

	Scope of Work	Tutuka Power Station
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Title: **Supply, Test & Delivery of Structural and Industrial Steel at Tutuka Power Station Scope of Work**

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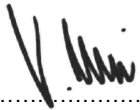
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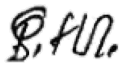
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1. Introduction

Tutuka Power Station requires the supply, testing and delivery of structural steel for various structural, industrial and heavy-duty applications in line with power generation infrastructure at Tutuka Power Station.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

This document details the scope of work and requirements for the supply, testing and delivery of structural steel for various industrial uses at Tutuka Power Station.

2.1.2 Applicability

This document applies to Tutuka Power Station only.

2.1.3 Effective date

This document will be effective from the date of its authorisation.

2.2 Normative/Informative References

The following documents contain provisions that, through reference in the text, constitute requirements of this specification. At the time of publication, the editions indicated were valid. In cases of conflict, the provisions of this specification shall take precedence. Parties using this specification shall apply the most recent edition of the documents listed below.

2.2.1 Normative

- [1] Occupational Health and Safety Act (Act 85 of 1993)
- [2] 240-50317699 Manage Technical Queries Procedure
- [3] ISO 9001 Quality Management Systems
- [4] ISO 8501 Preparation of steel substrates before application of paints and related products
- [5] SANS 50025 (Equivalent to EN 10025): Hot-rolled products of structural steels
- [6] SANS 50031 (Equivalent to EN 10031): Cold formed structural hollow sections
- [7] SANS 1431: Weldable structural steel
- [8] SANS 52 (Equivalent to ISO 630): Structural steels
- [9] SANS 62-1 Steel Pipes
- [10] SANS 1123: Pipe Flanges
- [11] SANS 719: Electric welded low carbon steel pipes for aqueous fluids (large bore)

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- [12] SANS 1700: Fastener steels
- [13] 240-75655504 Corrosion Protection Standard for New Indoor and Outdoor Eskom Equipment
- [14] 240-106365693 Standard for the External Corrosion Protection
- [15] 240-106628253 Standard for Welding Requirements on Eskom Plant
- [16] 240-106365693 Standard for the External Corrosion Protection of Plant, Equipment and Associated Piping with Coatings
- [17] ISO 17638 Non-destructive testing of welds — Magnetic particle testing
- [18] 36-1126 Specification for corrosion of plant and equipment with coatings
- [19] Southern African Institute of Steel Construction Structural Steel Tables
- [20] SANS 10064 - The preparation of steel surfaces for coating
- [21] SANS 14713: Protection against corrosion of iron and steel in structures-Zinc and aluminium coatings-Guidelines

2.2.2 Informative

- [1] ISO 9001 Quality Management Systems.
- [2] ISO 14001 Environmental Management Systems
- [3] 32-245 - Eskom Waste Management Standard
- [4] 32-421 - Eskom Life Saving Rules
- [5] 36-681 - Eskom Plant Safety Regulations
- [6] 240-53114026 - Eskom Design Change Management Procedure

2.3 Definitions

Definition	Description
Contractor	Service provider contracted to provide a specific service to Eskom, Tutuka Power Station.
Employer	Eskom Tutuka Power Station representative
Inspector	A civil or structural designer, plant engineer or plant foreman who have been specifically trained in how to conduct quality inspections, and has experience in structural steel inspections

2.4 Abbreviations

Abbreviation	Explanation
ITP	Inspection, Testing Plan
QCP	Quality Control Procedure
ISO	International Standards Organisations

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Abbreviation	Explanation
OHS Act	Occupational Health and Safety Act
PPE	Personal Protective Equipment
SABS	South African Bureau of Standards
SANS	South African National Standards

2.5 Roles and Responsibilities

2.5.1 Contractor

- Execute the defined scope according to contractual agreements, including the sourcing of, supplying of, testing of and delivery of specified required equipment to Tutuka Power Station.
- Ensure Compliance with all requirements of the Occupational Health and Safety Act no 85 of 1993 and its regulations to ensure the health and safety of persons carrying out the works.
- Ensure all employees undergo the relevant training as per their function requirement.
- Offer training to end-user (Eskom staff) for the safe operation of equipment supplied and provide training course certificate.
- Ensure employees are informed of hazards identified in the risk assessment before commencement of Works. The Method Statement shall also be communicated to the employees before commencement of Works.
- Ensure all employees are medically, physical and psychologically fit to perform the works.
- Ensure that prescribed PPE for the specified works is worn at all times. The provision of PPE shall be the responsibility of the Contractor.
- Ensure that all employees undergo safety induction on-site.
- Ensure that all power tools are inspected as and when required.

2.5.2 Employer

- Review and approves the Contractor's method statement, risk assessment, QCP and ITP
- Is present for all applicable hold points of the QCP or ITP
- Provide technical; support and information relevant to the scope of work.

2.6 Process for Monitoring

This scope of works will be revised as and when required

2.7 Related/Supporting Documents

None

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3. Scope of Works

The requirements of this section shall be applicable for all items listed in Appendix A: Required Steel Material List

3.1.1 Plant Description

The site for this project will be at Tutuka Power Station and all equipment shall be delivered to Power Station situated at corner Bethal & Standerton Road, Standerton, Mpumalanga.

3.1.2 General

The Contractor shall be expected handle and deliver the structural steel in accordance with the regulations from the Occupational Health and Safety Act (OHS Act) and specific industry guidelines, requiring safe handling practices, suitable personal protective equipment (PPE) and best practice transportation practices using roadworthy delivery vehicles.

3.1.3 Equipment Technical Specification

The Contractor will be expected to provide structural steel on an as and when required basis, as per the details, specifications and quantities outlined in Appendix A: Required Steel Material List.

The following is required from the Contractor:

3.1.3.1 Method Statement indicating Adherence to National Standards and Regulations

The SANS Classification System/South African Bureau of Standards (SABS) has developed and instituted standards that reflect international best practice while addressing local requirements for structural steel. Governing standards for steel fabrication and testing that the contractor shall adhere to include but are not limited to:

- SANS 50025 (Equivalent to EN 10025): Hot-rolled products of structural steels
- SANS 50031 (Equivalent to EN 10031): Cold formed structural hollow sections
- SANS 1431: Weldable structural steel
- SANS 52 (Equivalent to ISO 630): Structural steels
- SANS 1700: Fastener steels
- ISO 17638 Non-destructive testing of welds — Magnetic particle testing
- SANS 14713: Protection against corrosion of iron and steel in structures-Zinc and aluminium coatings-Guidelines

The contractor shall be required to produce a method statement detailing fabrication procedures, welding procedure specification and testing of steel.

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3.1.3.2 Supplier Guarantees and Documentation

- **Guaranteed Properties:** Suppliers must provide full details on the steel's guaranteed properties, including chemical composition, yield strength, tensile strength, and reduction in area.
- **Quality Certificates:** Certificates proving compliance with all aspects of material quality and manufacture, including galvanizing, must be obtained and submitted.
- **Data Books:** Work/material data books with all testing and quality assurance evidence shall be submitted for approval to the employer.

3.1.3.3 Delivery

- **Proper Labelling and Information:** The contractor shall ensure that all delivered material complies to industry best practices for labelling, handling and packaging.
- **Delivery and storage:** As per Employer's standards.

4. Supply of Maintenance Equipment

The contractor is responsible for the supply, testing and delivery of the complete set of equipment with the requisite warranty/guarantee periods from Original Equipment Manufacturers (OEM) with a servicing as detailed in note on item 3. The *works* described in this scope include the following.

4.1 General

The Contractor:

1. Adheres to the South African Environment Protection Act, the waste management code of practice and the South African Occupational Health and Safety Act No. 85 of 1993, the regulations promulgated thereunder and Eskom Safety, Health, Environment and Quality (SHEQ) Policy 32-727 and Waste Management Procedure, as well as the plan from KWS for all works.
2. Submits a comprehensive programme including lead times of the entire works to the Project Manager for acceptance prior to the start of the works.
3. Submit a project specific safety file to the Employer for acceptance, prior to the start of the works.
4. Submit a detailed level 4 schedule for the works to the Project Manager for acceptance after contract award.
5. Manage his access to the working areas and the site to ensure none of the existing plant that is not in the scope is damaged during execution of scope.
6. Manage his activities on Site to ensure that no interference takes place between his work and that of others.
7. Maintain and promote labour harmony on the Site and in the working environment.
8. Immediately report any potential labour disharmony to the Project Manager.

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9. Provides temporary environmental controls for all construction and production activities to prevent contamination, from the battery limits of the project area, for the Project Manager's approval.

4.1.1 Testing Requirements and Procedures

The Contractor shall conduct all necessary testing to ensure that the supplied equipment is in a serviceable state prior to delivery on site. The performance of the equipment maintenance sheets/schedules to be submitted to the Employer for approval prior to the delivery of equipment on site.

Coupon testing to be conducted on steel coupons (samples), testing shall include the following (but not limited to:

- **Corrosion Coupon Testing:** To evaluate the corrosion rate of steel in a specific environment (Tutuka Power Station)
- **Mechanical and Chemical Coupon Testing:** To determine the basic properties of the steel material (i.e Tensile Strength, Yield Strength, Young's Modulus, Fracture Toughness, Fatigue Life etc.)
- **Weldability:** For weldable structural steels like those under SABS 1431, tests and certifications confirm they can be readily welded using common arc welding processes.
- **Impact Testing:** For certain applications requiring enhanced toughness, steel grades with specific impact test requirements are available and specified.
- **Radiographic Testing**
- **Magnetic Particle Testing to ISO 17638**
- **Welder performance certificate and specification - SAQCC- Competent Persons as per ISO (where applicable)**

5. Acceptance

This document has been seen and accepted by:

Name	Designation
Phathamandla Sithole	Civil Engineering Manager
Lorness Jacobs	Materials Management Officer
Martine Hermaans	Acting Materials Management Manager
Reuben Mbowane	Senior Supervisor Boilershop
Mikateko Matlole	Mechanical Maintenance & Boilershop Manager
Elvis Maremene	Maintenance Group Manager
Geoff Ledwaba	Acting Engineering Group Manager
Terry Maseko	Acting Outage Middle Manager
Pumelele Jikeka	Manager Quantity Surveying

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6. Revisions

Date	Rev.	Compiler	Remarks
September 2025	01	V. Mhlari	New document
January 2026	02	V. Mhlari	Addition of final material list
May 2026	03	V. Mhlari	Amendment to maintenance quantities and inclusion of outage quantities
August 2026	04	V. Mhlari	Revision of quantities and material list

7. Development Team

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

- Phathamandla Sithole
- Ntandoyenkosi Nkwanyana
- Hadzhi Ravhegani
- Reuben Mbowane

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Appendix A: Required Steel Material List

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NO.	Stock No	Description	UOM	Required QTY
1	0000651	UNION PIPE:20 MM;FBSP;GI	EA	45.00
2	0000652	UNION PIPE:25;FPT;STEEL GALV;SABS 763	EA	20.00
3	0000653	UNION PIPE:15 MM;FPT;STL GALV;SABS 763	EA	20.00
4	0000654	PLUG PIPE:15 MM;SQ;BSP;STL GALV	EA	20.00
5	0000655	PLUG PIPE:20 MM;SQ;THD;STL GALV	EA	130.00
6	0000656	PLUG PIPE:25 MM;SQ;THD;STL GALV	EA	70.00
7	0000659	COUPLING PIPE:15 MM;FBPT;STL GALV	EA	140.00
8	0000660	COUPLING PIPE:20 MM;FPT;MI GALV;SABS 763	EA	100.00
9	0000661	COUPLING PIPE:25 MM;FPT;MI GALV;SOCKET	EA	30.00
10	0000662	ELBOW PIPE:15 MM;FNPT;90 DEG;SHORT	EA	100.00
11	0000663	ADAPTOR PIPE:20 MM;NPT;15 MM;FNPT	EA	100.00
12	0000664	BEND, PIPE:OD 20 MM;NPT X FNPT;90 DEG	EA	60.00
13	0000665	BEND, PIPE:OD 15 MM;NPT X FNPT;90 DEG	EA	110.00
14	0017079	BAR FLAT:WD 25 MM;LG 6 M;THK 6 MM;EN43A	KG	1200.00
15	0017081	BAR FLAT:WD 40 MM;LG 6 M;THK 6 MM;43A	KG	5500.00
16	0017082	BAR FLAT:WD 50 MM;LG 6 M;THK 6 MM;EN43A	KG	9000.00
17	0017083	BAR FLAT:WD 80 MM;LG 6 M;THK 6 MM;43A	KG	1300.00
18	0017084	BAR FLAT:WD 100 MM;LG 6 M;THK 6 MM;EN43A	KG	14000.00
19	0017085	BAR FLAT:WD 25 MM;LG 6 M;THK 10 MM;EN43A	KG	850.00
20	0017086	BAR FLAT:WD 40 MM;LG 6 M;THK 10 MM;EN43A	KG	2500.00
21	0017087	BAR FLAT:WD 65 MM;LG 6 M;THK 10 MM;EN43A	KG	1750.00
22	0017088	BAR FLAT:WD 100 MM;LG 6 M;THK 10 MM;7.85	KG	5000.00
23	0017090	BAR FLAT:WD 25 MM;LG 6 M;THK 12 MM;EN43A	KG	350.00
24	0017092	BAR FLAT:WD 40 MM;LG 6 M;THK 12 MM;EN43A	KG	350.00
25	0017093	BAR FLAT:WD 50 MM;LG 6 M;THK 12 MM;EN43A	KG	350.00
26	0017099	BAR RD:6 MM;EN43A;MS BS 4360;HOT ROLLED	KG	150.00
27	0017100	BAR RD:10 MM;EN43A;MS BS 4360;LG 6 M	KG	5000.00
28	0017101	BAR RD:12 MM;EN43A;MS BS 4360;LG 6 M	KG	3000.00
29	0017102	BAR RD:16 MM;EN43A;MS BS 4360;LG 6 M	KG	12000.00
30	0017103	BAR RD:20 MM;EN43A;MS BS 4360;LG 6 M	KG	10000.00
31	0017104	BAR RD:25 MM;EN43A;MS BS 4360;LG 6 M	KG	140.00
32	0017105	BAR RD:32 MM;43;MS BS 4360;LG 6 M;6.31	KG	1000.00
33	0017108	BAR FLAT:WD 50 MM;LG 6 M;THK 8 MM;EN43A	KG	200.00
34	0017110	BAR FLAT:WD 80 MM;LG 6 M;THK 10 MM;EN43A	KG	2630.00
35	0017117	BAR RD:8 MM;EN43A;MS BS 4360;LG 6 M;0.39	KG	1400.00
36	0017120	BAR FLAT:WD 50 MM;LG 6 M;THK 10 MM;43A	KG	1000.00
37	0017121	BAR FLAT:WD 100 MM;LG 6 M;THK 12 MM;9.42	KG	2800.00
38	0017126	BAR FLAT:WD 65 MM;LG 6 M;THK 6 MM;43A;3	KG	1090.00
39	0017127	BAR FLAT:WD 40 MM;LG 6 M;THK 8 MM;43A	KG	900.00
40	0017128	BAR FLAT:WD 65 MM;LG 6 M;THK 12 MM;43A	KG	1000.00
41	0017129	BAR FLAT:WD 40 MM;LG 6 M;THK 16 MM;43A	KG	3000.00
42	0017140	PLATE MTL:CS;4.6;HOT ROLLED;148.64 KG	KG	150000.00
43	0017142	PLATE MTL:MS BS 4360, SABS 1431;188.4 KG	KG	105000.00
44	0017143	PLATE MTL:MS;EN43A;BS 4360-1972 TABLE 6	KG	60000.00
45	0017144	PLATE MTL:MS BS 4360;EN43A;HOT ROLLED	KG	30000.00
46	0017145	SHEET MTL:WD 1.225 M;LG 2.45 M;THK 3 MM	KG	120000.00
47	0017147	PLATE MTL:MS BS 4360, SABS 1431;141.3 KG	KG	320000.00
48	0017148	PLATE MTL:MS SABS 1431;300WA EN43A;376.8	KG	45000.00
49	0017150	PLATE MTL:MS BS 4360, SABS 1431;753.6 KG	KG	15000.00
50	0017151	SHEET MTL:WD 1.2 M;LG 2.4 M;THK 1.6 MM	KG	45000.00
51	0017154	BAR FLAT:WD 40 MM;LG 6 M;THK 5 MM;43A	KG	1500.00

52	0017156	BAR FLAT:WD 30 MM;LG 6 M;THK 5 MM;EN43A	KG	500.00
53	0017174	ANGLE STRCTRL:40 MM;6 MM;LG 6 M;MS;3.52	KG	15000.00
54	0017175	ANGLE STRCTRL:50 MM;6 MM;LG 6 M;MS;4.47	KG	20000.00
55	0017176	CHANNEL STRCTRL:WD 76 MM;LG 6 M;HT 152	KG	60000.00
56	0017177	CHANNEL STRCTRL:WD 50 MM;LG 6 M;HT 100	KG	60000.00
57	0017178	ANGLE STRCTRL:90 MM;10 MM;LG 6 M;CS;13.4	KG	3000.00
58	0017179	ANGLE STRCTRL:25 MM;3 MM;LG 6 M;MS;1.11	KG	1250.00
59	0017181	ANGLE STRCTRL:40 MM;5 MM;LG 6 M;MS;2.97	KG	2600.00
60	0017183	ANGLE STRCTRL:100 MM;10 MM;LG 6 M;CS;15	KG	25000.00
61	0017186	ANGLE STRCTRL:150 X 90 MM;10 MM;LG 6 M	KG	1500.00
62	0017188	CHANNEL STRCTRL:WD 38 MM;LG 6 M;HT 76 MM	KG	750.00
63	0017191	ANGLE STRCTRL:25 MM;5 MM;LG 6 M;MS;1.77	KG	1500.00
64	0017192	ANGLE STRCTRL:30 MM;5 MM;LG 6 M;MS;2.18	KG	400.00
65	0017193	ANGLE STRCTRL:50 MM;5 MM;LG 6 M;CS;3.77	KG	25000.00
66	0017194	ANGLE STRCTRL:50 MM;8 MM;LG 6 M;MS;5.82	KG	1500.00
67	0017196	ANGLE STRCTRL:70 MM;6 MM;LG 6 M;CS;6.38	KG	2500.00
68	0017197	ANGLE STRCTRL:60 MM;6 MM;LG 6 M;CS;5.42	KG	3000.00
69	0017198	ANGLE STRCTRL:80 MM;6 MM;LG 6 M;MS;7.34	KG	5000.00
70	0017199	ANGLE STRCTRL:70 MM;10 MM;LG 6 M;MS;10.3	KG	1500.00
71	0017202	BAR RD:10 MM;CU SABS 182;LG 6 M	KG	10.00
72	0036199	PLATE WEAR:SS GR 10/200;LINERS	EA	2.00
73	0038364	GRATING:CATWALK;WD 1.2 X LG 2.4 M;STL	EA	1000.00
74	0038365	GRATING:CATWALK;WD 1.2 X LG 2.4 M;STL	EA	1000.00
75	0038442	ANGLE STRCTRL:10 MM;LG 772 MM;STL	EA	100.00
76	0044327	PLATE WEAR:ID 150 X OD 430 X THK 100 MM	EA	2.00
77	0054979	PIPE MTLC:15 MM;STL;LG 6 M;3.2 MM	M	500.00
78	0054980	PIPE MTLC:20 MM;STL SABS 62;LG 6 M;2.87	M	530.00
79	0054981	PIPE MTLC:ID 25 X OD 34 MM;STL;LG 6 M	M	56.00
80	0054985	PIPE MTLC:80 MM;STL;LG 6 M;4.8 MM;WELDED	M	5000.00
81	0054987	PIPE MTLC:20 MM;STL GALV;LG 6.7 M	M	60.00
82	0054988	PIPE MTLC:40 MM;STL GALV;LG 6 M;4 MM	M	36.00
83	0054989	PIPE MTLC:50 MM;STL GALV;LG 6 M;3.65 MM	M	155.00
84	0054992	PIPE MTLC:150 MM;CS;LG 6.1 M;5.4 MM	M	30.00
85	0054997	PIPE MTLC:34 MM;MS GALV;LG 6 M;2.8 MM	M	3500.00
86	0055011	PIPE MTLC:32 MM;STL GALV;LG 6 M;4.05 MM	M	120.00
87	0055270	PIPE MTLC:50 MM;STL	EA	110.00
88	0055312	PIPE MTLC:ID 4 IN X OD 114.3 MM;SS;LG 6	M	30.00
89	0055313	PIPE MTLC:ID 80 X OD 88.9 MM;SS;LG 6 M	M	60.00
90	0055314	PIPE MTLC:ID 54.4 X OD 60.4 MM;SS;LG 6 M	M	30.00
91	0055315	PIPE MTLC:ID 26.4 X OD 33.4 MM;SS;3.6 MM	M	30.00
92	0055516	PIPE MTLC:100 MM;STL;LG 6 M;5.4 MM	M	110.00
93	0055517	PIPE MTLC:125 MM;STL;LG 6 M;5.4 MM	M	350.00
94	0055520	PIPE MTLC:ID 15 X OD 21.03 MM;SS;LG 6 M	M	30.00
95	0055644	PIPE MTLC:CR13MO44;LG 6 M;6.3 MM;PLAIN	M	30.00
96	0055645	PIPE MTLC:60.3 MM;CR13MO44;LG 6 M;3.6 MM	M	30.00
97	0057099	PLUG PIPE:8 MM;SQ;BSP;STL;4.6;BS 1740	EA	30.00
98	0057100	PLUG PIPE:10 MM;SQ;NPT;STL;4.6;BS 1740	EA	300.00
99	0057108	ADAPTOR PIPE:20 MM;BSP;8 MM;FBSP;MI	EA	20.00
100	0057109	ADAPTOR PIPE:20 MM;BSP;10 MM;FBSP;MI	EA	20.00
101	0057110	ADAPTOR PIPE:20 MM;BSP;15 MM;FBSP;MI	EA	60.00
102	0057112	ADAPTOR PIPE:25 MM;NPT;10 MM;FPT;MI GALV	EA	12.00
103	0057113	ADAPTOR PIPE:25 MM;BSP;15 MM;FBSP;MI	EA	12.00
104	0057114	ADAPTOR PIPE:25 MM;BSP;20 MM;FBSP;MI	EA	40.00

105	0057115	ADAPTOR PIPE:32 MM;NPT;20 MM;FPT;MI	EA	30.00
106	0057116	REDUCER PIPE:BUSH;40 X 20 MM;BSP X FBSP	EA	10.00
107	0057117	ADAPTOR PIPE:40 MM;BSP;25 MM;FBSP;MI	EA	30.00
108	0057119	ADAPTOR PIPE:50 MM;BSP;25 MM;FBSP;MI	EA	20.00
109	0057124	COUPLING PIPE:6 MM;FPT;STL;SABS 62	EA	75.00
110	0057125	COUPLING PIPE:8 MM;FPT;STL;SABS 62	EA	50.00
111	0057126	COUPLING PIPE:10 MM;FPT;STL;SABS 62-1971	EA	50.00
112	0057127	COUPLING PIPE:15 MM;FPT;STL;SABS 62-1971	EA	40.00
113	0057128	COUPLING PIPE:20 MM;FPT;STL;SABS 62-1971	EA	60.00
114	0057129	COUPLING PIPE:25 MM;FPT;STL;SABS 1740	EA	30.00
115	0057130	COUPLING PIPE:32 MM;FPT;STL;SABS 62	EA	30.00
116	0057131	COUPLING PIPE:40 MM;FPT;STL;SABS 62-1971	EA	30.00
117	0057132	COUPLING PIPE:50 MM;FPT;STL;SABS 62-1971	EA	200.00
118	0057133	COUPLING PIPE:65 MM;FPT;STL;SABS 62	EA	5.00
119	0057134	COUPLING PIPE:80 MM;FNPT;STL;SOCKET	EA	10.00
120	0057135	COUPLING PIPE:100 MM;FPT;STL;SABS 62	EA	5.00
121	0057138	PLUG PIPE:50 MM;SQ;NPT;STL;BS S1740	EA	350.00
122	0057139	PLUG PIPE:32 MM;SQ;NPT;STL;BS S1740	EA	100.00
123	0057140	PLUG PIPE:40 MM;SQ;NPT;STL;BS 1740-1965	EA	25.00
124	0057168	REDUCER PIPE:CONCENTRIC;25 X 10 MM;FPT	EA	10.00
125	0057169	REDUCER PIPE:CONCENTRIC;40 X 25 MM;NPT	EA	20.00
126	0057171	REDUCER PIPE:CONCENTRIC;20 X 15 MM;FPT	EA	50.00
127	0057172	REDUCER PIPE:CONCENTRIC;15 X 10 MM;FPT	EA	20.00
128	0057174	REDUCER PIPE:CONCENTRIC;25 X 20 MM;FPT	EA	30.00
129	0057177	REDUCER PIPE:CONCENTRIC BELL;50 X 25 MM	EA	20.00
130	0057179	REDUCER PIPE:CONCENTRIC BELL;25 X 15 MM	EA	60.00
131	0057181	REDUCER PIPE:CONCENTRIC;10 X 8 MM;NPT	EA	20.00
132	0057185	ADAPTOR PIPE:50 MM;BSP;20 MM;FBSP;MI	EA	20.00
133	0057188	REDUCER PIPE:CONCENTRIC;20 X 10 MM;FNPT	EA	30.00
134	0057191	ADAPTOR PIPE:15 MM;BSP;8 MM;FBSP;MI	EA	5.00
135	0057192	ADAPTOR PIPE:10 MM;BSP;8 MM;FBSP;MI	EA	5.00
136	0057194	BEND, PIPE:OD 8 MM;SOCKET X NPT;STL;90	EA	5.00
137	0057195	BEND, PIPE:OD 10 MM;SW X NPT;STL;90 DEG	EA	20.00
138	0057196	BEND, PIPE:OD 15 MM;MNPT;STL;90 DEG;LONG	EA	10.00
139	0057197	BEND, PIPE:OD 20 MM;MNPT;STL;90 DEG;LONG	EA	10.00
140	0057198	BEND, PIPE:OD 25 MM;SW X NPT;STL;90 DEG	EA	10.00
141	0057199	BEND, PIPE:OD 32 MM;MNPT;STL;90 DEG;LONG	EA	10.00
142	0057201	BEND, PIPE:OD 50 MM;SW X NPT;STL;90 DEG	EA	15.00
143	0057203	BEND, PIPE:OD 80 MM;NPT X FNPT;STL;90	EA	5.00
144	0057207	ELBOW PIPE:6 MM;FNPT;STL 13CRMO44 BS1740	EA	10.00
145	0057208	ELBOW PIPE:8 MM;FNPT;STL BS 1740;90 DEG	EA	50.00
146	0057209	ELBOW PIPE:10 MM;FNPT;STL 13CRMO44;90	EA	20.00
147	0057211	ELBOW PIPE:20 MM;FNPT;STL BS 1740;90 DEG	EA	20.00
148	0057212	ELBOW PIPE:25 MM;FNPT;BS 1740;90 DEG	EA	30.00
149	0057213	ELBOW PIPE:32 MM;FNPT;90 DEG;SHORT	EA	20.00
150	0057214	ELBOW PIPE:40 MM;FNPT;STL BS 1740;90 DEG	EA	20.00
151	0057215	ELBOW PIPE:50 MM;FNPT;STL BS 1740;90 DEG	EA	20.00
152	0057220	BEND, PIPE:OD 25 MM;NPT X FNPT;90 DEG	EA	5.00
153	0057221	ELBOW PIPE:20 MM;FNPT;STL GALV;90 DEG	EA	70.00
154	0057222	ELBOW PIPE:25 MM;FNPT;MI GALV;90 DEG	EA	30.00
155	0057225	ELBOW PIPE ADPTR:50 MM;NPT;FPT;MI GALV	EA	10.00
156	0057226	ELBOW PIPE:50 MM;FNPT;MI GALV;90 DEG	EA	30.00
157	0057228	ELBOW PIPE:40 MM;FNPT;MI GALV;90 DEG	EA	20.00

158	0057233	ADAPTOR PIPE:32 MM;BSP;15 MM;FBSP;MI	EA	15.00
159	0057240	ADAPTOR PIPE:50 MM;NPT;25 MM;FPT	EA	15.00
160	0057243	REDUCER PIPE:BUSH;38 X 20 MM;BSP X FBSP	EA	20.00
161	0057247	ADAPTOR PIPE:25 MM;BSP;20 MM;FBSP	EA	40.00
162	0057271	PLUG PIPE:6 MM;SQ;BSP;STL;BS 1740	EA	5.00
163	0057272	PLUG PIPE:15 MM;SQ;PT;STL;B;BS 1740	EA	150.00
164	0057273	PLUG PIPE:20 MM;SQ;NPT;STL;BS S1740	EA	60.00
165	0057274	PLUG PIPE:25 MM;SQ;NPT;STL	EA	150.00
166	0057275	PLUG PIPE:50 MM;SQ;NPT;IRON GALV;B	EA	400.00
167	0057286	UNION PIPE:50 MM;FPT;STL;SABS 763	EA	15.00
168	0057289	UNION PIPE:8;FPT;STL;4830 KPA;BS 1940;B	EA	65.00
169	0057290	UNION PIPE:10;FPT;STL	EA	20.00
170	0057291	UNION PIPE:40 MM;FBSP;MI GALV;SABS 763;B	EA	40.00
171	0057294	UNION PIPE:50 MM;FPT;STL;BS S1740-1971	EA	15.00
172	0057295	UNION PIPE:40 MM;FPT;STL;BS 1740;4.6	EA	40.00
173	0057297	UNION PIPE:20 MM;FBSP;STL;BS 1740	EA	150.00
174	0057298	UNION PIPE:25 MM;FNPT;STL;BS 1740-1971	EA	30.00
175	0057302	COUPLING PIPE:40 MM;FBPT;STL GALV	EA	50.00
176	0057304	COUPLING PIPE:50 MM;FNPT;STL GALV;SOCKET	EA	50.00
177	0057387	BEND, PIPE:OD 32 MM;NPT X FNPT;90 DEG	EA	35.00
178	0057402	FLANGE PIPE:THD NECK;40 MM;STL;RF;4.6	EA	10.00
179	0057403	FLANGE PIPE:THD NECK;32 MM;STL;RF;4.6	EA	10.00
180	0057405	FLANGE PIPE:THD COMPANION;20 MM;STL	EA	10.00
181	0057411	FLANGE PIPE:COMPANION THD;STL A105;20	EA	30.00
182	0057412	FLANGE PIPE:COMPANION THD;STL;215.9 MM	EA	30.00
183	0057413	FLANGE PIPE:COMPANION SCREWED;80 MM;STL	EA	30.00
184	0057414	FLANGE PIPE:COMPANION SCREWED;50 MM;MS;4	EA	30.00
185	0057415	FLANGE PIPE:COMPANION THD;STL;279.4 MM	EA	10.00
186	0057460	FLANGE PIPE:COMPANION THD;40 MM;STL;BF	EA	10.00
187	0057461	FLANGE PIPE:THD NECK;50 MM;MS;RF;165 MM	EA	10.00
188	0058252	COUPLING PIPE:200 MM;BOLTED;CI	EA	10.00
189	0058507	UNION PIPE:32;SOCKET SLIP ON;PVC	EA	12.00
190	0058510	ELBOW PIPE:32 MM;PLAIN;PVC;90 DEG;SHORT	EA	10.00
191	0058513	ELBOW PIPE:20 MM;PLAIN;PVC;90 DEG;SHORT	EA	30.00
192	0058517	COUPLING PIPE:63 MM;SLIP ON;PVC;1600 KPA	EA	30.00
193	0058606	FLANGE PIPE:WELD NECK;50 MM;SS;SCH 10;RF	EA	40.00
194	0058764	FLANGE PIPE:WELD ON;50 MM;SS;FF;316L;127	EA	40.00
195	0058797	ELBOW PIPE:ID 50 MM;BW;SS;90 DEG;LONG;40	EA	5.00
196	0058843	ELBOW PIPE:32 MM;SOCKET FUSION;PVC;90;10	EA	10.00
197	0058935	FLANGE PIPE:220 MM;SS;316L;8;340 MM	EA	10.00
198	0058937	FLANGE PIPE:WELD NECK;100 MM;SS;RF;316L	EA	10.00
199	0059003	PLUG PIPE:3/8 IN;SQ;NPT;SS;316	EA	150.00
200	0059038	UNION PIPE:1-1/2 IN;FBSP;SS;316	EA	36.00
201	0059092	UNION PIPE:1-1/2 IN;FBSP;SS;316	EA	90.00
202	0059093	UNION PIPE:3/4 IN;FBSP;SS;316	EA	20.00
203	0059168	FLANGE PIPE:55 MM;BRS;160 MM;8;200 MM	EA	10.00
204	0059383	PLUG PIPE:1/4 IN;HEX;THD;SS;SS400-P	EA	30.00
205	0059384	PLUG PIPE:3/8 IN;HEX;THD;SS;SS600-P	EA	30.00
206	0059387	PLUG PIPE:10 MM;HEX;THD;SS;SS10M0-P	EA	30.00
207	0059595	BEND, PIPE:OD 35 MM;STL;90 DEG	EA	520.00
208	0059903	COUPLING PIPE:20 MM;COMPRESSION	EA	20.00
209	0061207	COUPLING PIPE:750 MM;BOLTED;STL	EA	5.00
210	0061756	UNION PIPE:3/4 IN;SW;STL	EA	5.00

211	0061771	ADAPTOR PIPE:3 IN;NPT;2 IN;FPT;MI GALV	EA	5.00
212	0086466	REDUCER PIPE:STUD;29 X 25 MM;NPT;SS	EA	100.00
213	0086523	BAR RD:6 MM;43;MS BS 4360;LG 1 M	EA	25.00
214	0086560	BAR RD:24 MM;43;MS BS 4360;LG 250 MM	EA	300.00
215	0087379	COUPLING PIPE:3/4 IN;14BSP	EA	5.00
216	0090541	PIPE MTL:30 MM;SS;LG 445 MM;SEAMLESS	EA	15.00
217	0113061	PLATE MTL:STL;THK 22 MM;WD 42 MM;LG 50	EA	12.00
218	0135297	BAR RD:75 MM;TUFNOL;LG 1.2 M;7 KG/M	KG	10.00
219	0136071	BAR RD:50 MM;TUFNOL;LG 1 M;2 KG/M	KG	65.00
220	0143924	BAR FLAT:WD 16 MM;LG 1.9 M;THK 5 MM;STL	EA	160.00
221	0161950	BAR RD:12 MM;EN3B;LG 6 M;HOT ROLLED;0.88	KG	300.00
222	0161953	BAR RD:25 MM;EN3B;MS BS 970;LG 6 M;3.85	KG	300.00
223	0161955	BAR RD:32 MM;EN3B;STL BS 970;LG 6 M;6.31	KG	300.00
224	0161957	BAR RD:50 MM;EN3B;LG 6 M;HOT ROLLED;15.4	KG	1500.00
225	0161958	BAR RD:65 MM;EN3B;MS BS 970 PART 1;LG 6	KG	300.00
226	0161960	BAR RD:76 MM;EN3B;LG 3 M;HOT ROLLED;37	KG	4500.00
227	0161962	BAR RD:EN3B;STL 070M20 BS970 PART 1;LG 2	KG	1500.00
228	0161967	BAR FLAT:WD 80 MM;LG 6 M;THK 12 MM;EN43A	KG	1500.00
229	0162008	BAR RD:20 MM;EN3B;LG 6 M;HOT ROLLED;2.46	KG	1500.00
230	0162058	BAR RD:75 MM;316;SS BS 970;LG 3 M;35.5	KG	450.00
231	0162075	BAR RD:40 MM;EN3B;LG 6 M;9.865 KG/M	KG	750.00
232	0162082	BAR FLAT:WD 25 MM;LG 3 M;THK 6 MM;SS;304	KG	150.00
233	0162085	BAR FLAT:WD 60 MM;LG 6 M;THK 10 MM;43A	KG	1500.00
234	0162086	BAR FLAT:WD 60 MM;LG 3 M;THK 6 MM;SS;310	KG	300.00
235	0162087	BAR FLAT:WD 150 MM;LG 6 M;THK 8 MM;43A	KG	600.00
236	0162088	BAR FLAT:WD 130 MM;LG 6 M;THK 8 MM;43A	KG	600.00
237	0162092	BAR FLAT:WD 50 MM;LG 3 M;THK 6 MM;3CR12	KG	100.00
238	0162095	BAR RD:60 MM;EN3B;GR 070M20 BS 970;LG 6	KG	300.00
239	0162096	KEY STOCK:WD 6 MM;LG 3 M;THK 6 MM;STL	EA	10.00
240	0162097	KEY STOCK:WD 28 MM;LG 3 M;THK 50 MM;STL	EA	20.00
241	0162098	KEY STOCK:WD 20 MM;LG 3 M;THK 36 MM;STL	EA	20.00
242	0162100	KEY STOCK:WD 30 MM;LG 3 M;THK 30 MM;STL	EA	15.00
243	0162101	KEY STOCK:WD 25 MM;LG 3 M;THK 25 MM;STL	EA	10.00
244	0162102	KEY STOCK:WD 16 MM;LG 3 M;THK 16 MM;STL	EA	10.00
245	0162103	KEY STOCK:WD 12 MM;LG 3 M;THK 12 MM;STL	EA	10.00
246	0162104	KEY STOCK:WD 10 MM;LG 3 M;THK 10 MM;STL	EA	10.00
247	0162106	BAR RD:30 MM;EN3B;13CRMO44;LG 6 M;5.5	KG	100.00
248	0162113	KEY STOCK:WD 8 MM;LG 3 M;THK 10 MM;STL	EA	10.00
249	0162128	BAR RD:160 MM;EN3B;LG 3 M;HOT ROLLED;160	KG	500.00
250	0162201	KEY STOCK:WD 15.8 MM;LG 3 M;THK 15.8 MM	KG	10.00
251	0162202	KEY STOCK:WD 12.7 MM;LG 4 M;THK 12.7 MM	KG	10.00
252	0162203	KEY STOCK:WD 25.4 MM;LG 3 M;THK 25.4 MM	KG	10.00
253	0162231	BAR RD:30 MM;EN3B;LG 6 M;HOT ROLLED	KG	2500.00
254	0162240	BAR RD:6 MM;S15;SS BS 970-972 PART 4	KG	2500.00
255	0162248	BAR RD:25 MM;316;SS BS 970;LG 6 M;1.305	KG	3500.00
256	0162249	BAR RD:32 MM;316; S16;SS BS 970-1972	KG	1500.00
257	0162250	BAR RD:50 MM;316;SS BS 970;LG 3 M;6.43	KG	750.00
258	0162260	KEY STOCK:WD 20 MM;LG 3 M;THK 20 MM;STL	EA	10.00
259	0162358	PLATE MTL:MS BS 4360, SABS 1431;589 KG	KG	6000.00
260	0162359	PLATE MTL:MS;EN43A;BS 4360-1972 TABLE 6	KG	120000.00
261	0162366	SHEET MTL:WD 915 MM;LG 1.83 M;THK 0.6 MM	EA	15000.00
262	0162400	SHEET MTL:WD 1.5 M;LG 3 M;THK 3 MM	KG	15000.00
263	0162433	PLATE WEAR:STL HIGH CARBON SPECIAL	EA	7500.00

264	0162434	PLATE WEAR:STL HIGH CARBON SPECIAL	EA	300.00
265	0162439	PLATE MTL:3CR12;HOT ROLLED;141 KG;3CR-12	KG	1000.00
266	0162451	PLATE MTL:SS ASTM A240;310;HOT ROLLED	KG	60000.00
267	0162453	PLATE MTL:SS;304;HOT ROLLED;153 KG	KG	25000.00
268	0162459	PLATE MTL:SS;310;THK 8 MM;WD 1 M;LG 3 M	KG	25000.00
269	0162460	PLATE MTL:VRN500;CHUTE;760 KG	EA	30.00
270	0162464	PLATE MTL:15MO3;THK 6 MM;WD 2 M;LG 4 M	KG	100000.00
271	0162466	SHIM STCK:THK 1 MM;WD 610 MM X LG 10 M	M	50.00
272	0162467	SHIM STCK:THK 0.25 MM;WD 610 MM X LG 5 M	M	50.00
273	0162468	SHIM STCK:THK 0.05 MM;SS GR 316	M	50.00
274	0162469	SHIM STCK:THK 0.15 MM;SS GR 316	M	50.00
275	0162470	SHIM STCK:THK 0.3 MM;WD 610 MM X LG 10 M	M	50.00
276	0162472	SHIM STCK:THK 0.2 MM;WD 610 MM X LG 10 M	M	50.00
277	0162475	SHIM STCK:THK 0.38 MM;WD 305 MM	M	50.00
278	0162476	SHIM STCK:THK 0.4 MM;WD 610 MM X LG 10 M	M	50.00
279	0162478	SHIM STCK:THK 0.7 MM;WD 610 MM X LG 10 M	M	50.00
280	0162479	SHIM STCK:THK 0.1 MM;WD 610 MM X LG 10 M	M	50.00
281	0162481	SHEET MTL:WD 1.2 M;LG 2.4 M;THK 2 MM	M2	100.00
282	0162482	SHEET MTL:WD 415 MM;LG 1 M;COLD ROLLED	M2	100.00
283	0162497	SHEET MTL:WD 1.25 M;LG 2.5 M;THK 1.6 MM	KG	3500.00
284	0162499	PLATE MTL:MS;EN43A;BS 4360-1972 TABLE 6	KG	15000.00
285	0162576	PLATE MTL:15MO3;HOT ROLLED;360 KG	KG	45000.00
286	0162645	BAR RD:25 MM;CU SABS 182;LG 3 M;ANNEALED	KG	70.00
287	0162650	BAR RD:13 MM;CZ121;BRS BS 249;LG 6 M	KG	35.00
288	0162652	BAR RD:19 MM;CZ121;BRS BS 249;LG 6 M	KG	200.00
289	0162654	BAR RD:25 MM;CZ121;BRS BS 249;LG 6 M	KG	225.00
290	0162656	BAR RD:50 MM;CZ121;BRS BS 249;LG 3 M	KG	225.00
291	0162657	BAR RD:76 MM;CZ121;BRS BS 249;LG 2 M;39	KG	225.00
292	0162667	BAR RD:38 MM;CU SABS 182-1968;LG 6 M	KG	225.00
293	0162678	BAR RD:20 MM;CU SABS 182-1968;LG 4 M	KG	30.00
294	0162679	BAR RD:50 MM;CU SABS 182-1968;LG 500 MM	KG	30.00
295	0162680	BAR RD:64 MM;CU;LG 1 M;ANNEALED;30 KG/M	KG	30.00
296	0162682	BAR RD:12 MM;CU;LG 3 M;1.1 KG/M;SABS 182	KG	30.00
297	0162713	BAR RD:76.2 MM;PB1C;LG 2 M;41.05 KG/M	KG	500.00
298	0162714	BAR RD:128 MM;BRZ PHOSPHOR BS 1400	KG	500.00
299	0162715	BAR RD:154 MM;BRZ PHOSPHOR SABS 202	KG	500.00
300	0162718	BAR RD:230 MM;PB1;LG 250 MM	KG	500.00
301	0162736	BAR RD:38 MM;CZ121;BRS BS 249;LG 4 M	KG	500.00
302	0162757	BAR RD:38 MM;BRZ PHOSPHOR;LG 165 MM	KG	500.00
303	0162817	SHIM STCK:THK 0.072 MM;WD 152 MM;BRS	KG	25.00
304	0162818	SHIM STCK:THK 0.101 MM;WD 150 MM;BRS	KG	25.00
305	0162821	SHIM STCK:THK 0.254 MM;WD 152 MM;BRS	KG	150.00
306	0162843	SHIM STCK:THK 0.15 MM;WD 150 MM	M	85.00
307	0222771	ADAPTOR PIPE:50 MM;NPT;25 MM;FPT;MI GALV	EA	60.00
308	0222772	ADAPTOR PIPE:32 MM;NPT;15 MM;FPT;MI GALV	EA	60.00
309	0222774	ADAPTOR PIPE:15 MM;NPT;8 MM;FPT;MI GALV	EA	6.00
310	0222813	REDUCER PIPE:BUSH;100 X 75 MM;STL	EA	50.00
311	0222814	REDUCER PIPE:BUSH;25 X 20 MM;GALV	EA	50.00
312	0227371	SHIM STCK:THK 0.38 MM;WD 152 MM;BRS	KG	10.00
313	0227372	SHIM STCK:THK 0.5 MM;WD 152 MM;BRS	KG	25.00
314	0227373	SHIM STCK:THK 0.75 MM;WD 152 MM;BRS	KG	25.00
315	0227374	SHIM STCK:THK 0.65 MM;WD 152 MM;BRS	KG	25.00
316	0251233	PIPE MTL:ID 500 MM;LG 6-10 M;15.5 MM;BW	M	200.00

317	0578671	PIPE MTLC:ID 438 MM;10CRM09-10 (1.7380)	M	25.00
318	0578673	PIPE MTLC:ID 470 MM;LG 6-11.8 M;70 MM	M	25.00
319	0578674	PIPE MTLC:ID 990 MM;10CRM0910 1.7380;540	M	25.00
320	0578676	PIPE MTLC:ID 245 MM;10CRM0910 1.7380;80	M	25.00
321	0578677	PIPE MTLC:ID 446 MM;10CRM09-10 (1.7380)	M	25.00
322	0578678	PIPE MTLC:ID 245 MM;LG 6-11.8 M;60 MM;17	M	25.00
323	0578679	BAR RD:OD 270 MM;X20CRM0V11-1 (1.4922)	M	25.00
324	0578680	PIPE MTLC:ID 460 MM;LG 6-11.8 M;57 MM;17	M	25.00
325	0578681	PIPE MTLC:ID 290.5 MM;LG 6-11.8 M;15.2	M	25.00
326	0578682	PIPE MTLC:ID 500 MM;LG 6-11.8 M;18 MM;17	M	25.00
327	0578683	PIPE MTLC:ID 250 MM;LG 6-11.8 M;59 MM;17	EA	25.00
328	0632361	GRATING:CATWALK;WD 1.2 X LG 2.4 M;40 X 6	EA	1000.00
329	0662187	FLANGE PIPE:1CES032X039001-1;BUTTWELD;SS	EA	10.00
330	0662857	BAR FLAT:WD 570 MM;LG 1.36 M;THK 50 MM	EA	12.00
331	0665171	PIPE MTLC:25 MM;SS 1.4539;LG 6 M;4.55 MM	M	10.00
332	0665172	PIPE MTLC:50 MM;SS 1.4539;LG 6 M;3.91 MM	M	20.00
333	0665173	PIPE MTLC:80 MM;SS 1.4539;LG 6 M;5.49 MM	M	10.00
334	0665174	PIPE MTLC:100 MM;SS 1.4539;LG 6 M;6.02	M	10.00
335	0665178	FLANGE PIPE:SLIP ON;33.7 MM;25 MM;SS;16	EA	40.00
336	0665185	FLANGE PIPE:SLIP ON;60.3 MM;50 MM;SS;16	EA	150.00
337	0665187	FLANGE PIPE:SLIP ON;88.9 MM;80 MM;SS;16	EA	50.00
338	0665189	FLANGE PIPE:SLIP ON;114.3 MM;100 MM;SS;8	EA	100.00
339	0665206	ELBOW PIPE:25 MM;SW;SS;90;10 BAR;80;904L	EA	25.00
340	0665207	ELBOW PIPE:50 MM;BW;SS;90;LONG;10 BAR;40	EA	25.00
341	0665208	ELBOW PIPE:80 MM;BW;SS;90;LONG;10 BAR;40	EA	30.00
342	0665210	ELBOW PIPE:100 MM;BW;SS;90;LONG;10 BAR	EA	25.00
343	0674964	ELBOW PIPE:50 MM;BEVELLED ENDS;SS;90;10	EA	25.00
344	0674969	FLANGE PIPE:FLAT FACE;60.3 MM;50 MM;SS;4	EA	140.00
345	0674972	PIPE MTLC:50 MM;SS;LG 6 MM;3.91 MM;1000	M	300.00
346	0683256	ADAPTOR PIPE:1/2 IN;JIC MALE;3/4 IN	EA	100.00
347	0683258	ADAPTOR PIPE:3/4 IN;3/4 IN JIC MALE;3/4	EA	100.00
348	0683263	ADAPTOR PIPE:1/2 IN;JIC MALE;1/2 IN	EA	100.00
349	0683265	ADAPTOR PIPE:1/2 IN;1/2 IN JIC MALE;1/2	EA	100.00
350	0683268	ADAPTOR PIPE:3/4 IN;3/4 IN JIC MALE;3/4	EA	100.00
351	0683298	ELBOW PIPE ADPTR:1/2 IN;1/2 IN NPTF MALE	EA	100.00
352	691872	BEND, PIPE: OUTSIDE DIAMETER: 13 MM; CONNECTION: FERRULE; MATERIAL: ACRILIC 12/8; DEGREE: 90; RADIUS: 2 M; TYPE: U-TUBE	EA	8
353	691886	COUPLING, PIPE: SIZE: ID 336 X OD 342 MM; CONNECTION: BOLTED; MATERIAL: STEEL; RATING: 750 KPA; SPECIFICATION: (VJ); SCHEDULE: 80; GRADE: 106; STYLE: STRAIGHT; COLOR CODING: GREEN; MEDIA FOR WHICH DESIGNED: POTABLE WATER	EA	10
354	697482	BENDER, TUBING: TYPE: HAND; SIZE: 12 MM; MS-HTB-12 MM, 12 MM TUBE OD, 38 MM BEND RADIUS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	10
355	722054	GRATING: TYPE: EN-9; DIMENSIONS: WD 860 X LG 910 X THK 20 MM; OPENING SIZE: 20 MM; MATERIAL: STAINLESS STEEL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	30
356	724511	MALE THREAD TO TUBE FITTING ADAPTER; MATERIAL: S/S; HIGH PRESSURE MALE THREAD TO FEMALE PIPE CONNECTORS ; 316 S/S IPT SERIES ADAPTER ; HIGH PRESSURE MALE THREAD TO TUBE FITTING ADAPTER TUBE ; OD 1/4 TO THREAD SIZE 9 /16 10200 PSI (702 BAR).	EA	18
357	0731146	PIPE MTLC:100 MM;CAST STEEL;LG 6 MM;1;B	EA	18.00

358	731628	CHANNEL, STRUCTURAL: WIDTH: 90 MM; LENGTH: 13 M; HEIGHT: 230 MM; MATERIAL: MILD STEEL; BASIC SHAPE STYLE: PARALLEL FLANGE; PROCESS: AS ROLLED; GRADE: S355 JR+AR; WEIGHT: 32.2 KG/M; WALL THICKNESS: 14 MM; TO BE SUPPLIED WITH 2.1 MATERIAL CERTIFICATE	EA	150
359	0732916	PLATE MTL:CARBON STEEL;HOT ROLLED;150 KG	KG	150.00
360	0747542	PIPE MTLC:NB 350 MM;CARBON STEEL;LG 6 M	EA	10.00
361	0747543	PIPE MTLC:300NB MM;LG 6 M;10.31 MM;16;40	EA	10.00
362	0747547	PIPE MTLC:NB 400 MM;CARBON STEEL;LG 6 M	EA	10.00
363	0747553	PIPE MTLC:600 MM;CARBON STEEL;LG 6 M;16	EA	10.00
364	750510	GRATING: TYPE: MILD CARBON STEEL GALVANISED; DIMENSIONS: WD 1000 X LG 480 X HT 60X THK 10 MM; OPENING SIZE: 40 X 35 MM; MATERIAL: MILD STEEL; BEARER BAR SIZE: 10 MM; SUPPLIER TO PROVIDE MATERIAL CERTIFICATION; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	1500
365	756562	BAR, ROUND: NOMINAL DIAMETER: 80 MM; MATERIAL: 10CR MO; LENGTH: 1000 MM	EA	10
366	758150	ANGLE, STRUCTURAL: LEG LENGTH: 70 MM; MATERIAL THICKNESS: 10 MM; LENGTH: 6 M; MATERIAL: MILD STEEL; PROCESS: HOT DIPPED GALVANISED; WEIGHT: 10.3 KG/M; SPECIFICATION: BS4360; GRADE: EN43A	KG	60000
367	759281	BEAM: TYPE: BEAM; LENGTH: 13 M; MATERIAL: S355 JR; WIDTH: 73 MM; HEIGHT: 140 MM; THICKNESS: 73 MM; SPECIFICATION: S355 JR+AR EN 10025-2 AS ROLLED; LOAD CAPACITY: 150; MATERIAL CARTIFICATE MUST BE SUPPLIED WITH DELIVERY	EA	100
368	0761054	BEND:LONG RADIUS;UST 37-2;90 DEG	EA	20.00
369	0761055	BEND:SHORT RADIUS;UST 37-2;45 DEG	EA	20.00
370	0761280	CHANNEL:PARALLEL FLANGE;STL	EA	50.00
371	767425	GRATING: TYPE: STEEL; DIMENSIONS: WD 1.2 M X LG 2.4M X 4.5MM; OPENING SIZE: 40 X 4.5 MM; MATERIAL: STAINLESS STEEL; BEARER BAR SIZE: 40 MM; MATERIAL CRTIFICATE TO BE SUPPLIED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA	500
372	114888	POST: TYPE: HANDRAIL STANCHION; DIMENSIONS: DIA 42 MM X LG 1.04 M; MATERIAL: STL ZN CHROMATE PAINTED; REFERENCE NO: T90; PLATFORM MOUNTED, SIZE 1000MM HIGH, SUITABLE TO FIT SIZE 33.5MM OUTSIDE DIAMETER PIPE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE)	EA	1500
373	0759281	BEAM:BEAM;LG 13 M;S355 JR;WD 73 MM;150	EA	50.00
374	0762011	BEAM:BEAM;LG 13 M;STL;WD 165.1 MM;THK 41	EA	20.00
375	0762031	BEAM:BEAM;LG 13 M;STL;WD 146.1 MM;THK 31	EA	20.00