

**Title:** Technical Evaluation Criteria for  
Condensate Polishing Regeneration  
Plant Refurbishment

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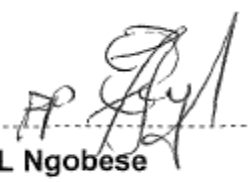
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## **1. INTRODUCTION**

This tender technical evaluation strategy explains exactly how the tenders will be evaluated for Condensate Polishing Regeneration plant vessels refurbishment project.

## **2. SUPPORTING CLAUSES**

### **2.1 SCOPE**

This document concerns the refurbishment project for the Condensate Polishing Regeneration Plant Vessels refurbishment.

#### **2.1.1 Purpose**

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and TET member responsibilities for tender technical evaluation. The technical evaluation strategy serves as basis for the tender technical evaluation process.

#### **2.1.2 Applicability**

Applicable to Matla Power station.

### **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] 240-48929482: Tender Technical Evaluation Procedure

#### **2.2.2 Informative**

[2] GAM/MAT/22/145: Matla Power Station Condensate Polisher Regeneration (CPR) Corrosion Protection Specification

[3] MEP - 051333: Refurbishment of Condensate Polishing Regeneration Plant Vessels (Train 1, 2 and 3)

### **2.3 DEFINITIONS**

None

#### **2.3.1 Classification**

**Controlled Disclosure:** Controlled Disclosure to external parties (either enforced by law, or discretionary).

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## 2.4 ABBREVIATIONS

| Abbreviation | Description                                    |
|--------------|--|
| BS EN        | British Standard European Norm                 |
| CPR          | Condensate Polishing Regeneration              |
| CV           | Curriculum Vitae                               |
| ISO          | International Organisation for Standardisation |
| MSDS         | Material Safety Data Sheet                     |
| OEM          | Original Equipment Manufacturer                |
| PQR          | Procedure Qualification Records                |
| QAL2         | Quality Assurance level 2                      |
| QC           | Quality Control                                |
| QCP          | Quality Control Plan                           |
| QMS          | Quality Management System                      |
| SA           | South Africa                                   |
| SANS         | South African National Standard                |
| SOW          | Scope of Work                                  |
| TET          | Tender Evaluation Team                         |

## 2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure

## 2.6 PROCESS FOR MONITORING

N/A

## 2.7 RELATED/SUPPORTING DOCUMENTS

Tender Technical Evaluation Scoring Form

## 3. TENDER TECHNICAL EVALUATION STRATEGY

### 3.1 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70%.

### 3.2 TET MEMBERS

Table 1: TET Members

| TET number | TET Member Name | Designation |
|------------|-----------------|-------------|
| TET 1      |                 |             |

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|       |  |  |
|-------|--|--|
| TET 2 |  |  |
|-------|--|--|

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### 3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

| Mandatory Technical Evaluation Criteria   | Reference to Technical Specification / Tender Returnable  | Motivation & Comments   |
|---|---|---|
| <p>1. Provide verifiable evidence that the Rubber Liner <b>and</b> coating contractor has experience in application of the corrosion protection systems in comparable environments i.e. tanks/confined spaces .</p> | <p><b>As minimum:</b></p> <p>1. The verifiable evidence shall include:</p> <p>a) a <b>list of projects</b> with <b>contact details</b> (name of company and contact person and contact number), <b>project title or summary, total surface area</b> and <b>vessel operating conditions</b> for at least 3 similar projects per type of corrosion protection (<b>3 coating and 3 lining projects</b>) and;</p> <p>b) <b>formal signed off QCP's or release certificates</b> of the vessels lined and coated</p> <p>2. The <b>experience shall be</b> where corrosion protection systems were applied <b>in comparable environments</b>. For corrosion systems and environmental conditions <b>refer to Eskom specification GAM/MAT/22/145</b>.</p> <p>3. The <b>experience shall be</b> where similar work completed is <b>at least equal to 200m<sup>2</sup> per project</b> (70% of SOW quantity) (200m<sup>2</sup> per rubber lining project and 200m<sup>2</sup> per coating project)</p> <p>4. The verifiable evidence shall be for projects where vessels have been successfully lined and coated by the Contractor <b>within the last five years</b>.</p> <p><b>If sub-contracting</b>, same information as above to be provided.</p> | <p>To ensure that the supplier is adequately experienced in order to successfully execute and manage a coating and lining project of the scale and magnitude as defined in the SOW.</p> |

| Mandatory Technical Evaluation Criteria |  | Reference to Technical Specification / Tender Returnable  | Motivation & Comments   |
|---|--|---|---|
| 2.                                      | Provide proof of ISO 3834-2 Welding Certification of Contractor/subcontractor (both pages) | Provide <b>Both pages of the ISO 3834-2 certificate</b> . The name of the Contractor or sub-contractor is the registered name on the ISO 3834-2 certificate that is submitted. The <b>group of material welded</b> as per the required <b>PQR</b> is <b>indicated on the ISO 3834-2 certificate</b> . | To ensure that supplier is certified and capable of executing the vessel welding repairs as required by the SOW.                          |
| 3.                                      | Provide proof and assurance that supplier has quoted for the correct Neva Clog filter      | Provide <b>datasheets or technical brochures</b> for the <b>Neva Clog Filters</b>   | To ensure that supplier has quoted for, and will supply the correct filters as it is a critical component for operation of the CPR plant. |

### 3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Technical Evaluation Criteria

| No. | Technical Requirements   | Tender Returnables   | Weight (%) | Scale/Scoring   |  |  |   | Score |
|-----|--|--|------------|---|--|--|---|-------|
|     |  |  |            | 0 (0%)  | 2 (40%)  | 4 (80%)  | 5 (100)   |       |
| 1   | <p>Provide datasheets and MSDS for all products to be used for corrosion protection. For rubber Lining work include:</p> <p>(a) Abrasive blast material</p> <p>(b) Primer</p> <p>(c) Cleaning solvents</p> <p>(d) Adhesives</p> <p>(e) Rubber compound.</p> <p>For coating work –</p> <p>(f) Coating materials and</p> <p>(g) Cleaning solvents.</p> | <p>As a <b>MINIMUM</b> the <b>datasheets and MSDS shall contain the requirements</b> specified in Eskom <b>GAM/MAT/22/145</b> for the <b>rubber lining, coating materials and abrasive blast material</b>, which are:</p> <p><b>For rubber and coating materials:</b></p> <p>(1) A description of the generic type of rubber lining and coating.</p> <p>(2) Rubber lining and coating (intermediate and final) physical and chemical properties ( for rubber lining Table 4 of 6 - SANS 1198 shall apply).</p> <p>(3) Recommended and non-recommended uses.</p> <p>(4) Service temperatures and chemical resistance limits. For the rubber lining chemical resistance, special property (I), (III), (V) and (VI) as per SANS 1198 Clauses 4.2.2 (d), 4.2.3 (b) in conjunction with the environment and operating conditions in the table above in this specification sheet shall apply. Confirmation that the lining shall not contaminate the system/process fluid to be handled. Special property (V &amp; VI) as per 240-101712128 and SANS 1198. The approved test results or certificates from the independent laboratory shall be written in English.</p> <p>(5) Maximum recommended service temperature which shall be a minimum of 30% greater than the maximum temperatures as is indicated in the table at the top of this specification sheet.</p> <p>(6) Surface preparation requirements</p> <p><b>For abrasive blasting grit:</b></p> <p>(7) Abrasive blast material physical and chemical properties.</p> | 10%        | <p><b>No datasheet and MSDS</b> submitted</p> <p>AND/OR</p> <p>datasheets submitted are <b>missing 1-7 of the minimum requirements</b> listed on the left</p> | <p>Datasheets and MSDS's <b>provided for 1-3 of the products (a) – (g)</b> to be used are provided</p> <p>AND</p> <p><b>contains all 7 minimum requirements</b> listed on the left</p> | <p>Datasheets and MSDS's <b>provided for 4-6 of the products (a) – (g)</b> to be used are provided</p> <p>AND</p> <p><b>contains all 7 minimum requirements</b> listed on the left</p> | <p>Datasheets and MSDS's <b>provided for all 7 products (a) – (g)</b> to be used are provided</p> <p>AND</p> <p><b>contains all 7 minimum requirements</b> listed on the left</p> |       |



| No. | Technical Requirements  | Tender Returnables   | Weight (%) | Scale/Scoring                        |  |  |  | Score |
|-----|---|--|------------|--------------------------------------|--|--|--|-------|
|     |   |  |            | 0 (0%)                               | 2 (40%)  | 4 (80%)  | 5 (100)  |       |
| 2   | Provide a detailed procedures/method statements which detail all the steps, procedures and activities of the rubber lining and coating application process. | <p>In addition to <b>surface preparation, application of coating, primer and adhesives and rubber lining</b>, the steps to be considered when compiling method statement/procedure for both the rubber lining and coating process includes:</p> <p>The methods, steps, sequence, and equipment required for:</p> <p>(1) Ventilation and dust mitigation.<br/> (2) Grease decontamination and washing.<br/> (3) Soluble salt decontamination.<br/> (4) Methods for dust and debris removal, maintaining and ensuring cleanliness between adhesives and lining shall be described.<br/> (5) The Method Statement shall detail the precise sequence and breakdown of work areas/activities in order to apply the system with due consideration of dust contamination.<br/> (6) The Method Statement shall also consider the most efficient methods and sequencing to avoid unnecessary delays that may have an impact i.e. time required for removal of spent abrasive grit and dust/debris.<br/> (7) All inspection interventions during and after completion of corrosion protection installation shall be considered and included.<br/> (8) The Method Statement shall describe all measures and details for establishing and maintaining:<br/> - The environmental conditions as required by this specification and;<br/> - The required ventilation for the prevention and/or management of fumes and dust build-up. The number of extraction fans; mounting diameters, sizes and mounting methods of fans to manholes; power rating of fans; positioning of fans and direction of intended air flow shall be described and detailing.</p> | 27.5%      | <b>No method statements provided</b> | Method statements only provided for <b>1 - 5</b> of the application <b>steps</b> nos. (1) – (8) listed on the left | Method statements only provided for <b>6 - 7</b> of the application <b>steps</b> nos. (1) – (8) listed on the left | Method statements <b>provided</b> for <b>all 8</b> of the application <b>steps</b> nos. (1) – (8) listed on the left |       |

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| No. | Technical Requirements  | Tender Returnables  | Weight (%) | Scale/Scoring  |  |   |   | Score |
|-----|---|---|------------|--|--|---|---|-------|
|     |   |   |            | 0 (0%)   | 2 (40%)  | 4 (80%)   | 5 (100)   |       |
| 3   | Provide a detailed quality control plan/s (QCP/s) detailing all inspections and tests with acceptance criteria for rubber lining and coating  | <p>Inspections during rubber lining and coating shall at least cover:</p> <p>(1) compressed air blotter test for blasting and spray applications<br/> (2) surface preparation during lining<br/> (3) surface preparation during coating<br/> (4) environmental parameters during lining<br/> (5) environmental parameters during coating<br/> (6) rubber hardness<br/> (7) rubber and coating adhesion<br/> (8) rubber and coating thickness<br/> (9) rubber and coating continuity<br/> (10) rubber and coating visual tests.</p> <p>Tests for continuity shall be carried out using the high frequency spark test method.</p> | 17.5%      | No QCP provided  | <p><b>QCP provided but is missing 1 or more of inspections and tests (1) - (10) listed on the left</b></p> <p>AND/OR</p> <p><b>3 or more acceptance criteria</b> as per Eskom Specification (GAM/MAT/22/145)</p> | <p><b>QCP provided covering all inspections and tests (1) – (10) listed on the left</b></p> <p>AND</p> <p>is <b>missing 1-2 acceptance criteria</b> as per Eskom Specification (GAM/MAT/22/145)</p> | <p><b>QCP provided covering all inspections and tests (1) – (10) listed on the left with all acceptance criteria</b> as per Eskom Specification (GAM/MAT/22/145) provided</p> |       |
| 4   | Provide a list of deviations or exclusions from Eskom specification (GAM/MAT/22/145). If there are none then a definitive statement in this regard needs to be provided. This document shall be a part of binding contract. | Provide written, signed statement on company letterhead indicating the deviations from scope of work and their impact on the corrosion protection effectiveness.  | 10%        | <p><b>No written definitive statement</b></p> <p>OR</p> <p><b>written statement submitted</b> stating - <b>1 or more deviations that will impact the performance of</b> corrosion protection</p> | <p><b>Written statement submitted</b> stating –</p> <p><b>2 or more deviations that will NOT impact the performance of</b> corrosion protection</p>  | <p><b>Written statement submitted</b> stating –</p> <p><b>1 deviation that will NOT impact the performance of</b> corrosion protection</p>  | <p><b>Written statement submitted</b> stating <b>100% compliance</b> to Eskom Specification (GAM/MAT/22/145)</p>  |       |

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| No. | Technical Requirements  | Tender Returnables  | Weight (%) | Scale/Scoring  |  |   |   | Score |
|-----|---|---|------------|--|--|---|---|-------|
|     |   |   |            | 0 (0%)   | 2 (40%)  | 4 (80%)   | 5 (100)   |       |
| 5   | Provide the following information the for the Neva Clog Filters, Neva clog filter sealant and sight glasses | <p>The following information is to be provided by the contractor:</p> <p><b>Neva Clog Filters</b></p> <p>(1) Data Sheets or technical brochures (<b>minimum requirement</b>)</p> <p>(2) Removal and installation guidelines or method statements</p> <p>(3) Letter from supplier indicating item lead times</p> <p><b>Neva Clog Filter Sealant</b></p> <p>(4) Data Sheets or technical brochures (<b>minimum requirement</b>)</p> <p>(5) Removal and application method statements</p> <p><b>Sight Glasses</b></p> <p>(6) Data Sheets or technical brochures (<b>minimum requirement</b>)</p> | 12.5%      | <p><b>None</b> of the required <b>information was provided</b></p> <p>OR</p> <p><b>1-3 of the minimum requirements</b> listed on the left <b>are missing</b></p> | <p><b>3-4</b> of the required information (1) – (6) has been <b>provided</b> and is <b>fully compliant</b></p> <p>AND</p> <p><b>includes all 3 minimum requirements</b> listed on the left</p>   | <p><b>5</b> of the required information (1) – (6) has been <b>provided</b> and is <b>fully compliant</b></p> <p>AND</p> <p><b>includes all 3 minimum requirements</b> listed on the left</p>    | <p><b>All of the required information (1) – (6)</b> listed on the left has been <b>provided</b></p>   |       |
| 6   | Site Manager Qualifications and work experience   | Submit CV outlining the experience Water Treatment Plant vessel refurbishment projects and proof of qualification certificates National diploma/Degree (Mechanical Engineering) for the site manager.   | 12.5%      | <p><b>Information not submitted</b> or <b>inadequate</b> OR <b>less than 3 years experience</b> OR</p>   | <p><b>CV provided</b> detailing <b>3- 4 years experience</b> on Water Treatment Vessels Refurbishment (Including Rubber Lining) <b>plus National diploma/Degree (Mechanical Engineering)</b></p> | <p><b>CV provided</b> detailing <b>5-6 years experience</b> on Water Treatment Vessels Refurbishment (Including Rubber Lining) <b>plus National Diploma/Degree (Mechanical Engineering)</b></p> | <p><b>CV provided</b> detailing <b>7 years or more experience</b> on Water Treatment Vessels Refurbishment (Including Rubber Lining) <b>plus National Diploma/Degree (Mechanical Engineering)</b></p> |       |

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| No. | Technical Requirements   | Tender Returnables  | Weight (%) | Scale/Scoring   |  |  |   | Score |
|-----|--|---|------------|---|--|--|---|-------|
|     |  |   |            | 0 (0%)  | 2 (40%)  | 4 (80%)  | 5 (100)   |       |
| 7   | Complete/Updated list of the welding contractor's welders qualifications, qualified to BS EN 9606. | Provide complete/updated list of the welding contractor's welders qualifications, qualified to BS EN 9606. And 2 x welders qualification certificates | 10%        | No information provided<br><br>OR<br><br><b>List of contractors welders qualifications NOT provided</b> | <b>Only the list of contractors welders qualifications provided</b><br>qualified to BS EN 9606 | <b>List of contractors welders qualifications provided</b><br><br>AND<br><b>Only 1 welders qualification certificates provided,</b><br>qualified to BS EN 9606 | <b>List of contractors welders qualifications provided</b><br><br>AND<br><b>2 welders qualification certificates provided,</b><br>qualified to BS EN 9606 |       |

### 3.5 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

| Mandatory<br>Criteria Number   | TET 1 | TET 2 |
|--------------------------------|-------|-------|
| 1                              | X     | X     |
| 2                              | X     | X     |
| 3                              | X     | X     |
| 4                              | X     | X     |
| Qualitative<br>Criteria Number | TET 1 | TET 2 |
| 1                              | X     | X     |
| 2                              | X     | X     |
| 3                              | X     | X     |
| 4                              | X     | X     |
| 5                              | X     | X     |
| 6                              | X     | X     |
| 7                              | X     | X     |

### 3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

#### 3.6.1 Risks

**Table 5: Acceptable Technical Risks**

| Risk | Description |
|------|-------------|
| 1.   | N/A         |
| 2.   |             |
| 3.   |             |
| 4.   |             |
| 5.   |             |
| 6.   |             |
| 7.   |             |

**Table 6: Unacceptable Technical Risks**

| Risk | Description |
|------|-------------|
| 1.   | N/A         |
| 2.   |             |
| 3.   |             |
| 4.   |             |
| 5.   |             |

|    |  |
|----|--|
| 6. |  |
| 7. |  |

### 3.6.2 Exceptions / Conditions

**Table 7: Acceptable Technical Exceptions / Conditions**

| <b>Risk</b> | <b>Description</b>                                  |
|-------------|---|
| 1.          | External mechanical grinding by rotary bristle tool |
| 2.          | External coating by roller brush                    |
| 3.          |   |
| 4.          |   |
| 5.          |   |

**Table 8: Unacceptable Technical Exceptions / Conditions**

| <b>Risk</b> | <b>Description</b>  |
|-------------|---|
| 1.          | Alternative grade and type of rubber                            |
| 2.          | Internal mechanical grinding as opposed to grit blasting        |
| 3.          | Abrasive blasting grit with higher than required silica content |
| 4.          | Incorrect floor filter and sight glass                          |
| 5.          |   |
| 6.          |   |

4. AUTHORISATION

This document has been seen and accepted by:

| Name | Designation | Signature |
|------|-------------|-----------|
| N/A  | N/A         | N/A       |

5. REVISIONS

| Date            | Rev. | Compiler                | Remarks           |
|-----------------|------|-------------------------|-------------------|
| 02 October 2024 | 1    | Y Ramkalawan & I Maredi | Original document |

6. DEVELOPMENT TEAM

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

Hassen Cassim

7. ACKNOWLEDGEMENTS

Hassen Cassim

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