Eskom	Scope of work	Hendrina Power Station

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1. INTRODUCTION

This document defines the contract works to be executed by the successful bidder, of which is evaluated and selected using the Tender Technical Evaluation process. The Scope of Work (SOW) for this contract entails the supply and delivery of piping spares for the ash handling plant on an as and when required basis.

2. SUPPORTING CLAUSES

2.1 SCOPE

The scope comprises of the supply and delivery of all required fastener spares such as bolts, nuts, washers, etc. All spares supplied must be accompanied by quality control documentation.

2.1.1 Purpose

The purpose of this scope of work is to outline all the spare materials required, the contract work to be performed by the contractor, and the responsibilities of all parties involved. The contract scope of work serves to support the tender technical evaluation process.

2.1.2 Applicability

This document is applicable to Hendrina 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] 240-168966153 Generation Tender Technical Evaluation Procedure

[2] Tender Technical Evaluation Strategy for Supply & Delivery of Fasteners

[3] QM-58 Supplier Contract Quality Requirements Specifications

[4] SANS 719 Electric Welded Low Carbon Steel Pipes for Aqueous Fluids (Large Bore)

[5] 240-105691858 Materials Management Safe Work Procedures Transportation Requirements for Material Handling

2.2.2 Informative

[6] ISO 9001 Quality Management Systems

[7] 32-1-34 Eskom Procurement Policy

2.3 DEFINITIONS

Term	Definition
Contractor	Service provider contracted for supplying a specific service to Eskom Hendrina Power Station. Used interchangeably with the term *Supplier.*
Employer	The organization (Eskom) to which the supplier will be contracted for this tender and contracts that may result therefrom
Employer's Premises	Hendrina Power Station

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Term	Definition
Industrial Storage Facility	Physical space suitable for the storage of the items specified in the scope of work
Fasteners	Components such as bolts, nuts, washers, etc.
Returnable	Document submitted by tenderer for evaluation in support of tender bid
Spares	Parts that can be used for replacement

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
µ	Micro
BS	British Standard
CI	Cast Iron
CS	Carbon Steel
DI	Ductile Iron
FPT	Female Pipe Thread
GI	Galvanized Iron
kPa	Kilopascal
LG	Length
m	Metre
mm	Millimetre
MPT	Male Pipe Thread
OD	Outer Diameter
OEM	Original Equipment Manufacturer
ID	Inner Diameter
IN	Inch
ISO	International Organisation of Standardisation
QCP/QIP	Quality Control Plan / Quality Inspection Plan
PS	Power Station
SABS	South African Bureau of Standards
SCRWD	Screwed
SOW	Scope of Work
SS	Stainless Steel
STL	Steel
TET	Technical Evaluation Team
THD	Threaded

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2.5 ROLES AND RESPONSIBILITIES

System Engineer – Responsible for defining the technical specifications and scope to be executed by the contractor, as well as ensuring that sound engineering practice is followed.

Contract Manager – Responsible for the procurement document(s) required to establish a contract with the contractor deemed capable of executing the scope.

Contractor – Responsible for providing all the services required for the execution of the full scope of work.

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

N/A

3. SCOPE OF WORK

Subsequent to the issuing of a task order by the *Employer*'s representative, the contractor must:

- Supply and deliver required fasteners on an "as and when required" basis for a maximum period of four (4) years from the effective date,
- Transport the spares to the *Employer*'s premises,
- Always keep contingency spares in storage in case of emergencies throughout the duration of the contract.
- Supply all necessary material and test certification/documentation for the spares,
- Provide confirmation of technical specification on delivery of spares.

In case of emergencies, the *contractor* MUST deliver the required spares to the *employer's* premises WITHIN 24 hours.

3.1 EFFECTIVE DATE

This document will be effective from the date that the contract is authorise

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3.2 SPARES SPECFICIATION

The following table indicate the specifications and the total quantities to be supplied for the period of 4 years.

Table 1: Spares list

MATERIAL	SHORT TERM	LONG TEXT	QUANTITY	UNIT OF MEASURE
0001244	NAIL COMMON WIRE, LG 50MM, THK 2 5 MM, STL	TYPE: COMMON WIRE; LENGTH: 50 MM; THICKNESS: 2.5 MM; MATERIAL: STL; HEAD STYLE: CHECKERED FLAT; DIAMOND POINT STYLE NO: 7, STYLE NO: 16	200	KG
0083583	BOLT ASSY GP, M16, LG 50 MM, HEX 4.6 MS, 50	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M16; LENGTH: 50 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 50 MM; THREAD: 2 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; COARSE THREAD FREE FIT, ISOMETRIC; SPECIFICATION: SABS135	3000	KG
0083584	BOLT ASSY GP, M16, LG 65 MM, HEX 4.6 MS, 40	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M16; LENGTH: 65 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 40 MM; THREAD: 2 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; BOLT PROTECTIVE COATING: BLACK; SOLE SOURCE: CLYDE BERGEMANN AFRICA PTY LTD; SPECIFICATION: SABS 135	1500	KG
0083588	BOLT ASS GP, M20, LG 40 MM, HEX, 4.6 MS, 30	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M20; LENGTH: 40 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 30 MM; THREAD: 2.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SOLE SOURCE: CLYDE BERGEMANN AFRICA PTY LTD; SPECIFICATION: SABS 135.	900	KG

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0083601	BOLT ASSY GP, M20, LG 65 MM, HEX 4.6 MS, 50	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M20; LENGTH: 65 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 50 MM; THREAD: 2.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	4000	KG
0083602	BOLT ASSY , M20, LG 180 MM, HEX, 4.6, MS, 2 5MM, 1	BOLT, ASSEMBLY: NOMINAL DIAMETER: M20; LENGTH: 180 MM; HEAD: HEX; MATERIAL: MILD STEEL; THREAD: 2.5 MM; NUT QUANTITY: 1; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS135	900	KG
0083624	BOLT ASSY GP, M16, LG 25 MM, HEX, 4.6, MS,22	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M16; LENGTH: 25 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 22 MM; THREAD: 2 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	800	KG
0083627	BOLT ASSY M20, LG 90 MM, HEX, MS,2 5 MM 1	BOLT, ASSEMBLY: NOMINAL DIAMETER: M20; LENGTH: 90 MM; HEAD: HEX; MATERIAL: MILD STEEL; THREAD: 2.5 MM; NUT QUANTITY: 1; BOLT PROTECTIVE COATING: BLACK; ISO METRIC THREAD, COARSE THREAD FREE FIT, TO THE LATEST EDITION OF SABS135 AND BEARING THE SABS MARK OF APPROVAL; SPECIFICATION: SABS135	400	KG
0084534	BOLT ASSY M10, LG 30 MM, HEX, MS, 1 5 MM	BOLT, ASSEMBLY: NOMINAL DIAMETER: M10; LENGTH: 30 MM; HEAD: HEX; MATERIAL: MILD STEEL; THREAD: 1.5 MM; BOLT PROTECTIVE COATING: BLACK; WITH NUTS; SPECIFICATION: SABS135	700	KG
0084536	BOLT ASSY GP, M16, LG 45 MM, HEX, MS, 25MM, 1	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M16; LENGTH: 45 MM; HEAD: HEX; MATERIAL: MILD STEEL; THREAD LENGTH: 25 MM; THREAD: 2 MM; NUT	1500	KG

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		QUANTITY: 1; NUT MATERIAL: MILD STEEL; BOLT PROTECTIVE COATING: BLACK; COARSE THREATED, FREE FIT, SPECIFICATION: SABS 135		
0084552	BOLT ASSY GP, M6, LG 150MM, HEX, 4.6, MS, 30	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M6; LENGTH: 150 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 30 MM; THREAD: 1 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	500	KG
0084553	BOLT ASSY GP, M8, LG 25MM, HEX. 4.6, MS,25,1	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M8; LENGTH: 25 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 25 MM; THREAD: 1.25 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; DIN555; SPECIFICATION: SABS 135	400	KG
0084556	BOLT ASSY GP, M8, LG 65MM, HEX, 4.6, MS, 25, 1	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M8; LENGTH: 65 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 25 MM; THREAD: 1.25 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	700	KG
0084567	BOLT ASSY GP, M10, LG 100MM, HEX, 4.6, MS, 27	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M10; LENGTH: 100 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 27 MM; THREAD: 1.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	400	KG
0084571	BOLT ASSY GP, M12, LG 25MM, HEX, 4.6, MS, 25	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M12; LENGTH: 25 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 25 MM; THREAD: 1.75 MM;	1500	KG

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		NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; BOLT PROTECTIVE COATING: BLACK; COARSE THREAD FREE FIT; SPECIFICATION: SABS 135		
0084572	BOLT ASSY GP, M12, LG 40MM, HEX, 4.6, MS, 30	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M12; LENGTH: 40 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 30 MM; THREAD: 1.75 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	900	KG
0084574	BOLT ASSY GP, M12, LG 50MM, HEX, 4.6, MS,30	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M12; LENGTH: 50 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 30 MM; THREAD: 1.75 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	1100	KG
0084575	BOLT ASSY GP, M12, LG 65MM, HEX, 4.6, MS, 33	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M12; LENGTH: 65 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 33 MM; THREAD: 1.75 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	900	KG
0084576	BOLT ASSY GP, M12. LG 75MM, HEX, 4.6, MS, 35	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M12; LENGTH: 75 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 35 MM; THREAD: 1.75 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION SABS 135	900	KG
0084584	BOLT ASSY M12, LG 180MM, HEX, MS, 1 75MM, 1	BOLT, ASSEMBLY: NOMINAL DIAMETER: M12; LENGTH: 180 MM; HEAD: HEX; MATERIAL: MILD STEEL; THREAD: 1.75 MM; NUT QUANTITY: 1;	900	KG

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		BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS135		
0084589	BOLT ASSY GP, M16, LG 75MM, HEX, 4.6, MS, 38	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M16; LENGTH: 75 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 38 MM; THREAD: 2 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	3800	KG
0084590	BOLT ASSY GP, M16, LG 100MM, HEX, 4.6, MS,40	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M16; LENGTH: 100 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 40 MM; THREAD: 2 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	1800	KG
0084592	BOLT ASSY GP, M16, LG 125MM, HEX, 4.6, MS, 40	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M16; LENGTH: 125 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 40 MM; THREAD: 2 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; COARSE THREAD FREE FIT; SPECIFICATION: SABS 135	500	KG
0084600	BOLT ASSY GP, M20, LG 75 MM, HEX 4.6 MS, 48	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M20; LENGTH: 75 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 48 MM; THREAD: 2.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	3500	KG
0084601	BOLT ASSY GP, M20, LG 100MM, HEX, 4.6, MS, 55	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M20; LENGTH: 100 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 55 MM; THREAD: 2.5 MM; NUT QUANTITY: 1; NUT MATERIAL:	1500	KG

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		MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135		
0084602	BOLT ASSY GP, M20, LG 115MM, HEX, 4.6, MS, 48	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M20; LENGTH: 115 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 48 MM; THREAD: 2.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	500	KG
0084605	BOLT ASSY GP, M20, LG 150MM, HEX, 4.6, MS, 55	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M20; LENGTH: 150 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 55 MM; THREAD: 2.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	500	KG
0084606	BOLT ASSY GP, M20, LG 200MM, HEX, 4.6, MS, 55	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M20; LENGTH: 200 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 55 MM; THREAD: 2.5 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; NUT PROTECTIVE COATING: BLACK	200	KG
0084611	BOLT ASSY GP, M24, LG 75MM, HEX, 4.6, MS, 75	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M24; LENGTH: 75 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 75 MM; THREAD: 3 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION SABS 135	1300	KG
0084613	BOLT ASSY GP, M24, LG 100MM, HEX. 4.6, MS, 57	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M24; LENGTH: 100 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 57 MM; THREAD: 3 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD	900	KG

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		STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; COARSE THREAD FREE FIT.; SPECIFICATION: SABS 135		
0084614	BOLT ASSY M24, LG 115MM, HEX, MS, 3MM, 1	BOLT, ASSEMBLY: NOMINAL DIAMETER: M24; LENGTH: 115 MM; HEAD: HEX; MATERIAL: MILD STEEL; THREAD: 3 MM; NUT QUANTITY: 1; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	800	KG
0084621	BOLT ASSY GP, M6, LG 50MM, HEX, 4.6, MS, 23, 1	BOLT, ASSEMBLY: NOMINAL DIAMETER: M24; LENGTH: 115 MM; HEAD: HEX; MATERIAL: MILD STEEL; THREAD: 3 MM; NUT QUANTITY: 1; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	800	KG
0084622	BOLT ASSY GP, M6, LG 65MM, HEX, 4.6,MS,20,1	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M6; LENGTH: 65 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 20 MM; THREAD: 1 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	600	KG
0087619	NUT HEX 5/16 IN, 18BSW, 1/4 IN, MS BLACK	NUT, HEX: DIAMETER: 5/16 IN; THREAD: 18BSW; NUT HEIGHT: 1/4 IN; MATERIAL: MILD STEEL BLACK	200	KG
0087622	NUT HEX 1/2 IN, 12BSW, 7/16 IN, MS, BLACK	NUT, HEX: DIAMETER: 1/2 IN; THREAD: 12BSW; NUT HEIGHT: 7/16 IN; MATERIAL: MILD STEEL BLACK	200	KG
0087634	NUT HEX M6, 1MM, 5MM, MS BLACK, 4 8	NUT, HEX: DIAMETER: M6; THREAD: 1 MM; NUT HEIGHT: 5 MM; MATERIAL: MILD STEEL BLACK; GRADE: 4.8; SPECIFICATION: SABS 1143-1977	200	KG
0087636	NUT HEX M10, 1 5MM, 8MM, MS BLACK, 4 8	NUT, HEX: DIAMETER: M10; THREAD: 1.5 MM; NUT HEIGHT: 8 MM; MATERIAL: MILD STEEL BLACK; GRADE: 4.8; SPECIFICATION: SABS 1143	200	KG
0087637	NUT HEX M12, 1 75 MM, 10MM, MS BLACK 4 6	NUT, HEX: DIAMETER: M12; THREAD: 1.75 MM; NUT HEIGHT: 10 MM; MATERIAL: MILD STEEL BLACK; GRADE: 4.6; SPECIFICATION: SABS 1143	200	KG

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0087638	NUT HEX M16, 2 MM, 13 MM, MS BLACK 4 6	NUT, HEX: DIAMETER: M16; THREAD: 2 MM; NUT HEIGHT: 13 MM; MATERIAL: MILD STEEL BLACK; GRADE: 4.6; SPECIFICATION: SABS 1143	200	KG
0087639	NUT HEX M20, 2 5 MM, 15 5 MM, MS BLACK, 4 6	NUT, HEX: DIAMETER: M20; THREAD: 2.5 MM; NUT HEIGHT: 15.5 MM; MATERIAL: MILD STEEL BLACK; GRADE: 4.6	200	KG
0087641	NUT HEX M30, 3 5 MM, 24MM, MS BLACK, 4 6	NUT, HEX: DIAMETER: M30; THREAD: 3.5 MM; NUT HEIGHT: 24 MM; MATERIAL: MILD STEEL BLACK; GRADE: 4.6; SPECIFICATION: SABS 1143-1977	500	KG
0087685	WASHER FLAT M30, ID 33MM, 57MM, THK 4 MM	WASHER, FLAT: NOMINAL SIZE: M30; INSIDE DIAMETER: 33 MM; OUTER SIZE: 57 MM; THICKNESS: 4 MM; MATERIAL: MILD STEEL BLACK	700	KG
0087698	WASHER FLAT M6, ID 6 2 MM, 12 5MM, THK 1 6	WASHER, FLAT: NOMINAL SIZE: M6; INSIDE DIAMETER: 6.2 MM; OUTER SIZE: 12.5 MM; THICKNESS: 1.6 MM; MATERIAL: MILD STEEL BLACK; GRADE: 4.6; SPECIFICATION: BS 1449 PART 3B; REFERENCE NO: WASHFLBLKM6; APPLICABLE STANDARD TO WHICH THE GOODS SUPPLIED WAS MANUFACTURED	700	KG
0087699	WASHER FLAT M8, ID 8 6 MM, 17 MM, THK 1 6	WASHER, FLAT: NOMINAL SIZE: M8; INSIDE DIAMETER: 8.6 MM; OUTER SIZE: 17 MM; THICKNESS: 1.6 MM; MATERIAL: MILD STEEL BLACK; SPECIFICATION: BS 1449; GRADE 4.6	400	KG
0087700	WASHER FLAT M10, ID 12 MM, 21 MM, THK 2 MM	WASHER, FLAT: NOMINAL SIZE: M10; INSIDE DIAMETER: 12 MM; OUTER SIZE: 21 MM; THICKNESS: 2 MM; MATERIAL: STEEL; SPECIFICATION: SABS 4320-1968 TABLE 3 FORM E	900	KG
0087701	WASHER FLAT M12, ID 13 5 MM, 24 MM, THK 2 5	WASHER, FLAT: NOMINAL SIZE: M12; INSIDE DIAMETER: 13.5 MM; OUTER SIZE: 24 MM; THICKNESS: 2.5 MM; MATERIAL: MILD STEEL BLACK; SPECIFICATION: BS 1449 PART 3B	1600	KG
0087702	WASHER FLAT M16 , ID 17 MM, 35 MM, THK 3MM	WASHER, FLAT: NOMINAL SIZE: M16; INSIDE DIAMETER: 17 MM; OUTER SIZE: 35 MM; THICKNESS: 3 MM; MATERIAL: MILD STEEL BLACK	1600	KG

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0087703	WASHER FLAT M20, ID 21 MM, 37 MM, THK 3 MM	WASHER, FLAT: NOMINAL SIZE: M20; INSIDE DIAMETER: 21 MM; OUTER SIZE: 37 MM; THICKNESS: 3 MM; MATERIAL: MILD STEEL BLACK BS 1449PT3B	1600	KG
0087704	WASHER FLAT M24, ID, 25 MM, 44 MM, THK 4 5	WASHER, FLAT: NOMINAL SIZE: M24; INSIDE DIAMETER: 25 MM; OUTER SIZE: 44 MM; THICKNESS: 4.5 MM; MATERIAL: MILD STEEL	1600	KG
0083585	BOLT ASSY GP, M16, LG 40 MM, HEX, 4 6, MS, 25	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M16; LENGTH: 40 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 25 MM; THREAD: 2 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION SABS 135	600	KG
0083602	BOLT ASSY M20, LG 180 MM, HEX, MS 2 5 MM, 1	BOLT, ASSEMBLY: NOMINAL DIAMETER: M20; LENGTH: 180 MM; HEAD: HEX; MATERIAL: MILD STEEL; THREAD: 2.5 MM; NUT QUANTITY: 1; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS135	800	KG
0084411	BOLT ASSY NIB, M12, LG 40 MM, CSK KEYED, 4 6	BOLT, ASSEMBLY: TYPE: NIB; NOMINAL DIAMETER: M12; LENGTH: 40 MM; HEAD: CSK KEYED; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD: 1.75 MM; NUT QUANTITY: 1; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 1143	200	KG
0084413	BOLT ASSY NIB, M16, LG 65 MM, MS, 2 MM, 1	BOLT, ASSEMBLY: TYPE: NIB; NOMINAL DIAMETER: M16; LENGTH: 65 MM; HEAD: CSK FLAT KEYED; MATERIAL: MILD STEEL; THREAD: 2 MM; NUT QUANTITY: 1; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 1143/1977	400	KG
0084414	BOLT ASSY NIB, M16, LG 50 MM, CSK KEYED, 4 6	BOLT, ASSEMBLY: TYPE: NIB; NOMINAL DIAMETER: M16; LENGTH: 50 MM; HEAD: CSK KEYED; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD: 2 MM; NUT QUANTITY: 1; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 1143	200	KG

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0084558	BOLT ASSY M8, LG 90 MM, HEX, MS, 1 25 MM, 1	BOLT, ASSEMBLY: NOMINAL DIAMETER: M8; LENGTH: 90 MM; HEAD: HEX; MATERIAL: MILD STEEL; THREAD: 1.25 MM; NUT QUANTITY: 1; BOLT PROTECTIVE COATING: BLACK; COARSE THREAD MEDIUM FIT, TO THE LATEST EDITION OF SABS 135 AND BEARING THE SABS MARK OF APPROVAL	200	KG
0084591	BOLT ASSY M16, LG 115 MM, HEX MS, 2 MM, 1	BOLT, ASSEMBLY: NOMINAL DIAMETER: M16; LENGTH: 115 MM; HEAD: HEX; MATERIAL: MILD STEEL; THREAD: 2 MM; NUT QUANTITY: 1; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS135	1000	KG
0084593	BOLT ASSY GP M16, LG 150 MM, HEX, 4 6 MS, 45	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M16; LENGTH: 150 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 45 MM; THREAD: 2 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION SABS 135	800	KG
0084594	BOLT ASSY M16, LG 180 MM, HEX, MS, 2 MM, 1	BOLT, ASSEMBLY: NOMINAL DIAMETER: M16; LENGTH: 180 MM; HEAD: HEX; MATERIAL: MILD STEEL; THREAD: 2 MM; NUT QUANTITY: 1; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS135	800	KG
0084595	BOLT ASSY GP, M16, LG 200 MM, HEX, 4 6, MS 47	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M16; LENGTH: 200 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 47 MM; THREAD: 2 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	800	KG
0084603	BOLT ASSY GP, M20, LG 125 MM, HEX 4 6, MS, 50	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M20; LENGTH: 125 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 50 MM; THREAD: 2.5 MM; NUT QUANTITY: 1; NUT MATERIAL:	800	KG

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		MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS1 35		
0084615	BOLT ASSY GP, M24, LG 125MM, HEX 4 6, MS, 60	BOLT, ASSEMBLY: TYPE: GENERAL PURPOSE; NOMINAL DIAMETER: M24; LENGTH: 125 MM; HEAD: HEX; GRADE: 4.6; MATERIAL: MILD STEEL; THREAD LENGTH: 60 MM; THREAD: 3 MM; NUT QUANTITY: 1; NUT MATERIAL: MILD STEEL; NUT GRADE: 4.6; BOLT PROTECTIVE COATING: BLACK; SPECIFICATION: SABS 135	800	KG
0791099	SPRAY, WHITE, SMOOTH FINISH, 300 ML, PAINTING METAL PIPES	PAINT: TYPE: SPRAY; COLOR: WHITE; FINISH: SMOOTH FINISH; CONTAINER: 300 ML SPAY PAINT; APPLICATION: PAINTING METAL PIPES; THIS IS A SPRAY PAINT, WHICH WILL BE USED TO MARK THE ASHLINES. ANY DEVIATIONS FROM THE STATED.	1500	EA

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3.3 MATERIAL CERTIFICATES AND GUARANTEES

The following documentation must be supplied to the *Employer*'s representative before any item is accepted on site:

- Material Certificate for all supplied spares.
- Applicable guarantee/warranty, where applicable.

3.4 GENERAL REQUIREMENTS

3.4.1 Storage

The *contractor* must have a suitably sized storage facility where a minimum amount of all the spares listed in section 3.2 are to be kept for when the *Employer* requires them urgently. It is the responsibility of the *contractor* to ensure the safekeeping of spares, and that the quality of spares is not negatively impacted whilst in storage.

The spares listed in table 1 must always be available and ready for delivery at the *Employer's* premises at request.

3.4.2 Handling And Transportation

The *contractor* is expected to practice safe handling techniques during the onloading, offloading, and throughout the transportation of the spare listed in section 3.2. The *Employer's* representative will not accept any damaged items upon delivery.

Should the delivered spares be found to be defective or non-functional during or after delivery, the contractor remains responsible for the handling and transportation in the replacement process of the item(s).

4. AUTHORISATION

This document has been seen and accepted by:

5. REVISIONS

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6. DEVELOPMENT TEAM

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

7. ACKNOWLEDGEMENTS

N/A

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