Eskom	Scope of Work	Kriel Power Station

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1. INTRODUCTION

The Scope of Work (SOW) for this contract entails supply and delivery of Water Treatment Plant (WTP) Raw Water Pumps as stock items on an “as and when” required basis for a period of three (3) years to Kriel Power Station (PS). The equipment must be accompanied by quality control (QC) documents.

2. SUPPORTING CLAUSES

2.1 SCOPE

The scope comprises the following but is not limited to supply and delivery of WTP Raw Water Pumps as stock items on an “as and when” required basis for a period of three (3) years to Kriel PS. The equipment must be accompanied by QC documents.

2.1.1 Purpose

The purpose of this scope of work is to ensure the delivery and supply of WTP Raw Water Pumps “as and when” required.

2.1.2 Applicability

The document applies to Kriel Power Station Auxiliary Engineering Department and Auxiliary Maintenance Department (WTP & Auxiliary).

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] ISO 9001 Quality Management Systems.

[2] OHSAS 18001, Occupational Health and Safety Management Systems, Requirements OHSAS 18001 2007

[3] ISO 14001, Environmental Management Systems, Requirements with guidance for use ISO 14001 2004

[4] Eskom Safety, Health, Safety, Environmental and Quality Policy 32-727

2.2.2 Informative

Not applicable.

2.3 DEFINITIONS

2.3.1 Disclosure Classification

Controlled disclosure: controlled disclosure to external parties (either enforced by law, or discretionary).

2.4 ABBREVIATIONS

Abbreviation	Description
kW	Kilowatts
m	Metre

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Abbreviation	Description
m^3/hr	Cubic meters per hour
mm	Millimetre
OEM	Original Equipment Manufacturer
PS	Power Station
QC	Quality Control
RPM	Revolutions per minute
SOW	Scope of Work
WTP	Water Treatment Plant

2.5 ROLES AND RESPONSIBILITIES

The *Contractor* will ensure in supplying the equipment as per scope of work with its accessories.

2.6 PROCESS FOR MONITORING

The *Contractor* will do the works reporting to the relevant Eskom personnel with QC documents and progress reporting on the delivery. There will be a QC evaluation of the equipment with the end-user on deliveries and invoices.

2.7 RELATED/SUPPORTING DOCUMENTS

Not applicable.

3. SCOPE OF WORK

3.1 EFFECTIVE DATE

The document will be effective from the date that contract is authorised.

3.2 WORKS

The specifications for the pumps are located in the table below:

Table 1: Raw Water Pump Specifications

Material	Text
0597508	PUMP, CENTRIFUGAL: SIZE: 500 mm; STAGE: SINGLE; CAPACITY: 2568.8 m^3/hr; TOTAL HEAD: 13 m; NPSH: 4.5 m; SPEED: 974 rpm; CENTRIFIGAL PUMP SPLIT CASING; EFFICIENCY: 82%; IMPELLER DIAMETER: 4.35 mm; POWER REQUIRED: 110.88 kW; MOTOR REQUIRED: 132 kW; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).

Table 2: Raw Water Pump List

Item nr	Description
597508	**RAW WATER PUMP**

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	PUMP CNTRFGL:4.5 M;2568.8 M3/HR;13 M

Following the issue of a task order by the *Employer's* Representative:

- The *Contractor* must supply the pumps on an "as and when" required basis.
- Transport it to the *Clients'* premises.
- Always have a contingency pump in case of emergency during the duration of the contract.
- The *Contractor* must then supply all the necessary documentation of tests done on the pump including certificates.
- The technical specification and maintenance manual of the pumps are to be supplied on delivery.

3.3 TEST DOCUMENTATION AND GAURENTEES

Once a pump has passed all hold points and has been assembled it must undergo a test run. During the test the pump performance at various heads must be noted and documented in order to draw a pump performance curve.

The following documentation must be supplied to the *Employer's* Representative before a pump will be accepted to site:

- Pump performance curve obtained during test run.
- Applicable guarantee/warrantee.

3.4 GENERAL REQUIREMENTS

3.4.1 Spares List

- The *Contractor* to submit list of recommended maintenance strategy by OEM.
- Starting and the end date of the service period.

4. AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation
Sipho Masango	Senior Engineer – Auxiliary Engineering
Neo Muthavhine	Manager – Auxiliary Engineering
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5. REVISIONS

Date	Rev.	Compiler	Remarks
October 2020	0.1	Jerushan Pillay	First Issue
October 2020	1	Jerushan Pillay	Final Document for signature

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6. DEVELOPMENT TEAM

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

- Jerushan Pillay
- Themba Mashiyane

7. ACKNOWLEDGEMENTS

Not applicable.

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