



MATLA POWER STATION
SCOPE OF WORK

Template Identifier	240-43921898	Rev	6
Document Identifier	14593	Rev	4
Effective Date	04 September 2019		
Review Date	September 2023		

PLANT AREA: Matla Cooling Towers

TITLE: Turbine Cooling Towers Maintenance and Cleaning Contract Scope

REF: MET-053717

Reference Rev No: 0

MULTIDISCIPLINARY No

Plant Level: 1

COMPILED BY	Name: Thandeka Mkhonza Systems Engineer	Signature		Date	2023/06/07
APPROVED	Name: Zam Karodia Turbine Engineering Manager	Signature		Date	07/06/2023
APPROVED	Name: Lindo Ngobese Engineering Manager	Signature		Date	08/06/2023
REVIEWED	Name: Dorah Mkhonto Quality Department	Signature		Date	20/06/2023
REVIEWED	Name: Mfundo Dapane Environmental Department	Signature		Date	23/06/2023
ACCEPTED	Name: Twadi Dasi Outage Manager	Signature		Date	16.08.2023
ACCEPTED	Name: AIA	Signature		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	Safety	<ul style="list-style-type: none"> • All work is to be done in accordance with Matla plant procedures and safety regulations (GGR 0992) • Matla power station induction must be done before any work commences • Permit to work must be in place before any work commences • Worker's register must be completed and daily risk assessment conducted before any work commences 	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 Regulation 982,983,984 & 985(2014), must have 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 	Eskom to witness	Contractor

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		<p>procedures to ensure the prevention of pollution (OMOP 4090)</p> <ul style="list-style-type: none"> The last payment will be processed based on the status of the last housekeeping check sheet (Annexure G OMOP 4018) 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
1.4	Inputs from other departments			
1.5	Commissioning reference			

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DETAILED SCOPE

- This scope will cover 3 sections, cooling towers 1-6 as well as the six diesel generators cooling towers
- Each natural draft cooling tower will be made available for 16 days for a full scope execution.
- The diesel generators cooling towers will be attended to separately, during unit outages

1.0 SOUTH COOLING TOWER (TOWER 1-3)

- Each cooling tower will be made available for 10 days for a full scope execution. The contractor must make provision to service all 3 towers annually.
- Provision to be made for an annual 3 day inspection and minor repairs and flushing for each tower.

Cooling Tower Specifications:


<i>Fill type</i>	<i>Poly grid</i>
<i>Drift eliminator material</i>	<i>Asbestos and PVC</i>

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Number of End Caps 140
Internal Pond diameter 107.1m
Pond capacity 14 400m³
Nozzle sprayer type Up sprayer
Number of Nozzles 1600

DETAILED SCOPE

#	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
This scope must be executed on each tower				
1	Inspect the cooling tower internals visually and report defects if necessary	Engineering to be present.	H	Contractor/Eng
2	The contractor will be responsible for drawing up all cleaning method statements or procedures and this must be approved by engineering before commencing with the work	Submit cleaning method statement or procedure tender returnable to technical evaluations The contractor to indicate of ownership of cleaning equipment From this method statement a systematic cleaning procedure must be defined so that cleaning work can	H	Contractor

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		be checked and verified during the outage		
3	Clean falling algae on top of drift eliminators and provision for high pressure cleaning of drift eliminators This must be a maximum Pressure - 350 kPa.	All debris to be removed from site to ash dams	W	Contractor
4	Drain the pond with an estimated capacity of 14 400 m ³ Clean the pond and the inlet launder of all mud and debris Note: All sludge, mud and scale must be removed from the pond and disposed at an approved dumping site by using the necessary equipment	<ul style="list-style-type: none"> The pond is to be drained within 24 hours of tower isolation Water will be pumped to adjacent tower pond Supply pump and hoses to drain the pond No water should be present in the pond to allow the contractor to start cleaning Make provision to drain ponds continuously from the inlet sump, using an electrical submersible pump. A 400V power supply is available 	H	Ops/Outages/ MMD/Contract or
5.	Clean the diametric ducts	<ul style="list-style-type: none"> A 20l/s submersible pump must be provided for to keep the duct drained in event of the isolating 	W	Contractor

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		valve is passing. <ul style="list-style-type: none"> High pressure clean the duct at 400-450 bar Submit cleaning method statement and procedure as tender returnable to technical evaluations. Submit technical details of pump and nozzles as proof of cleaning capability 		
6	Clean, replace missing or damaged nozzles and unblock the blocked nozzles.	<ul style="list-style-type: none"> An estimated amount of 300 nozzles per tower to be replaced. Free issue from Eskom Estimate 1300 nozzles to be <u>cleaned</u> per tower Submit cleaning method statement or procedure as tender returnable for technical evaluations. Nozzles to be free of scaling on completion 	W	Contractor/ Outages
7.	Any pipe nozzle fitting that is damaged to the point where a nozzle can no longer be screwed into the pipe must be replaced with a saddle type nozzle which must be secured to the distribution pipe	<ul style="list-style-type: none"> Submit saddle nozzle data sheet and design for approval If the nozzle cannot be fitted into the existing pipe a rubber/plastic insert must be strapped 	H	Contractor

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		into the hole			
8	Provision to replace 40 end caps per tower	Type	butterfly with rubber on the blade	H	Contractor
		Handle	Stainless steel		
		Blade diameter	150 mm		
		End cap size	200/12 mm		
		Length of end cap valve	200 mm		
		<ul style="list-style-type: none">• Submit all material data• This end cap valve will fit at the end of a 150 NB pipe by slipping over a 200 mm long 200 NB collar• NB! Any other end cap design must be submitted as a tender returnable and must be			

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		approved by Eskom Engineering		
9	High pressure cleaning the distribution pipes	<ul style="list-style-type: none"> Pressure to be between 400 -450 bar 140 pipes in total, refer to attached drawing 047-14602 for distribution layout The contractor will be responsible for drawing up all cleaning method statement or procedure and this must be approved by engineering before commencing with the work. Submit cleaning method statement and procedure as tender returnable to technical evaluations Submit technical details of pump and nozzles that will be used as proof of cleaning capability 	H	Contractor
10.	Provision to repair/replace 150m ² of horizontal virgin polypropylene grid splash pack per tower	<ul style="list-style-type: none"> Grid Dimension:915 x 915 x 32mm Material Virgin Polypropylene Frontal surface area to be 20% of total grid Submit grid material data Supply corner supports to fix grids, refer to 	H	Contractor

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		<p>attached drawing 047-57431</p> <ul style="list-style-type: none"> Only 304 stainless steel wiring will be approved for hanging replacement 																							
11	Splash packing must be cleaned from the top and/or the bottom	<ul style="list-style-type: none"> No algae/ dirt to be left of grids 	W	Contractor																					
12.	Make provision for supply and install the following sizes of stainless steel clamps for any leaks on piping	<ul style="list-style-type: none"> 6 x 154 2mm 304 stainless steel 6 x 203.2mm 304 stainless steel 6 x 254 4 mm 304 stainless steel 6 x 304 8mm 304 stainless steel Submit technical data sheets for steel used Submit method statement of repair 	W	Contractor																					
13	Make provision for supplying and installing the following piping replacing the replacement PVC piping and couple to installed piping	<table border="1"> <thead> <tr> <th>Length</th> <th>NB(mm)</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>250</td> <td>150</td> <td></td> </tr> <tr> <td>150</td> <td>200</td> <td></td> </tr> <tr> <td>150</td> <td>250</td> <td></td> </tr> <tr> <td>150</td> <td>300</td> <td></td> </tr> <tr> <td>150</td> <td>350</td> <td></td> </tr> <tr> <td>150</td> <td>400</td> <td></td> </tr> </tbody> </table> <ul style="list-style-type: none"> All nozzles openings to be cut in replacement 	Length	NB(mm)	W	250	150		150	200		150	250		150	300		150	350		150	400			Contractor
Length	NB(mm)	W																							
250	150																								
150	200																								
150	250																								
150	300																								
150	350																								
150	400																								

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		<p>pipng Refer to attached drawing 047/4602 for piping and nozzle layout.</p> <ul style="list-style-type: none">All piping to be according to SANS 966, Class 4Clamping/coupling of the pipe to be in accordance with SANS 721 approved by engineering		
14.	Provide PVC sheets for covering the gap between drift eliminator support structure and diametral walkway	<ul style="list-style-type: none">Dimension. 1200mm long x 70 mm high x 5mm thick 304 stainless steelTotal length per tower, 160mMake provision for 2 full replacements over the 5 years	W	Contractor
15	Provision to replace 250 m ² drift eliminators	<ul style="list-style-type: none">Drift Material UV inhibited PVC,Effective span 2.5 mHigh efficiency < 0.002 %Strength test certificates to be provided, eliminator specification must be made available.Sample to be approved prior to installation by engineering	W	Contractor

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16	Provision to disposable area $\pm 200 \text{ m}^3$ asbestos at an approved asbestos dump site	<ul style="list-style-type: none">• Submit a disposal certificate to Matla Environmental Department• Asbestos to be kept in marked bins in a demarcated area• Adhere to Eskom procedures 32-303 and 32-245, and OHSAct 85, Asbestos Regulations, GNR 155	H	Contractor
17	Provision to Replace handrails and gratings	<ul style="list-style-type: none">• Grating and rails to be of stainless steel or GRP/ FRP• Grating to have a minimum load rating of 300 kg/m^2• Submit material certificates• See attached drawings 0 47-04317-2-1 and 0 47-04313-0-2 for reference• Final measurements to be taken at the tower• All welds to be dye pen tested as per 240-83540088 Requirements for Non-Destructive Testing (NDT) on Eskom Plant Standard	H	Contractor
18	Clean the pond of all debris	<ul style="list-style-type: none">• Debris to be removed from site to disposal area at the ash dam	H	Contractor

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19	Ensure all distribution valves are in the fully open position and secured prior to re-commissioning	<ul style="list-style-type: none"> Replace any missing locking pins with Stainless steel M10 x 55mm long stainless steel studs 	H	Contractor
20	Place shade netting under the endcaps and flush the tower prior to placing it back in service	<ul style="list-style-type: none"> Close end caps after flushing Engineering or QC to witness all end caps are closed prior clearing the PTW 	H	Ops/Contractor
21	Final inspection	<ul style="list-style-type: none"> Engineering to be present 	H	Contractor
22	All material certificates/data sheets requested in this scope to be submitted in a single data pack to Engineering		R	Contractor

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Bill of Materials Towers 1-3, for 5 years

	Full description Material/Spares/Equipment	Specifications of Material/Spares/Equipment	Stock No	Part Number	Required Quantity
1	Splash grids	Refer to scope	-	-	2295 m ²
2	Hanging wire	304 stainless steel			1200 m
3	Locking wire corner supports	Refer to drawing 047-57431			2745 m
4	Drift eliminators	Refer to scope			4200 m ²
5	Stainless steel sheets	304 stainless steel, refer to scope			960 m
6	End Caps	Refer to scope			600
7	150 NB PVC pipe	Refer to scope			250 m
8	200 NB PVC pipe	Refer to scope			150m
9	250 NB PVC pipe	Refer to scope			150m
10	300 NB PVC pipe	Refer to scope			150m

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11	350 NB PVC pipe	Refer to scope			150m
12	400 NB PVC pipe	Refer to scope			150m
13	154 2mm clamps	304 stainless steel			90
14	203 2mm clamps	304 stainless steel			90
15	254 4 mm clamps	304 stainless steel			90
16	304 8mm clamps	304 stainless steel			90
17	355 6 mm clamps	304 stainless steel			90
18	150NB to 200NB coupling	Refer to scope			30
19	200NB to 250 NB coupling	Refer to scope			30
20	250NB to 300NB coupling	Refer to scope			30
21	300NB to 350NB coupling	Refer to scope			30
22	350NB to 400NB coupling	Refer to scope			30
23	Saddle nozzles	Refer to scope			600
24	Steel works	Refer to attached drawings and scope			1 x Full replacement on all steel works

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					per tower
25	Valve spindle locking studs	M10 x 55m long 304 stainless steel			30

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2. NORTH (TOWERS 4,5,6) COOLING TOWER SPECIFICATIONS

Fill type *Brentwood HTP 25 – Vertical Fluted*

Drift eliminator material *Asbestos and PVC*

Number of End Caps *172*

Internal Pond diameter *94 7m*

Pond capacity *12 350m³*

Nozzle sprayer type *Down sprayer*

Number of Nozzles *5800*

#	SCOPE OF WORK DESCRIPTION / ACTIVITY	PROCEDURE, SPECIFICATION, ENG. REQUIREMENTS / DOCUMENTATION	HOLD POINTS, WITNESS, REPORTS	RESPONSIBLE PARTY
SCOPE TO BE EXECUTED ON EACH TOWER DURING THE OUTAGE				
	Isolate the relevant cooling tower and obtain a Permit-To-Work (PTW)			OPS
23	Decommissioning of old equipment / plant items etc	Revoke PTW once work is complete. De-isolate Cooling water system and leave the plant	S	OPS/MMD

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		standby -OMOP 4360		
24.	FIRST AND FINAL INSPECTION SHOULD BE DONE WITH ENGINEERING - Inspect the cooling tower internals visually and repair if necessary	Engineering to be present	H	Contractor/Eng
25	The contractor will be responsible for drawing up all cleaning method statements or procedures and this must be approved by engineering before commencing with the work	<ul style="list-style-type: none"> Submit cleaning method statement or procedure so that cleaning work can be checked and verified during the outage Progress must be tracked in the form of a one pager report with the latest progress on the cleaning activities Report number of defective drift eliminators, distribution pipes, nozzles, end-caps, distribution pipe isolating valves (if applicable), concrete supports and fill sections in a tabular format by referring to the area map attached (drawing 0.47/22227 rev1) The contractor to indicate ownership of cleaning equipment 	H	Contractor
26	All asbestos and other debris removed from the tower must be temporarily stored in a demarcated area Dispose the asbestos from site at the end of the maintenance activities at an approved asbestos dump	<ul style="list-style-type: none"> Submit a disposal certificate to Matla Environmental Department Asbestos to be kept in marked bins in a demarcated area 	H	Contractor

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	site Other debris to be disposed as agreed on site.	<ul style="list-style-type: none"> Adhere to Eskom procedures 32-303 and 32-245, and OHSAct 85, Asbestos Regulations, GNR 155 		
The following maintenance items are applicable to all the cooling towers unless specified otherwise. These activities must be completed sequentially.				
	Ponds			
5.1	Drain the pond with an estimated an estimated volume of 12 350 m ³	<ul style="list-style-type: none"> The Pond is to be drained within 24 hrs Water will be pumped to adjacent tower pond Make provision to continuously drain the pond sump, using a smaller 1m³ /min pump(due to passing cooling tower cooling water inlet valves A 400V supply can be used at each tower Water will be pumped to adjacent tower pond Supply pump and hoses to drain the pond No water should be present in the pond to allow the contractor to start cleaning. 	H	Contractor

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		<ul style="list-style-type: none">The contractor will attach a semi rigid 300mm pipe to the CW duct drain pipe to the respective cooling tower inlet valve drain to allow access to the duct.		
5.2	Make provision to create an opening in the bund wall(250mm high concrete curb pieces) around the cooling tower screens to allow quicker draining	<ul style="list-style-type: none">Make provision to replace bund with pavement curb curb if required		Contractor
5.3	Clean the cooling tower pond once the fill, distribution duct/pipes and drift eliminators have been cleaned, including the inlet launder channel	All sludge, mud and scale must be removed from the pond and disposed at an approved dumping site by using the necessary equipment.	H	Contractor
	Diametric ducts			
6.1	HP clean the diametral duct	<ul style="list-style-type: none">400 bar and above at a flow rate of 45l/min the internals of the diametral ducts.The internal diameter of the high flexible hose shall be a minimum of 10 mmA 25 l/sec submersible pump must be provided for in event the duct remains under	W	Contractor

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		water if the isolating valve is passing		
6.2	Remove all sludge/debris build-up in the diametric duct	<ul style="list-style-type: none"> All debris and sludge to be cleaned manually and removed in the ducts by means of buckets or vacuum Debris and sludge MUST not be dumped down the risers/ cooling tower inlet (Hot duct). Debris/sludge to be dispose of at the ash dam 	W	Contractor
	Distribution Pipe and Sprayers			
7 1	Distribution pipe cleaning shall be done in a systematic way and the Contractor will not be allowed to work in the entire cooling tower simultaneously in a hap-hazard manner	<ul style="list-style-type: none"> Contractor to demarcate each quarter of the tower to be worked on the QCP All cleaning activities will be inspected before moving on to the next section to be cleaned It is a mandatory requirement that the Contractor clearly indicates which sections are completed on a daily basis to allow Eskom's inspectors the opportunity to perform inspections on a daily basis Eskom Inspectors will only inspect sections completed by the Contractor If any defect in a 	H	Contractor

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		completed section is found which does not meet the acceptance criteria.		
7.2	Place a collecting net underneath the end-caps and open all end-caps on the <i>distribution pipes to prevent debris</i> from clogging the fill		W	Contractor
7.3	HP-clean the distribution pipes	<ul style="list-style-type: none">• 172 pipes• Refer to attached drawing 047-22227-layout of pipes and sprayers• Each distribution pipe must be cleaned with a high pressure lance travelling the full length of the pipe.• Water Pressure to be between 400 and 450 bar at the sprayer discharge with a flow rate of 45 l/minute shall be maintained during cleaning• It may be necessary to use a rod with a scraper to remove material too hard for the HP sprayer to loosen• The debris collected on the net must be removed from the cooling tower and not dropped on top of	W	Contractor

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		<i>the fil/pond.</i> <ul style="list-style-type: none"> All debris to be removed and disposed by contractor 								
7.4	Remove and clean all sprayers.	<ul style="list-style-type: none"> Sprayers to be removed, cleaned and replaced <ul style="list-style-type: none"> 5800 nozzles per tower New nozzles will be issued by Eskom <ul style="list-style-type: none"> Provision for replacing 700 nozzles per cooling tower Make provision to supply the female threaded part that fits in the pipe 	W	Contractor						
7.5	Any pipe nozzle fitting that is damaged to the point where a nozzle can no longer be screwed into the pipe must be replaced with a saddle type nozzle which must be secured to the distribution pipe	<ul style="list-style-type: none"> Submit saddle nozzle and data sheet and design for approval If the nozzle cannot be fitted into the existing pipe a rubber/plastic insert (grommet) must be strapped into the hole 	H	Contractor						
7.6	Make provision for supplying and installing the following piping replacing the replacement PVC piping and couple to installed piping	<table border="1"> <thead> <tr> <th>Length</th> <th>NB(mm)</th> </tr> </thead> <tbody> <tr> <td>250</td> <td>150</td> </tr> <tr> <td>150</td> <td>200</td> </tr> </tbody> </table>	Length	NB(mm)	250	150	150	200	H	Contractor
Length	NB(mm)									
250	150									
150	200									

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		<table border="1"> <tr> <td>150</td> <td>250</td> </tr> <tr> <td>150</td> <td>300</td> </tr> </table>	150	250	150	300		
150	250							
150	300							
		<ul style="list-style-type: none"> All nozzles openings to be cut in replacement piping Refer to attached drawing 047/4602 for piping and nozzle layout All piping to be according to SANS 966, Class 4 Clamping/coupling of the pipe to be in accordance with SANS 721 and have Engineering's approval prior to installation 						
7.7	Make provision for supply and install the following sizes of stainless steel clamps for any leaks on piping	<ul style="list-style-type: none"> 6 x 154 2mm 304 stainless steel 6 x 203 2mm 304 stainless steel 6 x 254 4 mm 304 stainless steel 6 x 304 8mm 304 stainless steel Submit technical data sheets for steel used Submit method statement of repair 	W	Contractor				
7.8	Provision for 40 end caps per tower during		H	Contractor				

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		Type	butterfly with rubber on the blade		
		Handle	Stainless steel		
		Blade diameter	150 mm		
		End cap size	200/12 mm		
		Length of end cap valve	200 mm		
			<ul style="list-style-type: none">• Submit all material data• This end cap valve will fit at the end of a 150 NB pipe by slipping over a 200 mm long 200 NB collar.• NB! Any other end cap design must be submitted as a tender returnable and must be approved by Eskom Engineering.		

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Drift Eliminators				
8.1	Clean falling algae on top of drift eliminators.		W	Contractor
8.2	Pressure clean the DEs with fire hydrant water (typically 6 bar). All fallen algae must be removed to avoid it falling through on top of the fill on a regular basis. In addition, when cleaning is done all flakes and excessive sludge will be removed	<ul style="list-style-type: none">The Contractor must do the cleaning from belowWhen the cleaning from above, a length of walkway with a minimum width of 800 mm must be in place Each walkway plank length will be long enough that it will be supported on two DE support beams Only one person will be allowed on one section of walkway When more than one walkway is erected, they must not rest on the same DE support beams		Contractor
8.3	Provision to replace 250 m ² drift eliminators per cooling tower	<ul style="list-style-type: none">Drift Material . UV inhibited PVC,Effective span 2.5 mHigh efficient < 0.002 %Strength test certificates to be provided, eliminator specification must be made availableInclude all rods and attachments for the setRefer to drawing 047-23525 for DE layout	R	Contractor

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		Sample to be approved prior to installation by engineering		
8.4	Demarcate the asbestos waste area on site and dispose the asbestos from site at the end of the outage at an approved asbestos dump site	Submit a disposal certificate OMOP 4090 must be adhered Asbestos removal bags must be used	H	Contractor
	FILL			
9.1	Remove the accessible pieces of scale, debris and algae on top of the grid fill material	<ul style="list-style-type: none"> Rinse the fill sections with 3 bar water pressure 		Contractor
9.2	Repair/ adjust or replace the fill where it became dislodged	<ul style="list-style-type: none"> Replacement fill to be Brentwood HTP 25 to ensure uniformity of installed fill 		Contractor
9.3	Repair/Adjust/ replace the FRP supports if they are found to be displaced	<ul style="list-style-type: none"> FRP supports dimensions C channel 203 x55 x 9 5mm x 5 459kg/m Rectangular tube. 76 mm (height) x 50 8 mm (width) x 3.175 mm (thick) 	H	Contractor
9.4	Remove all pieces of scale, debris and algae on top of all fill surfaces.	The area should be free of any algae flakes and debris.	W	Contractor

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HANDRAILING, LADDERS AND WALKWAYS				
10.1	Replace handrails and gratings with similar stainless steel 306.	<ul style="list-style-type: none">Grating and rails to be of stainless steel or GRP/ FRPGrating to have a minimum load rating of 300kg/m²Gratings to be installed with stainless steel T Piece tiedown for theSubmit material certificatesFinal measurements to be taken at the towerSee drawing 0 47/26238 rev2 (attached)All welds to be dye pen tested as per 240-83540088 Requirements for Non-Destructive Testing (NDT) on Eskom Plant Standard to be done on site by Matla's appointed NDT contractor	W	Contractor
10.2	Steel grating that is used to cover the entrances to the diametric duct should be replaced with stainless steel grating or GRP/ FRP.	<ul style="list-style-type: none">Grating to have a minimum load rating of 300kg/m²See drawing 0 47/26238 rev2	W	Contractor
10.3	Replace all rectangular sheets along the diametral duct walkway, to cover the gaps between the duct and	<ul style="list-style-type: none">Dimension: 1200mm long x 70 mm high x	W	Contractor

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	Drift eliminator concrete columns	5mm thick PVC		
		<ul style="list-style-type: none"> Make provision for 2 full replacements over the 5 years 		
11	Final inspection	Engineering to be present	H	Contractor
12	Flush the distribution pipes with shade netting placed under all distribution end caps, prior to each tower being placed back in service	<ul style="list-style-type: none"> All End caps to be open prior to flushing System to be flushed for 30 mins On completion shade netting and debris to be removed Contractor to ensure that ALL end caps are fully closed prior to QCP sign off. Eng / or QC to witness all end caps are closed prior to permit clearance 	H	Contractor
Unit 1-6 Diesel Generator Cooling Towers				
1	Replace bearings on the fan- split bearings (6 per unit)	<ul style="list-style-type: none"> Roller bearing, 1 inch, rated for 4000rpm C rating 0 133KN C₀ 0 034KN 		

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2	Drift eliminators need to be cleaned	•		
3.	Distribution to be flushed cleaned and repaired where needed	•		
4.	Nozzles , flushed and cleaned	•		
5	Coils need to be cleaned externally	•		
6.	Internal coil to be flushed –	•		
7	Dark room louvers to be cleaned	•		
8	Test motors on site	•		
9.	Replace fan belt on the motor drive	• Poly- V belt 6 rib,22mm top width, 645mm length		
10	Clean out the sump	•		
11	Repair any defective piping	• Provide 4m of 25NB galvanised piping		
12	Repair any cracks on the tower body	•		

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13.	Re- seal the tower panels	<ul style="list-style-type: none"> Apply silicone rated for 80°C 		
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BILL OF MATERIAL(for 5 years)

	Full description Material/Spares/Equipment	Specifications of Material/Spares/Equipment	Stock No	Part Number	Required Quantity
26	Drift eliminators	Refer to scope			4200 m ²
27	PVC sheets for duct walkway	Refer to scope			730
28	Nozzles	Down sprayers	61069		7500
29	Fill- replacement	Brentwood HTP 25			1500m ³
30	C- Channel	Refer to scope			80 lengths
31	Rectangular tubes	Refer to scope			230 lengths
32	End Caps	Refer to scope			450
33	150 NB PVC pipe	Refer to scope			250 m
34	200 NB PVC pipe	Refer to scope			150m
35	250 NB PVC pipe	Refer to scope			150m

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36	300 NB PVC pipe	Refer to scope			150m
37	350 NB PVC pipe	Refer to scope			150m
38	400 NB PVC pipe	Refer to scope			150m
39	154.2mm clamps	304 stainless steel			90
40	203 2mm clamps	304 stainless steel			90
41	254 4 mm clamps	304 stainless steel			90
42	304 8mm clamps	304 stainless steel			90
43	355 6 mm clamps	304 stainless steel			90
44	150NB to 200NB coupling	Refer to scope			30
45	200NB to 250 NB coupling	Refer to scope			30
46	250NB to 300NB coupling	Refer to scope			30
47	Saddle nozzles	Refer to scope			600
48	Steel works	Refer to attached drawings and scope			1 x Full replacement

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					on all steel works per tower
49	bearings	Roller bearing, 1 inch, rated for 4000rpm C rating. 0 133KN C ₀ 0 034KN			36
50	Poly- V belt 6 rib,22mm top width, 645mm length				6
51	25NB galvanised steel pipe, schedule 40				20m
52	Silicon				6 kg

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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			
Philosophy (Outage)	X			
Condition Monitoring Report		X		

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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

Compiled by: ZA Karodia

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