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# Introduction

Kriel Power station uses Ion Chromatography to measure anions on the Demineralisation plant, cycle chemistry system and cooling water system.

# Supporting Clauses

## Scope

To supply and deliver and commission Ion Chromatography instrument at Kriel Power Station chemical services

### 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.

### Applicability

This document applies to Kriel Power Station’s Chemical Services Engineering Departments

## Normative/Informative References

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

### Normative

1. 240-48929482: Tender Technical Evaluation Procedure

### Informative

1. ISO 9001 Quality Management Systems

## Definitions

| Definition | Description |
| --- | --- |
| Ion Chromatography instrument | Ion-exchange chromatography separates molecules based on their respective charged groups. Ion-exchange chromatography retains analyte molecules on the column based on coulombic (ionic) interactions. ... Essentially, molecules undergo electrostatic interactions with opposite charges on the stationary phase matrix. |
| Steam cycle chemistry system | Condensate polishing plant, Condensate extraction pump, Economizer And Main steam |
|  |  |
|  |  |

### Classification

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

## Abbreviations

| Abbreviation | Description |
| --- | --- |
| QCP | Quality Control Procedure |
| KPS | Kriel Power Station |

## Roles and Responsibilities

As per 240-48929482: Tender Technical Evaluation Procedure

## Process for monitoring

N/A

## Related/Supporting Documents

N/A

# Tender Techncial Evalaution Strategy

## Technical Evaluation Threshold

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

## TET memberS

Table 1: TET Members

|  |  |  |
| --- | --- | --- |
| **TET number** | **TET Member Name** | **Designation** |
| TET 1 | Merriam Sikhosana | Senior Supervisor Chemistry |
| TET 2 | Shirley Tshabalala  | Senior Technician Chemistry |

## QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 2: Qualitative Technical Evaluation Criteria

|  |  |
| --- | --- |
| **FUNCTIONALITY : TECHNICAL** | Max number of points percentage |
| **A minimum of 70% to be achieved to qualify for further evaluation** |
| **Supplier’s capability to supply the product** |  | 20% |
| (Evaluating if the equipment to be supplied is meeting the specifications) |   |
|    | The supplier to provide agreement letter from the OEM (10%) |
| The supplier to submit the manufactures instrument brochure with components and instrument technical specification. (10%) |
| **Product meet specs** |  | 70% |
| (Evaluating if the product is meeting the specification)    | Instrument specification (14%) |
| Hardware specification (14%) |
| Software specification (14%) |
| Instrument Components (High pressure pump, Column, Suppressor, Detector and Auto sampler) specification (14%) |
| Ultra-pure water system specification (14%) |
| **Understanding the Eskom requirement** |  | 10% |
| (Evaluating the Contractor’s understanding of the Resin supply and handling knowledge) | Plan to indicate delivery lead time, commissioning and training |

## TET Member Responsibilities

Table 3: TET Member Responsibilities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Qualitative Criteria Number** | **TET 1** | **TET 2** | **TET 3** | **TET 4** |
| 1 Merriam Sikhosana | X | X | X | X |
| 2 Shirley Tshabalala | X | X | X | X |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |

## Foreseen Acceptable / Unacceptable Qualifications

### Risks

Table 4: Acceptable Technical Risks

|  |  |
| --- | --- |
| **Risk** | **Description** |
|  | **N/A** |

Table 5: Unacceptable Technical Risks

|  |  |
| --- | --- |
| **Risk** | **Description** |
|  | **N/A** |

### Exceptions / Conditions

Table 6: Acceptable Technical Exceptions / Conditions

|  |  |
| --- | --- |
| **Risk** | **Description** |
|  | **N/A** |

Table 7: Unacceptable Technical Exceptions / Conditions

|  |  |
| --- | --- |
| **Risk** | **Description** |
|  | **N/A** |

# Authorisation

This document has been seen and accepted by:

| Name | Designation | Signature |
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| Merriam Sikhosana  | Senior Supervisor Chemistry |  |
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| Ethel Simelane | Chemical Services Manager |  |

# Revisions

| Date | Rev. | Compiler | Remarks |
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# Development team

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

Merriam Sikhosana

Nqobile Kolobe

# Acknowledgements

None