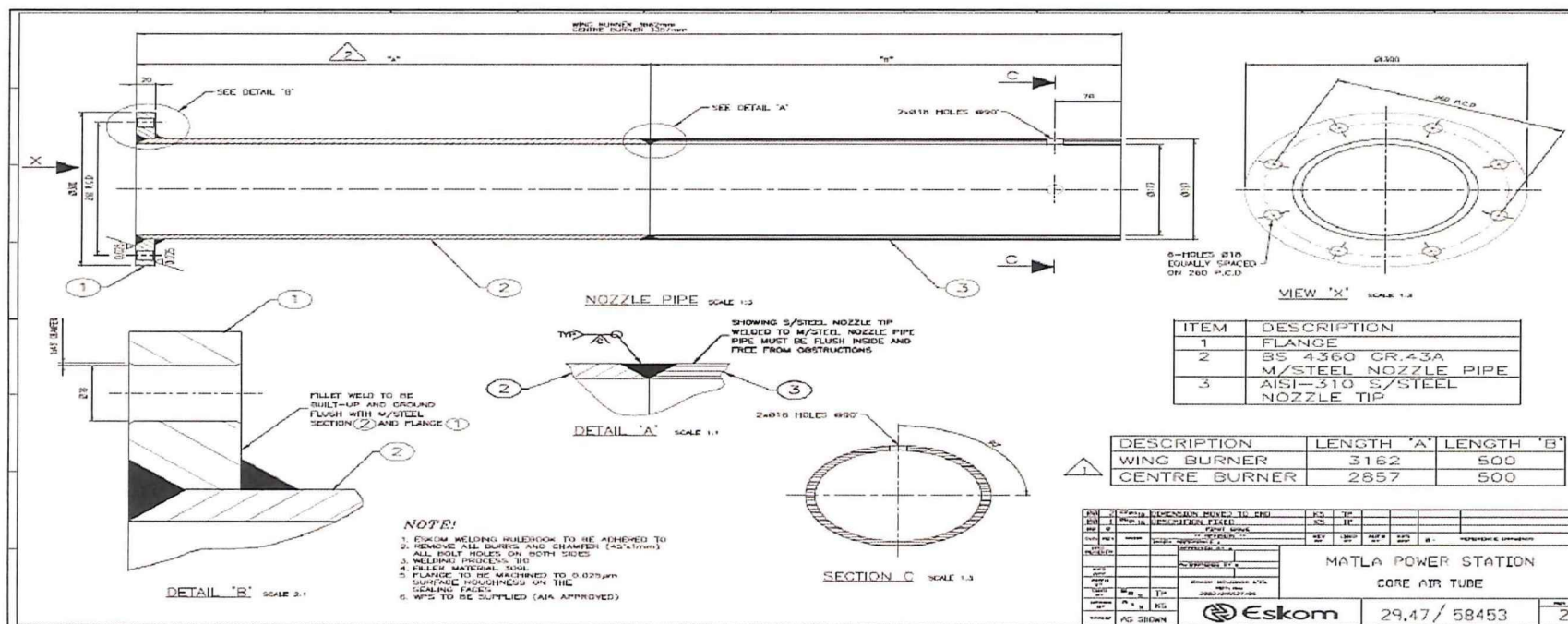


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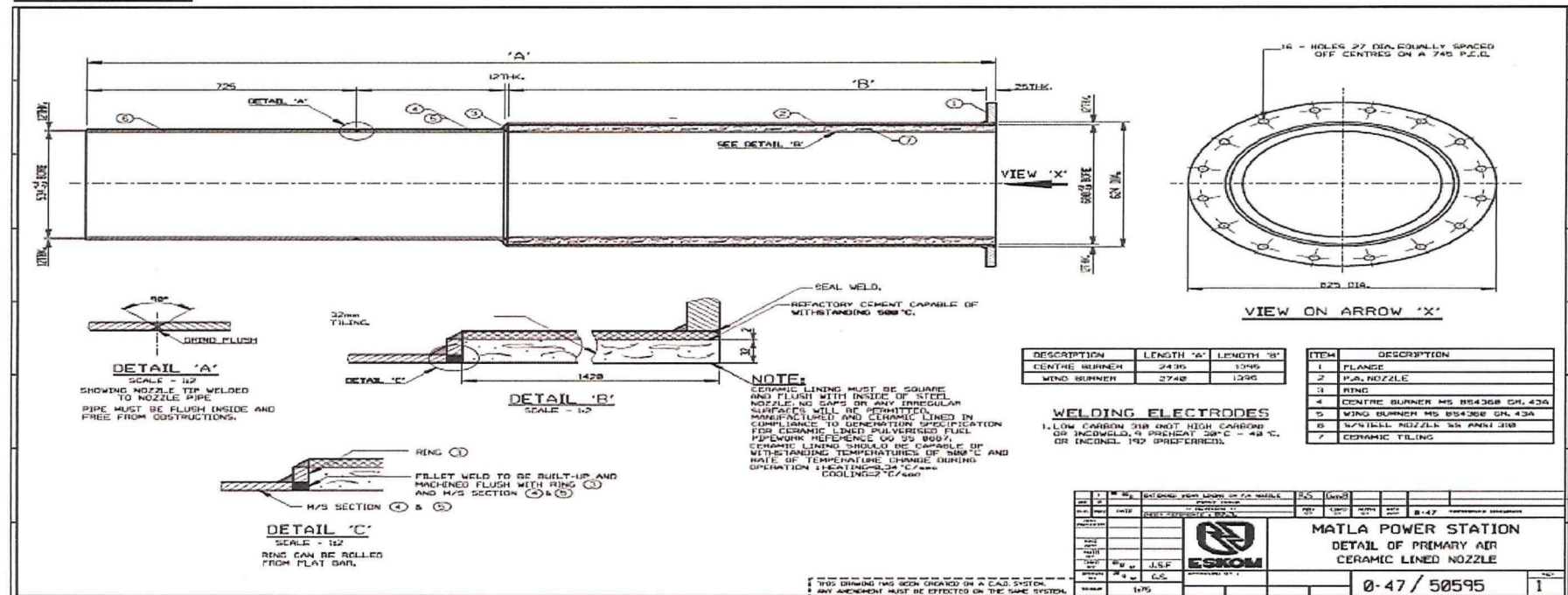
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Primary Air Tube:



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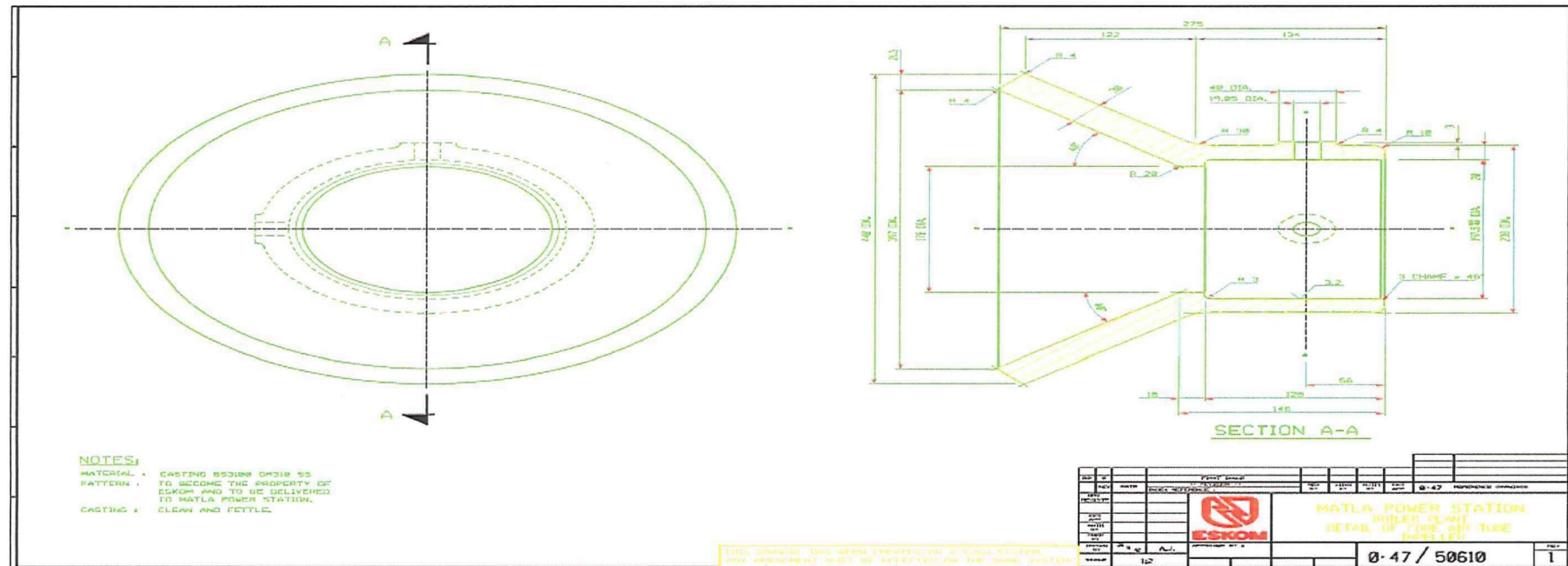


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PF Burner Diffuser:



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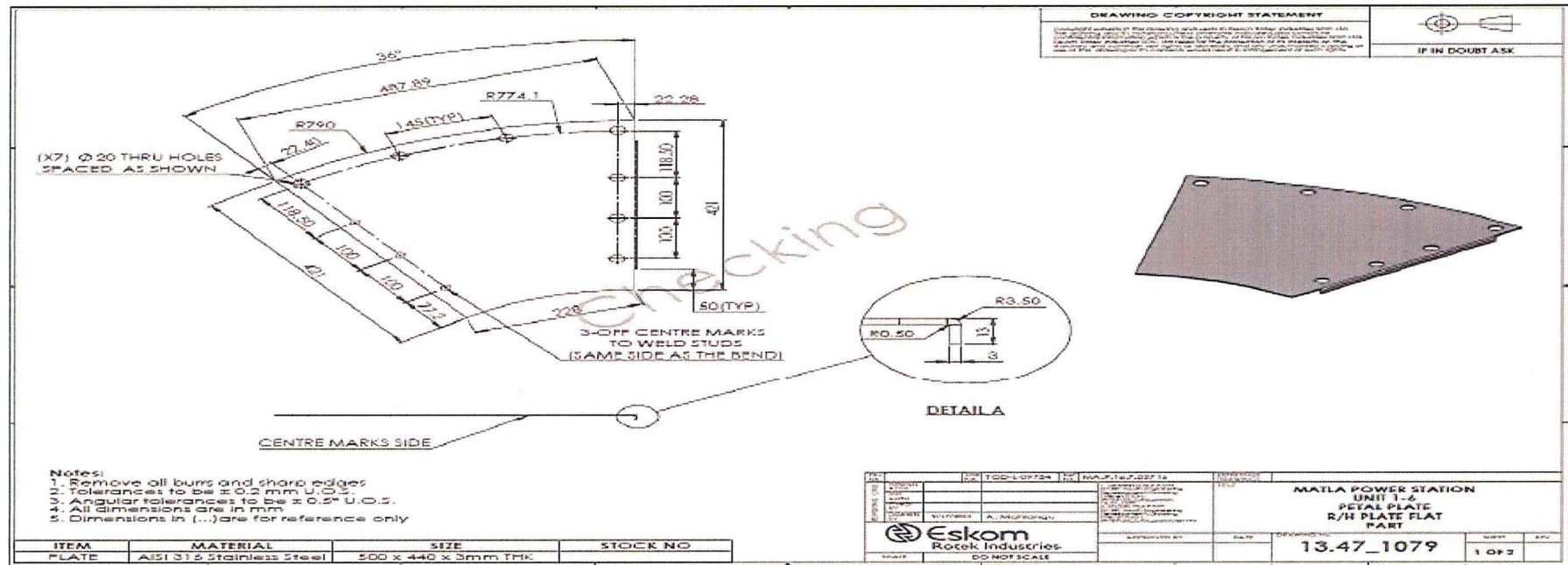


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RH Petal Plate:



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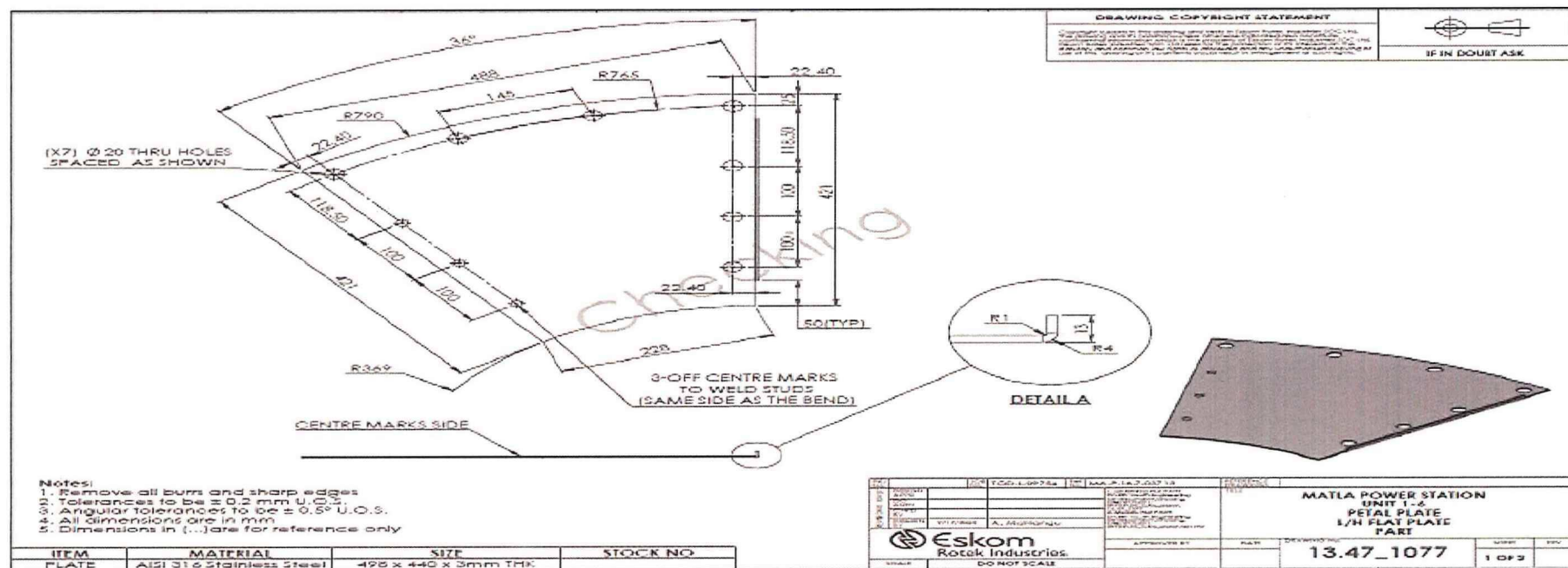
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LH Petal Plate:



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