

	<b>Scope of Work</b>	<b>Matimba Power Station</b>
---	----------------------	------------------------------

**Title:** Supply and delivery of bolts and nuts to Matimba Power Station as per request.

**Unique Identifier:** SOW/060/001

**Alternative Reference Number:** N/A

**Area of Applicability:** Engineering

**Documentation Type:** Scope of Work

**Revision:** 1

**Total Pages:** 36

**Next Review Date:** October 2025

**Disclosure Classification:** **CONTROLLED DISCLOSURE**

Compiled by	Functional Responsibility	Authorised by
		
<b>Tebogo Matswalela</b> <b>Senior Technician Civil</b>	<b>Mpolokeng Mampane</b> <b>Civil Engineering Manager</b>	<b>Jacky Mathobela</b> <b>Engineering Manager</b>
Date: 2024/10/30	Date: 2024/10/31	Date: 2024/10/31

## CONTENTS

	Page
<b>1. INTRODUCTION.....</b>	<b>3</b>
<b>2. SUPPORTING CLAUSES .....</b>	<b>3</b>
2.1 SCOPE .....	3
2.1.1 Purpose .....	3
2.1.2 Applicability .....	3
2.2 NORMATIVE/INFORMATIVE REFERENCES.....	3
2.2.1 Normative.....	3
2.2.2 Informative .....	3
2.3 DEFINITIONS .....	4
2.3.1 Disclosure Classification .....	4
2.4 ABBREVIATIONS .....	4
2.5 ROLES AND RESPONSIBILITIES .....	5
2.6 PROCESS FOR MONITORING.....	5
2.7 RELATED/SUPPORTING DOCUMENTS .....	5
3 SCOPE OF WORKS OVERVIEW.....	5
<b>3.1 SUPPLY AND DELIVERY OF BOLTS AND NUTS.....</b>	<b>5</b>
3.1.1 SCOPE OF WORKS DATA .....	6
TABLE 1: LIST OF VARIOUS BOLTS AND NUTS (FASTENERS).....	6
<b>3.2 NON-TECHNICAL SCOPE OF WORK .....</b>	<b>35</b>
<b>4. AUTHORISATION .....</b>	<b>35</b>
<b>5. REVISIONS.....</b>	<b>36</b>
<b>6. DEVELOPMENT TEAM.....</b>	<b>36</b>
<b>7. ACKNOWLEDGEMENTS.....</b>	<b>36</b>

## TABLES

Table 1: List of various bolts and nuts (fasteners).....	6
--	---

### CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

## **1. INTRODUCTION**

This document outlines the requirements and expectations for the supply and delivery of bolts and nuts required for the maintenance of Matimba Power Station. The necessity of this supply scope is to ensure the timely and efficient provision of fasteners that meet the technical specifications and safety standards necessary for operational reliability and maintenance at the power station.

## **2. SUPPORTING CLAUSES**

### **2.1 SCOPE**

This document covers the minimum technical and non-technical requirements for the supply and delivery of fasteners.

#### **2.1.1 Purpose**

The purpose of this document is to outline the scope of work for supply and delivery of fasteners on an as and when required basis and to describe the technical criteria to which the material is to be supplied.

#### **2.1.2 Applicability**

The document is applicable to Matimba 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] ISO 9001 Quality Management Systems.
- [2] ISO 9001 Quality Management Systems.
- [3] 240-46554063 Safety Health Environmental and Quality Policy.
- [4] Supplier Contract Quality Requirements Specifications.
- [5] 32- Preferential Procurement Policy Framework Act 5 of 2000
- [6] SANS 10403-Formatting and compilation of construction procurement documents.
- [7] SANS 916-Fishbolts and nuts for light rails.
- [8] SANS 1143- Mushroom- and countersunk-head bolts and nuts.
- [9] SANS 1700-2-3-Fasteners Part 2: screw threads Section 3: ISO general purpose metric screw threads- selected sizes for screws, bolts and nuts.
- [10] SANS 1700-2-10-Fasteners Part 2: Screw threads Section 10:ISO inch screw threads-General plan and section for screw, bolts and nuts-Diameter range 0,06 to 6 in.

### **2.2.2 Informative**

- [1] 32-1033 Eskom Procurement and Supply Management Policy.
- [2] 32-1034 Eskom Procurement and Supply Management Procedure.
- [3] 240-165040111: Supplier Terms Policy.
- [4] 32-1033: Procurement and Supply chain Management Policy.

### **CONTROLLED DISCLOSURE**

## 2.3 DEFINITIONS

Definition	Description
Bolt	Screw with threaded cylinders and various types of heads.
Contractor	Service provider contracted for supply specific service to Eskom Matimba Power Station.
Nut	Fastening device consisting of a square or hexagonal block, usually of metal with a hole in the centre having internal threads.
Procedure	A step-by-step process to archive objectives.
Procurement	A process of sourcing, purchasing, receiving, and inspecting all of the goods and services.
Service Provider/Supplier	An organization/Individual that provides services.

### 2.3.1 Disclosure Classification

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

## 2.4 ABBREVIATIONS

Abbreviation	Description
EA	Each.
ISO	International Organization for Standardization.
KG	Kilogram.
KPI	Key performance indicators.
M	Meter.
N/A	Not Applicable.
NCR	Non-Conformance Report.
OHS	Occupational Health and Safety.
SOW	Scope of work.
PPE	Personal protective equipment.
SAP	System, application, products.
SANS	South African National Standards.
SE	System Engineer.
SOW	Scope of Works.
SHE	Safety, health, and environment.
UMC	Unit of Measure.
QC	Quality Check.
QMS	Quality Management System.

### **CONTROLLED DISCLOSURE**

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

## **2.5 ROLES AND RESPONSIBILITIES**

<b>Role</b>	<b>Responsibilities</b>
Contract manager	Co-ordinating,manage contract, budget and expenses.
End-user	Maintain SAP minimal and maximum stock.
Engineering Manager	To review, support and authorise the implementation of the Scope of Works.
System Engineer	To compile the Scope of Works document.
Senior Technician Advisor	To ensure that the Scope of Works is in line with what is required as per procurement standards.
Service Provider/Supplier	To make sure that the request from the Employer is supplied as per request.

## **2.6 PROCESS FOR MONITORING**

2.6.1 The process will be of procuring will be monitored by material stock levels via Material Management SAP.

2.6.2 The contractor's performance shall be monitored by set up and agreed KPI.

2.6.3 On delivery of material at Matimba Power station main stores, items will be subjected to quality control checks by the End User to ensure that description of delivered items complies with that of the order.

## **2.7 RELATED/SUPPORTING DOCUMENTS**

2.7.1 Relevant drawings and additional specification will be provided by Engineering department on request.

2.7.2 32-188-Eskom's procurement and supply chain management procedure.

## **3 SCOPE OF WORKS OVERVIEW**

### **3.1 SUPPLY AND DELIVERY OF BOLTS AND NUTS**

The Service Provider/ Supplier should as per requested by the Employer supply and deliver various bolts and nuts to Matimba Power Station as per specified purchase order or request. The Service Provider should comply with the tendering and procurement regulations, it is the responsibility of the appointed Service Provider to adhere to the following:

- Comply with the Eskom's procurement and supply chain management procedure.
- Comply with the procurement and supply chain management Policy of Eskom.
- Comply with supplier terms policy of Eskom.
- The supply and delivery of the bolts and nuts are as per specified requirements and comply with the ISO 9001 Quality Management System (QMS).

**CONTROLLED DISCLOSURE**

**3.1.1 SCOPE OF WORKS DATA**

Below is a table listing all various bolts and nuts as per the Scope of Works:

**TABLE 1: LIST OF VARIOUS BOLTS AND NUTS (FASTENERS)**

Item	Material	Purchase Order Text	Unit of Measure
10	84071	BOLT, ASSEMBLY: TYPE: CLEVIS; NOMINAL DIAMETER: M20; LENGTH: 103 MM; HEAD: HEX; MATERIAL: MS BRIGHT EN8; THREAD: 2.5 MM; NUT QUANTITY: 1; DRAWING NO: 20.58/55578 REV SHEET 3; REFERENCE NO: 3283-009-112; SUPPLY COMPLETE WITH ONE M24 STANDARD STEEL WASHER; ONE M20 STANDARD STEEL WASHER; ONE M20 X 2.5 PITCH (COARCE) CLEVELOCK NUT ALL LIGHTLY GREASED	EA
20	84570	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M10; LENGTH: 150 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 28 MM; THREAD: 1.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION SABS 135	KG
30	83594	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M10; LENGTH: 25 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 25 MM; THREAD: 1.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; PROTECTIVE COATING: BLACK; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS135: 1985	KG
40	84563	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M10; LENGTH: 50 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 30 MM; THREAD: 1.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
50	84578	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M12; LENGTH: 100 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 35 MM; THREAD: 1.75 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
60	84582	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M12; LENGTH: 150 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS BLACK; THREAD LENGTH: 35 MM; THREAD: 1.75 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION SABS 135, COARSE THREAD FREE FIT	KG
70	84585	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M12; LENGTH: 200 MM; HEAD: HEX; GRADE: 4.6 MM; MATERIAL: MS; THREAD LENGTH: 40 MM; THREAD: 1.75 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION SABS135	KG

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                 **1**  
Page:                      **7 of 36**

Item	Material	Purchase Order Text	Unit of Measure
80	83591	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M12; LENGTH: 30 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 30 MM; THREAD: 1.75 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
90	84574	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M12; LENGTH: 50 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 30 MM; THREAD: 1.75 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
100	84576	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M12; LENGTH: 75 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 35 MM; THREAD: 1.75 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION SABS 135	KG
110	84590	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M16; LENGTH: 100 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 40 MM; THREAD: 2 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
120	84592	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M16; LENGTH: 125 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 40 MM; THREAD: 2 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; COARSE THREAD FREE FIT; SPECIFICATION: SABS 135	KG
130	84593	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M16; LENGTH: 150 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 45 MM; THREAD: 2 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION SABS 135	KG
140	84595	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M16; LENGTH: 200 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 47 MM; THREAD: 2 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
150	83625	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M16; LENGTH: 30 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 27 MM; THREAD: 2 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
160	84536	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M16; LENGTH: 45 MM; HEAD: HEX; MATERIAL: MS; THREAD LENGTH: 25 MM; THREAD: 2 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; BOLT PROTECTIVE COATING: BLACK; COARSE THREADED, FREE FIT, SPECIFICATION: SABS 135	KG
170	83584	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M16; LENGTH: 65 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 40 MM; THREAD: 2 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; BOLT PROTECTIVE COATING: BLACK; SOLE SOURCE: CLYDE BERGEMANN AFRICA PTY LTD; SPECIFICATION: SABS 135	KG

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **8 of 36**

Item	Material	Purchase Order Text	Unit of Measure
180	84589	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M16; LENGTH: 75 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 38 MM; THREAD: 2 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
190	84601	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M20; LENGTH: 100 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 55 MM; THREAD: 2.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
200	84603	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M20; LENGTH: 125 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 50 MM; THREAD: 2.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS1 35	KG
210	84605	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M20; LENGTH: 150 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 55 MM; THREAD: 2.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
220	83599	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M20; LENGTH: 50 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 33 MM; THREAD: 2.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
230	640034	BOLT, ASSEMBLY: TYPE: GP; NOMINAL DIAMETER: M20; LENGTH: 75 MM; HEAD: HEX WID; ACROSS FLAT; GRADE: 8.8; MATERIAL: MEDIUM CS; THREAD LENGTH: FULL; THREAD: METRIC; NUT QUANTITY: 1; M20; P=2.5MM (DIN 13-1)	KG
240	84600	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M20; LENGTH: 75 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 48 MM; THREAD: 2.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
250	84618	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M6; LENGTH: 25 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 23 MM; THREAD: 1 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
260	84623	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M6; LENGTH: 75 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 20 MM; THREAD: 1 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **9 of 36**

Item	Material	Purchase Order Text	Unit of Measure
270	84553	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M8; LENGTH: 25 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 25 MM; THREAD: 1.25 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; DIN555; SPECIFICATION: SABS 135	KG
280	84555	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M8; LENGTH: 50 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 25 MM; THREAD: 1.25 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
290	84557	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M8; LENGTH: 75 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 25 MM; THREAD: 1.25 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
300	686117	BOLT, ASSEMBLY: TYPE: HEAD STRUCTURAL; NOMINAL DIAMETER: M20; LENGTH: 80 MM; HEAD: HEXAGON; GRADE: 8.8; MATERIAL: STL HIGH TENSILE; THREAD LENGTH: 2.5 MM; THREAD: METRIC; NUT QUANTITY: 1; NUT MATERIAL: STL; SPECIFICATION: DIN 601	EA
310	639728	BOLT, ASSEMBLY: TYPE: HEV BOLT; NOMINAL DIAMETER: 12 MM; LENGTH: 40 MM; HEAD: HEX ACCROSS FLAT; GRADE: 8.8; MATERIAL: MEDIUM CS; THREAD LENGTH: FULL; THREAD: METRIC; NUT QUANTITY: 1	KG
320	640684	BOLT, ASSEMBLY: TYPE: HEX BOLT; NOMINAL DIAMETER: 12 MM; LENGTH: 50 MM; HEAD: HEX ACCROSS FLAT; GRADE: 8.8; MATERIAL: MEDIUM CS; THREAD LENGTH: FULL; THREAD: METRIC; NUT QUANTITY: 100; M12; P=1.75 (DIN 13-1)	EA
330	641120	BOLT, ASSEMBLY: TYPE: HEX BOLT; NOMINAL DIAMETER: 12 MM; LENGTH: 50 MM; HEAD: HEX ACCROSS FLAT; GRADE: 8.8; MATERIAL: MEDIUM CS; THREAD LENGTH: FULL; THREAD: METRIC; NUT QUANTITY: 1	KG
340	639724	BOLT, ASSEMBLY: TYPE: HEX BOLT; NOMINAL DIAMETER: 12 MM; LENGTH: 75 MM; HEAD: HEX ACCROSS FLAT; GRADE: 8.8; MATERIAL: MEDIUM CS; THREAD LENGTH: FULL; THREAD: METRIC; NUT QUANTITY: 1; M20; P=2.5 (DIN 13-1)	KG
350	639713	BOLT, ASSEMBLY: TYPE: HEX BOLT; NOMINAL DIAMETER: 16 MM; LENGTH: 30 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: MEDIUM CS; THREAD LENGTH: FULL; THREAD: METRIC; NUT QUANTITY: 1	KG
360	639752	BOLT, ASSEMBLY: TYPE: HEX BOLT; NOMINAL DIAMETER: 16 MM; LENGTH: 65 MM; HEAD: HEX WID; ACROSS FLAT; GRADE: 8.8; MATERIAL: MEDIUM CS; THREAD LENGTH: FULL; THREAD: METRIC; NUT QUANTITY: 1; M16; P=2MM; DIN (13-1)	KG

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **10 of 36**

Item	Material	Purchase Order Text	Unit of Measure
370	639749	BOLT, ASSEMBLY: TYPE: HEX BOLT; NOMINAL DIAMETER: 16 MM; LENGTH: 75 MM; HEAD: HEX ACCROSS FLAT; GRADE: 8.8; MATERIAL: MEDIUM CS; THREAD LENGTH: FULL; THREAD: METRIC; NUT QUANTITY: 1 PER BOLT MM; M16; P=2MM (DIN 13-1)	KG
380	640009	BOLT, ASSEMBLY: TYPE: HEX BOLT; NOMINAL DIAMETER: 20 MM; LENGTH: 100 MM; HEAD: HEX ACCROSS FLAT; GRADE: 8.8; MATERIAL: MEDIUM CS; THREAD LENGTH: FULL; THREAD: METRIC; NUT QUANTITY: 1; M20; P=2.5 (DIN 13-1)	KG
390	639758	BOLT, ASSEMBLY: TYPE: HEX BOLT; NOMINAL DIAMETER: 20 MM; LENGTH: 125 MM; HEAD: HEX WID; ACROSS FLAT; GRADE: 8.8; MATERIAL: MEDIUM CS; THREAD LENGTH: FULL; THREAD: METRIC; NUT QUANTITY: 1; M20; P=2.5MM (DIN 13-1)	KG
400	640547	BOLT, ASSEMBLY: TYPE: HEX BOLT; NOMINAL DIAMETER: 20 MM; LENGTH: 150 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: MEDIUM CS; THREAD LENGTH: FULL; THREAD: METRIC; NUT QUANTITY: 1	KG
410	84534	BOLT, ASSEMBLY: NOMINAL DIAMETER: M10; LENGTH: 30 MM; HEAD: HEX; MATERIAL: MS; THREAD: 1.5 MM; BOLT PROTECTIVE COATING: BLACK; WITH NUTS; SPECIFICATION: SABS135	KG
420	84562	BOLT, ASSEMBLY: NOMINAL DIAMETER: M10; LENGTH: 45 MM; HEAD: HEX; MATERIAL: MS; THREAD: 1.5 MM; NUT QUANTITY: 1; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS135	KG
430	84573	BOLT, ASSEMBLY: NOMINAL DIAMETER: M12; LENGTH: 45 MM; HEAD: HEX; MATERIAL: MS; THREAD: 1.75 MM; NUT QUANTITY: 1; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS135: 1985	KG
440	84173	BOLT, ASSEMBLY: NOMINAL DIAMETER: M24; LENGTH: 170 MM; HEAD: HEX; MATERIAL: 42CRM04; THREAD: 3 MM; NUT QUANTITY: 1; REFERENCE NO: M24X170	EA
450	84245	BOLT, ASSEMBLY: NOMINAL DIAMETER: M27; LENGTH: 145 MM; HEAD: OVAL; GRADE: 8.8; MATERIAL: HTS; THREAD: 3 MM; NUT QUANTITY: 1; NUT GRADE: 8; DRAWING NO: ESKOM 20.58/55894 REV 1; 20.58/55894 ESK REV 1; MILL LINER, TO BE SUPPLIED AS PER ESKOM DRAWING LATEST REVISION ON MATIMBA FTR SYSTEM, CONSISTING OF THE FOLLOWING ITEMS: ITEM 1- ITEM 4 - NYLOCK NUT	EA
460	84097	BOLT, ASSEMBLY: NOMINAL DIAMETER: M40; LENGTH: 230 MM; HEAD: HEX; MATERIAL: GE7866; THREAD: 3 MM; NUT QUANTITY: 1; SUPPL P/N: MB 156 0123 57	EA
470	84175	BOLT, ASSEMBLY: NOMINAL DIAMETER: M6; LENGTH: 18 MM; HEAD: HEX; MATERIAL: MS; THREAD: 1 MM; BOLT PROTECTIVE COATING: CD PLTD; REFERENCE NO: 100AF1VA612; FIXED SELF LOCKING WASHER, WASHER SIZE: 14MM	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **11 of 36**

Item	Material	Purchase Order Text	Unit of Measure
480	227898	BOLT, ASSEMBLY: TYPE: MILL LINER; NOMINAL DIAMETER: M27; LENGTH: 210 MM; HEAD: OVAL; GRADE: 8.8; MATERIAL: HTS; THREAD: 3 MM; NUT QUANTITY: 1; DRAWING NO: ESKOM 20.58/55894 REV 1; 20.58/55894 ESK REV 1; TO BE SUPPLIED AS PER ESKOM DRAWING LATEST REVISION AS PER MATIMBA FTR SYSTEM, CONSISTING OF THE FOLLOWING ITEMS- ITEM 1- BOLT , ITEM 4 - NYLOCK NUT GRADE 8	EA
490	227899	BOLT, ASSEMBLY: TYPE: MILL LINER; NOMINAL DIAMETER: M27; LENGTH: 225 MM; HEAD: OVAL; GRADE: 8.8; MATERIAL: HTS; THREAD LENGTH: 3 MM; NUT QUANTITY: 1; NUT GRADE: 8; DRAWING NO: ESKOM 20.58/55894 REV 1; 20.58/55894 ESK REV 1; MILL LINER, TO BE SUPPLIED AS PER ESKOM DRAWING LATEST REVISION AS PER MATIMBA FTR SYSTEM, CONSISTING OF THE FOLLOWING ITEMS: ITEM 1- ITEM 4 - NYLOCK NUT	EA
500	227900	BOLT, ASSEMBLY: TYPE: MILL LINER; NOMINAL DIAMETER: M27; LENGTH: 310 MM; HEAD: OVAL; GRADE: 8.8; MATERIAL: HTS; THREAD: 3 MM; NUT QUANTITY: 1; DRAWING NO: 20.58/55894 ESK REV 1; ESKOM 20.58/55894 REV 1; TO BE SUPPLIED AS PER ESKOM DRAWING LATEST REVISION AS PER MATIMBA FTR SYSTEM, CONSISTING OF THE FOLLOWING - ITEM 1- BOLT, ITEM 4 - NYLOCK NUT GRADE 8	EA
510	84414	BOLT, ASSEMBLY: TYPE: NIB; NOMINAL DIAMETER: M16; LENGTH: 50 MM; HEAD: CSK KEYED; GRADE: 4.6; MATERIAL: MS; THREAD: 2 MM; NUT QUANTITY: 1; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 1143	KG
520	219032	BOLT, ASSEMBLY: TYPE: SCRAPER ASSY; NOMINAL DIAMETER: M14; LENGTH: 75 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: STL; NUT QUANTITY: 1	EA
530	687921	BOLT, ASSEMBLY: TYPE: SET SCREW; NOMINAL DIAMETER: 16 MM; LENGTH: 120 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: STL; THREAD LENGTH: 38 MM; THREAD: METRIC; NUT QUANTITY: 1; 16 X 1.5; USUALLY SUPPLIED IN 1 BAG OFF 10	EA
540	84072	BOLT, ASSEMBLY: TYPE: T; LENGTH: 67 MM; MATERIAL: MS BRIGHT; THREAD: 2 MM; NUT QUANTITY: 1; DRAWING NO: 20.58/55578 REV SHEET 5; REFERENCE NO: 3283-009-102; CAM ROLLER BOLT: OVERHAUL LG 67MM; THREAD SIZE M16 X 25; U SHAPE HEAD; COMPLETE WITH CLEVELOCK NUT; TO BE MANUFACTURED ACCORDING TO ESKOM DRAWING	EA
550	38744	BOLT, MACHINE: DIAMETER: M12; LENGTH: 29.8 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD: METRIC; THREAD LENGTH: 12.3 MM; TYPE: SHEAR PIN; SCREW SHEAR PIN FOR CLEANOUT 2ND REDUCER MVF130P; SCREW- IN TYPE, PIN LENGTH 10 MM LG X 10 MM OD, USED ON COAL FEEDER; SUPPLY BOLT ACCORDING TO DRAWING 52450	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **12 of 36**

Item	Material	Purchase Order Text	Unit of Measure
560	84628	BOLT, MACHINE: DIAMETER: M16; HEAD: HEX; MATERIAL: SS GR 316; THREAD: 2 MM; THREAD LENGTH: 40 MM; SPECIFICATION: SABS 136; COARSE THREAD, MEDIUM FIT, TABLE 11	EA
570	83645	BOLT, MACHINE: DIAMETER: M16; LENGTH: 45 MM; HEAD: HEX; MATERIAL: SS GR 316; THREAD: 2 MM; SPECIFICATION: SABS 136-1985 TABLE 11; COARSE THREADS, MEDIUM FIT	EA
580	84069	BOLT, MACHINE: DIAMETER: M16; LENGTH: 95 MM; HEAD: HEX; MATERIAL: SS GR 316; THREAD: 2 MM	EA
590	1092	BOLT, MACHINE: DIAMETER: M16; LENGTH: 65 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: HTS; THREAD: 2 MM; SPECIFICATION: DIN 931; TYPE: ANCHOR; SUPPL P/N: M16; DOUBLE HEAT TREATED; COARSE THREAD; MEDIUM FIT; EFP BALANCE LINE ROUND FLANGE; LAC; APOOL	EA
600	85088	BOLT, MACHINE: DIAMETER: M20; LENGTH: 110 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: HTS; THREAD: 2.5 MM; THREAD LENGTH: 55 MM; SPECIFICATION: DIN 931; DOUBLE HEAT TREATED	EA
610	83568	BOLT, MACHINE: DIAMETER: M20; LENGTH: 250 MM; HEAD: VEE; MATERIAL: HTS; THREAD: 2.5 MM; HEX; TYPE: FINTAIL	EA
620	1138	BOLT, MACHINE: DIAMETER: M20; LENGTH: 80 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: HTS; THREAD: 2.5 MM; THREAD LENGTH: 50 MM; METRIC COARSE THREAD, MEDIUM FIT	KG
630	83715	BOLT, MACHINE: DIAMETER: M24; LENGTH: 120 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: HTS; THREAD: 3 MM; SPECIFICATION: DIN 931; WITHOUT NUT	EA
640	84641	BOLT, MACHINE: DIAMETER: M30; LENGTH: 130 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: HTS; THREAD: 3.5 MM; SPECIFICATION: DIN 931; SUPPL P/N: AN001MG01; DOUBLE HEAT TREATED, ACC FAN OUTPUT COUPLING HUB BOLTS, MAG	EA
650	84044	BOLT, MACHINE: DIAMETER: M33; LENGTH: 130 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: GR CK35; THREAD: 3.5 MM; THREAD LENGTH: 80 MM; SPECIFICATION: DIN 931; TYPE: EFP BOOSTER PUMP; SUPPL P/N: 99/100; REFERENCE NO: DIN 931; HEAD FITS SIZE 50 MM SOCKET OPI 51400 ITM 27.06.14	EA
660	84240	BOLT, MACHINE: DIAMETER: M33; LENGTH: 150 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: HTS; THREAD: 3.5 MM; SPECIFICATION: DIN 931; TYPE: METRIC COARSE; METRIC COARSE THREAD, MEDIUM FIT; UNC	EA
670	84167	BOLT, T: DIAMETER: M24; LENGTH: 160 MM; THREAD: 3 MM; MATERIAL: HTS; HEAD SIZE: 42MM LONG X 24MM WIDE X 12MM HIGH	EA
680	687926	BOLT, U: NOMINAL SIZE: 110 MM; DIAMETER: M16; LOAD RATING: 650 KG; THREAD: METRIC; MATERIAL: STAINLESS STEEL; GRADE: 8.8; TYPE: FASTENER	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **13 of 36**

Item	Material	Purchase Order Text	Unit of Measure
690	687928	BOLT, U: NOMINAL SIZE: 15 MM; DIAMETER: M6; LOAD RATING: 263 KG; THREAD: METRIC; MATERIAL: SS 304; GRADE: 8.8; TYPE: FASTENER	EA
700	84293	BOLT, U: NOMINAL SIZE: 190 MM; DIAMETER: M30; LOAD RATING: 115.8 KNM; INSIDE LENGTH: 294 MM; THREAD LENGTH: 80 MM; THREAD: 3.5 MM; MATERIAL: STL GR EN9; INSIDE WIDTH: 190 MM; GRADE: 8.8; SPECIFICATION: BS 970-070-M55; SABS 136 COND T; PROTECTIVE COATING: GALV; DRAWING NO: 0.84/4135; WITH DOME WASHER AND NUTS; OD TO BE UNIFORM THROUGHOUT THE TOTAL 30 MM LENGTH NOT JUST THREADS; FOR ACC FAN BLADE; THREAD: ROLLED; HEAT TREATED; HEAT TREATMENT: AFTER THREADING AND BENDING AND TEMPER TO ACHIEVE GRADE ISO 898 GRADE 8.8 ACCORDING TO SABS136-1985; CRACK TEST AND MATERIAL CERTIFICATES TO BE SUBMITTED; WITH 63X31X2.5 DIN 2093 -B63 GROUP 2 DOME WASHER WITH A TOTAL DOME HEIGHT OF 4.25MM; TOTAL LOAD ON A 0.8MM DEFLECTION OF 5000N AND 7100N ON 1.3MM DEFLECTION OF DOME WASHER SUPPLIED WITH NUTS	EA
710	687927	BOLT, U: NOMINAL SIZE: 25 MM; DIAMETER: M6; LOAD RATING: 263 KG; THREAD: METRIC; MATERIAL: SS 304; WITH NUTS	EA
720	83596	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M10; LENGTH: 200 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: MS; THREAD LENGTH: 35 MM; THREAD: 1.5 MM; NUT QUANTITY: 1; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS135	KG
730	640031	BOLT, ASSEMBLY: TYPE: GP; NOMINAL DIAMETER: M16; LENGTH: 75 MM; HEAD: HEX WID; ACROSS FLAT; GRADE: 8.8; MATERIAL: MEDIUM CS; THREAD LENGTH: FULL; THREAD: METRIC; NUT QUANTITY: 1; M16; P=2MM (DIN 13-1)	KG
740	84620	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M6; LENGTH: 40 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 20 MM; THREAD: 1 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
750	639727	BOLT, ASSEMBLY: TYPE: HEX BOLT; NOMINAL DIAMETER: 16 MM; LENGTH: 100 MM; HEAD: HEX WID; ACROSS FLAT; GRADE: 8.8; MATERIAL: MEDIUM CS; THREAD LENGTH: FULL THREAD; THREAD: METRIC; NUT QUANTITY: 1	KG
760	639748	BOLT, ASSEMBLY: TYPE: HEX BOLT; NOMINAL DIAMETER: 16 MM; LENGTH: 45 MM; HEAD: HEX ACCROSS FLAT; GRADE: 8.8; MATERIAL: MEDIUM CS; THREAD LENGTH: FULL; THREAD: METRIC; NUT QUANTITY: 1; M20; P=2.5 (DIN 13-1)	KG
770	609660	BOLT, EYE: TYPE: PIG TAIL; DIAMETER: M10; LOAD RATING: 100 KG; SHANK LENGTH: 115 MM; THREAD LENGTH: 75 MM; THREAD: METRIC; MATERIAL: MS; PROTECTIVE COATING: ELECTROPLATED	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **14 of 36**

Item	Material	Purchase Order Text	Unit of Measure
780	84565	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M10; LENGTH: 75 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 28 MM; THREAD: 1.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
790	84567	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M10; LENGTH: 100 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 27 MM; THREAD: 1.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
800	84580	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M12; LENGTH: 125 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MS; THREAD LENGTH: 40 MM; THREAD: 1.75 MM; NUT QUANTITY: 1; NUT MATERIAL: MS; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	KG
810	84690	BOLT, MACHINE: DIAMETER: M12; LENGTH: 50 MM; HEAD: HEX; MATERIAL: BRASS; THREAD: 1.75 MM; SPECIFICATION: SABS 136	EA
820	83646	BOLT, MACHINE: DIAMETER: M16; LENGTH: 60 MM; HEAD: HEX; GRADE: 316; MATERIAL: STAINLESS STEEL; THREAD: 2 MM; THREAD LENGTH: 40 MM; SPECIFICATION: SABS 136; COARSE THREAD, MEDIUM FIT, MATERIAL CERTIFICATE TO BE SUPPLIED WITH EVERY DELIVERY	EA
830	681338	BOLT: TYPE: CLEAVE NUT; DIAMETER: M30; LENGTH: 120 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: CARBON STL; MOUNTING BOLTS WITH CLEAVE NUTS	KG
840	686456	BOLT: TYPE: CLEAVE NUT; DIAMETER: M30; LENGTH: 120 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: CARBON STL; MOUNTING BOLTS WITH CLEAVE NUTS	EA
850	84079	BOLT: TYPE: COUPLING; DIAMETER: M8; LENGTH: 115 MM; HEAD: RD; MATERIAL: STL; THREAD: 1.25 MM; DRAWING NO: ESC.0.58/7650 REV 1; REFERENCE NO: 010; FOR AUXILLARY OIL PUMP * TYPE ETA 200-40VL; KKS NO: MAV 12 AP 001	EA
860	679934	BOLT: TYPE: DRAUGHT GROUP; DIAMETER: M12; LENGTH: 65 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: CARBON STEEL	EA
870	574563	BOLT: TYPE: FASTENER; DIAMETER: M14; LENGTH: 55 MM; HEAD: HEX; GRADE: 10.9; MATERIAL: HT; COMPLETE WITH NUTS	KG
880	686175	BOLT: TYPE: FASTENER; DIAMETER: M24; LENGTH: 100 MM; HEAD: PLAIN; GRADE: 8.8; MATERIAL: STL HIGH TENSILE; THREAD: METRIC	EA
890	693965	BOLT: TYPE: FLANGED; DIAMETER: M6; LENGTH: 16 MM; HEAD: HEXAGON; GRADE: 4.6; MATERIAL: MS; THREAD: RH TR M6 X 1; THREAD LENGTH: 16 MM; SPECIFICATION: ISO 225:2010; FULL THREAD	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                 **1**  
Page:                      **15 of 36**

Item	Material	Purchase Order Text	Unit of Measure
900	659432	BOLT: TYPE: FULL THREAD; DIAMETER: M24; LENGTH: 160 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: CS	EA
910	615095	BOLT: TYPE: HEX HEAD; DIAMETER: M30; LENGTH: 150 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: STL GALV; SPECIFICATION: ISO 9001; FURNISHED ITEMS: NUT; WASHER; TOTAL LENGTH 172MM	EA
920	615094	BOLT: TYPE: HEX HEAD; DIAMETER: M30; LENGTH: 200 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: STL GALV; FURNISHED ITEMS: NUT; WASHER	EA
930	640687	BOLT: TYPE: HEX; DIAMETER: M20; LENGTH: 110 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: CARBON STEEL	KG
940	640689	BOLT: TYPE: HEX; DIAMETER: M20; LENGTH: 115 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: CS	KG
950	640026	BOLT: TYPE: HEX; DIAMETER: M20; LENGTH: 115 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: CS	KG
960	640885	BOLT: TYPE: HEX; DIAMETER: M20; LENGTH: 150 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: CS	KG
970	640688	BOLT: TYPE: HEX; DIAMETER: M20; LENGTH: 175 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: CS	KG
980	681337	BOLT: TYPE: PINION; DIAMETER: M24; LENGTH: 100 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: CARBON STL	KG
990	686458	BOLT: TYPE: PINION; DIAMETER: M24; LENGTH: 100 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: CARBON STL	EA
1000	682649	BOLT: TYPE: IP SHAFT GLAND; DIAMETER: M12; LENGTH: 35 MM; HEAD: HEX; MATERIAL: ALLOY STEEL; OEM P/N: 2680-072; DRAWING NO: 2680-072 REV 0	EA
1010	640021	BOLT: TYPE: TENSION; DIAMETER: M20; LENGTH: 110 MM; HEAD: HEX; GRADE: 8.8; MATERIAL: CS	KG
1020	89542	NUT, ADAPTOR: DIAMETER: 35 MM; SLOTS: 4; LOCKING METHOD: LOCK WASHER; THREAD: 1.5 MM; MATERIAL: STL; REFERENCE NO: KM7; METRIC FINE FIT, APPROPRIATE LOCKING WASHER MB7	EA
1030	50034	NUT, ADAPTOR: DIAMETER: 68 MM; LOCKING METHOD: STL INSERT; THREAD: 2 MM; REFERENCE NO: AN14; SLEEVE; SIZE: DIAMETER 92MM; I/DIAMETER (THREAD) M70X2; 12MM THICK	EA
1040	89545	NUT, ADAPTOR: DIAMETER: M60; LOCKING METHOD: LOCK WASHER; THREAD: 2 MM; MATERIAL: STL; SUPPL P/N: KM12; SLEEVE	EA
1050	89010	NUT, CAP: DIAMETER: 46 MM; THREAD: 5 MM; HEIGHT: 65 MM; MATERIAL: BRASS; HEXAGON; SCREWED 27MM LONG; TOP END ID 22MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
1060	88951	NUT, CAP: DIAMETER: M12; THREAD: 1.75 MM; HEIGHT: 39 MM; MATERIAL: CI; IMPELLER 3284011511; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **16 of 36**

Item	Material	Purchase Order Text	Unit of Measure
		DRAWING REVISION NUMBER (IF APPLICABLE).	
1070	89035	NUT, CAP: DIAMETER: M18; THREAD: 2.5 MM; HEIGHT: 48 MM; MATERIAL: CI; REFERENCE NO: M5809FA; IMPELLER FOR RECYCLE PUMP; FOR USE ON WATER CONDENSATE AND POLISHING PLANT; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
1080	88865	NUT, CAP: DIAMETER: M20; HEIGHT: 45 MM; BLIND; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
1090	87561	NUT, HEX: DIAMETER: 1BA; THREAD: 0.9 MM; NUT HEIGHT: 3/16 IN; MATERIAL: BRASS; GRADE: C10100; SPECIFICATION: BS 57; REFERENCE NO: 1BA	EA
1100	87560	NUT, HEX: DIAMETER: 3BA; THREAD: 0.73 MM; NUT HEIGHT: 3/32 IN; MATERIAL: BRASS; GRADE: C10100; SPECIFICATION: BS 57	EA
1110	57161	NUT, HEX: DIAMETER: 40 MM; THREAD: 2.5 MM; NUT HEIGHT: 12 MM; MATERIAL: STL GR B; SPECIFICATION: BS S1740; STEAM PIPE	EA
1120	57162	NUT, HEX: DIAMETER: 50 MM; THREAD: 2.5 MM; NUT HEIGHT: 12 MM; MATERIAL: STL; GRADE: B; SPECIFICATION: BS S1740-1965 AMENDMENT 1 TABLE 16; STEAM PIPE (LOCKNUT) BACK NUT, BSP, 78MM ACROSS FLATS	EA
1130	87558	NUT, HEX: DIAMETER: 5BA; THREAD: 0.59 MM; NUT HEIGHT: 1/8 IN; MATERIAL: BRASS; GRADE: C10100; SPECIFICATION: BS 57 TABLE 6	EA
1140	88926	NUT, HEX: DIAMETER: M12; THREAD: 1.75 MM; NUT HEIGHT: 10 MM; MATERIAL: STL; GRADE: 8; REFERENCE NO: D934; FOR USE ON REMOTE SIGNAL MONITOR	EA
1150	90060	NUT, HEX: DIAMETER: M12; THREAD: 1.75 MM; MATERIAL: MS	KG

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                      **17 of 36**

Item	Material	Purchase Order Text	Unit of Measure
1160	90061	NUT, HEX: DIAMETER: M16; THREAD: 2 MM; NUT HEIGHT: 12 MM; MATERIAL: MS GR B; GRADE: 1.0308; SPECIFICATION: BS S1740	KG
1170	89005	NUT, HEX: DIAMETER: M16; THREAD: 2 MM; NUT HEIGHT: 12.5 MM; MATERIAL: STAINLESS STEEL	EA
1180	87445	NUT, HEX: DIAMETER: M16; THREAD: 2 MM; MATERIAL: MS; LOCATING; FOR BUCKET ELEVATOR	EA
1190	89191	NUT, HEX: DIAMETER: M24; THREAD: 3 MM; NUT HEIGHT: 19 MM; MATERIAL: 24CRMO5V; USED ON COLD REHEAT TO AUX STEAM CONTROL	EA
1200	597251	NUT, HEX: DIAMETER: M24; THREAD: 3 MM; NUT HEIGHT: 21 MM; MATERIAL: MS; GRADE: 8.8	EA
1210	89623	NUT, HEX: DIAMETER: M30; THREAD: 3.5 MM; NUT HEIGHT: 22 MM; MATERIAL: HTS; GRADE: 8.8; SUPPL P/N: M30; ACC FAN OUTPUT COUPLING HUB BOLT NUTS	EA
1220	88922	NUT, HEX: DIAMETER: M33; THREAD: 3.5 MM; NUT HEIGHT: 27 MM; MATERIAL: STL CK35; GRADE: 8; SPECIFICATION: DIN 934; 49MM SOCKET HEAD DIN 267	EA
1230	89018	NUT, HEX: DIAMETER: M36; THREAD: 3 MM; NUT HEIGHT: 38 MM; MATERIAL: STL; GRADE: 8; REFERENCE NO: R45EV850FDA; HEAVY; COVER; REHEATER ISOLATING DEVICE; TYPE R45 EV 850 NFDA	EA
1240	83870	NUT, HEX: DIAMETER: M8; THREAD: 1.25 MM; NUT HEIGHT: 6.8 MM; MATERIAL: HTS GR 40; GRADE: 8; FOR USE ON INSERT RINGS	EA
1250	57159	NUT, LOCK: DIAMETER: 1 IN; LOCKING METHOD: SELF LOCKING; THREAD: 11BSP; MATERIAL: STL GALV; TYPE: STEAM PIPE	EA
1260	44662	NUT, LOCK: DIAMETER: 28 MM; LOCKING METHOD: STL INSERT; THREAD: 1.5 MM; MATERIAL: STL; NUT HEIGHT: 7 MM; SUPPL P/N: AN06; REFERENCE NO: 3284/011/571; 3284/011/571 SIMON CARVES; AN06; SIZE: OD 45 MM	EA
1270	89101	NUT, LOCK: DIAMETER: 40 MM; LOCKING METHOD: WASHER; THREAD: 1.5 MM; MATERIAL: STL; SUPPL P/N: KM8; ADAPTOR SLEEVE	EA
1280	88948	NUT, LOCK: DIAMETER: M12; LOCKING METHOD: SELF LOCKING; THREAD: 1.75 MM; MATERIAL: STL; NUT HEIGHT: 21 MM; TYPE: HEX; REFERENCE NO: 107716; 3284/001/23; GRIP SPRING	EA
1290	44671	NUT, LOCK: DIAMETER: M16; LOCKING METHOD: SELF LOCKING; THREAD: 2 MM; MATERIAL: STL; TYPE: IMPELLER; DRAWING NO: M 5073/4I REV 1; REFERENCE NO: P35585/6; FOR NOWA 32-20 CENTRIFUGAL PUMP; CENTRIFUGAL PUMP NOWA TO DIN24255; CIRCLE PUMPS; SIZE: M18 X 2.5MM PITCH X 10MM HIGH; WITH LOCKING GROOVES X TOTAL OF 16 HIGH CADMIUM PLATED	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                 **1**  
Page:                      **18 of 36**

Item	Material	Purchase Order Text	Unit of Measure
1300	87715	NUT, LOCK: DIAMETER: M16; LOCKING METHOD: WASHER; THREAD: 2 MM; MATERIAL: STL; GRADE: 8; SPECIFICATION: DIN 936	EA
1310	88986	NUT, LOCK: DIAMETER: M18; LOCKING METHOD: SELF LOCKING; THREAD: 2.5 MM; MATERIAL: STL; IMPELLER; 36MM OUTER DIAMETER	EA
1320	88950	NUT, LOCK: DIAMETER: M18; LOCKING METHOD: SPRING GRIP; THREAD: 2.5 MM; MATERIAL: STL; NUT HEIGHT: 24 MM; REFERENCE NO: 107715; 3284/001/102	EA
1330	57158	NUT, LOCK: DIAMETER: M20; LOCKING METHOD: SELF LOCKING; THREAD: 1.75 MM; MATERIAL: WS; NUT HEIGHT: 9.5 MM; GRADE: 4.6; STEAM PIPE BACK	EA
1340	44663	NUT, LOCK: DIAMETER: M24; LOCKING METHOD: NYLOC; THREAD: 3 MM; MATERIAL: STAINLESS STEEL; TYPE: IMPELLER; SUPPL P/N: 92.2; REFERENCE NO: 3284/011/453	EA
1350	89159	NUT, LOCK: DIAMETER: M24; LOCKING METHOD: NYLON INSERT; THREAD: 3 MM; MATERIAL: HTS	EA
1360	44660	NUT, LOCK: DIAMETER: M24; LOCKING METHOD: SELF LOCKING; THREAD: 2 MM; MATERIAL: STL; SUPPL P/N: 92.2; REFERENCE NO: 3284/011/448; IMPELLER SUPPLIER: SIMON CARVES	EA
1370	89041	NUT, LOCK: DIAMETER: M42; LOCKING METHOD: STL INSERT; THREAD: 1.5 MM; MATERIAL: STL; GROOVED; FOR HALBERG 2 STAGE PUMP TYPE HO 100 BX2	EA
1380	88925	NUT, LOCK: DIAMETER: M45; LOCKING METHOD: DEFORMED THD; THREAD: 4.5 MM; MATERIAL: GR CK35NFM; TYPE: HEX; DRAWING NO: 121/122 REV 1	EA
1390	89042	NUT, LOCK: DIAMETER: M60; LOCKING METHOD: STL INSERT; THREAD: 2 MM; MATERIAL: STL; GROOVED FOR HALBERG 1 STAGE PUMP, TYPE HO 150 AX1	EA
1400	88949	NUT, LOCK: DIAMETER: M9; LOCKING METHOD: SELF LOCKING; THREAD: 1.5 MM; MATERIAL: STL; NUT HEIGHT: 17 MM; TYPE: HEX; REFERENCE NO: 107717; 3284/001/82; GRIP SPRING	EA
1410	59500	NUT, TUBE FITTING: TYPE: HEX; DIAMETER: 3/8 IN; MATERIAL: BRASS; MANUF P/N: W002-167; RH GAS HOSE	EA
1420	59499	NUT, TUBE FITTING: TYPE: HEX; DIAMETER: 3/8 IN; MATERIAL: BRASS; THREAD: LH; SUPPL P/N: W002-166; GAS HOSE	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **19 of 36**

Item	Material	Purchase Order Text	Unit of Measure
1430	88960	NUT, TUBE FITTING: TYPE: UNION STANDARD; DIAMETER: M10; MATERIAL: SS GR 316; COMPLETE WITH FERRULES	EA
1440	87467	NUT, ADAPTOR: DIAMETER: 130 MM; SLOTS: 4; LOCKING METHOD: LOCK WASHER; THREAD: 2 MM; MATERIAL: STL; GRADE: MILD STEEL; REFERENCE NO: KM26; METRIC FINE FIT, 21MM THICK, 30DEG ANGLE OF CHAMBER, OD 165MM OF NUT, APPROPRIATE LOCKING WASHER MB26, APPROPRIATE HOOK SPANNER HN26	EA
1450	89128	NUT, ADAPTOR: DIAMETER: 105 MM; SLOTS: 4; LOCKING METHOD: STL INSERT; THREAD: 2 MM; MATERIAL: AXLE STL; GRADE: 8; REFERENCE NO: KM21; FOR AHX319 WITHDRAWAL SLEEVE, SIZE 18MM WD X140MM OD	EA
1460	88921	NUT, HEX: DIAMETER: M27; THREAD: 3 MM; NUT HEIGHT: 27.5 MM; MATERIAL: 21CRMO5; SPECIFICATION: DIN 2510; REFERENCE NO: DIN2510; HEAVY; FITS SIZE 40MM SOCKET; USED ON HIGH PRESSURE HEATER NO.6	EA
1470	88924	NUT, HEX: DIAMETER: M16; THREAD: 2 MM; MATERIAL: STL; GRADE: 8; REFERENCE NO: DIN934; SPECIFICATION DIN 267; SIZE 24MM HEAD	EA
1480	57156	NUT, HEX: DIAMETER: M10; THREAD: 1.5 MM; NUT HEIGHT: 8 MM; MATERIAL: STL WROUGHT; GRADE: 4.6; STEAM PIPE BACK	EA
1490	88680	NUT, HEX: DIAMETER: M20; THREAD: 2.5 MM; NUT HEIGHT: 16 MM; MATERIAL: BRASS; 30MM SOCKET HEAD; FOR USE ON STUD 910596/001	EA
1500	88864	NUT, HEX: DIAMETER: M20; THREAD: 2.5 MM; NUT HEIGHT: 16 MM; MATERIAL: SS GR A2	EA
1510	88923	NUT, HEX: DIAMETER: M20; THREAD: 2.5 MM; NUT HEIGHT: 20 MM; MATERIAL: STL CK35; SIZE 31MM SOCKET HEAD	EA
1520	615093	NUT, HEX: DIAMETER: M30; THREAD: METRIC; NUT HEIGHT: 23.5 MM; MATERIAL: STL GALV; GRADE: 8.8; SPECIFICATION: ISO 4032; THREAD RIGHT HAND SCREW	EA
1530	609261	NUT, LOCK: DIAMETER: 1-5/8 IN; LOCKING METHOD: SPLIT; THREAD: BSW; MATERIAL: STL EN23; NUT HEIGHT: 41 MM; TYPE: ROD; SPECIFICATION: PSB 002 010; FOR LP SERVICES COMPRESSOR (ELECTRICAL) MODEL: WH56N	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **20 of 36**

Item	Material	Purchase Order Text	Unit of Measure
1540	217196	NUT, LOCK: DIAMETER: 65 MM; LOCKING METHOD: LOCK WASHER; THREAD: 2 MM; MATERIAL: STL; SUPPL P/N: KM13	EA
1550	217197	NUT, LOCK: DIAMETER: 95 MM; LOCKING METHOD: LOCK WASHER; THREAD: 2 MM; MATERIAL: STL; SUPPL P/N: KM19	EA
1560	572927	NUT, SLOTTED: TYPE: SHAFT; DIAMETER: M36; THREAD: 5 MM; MATERIAL: 56T5V; REFERENCE NO: 2680/062	EA
1570	680155	NUT: TYPE: SLOTTED; THREAD: M48-5; MATERIAL: STEEL ALLOY; OEM P/N: 4260-063; DRAWING NO: 4260-063 REV -; LP-GENO BEARING ASSEMBLY	EA
1580	686803	NUT: TYPE: CONNECTION SUPPORT; DIAMETER: M10; THREAD: METRIC; MATERIAL: STAINLESS STEEL; MATERIAL GRADE: 304L; APPLICATION: SSC; SUPPLIED IN A BAG OF 100 NUTS; 75 MM	EA
1590	686892	NUT: TYPE: CONNECTION SUPPORT; DIAMETER: M24; THREAD: METRIC; MATERIAL: HIGH TENSILE STL; MATERIAL GRADE: 8.8; APPLICATION: SSC; 24 MM; USUALLY SUPPLIED IN ONE BAG OF 25	EA
1600	686802	NUT: TYPE: CONNECTION; DIAMETER: M8; THREAD: METRIC; MATERIAL: STAINLESS STEEL; MATERIAL GRADE: 304L; APPLICATION: SSC; SUPPLIED IN A BAG OF 100; 30MM	EA
1610	659378	NUT: TYPE: DOME; DIAMETER: 6 MM; THREAD: M64 X 1 MM; MATERIAL: STAINLESS STEEL; SUPPL P/N: 3-0241	EA
1620	89006	NUT: TYPE: DOUBLE; DIAMETER: M16; THREAD: 2 MM; MATERIAL: BRASS; SUPPL P/N: G41316	EA
1630	693964	NUT: TYPE: FLANGED CLEVELOC; DIAMETER: M6; THREAD: RH TR M6 X 1; MATERIAL: MS; SPECIFICATION: ISO 225:2010; MATERIAL GRADE: 4.6; APPLICATION: PRECIPITATOR COLLECTOR PLATE; RIGHT HAND THREAD ONLY; METRIC; ALL METAL	EA
1640	689549	NUT: TYPE: FLARE; DIAMETER: 1/2 IN; THREAD: BSP; MATERIAL: BRZ COPPER; APPLICATION: AIR CONDITIONING	EA
1650	689551	NUT: TYPE: FLARE; DIAMETER: 1/4 IN; THREAD: BSP; MATERIAL: BRASS; APPLICATION: AIR CONDITIONING; THESE FLARE NUTS ENABLE TWO PIECES OF COPPER TUBE TO BE CONNECTED WHEN USED IN CONJUNCTION WITH ONE AIR CONDITIONING MALE FLARE UNIONS AND TWO SAME SIZED FLARE NUTS	EA
1660	689556	NUT: TYPE: FLARE; DIAMETER: 3/8 IN; THREAD: METRIC; MATERIAL: COPPER	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **21 of 36**

Item	Material	Purchase Order Text	Unit of Measure
1670	689560	NUT: TYPE: FLARE; DIAMETER: 5/8 IN; THREAD: METRIC; MATERIAL: COPPER; MODEL NO: DNS4-10	EA
1680	689562	NUT: TYPE: FLARE; DIAMETER: 7/8 IN; THREAD: BSP; MATERIAL: BRZ; APPLICATION: AIR CONDITIONING	EA
1690	620421	NUT: TYPE: HEX NYLOCK; DIAMETER: M20; THREAD: M20-2.5; MATERIAL: HTS; MATERIAL GRADE: SS A4	EA
1700	210213	NUT: TYPE: HOSE NIPPLE; DIAMETER: 1/4 IN; THREAD: BSP; MATERIAL: BRASS; SUPPL P/N: W002-517	EA
1710	89037	NUT: TYPE: IMPELLER; REFERENCE NO: M5791FA; FOR RECOVERED SULPHURIC ACID	EA
1720	88928	NUT: TYPE: STOP; DIAMETER: M12; THREAD: 1.25 MM; MATERIAL: ALUMINIUM; REFERENCE NO: 60809001; FOR REDUCER COMPRESSED AIR FILTER; BIG END SIZE: I/DIAMETER 11MM; O/DIAMETER 16MM; SMALL END SIZE: I/DIAMETER 4MM O/DIAMETER 9.5MM; KKS: MKW12 BY001 AND 2, MKW61 BY001 AND 2 AND MKW71 BY001 AND 2	EA
1730	581952	NUT: TYPE: NOZZLE; DIAMETER: 16 MM; THREAD: LH; MATERIAL: BRZ; APPLICATION: CUTTING TORCH; MANUF P/N: W005850; TYPE 2 AND UNIVERSAL	EA
1740	662270	ROD, THREADED: DIAMETER: 12 MM; THREAD: M12; LENGTH: 1 M; MATERIAL: HTS	EA
1750	86438	SCREW, ASSEMBLY: NOMINAL DIAMETER: M6; LENGTH: 12 MM; THREAD: 1 MM; HEAD: FLAT SLOTTED; MATERIAL: STL; GRADE: 8.8; NUT QUANTITY: 1; REFERENCE NO: NB 323000 P2700; CONE POINT; HEADLESS THREADED STUD WITH SPLIT NUT; MATERIAL BRASS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
1760	80745	SCREW, CAP: DIAMETER: M12; LENGTH: 40 MM; THREAD: 1.75 MM; HEAD: HEX; MATERIAL: STL; GRADE: 8.8; REFERENCE NO: 75040; EACH= 25KG BAG	KG
1770	81608	SCREW, CAP: DIAMETER: M20; LENGTH: 50 MM; THREAD: 2.5 MM; HEAD: SOCKET HEX; MATERIAL: 21CRM0V57V; GRADE: 8.8; REFERENCE NO: D912; POS NO:3940/024 & 034; HEAD FITS SIZE 17MM ALLEN KEY; USED ON HP + IP + LP DIAPHRAGM SUSPENSIONS	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **22 of 36**

Item	Material	Purchase Order Text	Unit of Measure
1780	81828	SCREW, CAP: DIAMETER: M10; LENGTH: 25 MM; THREAD: 1.5 MM; HEAD: HEX; MATERIAL: STL; GRADE: 8.8; DRAWING NO: 18.1511.1014 REV 1; DESIGN GROUP: 15115/5-13; FOR AEG 200MW TURBINE UNIT 1	EA
1790	80767	SCREW, CAP: DIAMETER: M10; LENGTH: 25 MM; THREAD: 1.5 MM; HEAD: SOCKET HEX; MATERIAL: HTS; GRADE: 12.9; SPECIFICATION: BS 4168; KNURLED HEAD; ISO METRIC THREAD; COARSE THREAD; MEDIUM FIT	EA
1800	687180	SCREW, CAP: DIAMETER: M10; LENGTH: 30 MM; THREAD: 10 MM; HEAD: HEX SOCKET CAP; MATERIAL: SS 304; GRADE: 304; USUALLY SUPPLIED IN A BAG OF 10 EACH	EA
1810	81892	SCREW, CAP: DIAMETER: M10; LENGTH: 35 MM; THREAD: 1.5 MM; HEAD: HEX; MATERIAL: STL; GRADE: 8.8; SPECIFICATION: SABS 136; DRAWING NO: 18.1712.0061 REV 1; DESIGN GROUP: 17121/37; FOR AEG 200MW TURBINE UNIT 1	EA
1820	686129	SCREW, CAP: DIAMETER: M10; LENGTH: 35 MM; THREAD: METRIC; HEAD: HEX; MATERIAL: STL; GRADE: 12.9	EA
1830	81603	SCREW, CAP: DIAMETER: M16; LENGTH: 100 MM; THREAD: 2 MM; HEAD: SOCKET HEX; MATERIAL: STL; GRADE: 8.8; CAT NO: 36.401374; 24MM SOCKET HEAD; FOR EXCITER COUPLING KKS: MKC10 HB001	EA
1840	81574	SCREW, CAP: DIAMETER: M16; LENGTH: 30 MM; THREAD: 2 MM; HEAD: HEX; MATERIAL: STL; GRADE: 8.8; REFERENCE NO: D933; SIZE: 24MM SOCKET HEAD; USED ON INSERT RINGS	EA
1850	81904	SCREW, CAP: DIAMETER: M16; LENGTH: 30 MM; THREAD: 2 MM; HEAD: SOCKET HEX; MATERIAL: STL; GRADE: 8.8; FOR AEG 200MW TURBINE; EFP BALANCE LINE OVAL FLANGE; LAC; AP001	EA
1860	81886	SCREW, CAP: DIAMETER: M16; LENGTH: 35 MM; THREAD: 2 MM; HEAD: SOCKET HEX; MATERIAL: STL; GRADE: 8.8; FOR AEG 200MW TURBINE; EFP BALANCE LINE ROUND FLANGE; LAC; AP001	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **23 of 36**

Item	Material	Purchase Order Text	Unit of Measure
1870	81598	SCREW, CAP: DIAMETER: M16; LENGTH: 50 MM; THREAD: 2 MM; HEAD: HEX; MATERIAL: STL; GRADE: 5.6; DRAWING NO: MATIMBA 20.58/52381 REV 1; REFERENCE NO: 20.58/52381; SIZE 19MM SOCKET HEAD X 11MM HIGH; WITH 3MM DIA HOLE FOR LOCKING WIRE; NOSE OF SCREW TO BE RADIAS SHAPED +/- 1.5MM; KKS NO: 10-60LAD (51/52)(61/62)	EA
1880	81604	SCREW, CAP: DIAMETER: M20; LENGTH: 40 MM; THREAD: 2.5 MM; HEAD: SOCKET HEX; MATERIAL: STL; GRADE: 8.8; SUPPL P/N: M20; HEAD FITS SIZE 30MM SOCKET; FOR USE ON ROTOR / ELECTRICAL FEED PUMP; LAC; APOOL; KKS NO: MKC10 LHB001	EA
1890	81526	SCREW, CAP: DIAMETER: M20; LENGTH: 65 MM; HEAD: SOCKET HEX; MATERIAL: HTS; USE 5305705492252	EA
1900	81685	SCREW, CAP: DIAMETER: M24; LENGTH: 65 MM; THREAD: 3 MM; HEAD: HEX; MATERIAL: HTS; GRADE: 12.9; SPECIFICATION: SABS 136-1985 TABLE 1; 800MPA TENSILE STRENGTH; COARSE THREAD; ISO METRIC FULL THREAD; EFP PUMPS FLANGE; LAC; AP001	EA
1910	81597	SCREW, CAP: DIAMETER: M24; LENGTH: 85 MM; THREAD: 1.5 MM; HEAD: HEX; MATERIAL: STL; GRADE: 8.8; 36MM	EA
1920	81602	SCREW, CAP: DIAMETER: M36; LENGTH: 124 MM; THREAD: 4 MM; HEAD: SOCKET HEX; MATERIAL: 36CRNIMO16; GRADE: 8.8; REFERENCE NO: TKJ91-30; 36.300571; HEXAGON HEAD; 50MM SOCKET HEAD; FOR EXITER COUPLING	EA
1930	84053	SCREW, CAP: DIAMETER: M42; LENGTH: 100 MM; THREAD: 4.5 MM; HEAD: HEX; MATERIAL: MS; GRADE: 8.8; DRAWING NO: HTAM234117P4 REV 1; 65MM SOCKET HEAD	EA
1940	182484	SCREW, CAP: DIAMETER: M6; LENGTH: 20 MM; HEAD: SOCKET; MATERIAL: STL GR 9.00A4; DRAWING NO: 015837 00 X ITEM NO: 20 REV 1; 015837 00 X REV 1; FILLISTER	EA
1950	84148	SCREW, CAP: DIAMETER: M8; LENGTH: 25 MM; THREAD: 1.25 MM; HEAD: SOCKET HEX; MATERIAL: STAINLESS STEEL; GRADE: 8.0; SPECIFICATION: TA4; SEMPELL VALVE HKS1 100 NB NRV KKS NO: HAN 20 AA 001; SELF LOCKING; OVERALL LENGTH 34MM	EA
1960	80784	SCREW, CAP: DIAMETER: M8; LENGTH: 30 MM; THREAD: 1.25 MM; HEAD: SOCKET HEX; MATERIAL: HTS; GRADE: 12.9; SPECIFICATION: BS 4168-1981 PART 1	EA
1970	83098	SCREW, CAP: DIAMETER: M8; LENGTH: 30 MM; THREAD: 1.25 MM; HEAD: SOCKET HEX; MATERIAL: SS GR 316	EA
1980	81605	SCREW, CAP: DIAMETER: M9; LENGTH: 10 MM; THREAD: 1 MM; HEAD: SOCKET HEX; MATERIAL: STL; GRADE: 8.8; REFERENCE NO: 3284/001/62; LONG METRIC FINE THREADED; OVERALL LENGTH 34MM	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                 **1**  
Page:                      **24 of 36**

Item	Material	Purchase Order Text	Unit of Measure
1990	248682	SCREW, MACHINE: DIAMETER: 17.42 MM; LENGTH: 130 MM; THREAD: METRIC; HEAD: HEX; MATERIAL: STAINLESS STEEL; GRADE: 8.8; THREAD LENGTH: 46 MM; DRAWING NO: A4.81.815.56 REV 1; RADIAL VANE CONTROL ROLLER PIN FOR USE IN FORCED DRAUGHT FAN	EA
2000	597500	SCREW, MACHINE: DIAMETER: M10; LENGTH: 55 MM; THREAD: METRIC; HEAD: ALLEN; MATERIAL: STL; GRADE: 8.8; THREAD LENGTH: 50 MM; COUNTER SUNK; WITH NUT & SPRING WASHER; 6MM AF	EA
2010	84174	SCREW, MACHINE: DIAMETER: M12; LENGTH: 25 MM; THREAD: 1.75 MM; HEAD: CSK; MATERIAL: STL; GRADE: 8.8; REFERENCE NO: M12X35	EA
2020	81764	SCREW, MACHINE: DIAMETER: M16; LENGTH: 45 MM; THREAD: 2 MM; HEAD: HEX; MATERIAL: HTS; GRADE: 8.8; SPECIFICATION: CBC; TYPE SET	EA
2030	37787	SCREW, MACHINE: DIAMETER: M20; LENGTH: 348 MM; THREAD: 2.5 MM; HEAD: HEX; MATERIAL: SS GR 316; GRADE: 8.8; DRAWING NO: ESK 20.58/56353 REV 1; TYPE TAKE-UP; 27MM OVER FLATS, 12MM HIGH; THREAD LENGTH: 246MM; COMPLETE WITH GREASE PORT AND SPRING PIN HOLE; GREASE NIPPLE THREAD IN SCREW HEAD, SIZE: 1/8 IN BSP	EA
2040	37799	SCREW, MACHINE: DIAMETER: M20; LENGTH: 586 MM; THREAD: 2.5 MM; HEAD: HEX; MATERIAL: SS GR 316; GRADE: 8.8; DRAWING NO: ESK 20.58/55028 REV 1; TYPE TAKE-UP; 27MM OVER FLATS, 12MM HIGH; THREAD LENGTH: 375MM; COMPLETE WITH GREASE PORT AND SPRING PIN HOLE; GREASE NIPPLE THREAD IN SCREW HEAD, SIZE 1/8 IN BSP	EA
2050	597499	SCREW, MACHINE: DIAMETER: M8; LENGTH: 45 MM; THREAD: METRIC; HEAD: HEX; MATERIAL: STL; GRADE: 8.8; THREAD LENGTH: 40 MM; WITH NUT & SPRING WASHER	EA
2060	248684	SCREW, MACHINE: MATERIAL: STL; DRAWING NO: A4.81.1120.35 REV 1; RADIAL VANE CONTROL ROLLER PIN, FOR USE ON HOWDEN INDUCED DRAUGHT FAN	EA
2070	81612	SCREW, CAP: DIAMETER: M24; LENGTH: 60 MM; THREAD: 3 MM; HEAD: SOCKET HEX; MATERIAL: 21CRMOV57V; GRADE: 8.8; REFERENCE NO: D912; USED ON IP, LP AND HP DIAPHRAGM SUSPENSIONS	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **25 of 36**

Item	Material	Purchase Order Text	Unit of Measure
2080	81958	SCREW, CAP: DIAMETER: M20; LENGTH: 45 MM; THREAD: 2.5 MM; HEAD: SOCKET HEX; MATERIAL: 21CRMOV57V; GRADE: 8.8; FOR USE ON IP AND HP TURBINE DIAPHRAGM SUSPENSION	EA
2090	81609	SCREW, CAP: DIAMETER: M8; LENGTH: 20 MM; THREAD: 1.25 MM; HEAD: SOCKET HEX; MATERIAL: STL; GRADE: 8.8; 18MM HEAD O/DIAMETER; HEAD FITS SIZE 6MM ALLEN KEY; FOR HP + IP + LP DIAPHRAGM SUSPENSIONS	EA
2100	81775	SCREW, CAP: DIAMETER: M8; LENGTH: 35 MM; THREAD: 1.25 MM; HEAD: SOCKET HEX; MATERIAL: SS GR A2-70; GRADE: 8.8; SPECIFICATION: F8	EA
2110	596185	SCREW, SELF TAPPING: DIAMETER: NO 10; LENGTH: 20 MM; HEAD: CSK FLAT POZIDRIVE; MATERIAL: BRASS	EA
2120	596184	SCREW, SELF TAPPING: DIAMETER: NO 10; LENGTH: 38 MM; HEAD: CSK FLAT POZIDRIVE; MATERIAL: STL; PROTECTIVE COATING: PLATED	EA
2130	596186	SCREW, SELF TAPPING: DIAMETER: NO 10; LENGTH: 42 MM; HEAD: CSK FLAT POZIDRIVE; MATERIAL: STL; PROTECTIVE COATING: PLATED	EA
2140	596183	SCREW, SELF TAPPING: DIAMETER: NO 10; LENGTH: 50 MM; HEAD: CSK FLAT POZIDRIVE; MATERIAL: STL; PROTECTIVE COATING: NICKEL	EA
2150	81979	SCREW: TYPE: BALANCING; DIAMETER: M36; LENGTH: 60 MM; THREAD: 4 MM; HEAD: HEX; MATERIAL: X20CR13V; DRAWING NO: F42.19394-2103 REV 1; FOR SERVO ROTOR COUPLING	EA
2160	681345	SCREW: TYPE: CRUB SCREW & LOCKNUT; DIAMETER: M10; LENGTH: 20 MM; THREAD: METRIC; HEAD: HEX SOCKET; MATERIAL: STL ALLOY; PROTECTIVE COATING: BLACK OXIDE	EA
2170	681344	SCREW: TYPE: CRUB SCREW & LOCKNUT; DIAMETER: M8; LENGTH: 30 MM; THREAD: METRIC; HEAD: HEX SOCKET; MATERIAL: STL ALLOY	EA
2180	640685	SCREW: TYPE: FULL THREAD; DIAMETER: M12; LENGTH: 40 MM; THREAD: FULL; HEAD: HEX; MATERIAL: STEEL; GRADE: 4.6	KG

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **26 of 36**

Item	Material	Purchase Order Text	Unit of Measure
2190	640568	SCREW: TYPE: FULL THREADED BOLTS; DIAMETER: M12; LENGTH: 50 MM; THREAD: METRIC; HEAD: HEX; MATERIAL: STL; GRADE: 4.6; THREAD LENGTH: FULL	EA
2200	681341	SCREW: TYPE: GRUB SCREW & LOCKNUT; DIAMETER: M10; LENGTH: 30 MM; THREAD: METRIC; HEAD: HEX SOCKET; MATERIAL: STL ALLOY/CASE HARDENED	EA
2210	640566	SCREW: TYPE: GRUB; DIAMETER: M10; LENGTH: 30 MM; THREAD: METRIC; HEAD: HEADLESS ALLEN KEY; MATERIAL: HIGH TENSILE STEEL; GRADE: 12.9 HIGH TENSILE	EA
2220	640554	SCREW: TYPE: STL OXIDE BLACK; DIAMETER: M8; LENGTH: 30 MM; THREAD: METRIC; HEAD: HEADLESS ALLEN KEY; MATERIAL: HIGH TENSILE STEEL; GRADE: 12.9	EA
2230	248687	SCREW: TYPE: SWIVEL PIN; MNFR DRG: A4 .81.660.32 REV 1; RADIAL VANE CONTROL CAST IRON OPERATING RING, USED ON HOWDEN BOILER 1-6 PRIMARY AIR FANS	EA
2240	679936	SCREW, SET: NOMINAL THREAD DIAMETER: M10; THREAD: RH THREAD; THREAD LENGTH: 20 MM; HEAD STYLE: SOCKET HD; MATERIAL: STL GR 8.8; REFERENCE NO: C1.974.008132	EA
2250	686920	SCREW, SET: NOMINAL THREAD DIAMETER: M20; THREAD: METRIC; THREAD LENGTH: 60 MM; HEAD STYLE: PLAIN; MATERIAL: HIGH TENSILE STL; APPLICATION: SSC	EA
2260	81586	SCREW, SET: NOMINAL THREAD DIAMETER: M24; THREAD: 3 MM; THREAD LENGTH: 50 MM; HEAD STYLE: SOCKET HEX; MATERIAL: 21CRMOV57V; POINT STYLE: FLAT; REFERENCE NO: N642; GRUB	EA
2270	81573	SCREW, SET: NOMINAL THREAD DIAMETER: M8; THREAD: 1.75 MM; THREAD LENGTH: 30 MM; HEAD STYLE: SOCKET HEX; MATERIAL: 45H; POINT STYLE: DOG HALF; REFERENCE NO: D915; GRUB; USED ON INSERT RINGS	EA
2280	681324	SCREW, SET: NOMINAL THREAD DIAMETER: M8; THREAD: METRIC; THREAD LENGTH: 30 MM; HEAD STYLE: HEX; MATERIAL: STL ALLOY; PROTECTIVE COATING: BLK OXIDE; APPLICATION: DRAUGHT	KG

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **27 of 36**

Item	Material	Purchase Order Text	Unit of Measure
		GROUP FANS; CASE HARDENED CRUD SCREW WITH LOCKNUT	
2290	686459	SCREW, SET: NOMINAL THREAD DIAMETER: M8; THREAD: METRIC; THREAD LENGTH: 30 MM; HEAD STYLE: HEX; MATERIAL: STL ALLOY; PROTECTIVE COATING: BLK OXIDE; APPLICATION: DRAUGHT GROUP FANS; CASE HARDENED CRUD SCREW WITH LOCKNUT	EA
2300	219041	STUD: TYPE: COAL FEEDER COUPLING DRIVE; DIAMETER: M16; THREAD: 1.5 MM; LENGTH: 100 MM; MATERIAL: STL; THREAD LENGTH: 20 MM; SPECIFICATION: EN8; DRAWING NO: ESK 20.58/55861 REV 04; 32MM; TO BE SUPPLIED WITH CADMIUM PLATED NYLOCK NUT	EA
2310	86468	STUD: TYPE: DRAWN ARC; DIAMETER: M12; THREAD: 1.75 MM; LENGTH: 40 MM; MATERIAL: STL; THREAD LENGTH: 32 MM; WITH FULL FLUX BALL	EA
2320	86467	STUD: TYPE: DRAWN ARC; DIAMETER: M16; THREAD: 2 MM; LENGTH: 40 MM; MATERIAL: STL; THREAD LENGTH: 34 MM; WITH FLUX BALL	EA
2330	596843	STUD: TYPE: HP/IP TURBINE CASING; DIAMETER: M24; THREAD: METRIC; LENGTH: 116 MM; MATERIAL: 21CRMOV57; THREAD LENGTH: 30 MM; THREAD PITCH 3MM ON EACH END; FLANGE SPECIFIC DIAMETER OF THE SHANK= 18MM; EACH STUD MUST BE SUPPLIED WITH 2 NUTS; STUDS & NUTS MUST BE SUPPLIED WITH MATERIAL CERTIFICATE	EA
2340	596842	STUD: TYPE: HP/IP TURBINE CASING; DIAMETER: M20; THREAD: METRIC; LENGTH: 105 MM; MATERIAL: 21CRMOV57; THREAD LENGTH: 23 MM; THREADS PITCH 3MM ON EACH END; DIAMETER OF THE SHANK= 16MM; EACH STUD MUST BE SUPPLIED WITH 2 NUTS; FLANGE SPECIFICATION DIN2636; MATERIAL CERTIFICATE TO BE SUPPLIED ON DELIVERY	EA
2350	19101	WASHER, BEVEL: INSIDE DIAMETER: 90 MM; THICKNESS: 2 MM; MATERIAL: STL; REFERENCE NO: D5406; MB18; USED ON PUMP AND GOVERNOR DRIVE; DIMENSIONS: OD 124MM	EA
2360	89011	WASHER, FLAT: NOMINAL SIZE: 12 MM; INSIDE DIAMETER: 12 MM; OUTER SIZE: 30 MM; THICKNESS: 4 MM; MATERIAL: NYLON; PERIPHERAL SHAPE STYLE: RD; REFERENCE NO: MAF6-06	EA
2370	88953	WASHER, FLAT: NOMINAL SIZE: 13 MM; INSIDE DIAMETER: 13 MM; OUTER SIZE: 24 MM; THICKNESS: 2.5 MM; MATERIAL: STL ELECTRO PLTD	EA
2380	88850	WASHER, FLAT: NOMINAL SIZE: 13 MM; INSIDE DIAMETER: 13 MM; OUTER SIZE: 40 MM; THICKNESS: 3 MM; MATERIAL: STL GALV; GRADE: EN2; SPECIFICATION: BS 1449	EA
2390	88892	WASHER, FLAT: NOMINAL SIZE: 21 MM; INSIDE DIAMETER: 21 MM; OUTER SIZE: 26 MM; THICKNESS: 1.5 MM; MATERIAL: CU	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                 **1**  
Page:                      **28 of 36**

Item	Material	Purchase Order Text	Unit of Measure
2400	88938	WASHER, FLAT: NOMINAL SIZE: 40 MM; INSIDE DIAMETER: 40 MM; OUTER SIZE: 85 MM; THICKNESS: 1 MM; MATERIAL: CUZN39PB2; SUPPL P/N: 38.137924; CONNECTORS FOR EXITER TO ROTOR WINDING COMPLETE	EA
2410	88940	WASHER, FLAT: NOMINAL SIZE: 40 MM; INSIDE DIAMETER: 40 MM; OUTER SIZE: 85 MM; THICKNESS: 2 MM; MATERIAL: CUZN36; REFERENCE NO: 38.149520; KKS: MKA01 HB001; CONNECTORS FOR EXITER TO ROTOR WINDING COMPLET	EA
2420	88952	WASHER, FLAT: NOMINAL SIZE: 43 MM; INSIDE DIAMETER: 43 MM; OUTER SIZE: 78 MM; THICKNESS: 8 MM; MATERIAL: MS; PERIPHERAL SHAPE STYLE: RD; DRAWING NO: HTAM234117P5 REV 1	EA
2430	67852	WASHER, FLAT: NOMINAL SIZE: 8 MM; INSIDE DIAMETER: 8 MM; OUTER SIZE: 18 MM; THICKNESS: 1 MM; MATERIAL: STL; SUPPL P/N: M4229; SUCTION VALVE PLATE, FOR SULZER BURCKHARDT STAGE HP COMPRESSOR; POS NO: 521 AND 531; USED ON 3RD STAGE 25 MM AND 4TH STAGE 16 MM DIA, CYLINDER OF TYPE: C4N1.10GR	EA
2440	87700	WASHER, FLAT: NOMINAL SIZE: M10; INSIDE DIAMETER: 12 MM; OUTER SIZE: 21 MM; THICKNESS: 2 MM; MATERIAL: STL; SPECIFICATION: SABS 4320-1968 TABLE 3 FORM E	KG
2450	681260	WASHER, FLAT: NOMINAL SIZE: M12; INSIDE DIAMETER: 13 MM; OUTER SIZE: 24 MM; THICKNESS: 2.5 MM; MATERIAL: STL CARBON; GRADE: EN8; SUPPLIED IN 50KG BAG	KG
2460	87701	WASHER, FLAT: NOMINAL SIZE: M12; INSIDE DIAMETER: 13.5 MM; OUTER SIZE: 24 MM; THICKNESS: 2.5 MM; MATERIAL: MS BLACK; SPECIFICATION: BS 1449 PART 3B	KG
2470	87480	WASHER, FLAT: NOMINAL SIZE: M12; THICKNESS: 1.5 MM; MATERIAL: BRASS	EA
2480	681554	WASHER, FLAT: NOMINAL SIZE: M16; INSIDE DIAMETER: 17 MM; OUTER SIZE: 30 MM; THICKNESS: 3 MM; MATERIAL: STL CARBON; GRADE: EN8; 25 KG BAG	KG
2490	87702	WASHER, FLAT: NOMINAL SIZE: M16; INSIDE DIAMETER: 17 MM; OUTER SIZE: 35 MM; THICKNESS: 3 MM; MATERIAL: MS BLACK	KG
2500	87703	WASHER, FLAT: NOMINAL SIZE: M20; INSIDE DIAMETER: 21 MM; OUTER SIZE: 37 MM; THICKNESS: 3 MM; MATERIAL: MS BLACK BS 1449PT3B	KG

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **29 of 36**

Item	Material	Purchase Order Text	Unit of Measure
2510	680537	WASHER, FLAT: NOMINAL SIZE: M20; INSIDE DIAMETER: 21 MM; OUTER SIZE: 37 MM; THICKNESS: 3 MM; MATERIAL: CARBON STEEL; GRADE: EN8	KG
2520	89013	WASHER, FLAT: NOMINAL SIZE: M22; INSIDE DIAMETER: 22 MM; OUTER SIZE: 42.3 MM; THICKNESS: 3 MM; MATERIAL: MS	EA
2530	597129	WASHER, FLAT: NOMINAL SIZE: M24; INSIDE DIAMETER: 26 MM; OUTER SIZE: 43.5 MM; THICKNESS: 3.5 MM; MATERIAL: MS	EA
2540	615096	WASHER, FLAT: NOMINAL SIZE: M30; INSIDE DIAMETER: 33 MM; OUTER SIZE: 56 MM; THICKNESS: 4 MM; MATERIAL: STL GALV; PERIPHERAL SHAPE STYLE: ROUND; GRADE: 8.8; SPECIFICATION: DIN 6796	EA
2550	67869	WASHER, FLAT: NOMINAL SIZE: M39; INSIDE DIAMETER: 39 MM; OUTER SIZE: 60 MM; THICKNESS: 0.4 MM; MATERIAL: CU; SUPPL P/N: M-4268; REFERENCE NO: 321/331; SEALING; GR.09	EA
2560	67864	WASHER, FLAT: NOMINAL SIZE: M8; INSIDE DIAMETER: 8 MM; OUTER SIZE: 17 MM; THICKNESS: 0.5 MM; MATERIAL: STL; PERIPHERAL SHAPE STYLE: RD; REFERENCE NO: 536 GR.09; SUCTION	EA
2570	87513	WASHER, LOCK: INSIDE DIAMETER: 10.5 MM; OUTSIDE DIAMETER: 15.5 MM; NOMINAL SIZE: M10; MATERIAL: STL; TYPE: SPRING	EA
2580	87514	WASHER, LOCK: INSIDE DIAMETER: 12.4 MM; OUTSIDE DIAMETER: 17.9 MM; THICKNESS: 2.35 MM; NOMINAL SIZE: M12; MATERIAL: STL; TYPE: HELICAL SPRING, SPLIT; GRADE: 4.6	EA
2590	607964	WASHER, LOCK: INSIDE DIAMETER: 130 MM; OUTSIDE DIAMETER: 175 MM; THICKNESS: 2 MM; NOMINAL SIZE: 130 MM; MATERIAL: STL; TYPE: BEARING; REFERENCE NO: MB26; SCREW CONVEYOR BEARING SLEEVE	EA
2600	88867	WASHER, LOCK: INSIDE DIAMETER: 20 MM; OUTSIDE DIAMETER: 32 MM; THICKNESS: 3 MM; NOMINAL SIZE: M20; MATERIAL: STL; TYPE: SPRING WAVY; REFERENCE NO: 02128612	EA
2610	87516	WASHER, LOCK: INSIDE DIAMETER: 21 MM; OUTSIDE DIAMETER: 30.5 MM; THICKNESS: 4.3 MM; NOMINAL SIZE: M20; MATERIAL: STL; TYPE: HELICAL SPRING, SPLIT; GRADE 4.6	EA
2620	89525	WASHER, LOCK: INSIDE DIAMETER: 35 MM; OUTSIDE DIAMETER: 57 MM; THICKNESS: 1.25 MM; NOMINAL SIZE: 35 MM; MATERIAL: STL; TYPE: ADAPTOR SLEEVE; SPECIFICATION: ISO 2982; SUPPL P/N: MB 7	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                      **30 of 36**

Item	Material	Purchase Order Text	Unit of Measure
2630	88927	WASHER, LOCK: INSIDE DIAMETER: 36 MM; OUTSIDE DIAMETER: 80 MM; THICKNESS: 3 MM; NOMINAL SIZE: 36 MM; MATERIAL: HTS; TYPE: DISC SPRING DOME	EA
2640	87511	WASHER, LOCK: INSIDE DIAMETER: 6.6 MM; OUTSIDE DIAMETER: 10.6 MM; THICKNESS: 2 MM; NOMINAL SIZE: M6; MATERIAL: STL; TYPE: HELICAL SPRING, SPLIT; SUPPL P/N: TCR03111064; WASHER, LOCK; TYPE HELICAL SPRING SPLIT, NOMINAL SIZE M6, INSIDE DIAMETER 6.6 MM, OUTSIDE DIAMETER 10.6 MM, THICKNESS 2 MM, MATERIAL STL, PART NUMBER: TCR03111064~WASHER,LOCK;ID 6.6 MM,OD 10.6 MM,STL	EA
2650	217198	WASHER, LOCK: INSIDE DIAMETER: 60 MM; OUTSIDE DIAMETER: 86 MM; THICKNESS: 1.5 MM; MATERIAL: STL; TYPE: BEARING; SUPPL P/N: MB12	EA
2660	47641	WASHER, LOCK: INSIDE DIAMETER: 40 MM; OUTSIDE DIAMETER: 62 MM; THICKNESS: 1.25 MM; NOMINAL SIZE: 40 MM; MATERIAL: STL; TYPE: ADAPTOR SLEEVE; SPECIFICATION: ISO 2982; SUPPL P/N: MB8	EA
2670	98008	WASHER, SEALING: INSIDE DIAMETER: 18 MM; OUTSIDE DIAMETER: 23.5 MM; THICKNESS: 2 MM; MATERIAL: STL; SPECIFICATION: DIN 1624; (FLAT METAL RING - DOWTY) WITH INTERNAL BONDED ELASTOMERIC SEALING TORUS FOR STATIC SEALING, CAD.PLATED AND NBR902, PRESSURE	EA
2680	98010	WASHER, SEALING: INSIDE DIAMETER: 21.5 MM; OUTSIDE DIAMETER: 30 MM; THICKNESS: 2.5 MM; MATERIAL: RUBBER; (FLAT METAL RING - DOWTY) WITH INTERNAL BONDED ELASTOMERIC SEALING TORUS FOR STATIC SEALING; MATERIAL: STEEL TO DIN1624 (CAD.PLATED) AND NBR902	EA
2690	98007	WASHER, SEALING: INSIDE DIAMETER: 26.5 MM; OUTSIDE DIAMETER: 35 MM; THICKNESS: 2.5 MM; MATERIAL: STL; SPECIFICATION: DIN 1624; (FLAT METAL RING - DOWTY) WITH INTERNAL BONDED ELASTOMERIC SEALING TORUS FOR STATIC SEALING, CAD.PLATED AND NBR902; DUST	EA
2700	98005	WASHER, SEALING: INSIDE DIAMETER: 29 MM; OUTSIDE DIAMETER: 37.4 MM; THICKNESS: 2.5 MM; MATERIAL: RUBBER; (FLAT METAL RING - DOWTY), WITH INTERNALLY BONDED ELASTIMERIC SEALING TORUS FOR STATIC SEALING; MATERIAL: STEEL TO DIN 1624 (CAD.PLATED) AND NBR902	EA
2710	88944	WASHER, TAB: TYPE: DOUBLE TAB; NOMINAL SIZE: 26 MM; INSIDE DIAMETER: 26 MM; OUTSIDE DIAMETER: 36 MM; THICKNESS: 1.5 MM; MATERIAL: STAINLESS STEEL; SUPPL P/N: 1150703103; PINCAP; COMPLETE WITH 2 LIPS	EA
2720	19362	WASHER, TAB: TYPE: TWO; NOMINAL SIZE: 8 MM; INSIDE DIAMETER: 8.5 MM; OUTSIDE DIAMETER: 17 MM; THICKNESS: 1 MM; MATERIAL: STAINLESS STEEL	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **31 of 36**

Item	Material	Purchase Order Text	Unit of Measure
2730	89009	WASHER, THRUST: INSIDE DIAMETER: 20 MM; OUTSIDE DIAMETER: 36 MM; THICKNESS: 1.5 MM; MATERIAL: STL; MANUF P/N: WC-18-DU; REFERENCE NO: 3283/009/107; DRY SLIDING; COMPOSITE MATERIAL OVERLAID WITH PTFE MATERIAL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
2740	679625	WASHER, THRUST: INSIDE DIAMETER: 273 MM; OUTSIDE DIAMETER: 360 MM; THICKNESS: 14.94 MM; MATERIAL: STEEL; CASE HARDENED STEEL; NEW DE DIAMETER 225 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
2750	44682	WASHER, THRUST: INSIDE DIAMETER: 30 MM; OUTSIDE DIAMETER: 38 MM; MATERIAL: STL; SUPPL P/N: 117024; REFERENCE NO: 3284011112; INNER AND ROLLER ASSEMBLY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
2760	31460	WASHER, THRUST: INSIDE DIAMETER: 430 MM; OUTSIDE DIAMETER: 645 MM; THICKNESS: 115 MM; MATERIAL: STL; DRAWING NO: C42.49309- 0010 REV 1; 466271A REV 1; REFERENCE NO: 466271A; TYPE INSERT, FOR THRUST BEARING, SPLIT TYPE KINGSBURY 26.5 IN (10X10); VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
2770	19263	WASHER, THRUST: OUTSIDE DIAMETER: 64 MM; MATERIAL: STAINLESS STEEL; SUPPL P/N: MKW31,71,72,73 CF301/MKW73 CF302; SIZE 156 MM LG, WITH CIRCLIP ND50; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
2780	91261	WASHER, FLAT: NOMINAL SIZE: M12; INSIDE DIAMETER: 12 MM; OUTER SIZE: 31 MM; THICKNESS: 2 MM; MATERIAL: STAINLESS STEEL; GRADE: 316	EA
2790	87699	WASHER, FLAT: NOMINAL SIZE: M8; INSIDE DIAMETER: 8.6 MM; OUTER SIZE: 17 MM; THICKNESS: 1.6 MM; MATERIAL: MS BLACK; SPECIFICATION: BS 1449; GRADE 4.6	KG
2800	89247	WASHER, LOCK: INSIDE DIAMETER: 13 MM; OUTSIDE DIAMETER: 28 MM; THICKNESS: 3 MM; MATERIAL: STAINLESS STEEL; TYPE: DISC SPRING DOME; GRADE: 316; CONICAL, MECHANICALLY PLATED 12MICRON ZINK AND YELLOW PASSIVATED, HARDNESS: 454.496HV ON BOTH SIDES	EA
2810	87515	WASHER, LOCK: INSIDE DIAMETER: 17 MM; OUTSIDE DIAMETER: 24.3 MM; THICKNESS: 3.6 MM; NOMINAL SIZE: M16; MATERIAL: STL; TYPE: HELICAL SPRING, SPLIT	EA
2820	89244	WASHER, LOCK: INSIDE DIAMETER: 17 MM; OUTSIDE DIAMETER: 39 MM; THICKNESS: 4 MM; NOMINAL SIZE: M16; MATERIAL: SPRING STL ELECTROPLATED; TYPE: CONICAL SPRING DOME; GRADE: CK67; MECHANICALLY PLATED (12 MICRON ZINK) AND YELLOW PASSIVATED, HARDNESS: 454.496HV ON BOTH SIDES, TEST CERTIFICATE TO BE SUPPLIED WITH EVERY DELIVERY, NOTE: QC TO BE DONE BY SYSTEM ENG. OR RELEVANT EMF SUPERVISOR ONLY	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **32 of 36**

Item	Material	Purchase Order Text	Unit of Measure
2830	502538	WASHER, LOCK: INSIDE DIAMETER: 108 MM; OUTSIDE DIAMETER: 135 MM; THICKNESS: 3 MM; NOMINAL SIZE: 102 MM; MATERIAL: BS3072 NA13; TYPE: DE/NDE; DRAWING NO: A0-104599 REV 1; ITEM:65 REV 0; MODEL NO: FK 3C 44; FOR USE ON WEIR 3 STAGE ELECTRIC FEED PUMP	EA
2840	87966	WASHER, LOCK: INSIDE DIAMETER: 65 MM; OUTSIDE DIAMETER: 92 MM; THICKNESS: 1.5 MM; NOMINAL SIZE: 65 MM; MATERIAL: STL; TYPE: ADAPTOR SLEEVE; SPECIFICATION: ISO 2982; SUPPL P/N: MB13	EA
2850	91166	WASHER, LOCK: INSIDE DIAMETER: 30 MM; OUTSIDE DIAMETER: 49 MM; THICKNESS: 1.25 MM; NOMINAL SIZE: M30; MATERIAL: STL; TYPE: ADAPTOR SLEEVE; SPECIFICATION: ISO 2982; SUPPL P/N: MB6; USED ON OIL PURIFIER	EA
2860	607151	WASHER, SEALING: NOMINAL SIZE: 33 MM; INSIDE DIAMETER: 33.89 MM; OUTSIDE DIAMETER: 42.8 MM; THICKNESS: 3.51 MM; MATERIAL: MS; GRADE: BS 1449; SPECIFICATION: ISO 7089; TYPE: ID FAN; REFERENCE NO: PP45HH	EA
2870	607150	WASHER, SEALING: NOMINAL SIZE: 42 MM; INSIDE DIAMETER: 42.93 MM; OUTSIDE DIAMETER: 52.38 MM; THICKNESS: 3.51 MM; MATERIAL: MS; GRADE: BS 1449; SPECIFICATION: ISO 7089; TYPE: PA FAN; REFERENCE NO: PP45-J; WITH BONDED RUBBER	EA
2880	670689	WASHER: TYPE: CASTLE; INSIDE DIAMETER: 12 MM; OUTSIDE DIAMETER: 20 MM; THICKNESS: 1 MM; MATERIAL: STAINLESS STEEL	EA
2890	670688	WASHER: TYPE: CASTLE; INSIDE DIAMETER: 16 MM; OUTSIDE DIAMETER: 25 MM; THICKNESS: 1.5 MM; MATERIAL: STAINLESS STEEL	EA
2900	669502	WASHER: TYPE: CASTLE; INSIDE DIAMETER: 20 MM; OUTSIDE DIAMETER: 32 MM; THICKNESS: 1.5 MM; MATERIAL: STAINLESS STEEL	EA
2910	88866	WASHER: TYPE: DOME; NOMINAL SIZE: 20 MM; INSIDE DIAMETER: 21 MM; OUTSIDE DIAMETER: 60 MM; THICKNESS: 3 MM; MATERIAL: CK 67; SUPPL P/N: 02-128-231; REFERENCE NO: 454.496HV; MECHANICALLY PLATED (12 MICRON ZINK) AND YELLOW PASSIVATED, HARDNESS; ITEM: 92; MANUAL NM4/201 SECTION 2/2-21B, USED ON 20KV BREAKER TYPE: PKG2V MAIN AND AUX. CHAMBER	EA
2920	681325	WASHER: TYPE: EXTERNAL SERRATED; NOMINAL SIZE: M20; INSIDE DIAMETER: 21 MM; OUTSIDE DIAMETER: 33 MM; THICKNESS: 2.8 MM; MATERIAL: STAINLESS STEEL	EA
2930	190045	WASHER: TYPE: GUIDE; INSIDE DIAMETER: 60 MM; OUTSIDE DIAMETER: 75 MM; THICKNESS: 15 MM; MATERIAL: MS; HOT AND COLD END	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                 **1**  
Page:                      **33 of 36**

Item	Material	Purchase Order Text	Unit of Measure
2940	236895	WASHER: TYPE: LINK PIN; NOMINAL SIZE: 16 MM; INSIDE DIAMETER: 17 MM; OUTSIDE DIAMETER: 60 MM; THICKNESS: 3 MM; MATERIAL: CS; SUPPL P/N: LM16RD; REFERENCE NO: C50L90-BR20-20	EA
2950	640550	WASHER: TYPE: M20 PENNY; INSIDE DIAMETER: 21 MM; OUTSIDE DIAMETER: 41 MM; THICKNESS: 3 MM; MATERIAL: STAINLESS STEEL	EA
2960	232019	WASHER: TYPE: MILL LINER BOLT; NOMINAL SIZE: M27; INSIDE DIAMETER: 30 MM; OUTSIDE DIAMETER: 60 MM; THICKNESS: 5 MM; MATERIAL: MS; DRAWING NO: ESK 20.58/55894 REV 1; 2 MM DEEP UNDERCUTTING IN WASHER INSIDE DIAMETER	EA
2970	640552	WASHER: TYPE: PENNY; INSIDE DIAMETER: 10 MM; OUTSIDE DIAMETER: 20 MM; THICKNESS: 2 MM; MATERIAL: STAINLESS STEEL	EA
2980	640686	WASHER: TYPE: PENNY; INSIDE DIAMETER: 10 MM; OUTSIDE DIAMETER: 20 MM; THICKNESS: 2 MM; MATERIAL: STAINLESS STEEL	KG
2990	640553	WASHER: TYPE: PENNY; INSIDE DIAMETER: 13 MM; OUTSIDE DIAMETER: 33 MM; THICKNESS: 3 MM; MATERIAL: STAINLESS STEEL	EA
3000	640551	WASHER: TYPE: PENNY; NOMINAL SIZE: M16; INSIDE DIAMETER: 17 MM; OUTSIDE DIAMETER: 37 MM; THICKNESS: 3 MM; MATERIAL: STAINLESS STEEL	EA
3010	681555	WASHER: TYPE: SERRATED; NOMINAL SIZE: M20; INSIDE DIAMETER: 21 MM; OUTSIDE DIAMETER: 33 MM; THICKNESS: 1.4 MM; MATERIAL: STL; SUPPLIED IN 25 KG BAG	KG
3020	687759	WASHER: TYPE: SPRING; NOMINAL SIZE: M20; INSIDE DIAMETER: 20.2 MM; OUTSIDE DIAMETER: 21.2 MM; THICKNESS: 0.6 MM; MATERIAL: STL; GRADE: DIN 127A; REFERENCE NO: B20-ST50; USUALLY SUPPLIED IN 1 BAG OFF 100	EA
3030	687760	WASHER: TYPE: SPRING; NOMINAL SIZE: M42; INSIDE DIAMETER: 42.5 MM; OUTSIDE DIAMETER: 43.7 MM; THICKNESS: 12 MM; MATERIAL: STL; GRADE: DIN 127A; REFERENCE NO: B42-ST50	EA
3040	666713	WASHER: TYPE: TREP; INSIDE DIAMETER: 21 MM; OUTSIDE DIAMETER: 40 MM; THICKNESS: 9 MM; MATERIAL: CARBON STEEL; REFERENCE NO: 2721253326; FOR WINDING COVER OUTER & H2 SEALS	EA
3050	666716	WASHER: TYPE: TREP; INSIDE DIAMETER: 12.5 MM; OUTSIDE DIAMETER: 27 MM; THICKNESS: 5.4 MM; MATERIAL: CARBON STEEL; REFERENCE NO: 2721253318; FOR NOZZLE RING	EA

**Supply and delivery of bolts and nuts to Matimba Power Station as per request.**

Unique                    **SOW/060/001**  
Revision:                **1**  
Page:                     **34 of 36**

---

Item	Material	Purchase Order Text	Unit of Measure
3060	666715	WASHER: TYPE: TREP; INSIDE DIAMETER: 15 MM; OUTSIDE DIAMETER: 30 MM; THICKNESS: 6 MM; MATERIAL: CARBON STEEL; REFERENCE NO: 2721253320; FOR NOZZLE RING	EA
3070	666714	WASHER: TYPE: TREP; INSIDE DIAMETER: 17 MM; OUTSIDE DIAMETER: 33 MM; THICKNESS: 6.6 MM; MATERIAL: CARBON STEEL; REFERENCE NO: 2Z21253322; FOR NOZZLE RING	EA
3080	666712	WASHER: TYPE: TREP; INSIDE DIAMETER: 25 MM; OUTSIDE DIAMETER: 50 MM; THICKNESS: 7.2 MM; MATERIAL: CARBON STEEL; REFERENCE NO: 2721253329; FOR EXCITER DOME AND H2 SEAL HOUSING	EA

## **3.2 NON-TECHNICAL SCOPE OF WORK**

### **3.2.1 Safety Precautions**

The contractor shall follow all Eskom's safety requirements including all lifesaving rules and regulations required to perform the work. The contractor shall make sure they take all the necessary precautions inside Eskom premises, handling the material and wearing appropriate PPE.

### **3.2.2 Deficiencies and modifications**

Material NCR will be issued to the contractor where there are deficiencies, and the contractor shall rectify within the agreed period.

### **3.2.3 Quality control standards**

The contract shall ensure that the delivered material meet the quality requirements provided by the employer.

### **3.2.4 Eskom Policies**

The contractor's employees shall comply with Eskom's policies and site regulations, including but not limited to the use of cell phone while driving, work/activities in restricted areas, adherence to Eskom's lifesaving rules, smoking policy, zero tolerance on alcohol usage, etc. these requirements will be discussed in detail during induction training process.

### **3.2.5 Records**

Users should keep records of signed minutes, attendance registers and all communications must be recorded in an email and kept in a file.

All records and archives are to be recorded using Eskom Systems. Expected records to be captured reported and archived are material certificates, warranties and guarantees any other report that might be deemed necessary by Matimba Power station.

All records should be submitted manually and electronically to the relevant Contract manager. Any records or drawings developed will remain property of Eskom Matimba Power Station. All communications must be recorded in an email and kept in a file.

## **4. AUTHORISATION**

This document has been seen and accepted by:

<b>Name &amp; Surname</b>	<b>Designation</b>
Nthabiseng Ndlebe	Manager Materials Management
Mahlomola Mabelane	Middle Manager Maintenance Group
Jacky Mathobela	Middle Manager Engineering Group
Pharuma Madike	Manager Engineering Cnl - Acting
Sello Matlakala	Snr Supervisor Technical Support
Tebogo Mothiba	Snr Supervisor Technical Support
Tebogo Matswalela	Snr Technician Engineering Civil
Dumisani Makamu	Snr Advisor Procurement
Mpolokeng Mampane	Civil Engineering Manager

**CONTROLLED DISCLOSURE**

## 5. REVISIONS

Date	Rev.	Compiler	Remarks
October 2024	0	T.A Matswalela	New document

## 6. DEVELOPMENT TEAM

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

Name & Surname	Designation
Tebogo Matswalela	Senior Technician Civil

## 7. ACKNOWLEDGEMENTS

- Not Applicable.

### **CONTROLLED DISCLOSURE**

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.