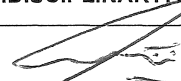
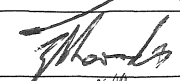

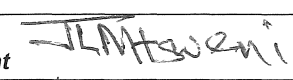



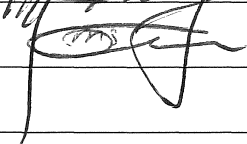

 Eskom	MATLA POWER STATION SCOPE OF WORK	Document Identifier	14593	Rev	6	
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PLANT AREA: MATLA POWER STATION					
TITLE: CONTRACT SCOPE FOR REFURBISHMENT AND TREVI-TESTING OF TURBINE SAFETY AND RELIEF VALVES AS AND WHEN REQUIRED FOR A PERIOD OF 5 YEARS.					
REF: 053892		Reference Rev No: 02		MULTIDISCIPLINARY: NO	
				Plant Level: All	
COMPILED BY	Name: Hlavutelo Nkwinika Systems Engineer/End User	Signature:		Date:	11/10/2023
APPROVED	Name: Zain Karodia Line Manager	Signature:		Date:	11/10/2023
APPROVED	Name: Lindokuhle Ngobese Group Manager	Signature:		Date:	13/10/2023
REVIEWED	Name:  Quality Department	Signature:		Date:	12/10/23.
REVIEWED	Name:  Occupational Health and Safety	Signature:		Date:	18/10/2023
REVIEWED	Name: Mankhwela Ramaboea Environmental Department	Signature:		Date:	12.10.2023
ACCEPTED	Name: Outage Manager/Maintenance manager	Signature:		Date:	
ACCEPTED	Name: AIA	Signature:		Date:	

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NB: Do not tamper with the template.

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

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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 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. 	Eskom to witness.	Contractor
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 	Hold point	Contractor

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		<ul style="list-style-type: none"> 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 		
1.4	Inputs from other departments			
1.5	Commissioning reference			

	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
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1.	Ensure permit is applied before pressure testing or striping of valve Turbine Safety Valves.		H	Contractor and Outage Coordinator
2.	Contractor to confirm outage coordinator has arranged for scaffoldings for all safety valve to be pressure tested or maintained.		H	Contractor and Outage Coordinator
3.	Contractor is to perform spring test and submit report for each of the valve springs.		H	
4.	Contractor is to perform Trevi-Test during plant/system operation and provide certificates. The caps shall be sealed after boxing up.		H	Contractor
5.	Contractor to submit QCP for approval prior to pressure-testing or refurbishment of valve		H	
6.	Information on set/lifting pressure is included in the scope. Consult engineering in case of any uncertainties.		H	Contractor

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7.	Contractor shall supply all spares listed under bill of materials as and when required.		H	Contractor
8.	All Trevi-Tests done by contractor are to be witnessed by Eskom Engineering and AIA.			Engineering, AIA and Contractor
9.	<u>During inspection and refurbishment of safety valve(s) contractor is to strip open valve(s), clean and visually inspect for:</u> <ul style="list-style-type: none"> • Score marks on the spindle, disc and body seats • Pitting on the spindle disc and body seats • Washing of disc and body seats • Corrosion spindle, discs and body seats • Bent shaft • Damaged spindle threads and nuts • Clearance on guides and sliding parts • Damages stem/disc connector blocks • Sterllite thickness of valve parts where possible • Replace gaskets on valve connection • Note : Laggings will have to be removed on some of the valves before they can be stripped 		H	Contractor

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	<ul style="list-style-type: none"> Blue and lap all defective/passing valves <p>If the repairs is to be done by subcontractor, Outage must be informed and the subcontractor must be approved by Eskom.</p> <p>Should any of the above be discovered, engineering to be notified for intervention</p>			
10.	Contractor to submit reports for all defects discovered upon inspection safety valve		H	Contractor

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#	Alpha numeric	Qty.	Type	NB (mm)	PN (Bar)	Material	Drive	Make	SOW	Test pressure & Location
1	<u>RL10S006</u> VSE2.500-40A 65-II-2.2 110	1	Safety	40/65	500	13CrMo44/C22N	Spring	Sempell	Test & Refurbish	Test pressure = 33.5 MPa Location: Between HP HTR 5A & 6A (3m Level)
2	<u>RL10S007</u> VSE2-500-40A 65-II-2.2 110	1	Safety	40/65	500	13CrMo44/C22N	Spring	Sempell	Test & Refurbish	Test pressure = 33.5 MPa Location: Between HP HTR 5A & 6A (3m Level)
3	<u>RL20S006</u> VSE 2.500-40A 65-II-2.2 110	1	Safety	40/65	500	13CrMo44/C22N	Spring	Sempell	Test & Refurbish	Test pressure = 33.5 MPa Location: Between HP HTR 5B & 6B (3m Level)
4	<u>RL20S007</u> VSE2-500-40A 65-II-2.2 110	1	Safety	40/65	500	13CrMo44/C22N	Spring	Sempell	Test & Refurbish	Test pressure = 33.5 MPa Location: Between HP HTR 5B & 6B (3m Level)
5	<u>RF61S002</u> VSR5-100- 65g100-II-5.2- 123	1	Safety	65/100	100	15Mo3/C22N	Spring	Sempell	Test & Refurbish	Test Pressure = 4.5 MPa Location: Safety valve on the steam side HP HTR 6A
6	<u>RF62S002</u>	1	Safety	65/100	100	15Mo3/C22N	Spring	Sempell	Test & Refurbish	Test Pressure = 4.5 MPa Location: Safety valve on the steam side

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	VSR5-100-65g100-II-5.2-123									HP HTR 6B.
7	<u>RF51S002</u> VSE5-40-125M-200-II-5.3	1	Safety	125/200	40	15Mo3/13CrMo44	Spring	Sempell	Refurbish	Test Pressure = 2 MPa Location: Safety valve on HP HTR 5A steam side
8	<u>RF52S002</u> VSE5-40-125M200-II-5.3	1	Safety	125/200	40	15Mo3/13CrMo44	Spring	Sempell	Test & Refurbish	Test Pressure = 2 MPa Location: Safety valve on HP HTR 5B steam side.
9	<u>RH30S009</u> VSR2-25-50E80-I-2.2-123	1	Safety	50/80	25/40	St35/C22.8	Spring	Sempell	Test & Refurbish	Test Pressure = 0.7 MPa Location: LP Htr 3
10	<u>RH40S004</u> VSE2-25-350U400-I-2.2	1	Safety	350/400	25/10	HIII/C22N	Spring	Sempell	Test & Refurbish	Test Pressure = 1.1 MPa Location: DST
11	<u>RH40S008</u> VSE5-25-250S300-I-5.2	1	Safety	250/300	25/10	St35.8/C22.8	Spring	Sempell	Test & Refurbish	Test Pressure = 1.1 MPa Location: DST
12	<u>RH40S014</u>	1	Safety	350/400	25	H III/C22N	Spring	Sempell	Test &	Test Pressure = 1.1 MPa

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	VSE2-25-350U400-I-2.2								Refurbish	Location: DST
13	<u>RH40S018</u> VSE5-25-250S300-I-5.2	1	Safety	250/300	25/10	St35.8/C22	Spring	Sempell	Test & Refurbish	Test Pressure = 1.1 MPa Location: DST
14	<u>RM00S007</u> VSE2-40 25A 40-I-2.2	1	Safety	25/40	40	C 22.8	Spring	Sempell	Test & Refurbish	Test Pressure = 3 MPa Location: LP HTR 1
15	<u>RM00S010</u> VSE 2.40 25A 40-I-2.2	1	Safety	25/40	40	C 22.8	Spring	Sempell	Test & Refurbish	Test Pressure = 3 MPa Location: LP HTR 2
16	<u>RM00S013</u> VSE 2.40-25A 40-I-2.2	1	Safety	25/40	40	C 22.8	Spring	Sempell	Test & Refurbish	Test Pressure = 3 MPa Location: LP HTR 3
17	<u>RM00S039</u> Si 2502	1	Safety	25	40	ST35/C22	Spring	-	Test & Refurbish	Test Pressure = 1.4 MPa Location: Gland steam condenser
18	<u>RM70S008</u>	1	Safety	25	40		Spring	-	Test &	Test Pressure = 1.4 MPa

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	<u>RQ00S001</u>								Refurbish	Location: Vapour steam condenser
19	VSE5-40-200R250-II-5.2	1	Safety	200/250	40	HIII/C22N	Spring	Sempell	Test & Refurbish	Test pressure = 1.5 MPa Location: Behind Aux Steam header
	<u>SA11S550</u>									
20	VSE5 40-65H 125-I-5.2	1	Safety	65	40	St38.5/C22N	Spring	Sempell	Test & Refurbish	Test Pressure = 2.15 MPa Location: IP case warming line from Aux steam header
	<u>SG20S703</u>									
21	RK 46	1	Safety	250	16	-	Spring		Test & Refurbish	Gland Steam Pipe (Consult engineering) Location: 4.5 ml near flashbox 4 & 5
	<u>SO10S550</u>									
22	VSE5-25-25A40-I-5.2	1	Safety	25	40	-	Spring	Sempell	Test & Refurbish	Test Pressure = 1 MPa Location: 9.5 ml
	<u>UG53S004</u>									
23	VSE2-40-25A40-I-2.2	1	Safety	25	40	10CrNiNb189	Spring	Sempell	Test & Refurbish	Test Pressure = 1 MPa Location: Make up water heater
	<u>SK00S004</u>									
24	-	1	Safety				Spring	Sempell	Test & Refurbish	Turbine control air receiver Test Pressure = 0.7 MPa Location:
25	SG21S720	1	Relief	300	6	St37.2/St35.8	-	MAN	Test &	Vapour Steam

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			valve					Refurbish	(Consult engineering) Location: 9.5 ml
26	<u>SC17S109</u> -	1	Relief valve	100/50	40/16		Spring	-	Test & Refurbish MOT safety valve (Consult engineering) Location: 16ml below the floor
27	<u>ST10S165</u> -	1	Relief valve	12.5/12.5	3.5/3.5		Spring	-	Test & Refurbish Test Pressure = 0.45 MPa and close at 0.42 MPa Location: H2 unit plant safety valve, at 0 ml
28	<u>SU10S187</u>	1	Relief valve	32/50				Brass Sergot	Test & Refurbish 2 nd stage emergency system Test Pressure = 1 MPa Location: Below 0 ml near CEP

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BILL OF MATERIAL

	Full description of Material/Spares/Equipment	Specifications of Material/Spares/Equipment	Stock No	Part Number	Required Quantity

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#	MATERIAL	Quantity.	Description	Stock number	Spares	
1	RL10S006	1	<u>VSE2.500-40A65-II-2.2 110</u> Size=40/65 Design pressure= PN500	0074619	12 off for each item listed in the drawings	Refer to attached drawings
2	RL10S007	1	<u>VSE 2.500-40A65-II-2.2 110</u> Size=40/65 Design pressure= PN500	0074619	12 off for each item listed in the drawings	Refer to attached drawings
3	RL20S006	1	<u>VSE 2.500-40A 65-II-2.2 110</u> Size=40/65 Design pressure= PN500	0074619	12 off for each item listed in the drawings	Refer to attached drawings
4	RL20S007	1	<u>VSE 2.500-40A65-II-2.2 110</u> Size=40/65 Design pressure= PN500	0074619	12 off for each item listed in the drawings	Refer to attached drawings
5	RF61S002	1	<u>VSR5-100-65g100-II-5.2-123</u> Size=65/100 Design pressure= PN100	249685	12 off for each item listed in the drawings	Refer to attached drawings
6	RF62S002	1	<u>VSR5-100-65g100-II-5.2-123</u> Size=65/100 Design pressure= PN100	249685	12 off for each item listed in the drawings	Refer to attached drawings
7	RF51S002	1	<u>VSE5-40-125M-200-II-5.3</u> Size=125/200 Design pressure= PN40	249684	12 off for each item listed in the drawings	Refer to attached drawings

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8	RF52S002	1	<u>VSE5-40-125M200-II-5.3</u> Size=125/200 Design pressure= PN40	249684	12 off for each item listed in the drawings	Refer to attached drawings
9	RH30S009	1	<u>VSR2-25-50E80-I-2.2-123</u> Size=50/80 Design pressure= PN25/40	249688	12 off for each item listed in the drawings	Refer to attached drawings
10	RH40S004	1	<u>VSE2-25-350U400-I-2.2</u> Size=350/400 Design pressure= PN25/10		12 off for each item listed in the drawings	Refer to attached drawings
11	RH40S008	1	<u>VSE5-25-250S300-I-5.2</u> Size=250/300 Design pressure= PN25/10		12 off for each item listed in the drawings	Refer to attached drawings
12	RH40S014	1	<u>VSE2-25-350U400-I-2.2</u> Size=350/400 Design pressure= PN25		12 off for each item listed in the drawings	Refer to attached drawings
13	RH40S018	1	<u>VSE5-25-250S300-I-5.2</u> Size=250/300 Design pressure= PN25/10		12 off for each item listed in the drawings	Refer to attached drawings
14	RM00S007	1	<u>VSE 2.40 25A 40-I-2.2</u> Size=25/40 Design pressure= PN40		12 off for each item listed in the drawings	Refer to attached drawings
15	RM00S010	1	<u>VSE 2.40 25A 40-I-2.2</u> Size=25/40 Design pressure= PN40		12 off for each item listed in the drawings	Refer to attached drawings

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16	RM00S013	1	<u>VSE 2.40-25A 40-I-2.2</u> Size=25/40 Design pressure= PN40	12 off for each item listed in the drawings	Refer to attached drawings
17	RM00S039	1	Si 2502 Size=25 Design pressure= PN40	12 off for each item listed in the drawings	Refer to attached drawings
18	RM70S008	1	Size=25 Design pressure= PN 40	12 off for each item listed in the drawings	Refer to attached drawings
19	RQ00S001	1	<u>VSE5-40-200R250-II-5.2</u> Size=200/250 Design pressure= PN40	12 off for each item listed in the drawings	Refer to attached drawings
20	SA11S550	1	<u>VSE 5 40-65H 125-I-5.2</u> Size=65 Design pressure= PN40	12 off for each item listed in the drawings	Refer to attached drawings
21	SG20S703	1	RK 46 Size=250 Design pressure= PN16	12 off for each item listed in the drawings	Refer to attached drawings
22	SO10S550	1	<u>VSE5-25-25A40-I-5.2</u> Size=25/25 Design pressure= PN40	12 off for each item listed in the drawings	Refer to attached drawings
23	UG53S004	1	<u>VSE2-40-25A40-I-2.2</u> Size=25 Design pressure= PN40	12 off for each item listed in the drawings	Refer to attached drawings

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24	SK00S004	1			12 off for each item listed in the drawings	Refer to attached drawings
25	SG21S720	1	Size=300 Design pressure= PN6		12 off for each item listed in the drawings	Refer to attached drawings
26	SC17S109	1	Size=100/50 Design pressure= PN40/16		12 off for each item listed in the drawings	Refer to attached drawings
27	ST10S165	1	Size=12.5/12.5 Design pressure=PN3.5/3.5		12 off for each item listed in the drawings	Refer to attached drawings
28	SU10S187	1			12 off for each item listed in the drawings	Refer to attached drawings

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

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

COMMENTS

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ATTACHMENTS: DRAWINGS, SKETCHES, DIAGRAMS, INSTRUCTIONS, etc	
1	Refer to attached sheets below for reference of spares for safety valves 1. TO 272.01.890 E 2. TO 272.02.890 E 3. TO 273.01.890 E 4. TO 273.02.890 E
2	
3	

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