



## REQUEST FOR QUOTATION (RFQ)

**RFQ NUMBER: 30/01/2024 EMU TOOLS WC**

**Supply and delivery of the EMU tools – Western Cape depot**

## SECTION 1: SBD1

## PART A INVITATION TO BID

## YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF PASSENGER RAIL AGENCY (PRASA)

BID NUMBER:	<b>30/01/2024 EMU TOOLS WC</b>	<b>CLOSING DATE:</b>	<b>08 February 2024</b>	<b>CLOSING TIME:</b>	12:00
DESCRIPTION	<b>Supply and delivery of the special tools and Equipment – Western Cape depot</b>				

## BID RESPONSE DOCUMENTS SHALL BE ADDRESSED AS FOLLOWS:

BID RESPONSE DOCUMENTS MUST BE HAND DELIVERED TO UMJANTSHI HOUSE, 30 WOLMARAANS, BRAAMFONTEIN, JOHANNESBURG ON OR BEFORE CLOSING DATE.

PLEASE ENSURE YOU SIGN SUBMISSION REGISTER.

## BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO

CONTACT PERSON	<b>Mahuna Mphela</b>		
TELEPHONE NUMBER	<b>011 013 1784</b>		
E-MAIL ADDRESS	<b>mmphela@prasa.com</b>		

## SUPPLIER INFORMATION

NAME OF BIDDER				
POSTAL ADDRESS				
STREET ADDRESS				
TELEPHONE NUMBER	CODE		NUMBER	
CELLPHONE NUMBER				
FACSIMILE NUMBER	CODE		NUMBER	
E-MAIL ADDRESS				
VAT REGISTRATION NUMBER				
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:	OR	CENTRAL SUPPLIER DATABASE No:	MAAA.....

<p>2.1 ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No  [IF YES ENCLOSURE PROOF]</p>	<p>2.2 ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No  [IF YES, ANSWER THE QUESTIONNAIRE BELOW]</p>
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### QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS

IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?  YES  NO

DOES THE ENTITY HAVE A BRANCH IN THE RSA?  YES  NO

DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?  YES  NO

DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?  YES  NO

IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?  YES  NO

**IF THE ANSWER IS “NO” TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.**

### PART B: TERMS AND CONDITIONS FOR BIDDING

#### 1. BID SUBMISSION:

- 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
- 1.2. **ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED–(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.**
- 1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
- 1.4. **THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).**

#### 2. TAX COMPLIANCE REQUIREMENTS

- 2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
- 2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
- 2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
- 2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
- 2.5 IN BIDS WHERE CONSORCIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
- 2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
- 2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE.”

**NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.**

SIGNATURE OF BIDDER: .....

CAPACITY UNDER WHICH THIS BID IS SIGNED: .....

(Proof of authority must be submitted e.g. company resolution)

DATE: .....

**NB:**

- ***Quotation(s) must be addressed to PRASA before the closing date and time shown above.***
- ***PRASA General Conditions of Purchase shall apply.***

## SECTION 2

### NOTICE TO BIDDERS

#### 1. RESPONSES TO RFQ

Responses to this RFQ **[Quotations]** must not include documents or reference relating to any other quotation or proposal. Any additional conditions must be embodied in an accompanying letter.

Proposals must reach the PRASA before the closing hour on the date shown on SBD1 above, and must be enclosed in a sealed envelope.

#### 2 COMMUNICATION

Respondent/s are warned that a response will be liable for disqualification should any attempt be made either directly or indirectly to canvass any SCM Officer(s) or PRASA employee in respect of this RFQ between the closing date and the date of the award of the business.

#### 3 BIDDERS COMPLAINTS PROCESS

3.1 Bidders are advised utilize this email address (SCM.Complaints@prasa.co.za) for lodging of complains to PRASA in relation to this bid process. The following minimum information about the bidder must be included in the complaint:

3.1.1 Bid/Tender Description

3.1.2 Bid/Tender Reference Number

3.1.3 Closing date of Bid/Tender

3.1.4 Supplier Name;

3.1.5 Supplier Contact details

3.1.6 The detailed compliant

#### 4 LEGAL COMPLIANCE

The successful Respondent shall be in full and complete compliance with any and all applicable national and local laws and regulations.

#### 5 CHANGES TO QUOTATIONS

Changes by the Respondent to its submission will not be considered after the closing date and time.

#### 6 PRICING

All prices must be quoted in South African Rand on a fixed price basis, including VAT.

#### 7 BINDING OFFER

Any Quotation furnished pursuant to this Request shall be deemed to be an offer. Any exceptions to this statement must be clearly and specifically indicated.

## 8 DISCLAIMERS

PRASA is not committed to any course of action as a result of its issuance of this RFQ and/or its receipt of a Quotation in response to it. Please note that PRASA reserves the right to:

- Modify the RFQ's goods / service(s) and request Respondents to re-bid on any changes;
- Reject any Quotation which does not conform to instructions and specifications which are detailed herein;
- Disqualify Quotations submitted after the stated submission deadline;
- Not necessarily accept the lowest priced Quotation or an alternative bid;
- Bids lodged at the incorrect venue that reach the correct venue late will be regarded as late.
- Reject all Quotations, if it so decides;
- Place an order in connection with this Quotation at any time after the RFQ's closing date;
- Make no award at all.
- Award only a portion of the proposed goods / service/s which are reflected in the scope of this RFQ;
- split the award of the order/s between more than one Supplier/Service Provider should it at PRASA's discretion be more advantageous in terms of, amongst others, cost or developmental consideration; or

Should a contract be awarded on the strength of information furnished by the Respondent, which after conclusion of the contract, is proved to have been incorrect, PRASA reserves the right to cancel the contract. PRASA reserves the right to award business to the highest scoring bidder/s unless objective criteria justify the award to another Respondent.

Should the preferred bidder fail to sign or commence with the contract within a reasonable period after being requested to do so, PRASA reserves the right to award the business to the next highest ranked Respondent provided that he/she is still prepared to provide the required goods at the quoted price.

## 9 LEGAL REVIEW

Proposed contractual terms and conditions submitted by a Respondent will be subjected to review and acceptance or rejection by PRASA's Legal Counsel, prior to consideration for an award of business.

## 10 NATIONAL TREASURY'S CENTRAL SUPPLIER DATABASE

Respondents are required to self-register on National Treasury's Central Supplier Database (CSD) which has been established to centrally administer supplier information for all organs of state and facilitate the verification of certain key supplier information. PRASA is required to ensure that price quotations are invited and accepted from prospective bidders listed on the CSD. Business may not be awarded to a respondent who has failed to register on the CSD. Only

foreign suppliers with no local registered entity need not register on the CSD. The CSD can be accessed at <https://secure.csd.gov.za/>.

## 11 PROTECTION OF PERSONAL DATA

In responding to this bid, PRASA acknowledges that it may obtain and have access to personal data of the Respondents. PRASA agrees that it shall only process the information disclosed by Respondents in their response to this bid for the purpose of evaluating and subsequent award of business and in accordance with any applicable law. Furthermore, PRASA will not otherwise modify, amend or alter any personal data submitted by Respondents or disclose or permit the disclosure of any personal data to any Third Party without the prior written consent from the Respondents. Similarly, PRASA requires Respondents to process any personal information disclosed by PRASA in the bidding process in the same manner.

## EVALUATION METHODOLOGY

PRASA will utilise the following criteria [not necessarily in this order] in choosing a Supplier/Service Provider, if so required:

EVALUATION CRITERIA	WEIGHTING
Stage 1 – Compliance	
Stage 1	Basic Compliance
Stage 2	
Price	80
Specific Goals	20
<b>TOTAL</b>	<b>100</b>

### Stage 1 – Basic Compliance.

**If you do not submit the following mandatory documents your Proposal/Quote will be disqualified automatically:**

No.	Description of requirement	
a)	Price Schedule / Pricing form	

**The following documents are non-mandatory and where not submitted, PRASA may request the documents and must be made available at the time of request:**

No.	Description of requirement	
a)	Company Registration Documents	
b)	Copies of Directors' ID documents;	
c)	Valid Tax Clearance Certificate (must be valid on closing date of	

	submission of the proposal) and SARS Issued Pin	
d)	CSD report / CSD reference number	

## 12 ADMINISTRATIVE RESPONSIVENESS

The test for administrative responsiveness will include completeness of response and whether all returnable and/or required documents, certificates; verify completeness of warranties and other bid requirements and formalities have been complied with. Incomplete Bids will be disqualified.

## 13 VALIDITY PERIOD

- 13.1 PRASA requires a validity period of **60 Business Days** from the closing date.
- 13.2 Respondents are to note that they may be requested to extend the validity period of their response, on the same terms and conditions, if the internal processes are not finalized within the validity period. However, once the adjudication body has approved the process and award of the business to the successful respondent(s), the validity of the successful respondent(s)' response will be deemed to remain valid until a final contract has been concluded.

## 14 DISCLOSURE OF PRICES QUOTED

Respondents are to note that, on award of business, PRASA is required to publish the prices and preferences claimed of the successful and unsuccessful Respondents *inter alia* on the National Treasury e-Tender Publication Portal, ([www.etenders.gov.za](http://www.etenders.gov.za)), on CIDB website for construction related RFQ's.

## 15 RETURNABLE DOCUMENTS

**Returnable Documents** means all the documents, Sections and Annexures, as listed in the tables below. There are three types of returnable documents as indicated below and Respondents are urged to ensure that these documents are returned with the quotation based on the consequences of non-submission as indicated below:

## 16 Mandatory Returnable Documents

Failure to provide all these Mandatory Returnable Documents at the Closing Date and time of this RFQ will result in a Respondent's disqualification. Respondents are therefore urged to ensure that all these Documents are returned with their Quotations.

## SECTION 3

- 1 **EVALUATION CRITERIA: NB: Compliance Checklist Requirements for all Services/Goods and works**
- 2 Interested bidders for this project shall be evaluated in terms for their administrative responsiveness, substantive responsiveness, technical/functional (capacity testing) evaluation and preference points. The evaluation committee shall use the following Evaluation Criteria depicted in table below for the selection of the preferred bidder that shall render / deliver the required works, goods and / or services.

## POINTS AWARDED FOR SPECIFIC GOALS

In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:

**Table 1: Specific goals for the RFQ and points claimed are indicated per the table below.**

**Note to tenderers: The tenderer must indicate how they claim points for each preference point system.**

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system)	Number of points claimed (80/20 system) (To be completed by the tenderer)	Evidence
B-BBEE Level 2 or Above	5		BBBEE Certificate issued by an approved agency certified by SANAS
Black Women owned	4		Certified copies of ID Documents of the Owners
Owned by black persons with disabilities	5		Certified copies of ID Documents of the Owners and Doctor's note confirming the disability
Black Youth owned	3		Certified copy of ID Documents of the Owners
Owned by people in the rural areas	3		Municipal/ESKOM bill or letter from Induna/chief confirming residential address not older than 3 months
<b>TOTAL</b>	<b>20</b>		

## SECTION 4

### PRICING AND DELIVERY SCHEDULE

Respondents are required to complete the attached Pricing Schedule

- 1 Prices must be quoted in South African Rand, inclusive of VAT.
- 2 Price offer is firm and clearly indicate the basis thereof.
- 3 Pricing Bill of Quantity is completed in line with schedule if applicable.
- 4 Cost breakdown must be indicated.
- 5 Price escalation basis and formula must be indicated.
- 6 To facilitate like-for like comparison bidders must submit pricing strictly in accordance with this price schedule and not utilise a different format. Deviation from this pricing schedule could result in a bid being declared non-responsive.

- 7 Please note that should you have offered a discounted price(s), PRASA will only consider such price discount(s) in the final evaluation stage on an unconditional basis.
- 8 Respondents are to note that if price offered by the highest scoring bidder is not market related, PRASA may not award the contract to the Respondent. PRASA may:
  - 9 negotiate a market-related price with the Respondent scoring the highest points or cancel the RFQ;
  - 10 if that Respondent does not agree to a market-related price, negotiate a market-related price with the Respondent scoring the second highest points or cancel the RFQ;
  - 11 If a market-related price is not agreed with the Respondent scoring the third highest points, PRASA must cancel the RFQ.
  - 12 if the Respondent scoring the second highest points does not agree to a market-related price, negotiate a market-related price with the Respondent scoring the third highest points or cancel the RFQ.

I / We \_\_\_\_\_ (Insert Name of Bidding Entity) of \_\_\_\_\_

code \_\_\_\_\_

(Full address) conducting business under the style or title of: \_\_\_\_\_  
represented by: \_\_\_\_\_ in my capacity as: \_\_\_\_\_

being duly authorised, hereby offer to  
undertake and complete the above-mentioned work/services at the prices quoted in the bills of quantities / schedule of  
quantities or, where these do not form part of the contract, at a lumpsum, of

R \_\_\_\_\_ (amount in numbers);

\_\_\_\_\_ (amount in words) Incl. VAT.

**Validity Period: PRASA requires the Validity period of 60 Days from the day of submission.**

Delivery will be effected within ..... working days from date of order. (To be completed by Service provider)

## SECTION 5

### PRASA GENERAL CONDITIONS OF PURCHASE

#### **General**

PRASA and the Supplier enter into an order/contract on these conditions to supply the items (goods/services/works) as described in the order/contract.

#### **Conditions**

These conditions form the basis of the contract between PRASA and the Supplier. Notwithstanding anything to the contrary in any document issued or sent by the Supplier, these conditions apply except as expressly agreed in writing by PRASA. No servant or agent of PRASA has authority to vary these conditions orally. These general conditions of purchase are subject to such further special conditions as may be prescribed in writing by PRASA in the order/contract.

#### **Price and payment**

The price or rates for the items stated in the order/contract may include an amount for price adjustment, which is calculated in accordance with the formula stated in the order/contract.

The Supplier may be paid in one currency other than South African Rand. Only one exchange rate is used to convert from this currency to South African Rand. Payment to the Supplier in this currency other than South African Rand, does not exceed the amounts stated in the order/contract. PRASA pays for the item within 30 days of receipt of the Suppliers correct tax invoice.

#### **Delivery and documents**

The Supplier's obligation is to deliver the items on or before the date stated in the order/contract. Late deliveries or late completion of the items may be subject to a penalty if this is imposed in the order/contract. No payment is made if the Supplier does not provide the item as stated in order/contract.

Where items are to be delivered the Supplier:

Clearly marks the outside of each consignment or package with the Supplier's name and full details of the destination in accordance with the order and includes a packing note stating the contents thereof; On dispatch of each consignment, sends to PRASA at the address for delivery of the items, an advice note specifying the means of transport, weight, number of volume as appropriate and the point and date of dispatch; Sends to PRASA a detailed priced invoice as soon as is

reasonably practical after dispatch of the items, and states on all communications in respect of the order the order number and code number (if any).

### **Containers / packing material**

Unless otherwise stated in the order/contract, no payment is made for containers or packing materials or return to the Supplier.

### **Title and risk**

Without prejudice to rights of rejection under these conditions, title to and risk in the items passes to PRASA when accepted by PRASA.

### **Rejection**

If the Supplier fails to comply with his obligations under the order/contract, PRASA may reject any part of the items by giving written notice to the Supplier specifying the reason for rejection and whether and within what period replacement of items or re-work are required.

In the case of items delivered, PRASA may return the rejected items to the Supplier at the Supplier's risk and expense. Any money paid to the Supplier in respect of the items not replaced within the time required, together with the costs of returning rejected items to the Supplier and obtaining replacement items from a third party, are paid by the Supplier to PRASA.

In the case of service, the Supplier corrects non-conformances as indicated by PRASA.

### **Warranty**

Without prejudice to any other rights of PRASA under these conditions, the Supplier warrants that the items are in accordance with PRASA's requirements, and fit for the purpose for which they are intended, and will remain free from defects for a period of one year (unless another period is stated in the Order) from acceptance of the items by PRASA.

### **Indemnity**

The Supplier indemnifies PRASA against all actions, suits, claims, demands, costs, charges and expenses arising in connection therewith arising from the negligence, infringement of intellectual or legal rights or breach of statutory duty of the Supplier, his subcontractors, agents or servants, or from the Supplier's defective design, materials or workmanship.

The Supplier indemnifies PRASA against claims, proceedings, compensation and costs payable arising out of infringement by the Supplier of the rights of others, except an infringement which arose out of the use by the Supplier of things provided by PRASA.

### **Assignment and sub-contracting**

The Supplier may not assign or subcontract any part of this order/contract without the written consent of PRASA.

## **Termination**

PRASA may terminate the order/contract at any time (without prejudice to any right of action or remedy which has accrued or thereafter accrues to PRASA):

If the Supplier defaults in due performance of the order/contract, or if the Supplier becomes bankrupt or otherwise is, in the opinion of PRASA, in such financial circumstances as to prejudice the proper performance of the order/contract, or for any other reason in which case the Supplier will be compensated for all costs incurred.

## **Governing law**

The order/contract is governed by the law of the Republic of South Africa and the parties hereby submit to the non-exclusive jurisdiction of the South African courts.

## SECTION 6

### SBD4

## DECLARATION OF INTEREST BIDDER'S DISCLOSURE

### 1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

### 2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest<sup>1</sup> in the enterprise, employed by the state? **YES/NO**

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

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<sup>1</sup> the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

.....  
.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

2.3.1 If so, furnish particulars:

.....  
.....

### 3 DECLARATION

I, the undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium<sup>2</sup> will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National

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<sup>2</sup> Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....  
Signature

.....  
Date

.....  
Position

.....  
Name of bidder

## PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

**NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022**

### 1. GENERAL CONDITIONS

- 1.1 The following preference point systems are applicable to invitations to tender:
  - the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
  - the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).
- 1.2 The applicable preference point system for this RFQ is the 80/20 preference point system.
- 1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:
  - (a) Price; and
  - (b) Specific Goals.
- 1.4 The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
<b>Total points for Price and Specific Goals</b>	<b>100</b>

- 1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.
- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

## 2. DEFINITIONS

- (a) “**tender**” means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) “**price**” means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) “**rand value**” means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) “**tender for income-generating contracts**” means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) “**the Act**” means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

## 3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

### 3.1. POINTS AWARDED FOR PRICE

#### 3.1.1 THE 80/20 PREFERENCE POINT SYSTEMS

A maximum of 80 points is allocated for price on the following basis:

**80/20**

$$Ps = 80 \left( 1 - \frac{Pt - P_{min}}{P_{min}} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

## 4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:

**Table 1: Specific goals for the tender and points claimed are indicated per the table below.**

***Note to tenderers: The tenderer must indicate how they claim points for each preference point system.***

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system)	Number of points claimed (80/20 system) (To be completed by the tenderer)	Evidence
B-BBEE Level 2 or Above	5		BBBEE Certificate issued by an approved agency certified by SANAS
Black Women owned	4		Certified copies of ID Documents of the Owners
Owned by black persons with disabilities	5		Certified copies of ID Documents of the Owners and Doctor's note confirming the disability
Black Youth owned	3		Certified copy of ID Documents of the Owners
Owned by people in the rural areas	3		Municipal/ESKOM bill or letter from Induna/chief confirming residential address not older than 3 months
<b>TOTAL</b>	<b>20</b>		

## DECLARATION WITH REGARD TO COMPANY/FIRM

4.2. Name of company/firm.....

4.3. Company registration number: .....

4.4. TYPE OF COMPANY/ FIRM

Partnership/Joint Venture / Consortium  
 One-person business/sole proprietor  
 Close corporation  
 Public Company  
 Personal Liability Company  
 (Pty) Limited  
 Non-Profit Company  
 State Owned Company  
[**TICK APPLICABLE BOX**]

4.5. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- The information furnished is true and correct;
- The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;

iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –

- (a) disqualify the person from the tendering process;
- (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
- (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
- (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
- (e) forward the matter for criminal prosecution, if deemed necessary.

.....  
**SIGNATURE(S) OF TENDERER(S)**

**SURNAME AND NAME:** .....

**DATE:** .....

**ADDRESS:** .....

## SECTION 10 (PRICING SCHEDULE)

### PRICING AND DELIVERY SCHEDULE

Item	Description	Qty	Unit of Measure	Unit Price (incl. Vat)	Total Price (incl. Vat)
1	2.5mm HSS Jobber drills	30	Unit	R	R
2	3mm HSS Jobber drills	30	Unit	R	R
3	3.6mm HSS Jobber drills	30	Unit	R	R
4	4mm HSS Jobber drills	30	Unit	R	R
5	4.2mm HSS Jobber drills	30	Unit	R	R
6	5mm HSS Jobber drills	30	Unit	R	R
7	6mm HSS Jobber drills	50	Unit	R	R
8	6.3mm HSS Jobber drills	10	Unit	R	R
9	8mm HSS Jobber drills	10	Unit	R	R
10	12mm HSS Jobber drills	10	Unit	R	R
11	12.3mm HSS Jobber drills	10	Unit	R	R
12	Axe	2	Unit	R	R
13	6mm Shorthand Taps	10	Unit	R	R
14	8mm Shorthand Taps	5	Unit	R	R
15	14mm Shorthand Taps	5	Unit	R	R
16	16mm Shorthand Taps	5	Unit	R	R
17	1-10mm Standard bar Adjustable Tap Wrench	4	Unit	R	R
18	4-12mm Standard bar Adjustable Tap Wrench	4	Unit	R	R
19	5-20mm Standard bar Adjustable Tap Wrench	4	Unit	R	R
20	1-3.5mm Plain Chuck type	4	Unit	R	R
21	3-10mm Plain Chuck type	4	Unit	R	R
22	5-12mm Plain Chuck type	4	Unit	R	R
23	M6 Die Nuts	4	Unit	R	R
24	M8 Die Nuts	4	Unit	R	R

25	M10 Die Nuts	4	Unit	R	R
26	Carpet Knife Blades normal duty	100	Unit	R	R
27	Hacksaw blades fine	20	Unit	R	R
28	Hacksaw blades coarse	50	Unit	R	R
29	A1 ARBOR	2	Unit	R	R
30	A2 ARBOR	2	Unit	R	R
31	A4 ARBOR	2	Unit	R	R
32	200 X 140mm 3 Leg Bearing Puller, double ended	1	Unit	R	R
33	300 x 250mm 3 Leg Bearing Puller, Adjustable	1	Unit	R	R
34	350 x 380mm 3 Leg Bearing Puller, Adjustable	1	Unit	R	R
35	200 x 140mm 2 Leg Bearing Puller, double ended	1	Unit	R	R
36	300 x 250mm 2 Leg Bearing Puller, Adjustable	1	Unit	R	R
37	350 x 380mm 2 Leg Bearing Puller, Adjustable	1	Unit	R	R
38	80mm Ring Squeezer	2	Unit	R	R
39	150 mm Ring Squeezer	2	Unit	R	R
40	Laser Distance Meter	2	Unit	R	R
41	5mm Masonry Drill bits	10	Unit	R	R
42	6mm Masonry Drill bits	10	Unit	R	R
43	8mm Masonry Drill bits	10	Unit	R	R
44	10mm Masonry Drill bits	5	Unit	R	R
45	12mm Masonry Drill bits	5	Unit	R	R
46	Letter Punches	2	Unit	R	R
47	Tube Spanner	10	Unit	R	R
48	Gun nose tap	10	Unit	R	R
49	½" 13mm Short Sockets	4	Unit	R	R
50	½" 17mm Short Sockets	4	Unit	R	R
51	½" 19mm Short Sockets	4	Unit	R	R

52	115x 6.3x 22.23mm Grinding Disc	10	Unit	R	R
53	230x 6.8x 25.4mm Grinding Disc	10	Unit	R	R
54	115x 6.3x 22.23mm Cutting Disc	10	Unit	R	R
55	230x 6.8x 25.4mm Cutting Disc	10	Unit	R	R
56	Claw hook Ratchet Strap	6	Unit	R	R
57	Yaber Pro V7 or “equivalent” Wireless and Bluetooth HD Projector	1	Unit	R	R
58	OHS Regulation Handbook	20	Unit	R	R
59	Water quality tester	4	Unit	R	R
60	Decibel Meter (Sound level reader)	3	Unit	R	R
61	Breathalyzer (Alcohol tester)	4	Unit	R	R
62	Handheld Digital Lux Light Tester	3	Unit	R	R
63	Reflective cones	20	Unit	R	R
64	Convex mirror	3	Unit	R	R
65	Practi - Man advanced dual mode CPR Training manikin	4	Unit	R	R
66	15 W Hand Grip Megaphone	15	Unit	R	R
67	Barrier tape (Roll)	15	Unit	R	R
68	Emergency Eye Wash station	12	Unit	R	R
69	Lockout/Tagout (Set of 10)	50	Unit	R	R
70	Workshop first aid box	15	Unit	R	R
71	Workshop double fold starcher	4	Unit	R	R
72	Head Block	5	Unit	R	R
73	Cervical collar	5	Unit	R	R
74	Sound Level Meter	3	Unit	R	R
75	Voltage Absence Meter	3	Unit	R	R
76	Laser Distance Meter	2	Unit	R	R
77	Meter	2	Unit	R	R
78	DPI 705 Digital pressure gauge	2	Unit	R	R
79	Adjustable Torque Wrench set	2	Unit	R	R
80	Cordless Drill	12	Unit	R	R

81	Auto Darkening Welding Helmet	4	Unit	R	R
82	Multi cutter Blade Set	4	Unit	R	R
83	Grease Gun	9	Unit	R	R
84	Multi/Oscillating Tool	4	Unit	R	R
85	Industrial Arc/TIG Welding Machine	1	Unit	R	R
86	Manual Heavy Duty Silicon Gun	4	Unit	R	R
87	Battery Operated Silicon Gun	4	Unit	R	R
88	Portable Backpack Type Vacuum Cleaner	6	Unit	R	R
89	Digital Vernier Caliper	6	Unit	R	R
90	Corded Vacuum Cleaner	6	Unit	R	R
91	Rechargeable Headlamp Torch	50	Unit	R	R
92	Hard Hat PPE	60	Unit	R	R
93	Drill Bit Set	3	Unit	R	R
94	Pin Punch Set	3	Unit	R	R
95	Grease Gun Set	2	Unit	R	R
96	Plasma Cutter	1	Unit	R	R
97	Gearbox Oil Pump	2	Unit	R	R
98	12v combination jump starter with inflator	1	Unit	R	R
99	Interface Processing Tool	1	Unit	R	R
100	Stereolithography Apparatus (SLA) Printer (Complete)	1	Unit	R	R
101	Fused Deposition Modeling ( FDM) Printer with accessories + printer cores	1	Unit	R	R
102	Type : Resin Grey Pro or equivalent	10	Unit	R	R
103	Type: Resin PU Rigid 650 or equivalent	10	Unit	R	R

104	Type: Resin PU Rigid 1000 or equivalent	10	Unit	R	R
105	Type: Resin Elastic 50A or equivalent	10	Unit	R	R
106	Type: Resin Flexible 80A or equivalent	10	Unit	R	R
107	Type: Resin Tough 2000 or equivalent	10	Unit	R	R
108	Filament 2.85mm Material- Tough PLA	10	Unit	R	R
109	Filament 2.85mm Material - Nylon	10	Unit	R	R
110	Filament 2.85mm Material- NylonPolyamide ( <b>AKA NYLONX – Reinforced Nylon filament</b> )	10	Unit	R	R
111	Filament 2.85mm Material PETG	10	Unit	R	R
112	Filament 2.85mm Material PVA(Breakaway)	15	Unit	R	R
113	Filament 2.85mm Material TPU95A	10	Unit	R	R
114	3D manufacturing course and fundamentals	4 persons	Unit	R	R
115	Toolbox 550x230x220 5 Tray	10	Unit	R	R
116	Digital Multi Meter 600v	10	Unit	R	R
117	Engineering Pliers 200mm Insulated	10	Unit	R	R
118	Diagonal Cutters 200mm Insulated	10	Unit	R	R
119	Long nose pliers 200mm Insulated	10	Unit	R	R
120	Round Nose pliers 160mm	10	Unit	R	R
121	Knife Utility Rubber Grip Push Button	10	Unit	R	R
122	Water Pump Pliers 250mm	10	Unit	R	R
123	Vice Grip 250mm	10	Unit	R	R
124	Screwdrivers set 6 Pieces	10	Unit	R	R

125	Automatic Wire Strippers <b>As per picture NOT ANY OTHER TYPES</b> For Electronic work	10	Unit	R	R
126	Premium Hacksaw Frame 300mm	10	Unit	R	R
127	Steel Rule 300mm	10	Unit	R	R
128	Shifting Spanner 300mm	10	Unit	R	R
129	Combi Spanner set 6 – 24 19 Piece	10	Unit	R	R
130	1/2" Drive Socket Set 8 – 22mm 13 Pieces	10	Unit	R	R
131	Steel Measuring Tape 3x12.5mm	10	Unit	R	R
132	Padlock Brass 38mm	10	Unit	R	R
133	Ball Pin Hammer 450g	10	Unit	R	R
134	Vernier 150mm 0.02mm-150mm	10	Unit	R	R
135	Engineers Steel Square	10	Unit	R	R
136	Std Hex Key Set 1.5-10mm Box	10	Unit	R	R
137	Std Hex Key Set 1/16-3/8 Box	10	Unit	R	R
138	Files Set	10	Unit	R	R
139	Earplugs	10	Unit	R	R
140	Poly Carbon Safety Glasses	10	Unit	R	R
141	Set of 5 Pin Punches	10	Unit	R	R
142	Crimper Non-Insulated Lugs	10	Unit	R	R
143	Scriber	10	Unit	R	R
144	Divider Spring Joint	10	Unit	R	R
145	Tube Spanner Set	10	Unit	R	R
146	100-125mm external micrometer	5	Unit	R	R
147	0-25mm external micrometer	5	Unit	R	R
148	Taper gauge from 1-6mm and from 6mm-14mm	10	Unit	R	R
149	Spirit level 250 mm	10	Unit	R	R
150	Small ball pin hammer size: 226mg	10	Unit	R	R
151	Rubber mallet large	10	Unit	R	R
152	Strap wrench strap width 120mm length of handle: 350mm	10	Unit	R	R
153	Depth gauge 0-150mm	10	Unit	R	R
154	Long nose pliers 100mm for electronic work	10	Unit	R	R

155	Round nose pliers 100mm for electronic work	10	Unit	R	R
156	Pliers 100mm for electronic work	10	Unit	R	R
157	Diagonal cutter 100mm for electronic work	10	Unit	R	R
158	Combination sets	10	Unit	R	R
159	Combination spanner 30, 32mm and 36 mm	10	Unit	R	R
160	Face shield	10	Unit	R	R
161	Shifting spanner 100mm	10	Unit	R	R
162	Nut drivers 5, 6, 7, 8, 9, 10 & 13mm	10	Unit	R	R
163	Automatic center punch	10	Unit	R	R
164	Junior hacksaw	10	Unit	R	R
165	Circlip pliers bended <b>internal</b>	10	Unit	R	R
166	Circlip pliers bended <b>external</b>	10	Unit	R	R
167	Circlip pliers <b>internal</b>	10	Unit	R	R
168	Circlip pliers <b>external</b>	10	Unit	R	R
169	Mini toolbox for small electronic tools	10	Unit	R	R
170	Extension cord 4X 40 Meter	4	Unit	R	R
171	Grinder small	4	Unit	R	R
172	Grinder medium	4	Unit	R	R
173	Blower	5	Unit	R	R
174	Heat gun	5	Unit	R	R
175	High voltage insulation tester	5	Unit	R	R
176	Clamp-on type	10	Unit	R	R
177	Portable Extractor Fan	4	Unit	R	R
178	Wash Bay	4	Unit	R	R
179	Labelling Machine with Labelling Machine Tape	4	Unit	R	R
180	Engraving tool	2	Unit	R	R
				TOTAL (VAT excl)	R
				VAT	R
				TOTAL (VAT incl)	R

## MAINTENANCE TOOLS SPECIFICATION

Tool Name	Specification
<b>HSS Jobber drills</b> 	HSS Jobber Drill, Steam Tempered Finish A great and versatile all-around drill with a 118° conventional point, which provides strength and is easy to regrind, making it very cost-effective. Usable for hand-held and machine drilling. Steam tempered finish retains cutting fluid and prevents chip tool welding. Suitable for many materials. Series A100
<b>Short Hand Taps</b> 	Set type - Threading Tap Thread size – 1/4 UNC Type – Straight Flute Thread standard – UNC Material - HSS
<b>Standard bar Adjustable Tap Wrench</b> 	Holds Taps for hand tapping use Bright Chrome Handles with knurled ends to give better grip Die cast alloy body with hardened and tempered vee jaws A/F Min: 1 A/F Max: 10 as per quantity.
<b>Plain Chuck type</b> 	Keyless Chuck UNF Thread mounted steel body is a high-quality drill chuck designed for industrial applications. Allows for quick and easy changes of drill bits without the need for a traditional chuck key. With a range as per the quantity. A thread mounted steel body ensures durability and stability during heavy-duty use.
<b>Die Nuts</b> 	Diameter across flats of 0.92 in (23.4 mm) Made of high-speed steel (HSS) Single piece Pitch of 1.5 mm Thickness of 0.375 in (9.5 mm) Thread size of M10 Standard specification applies for M6 and M8
<b>Carpet Knife Blades normal duty</b>	Material Steel blade (Japanese Steel) Finish Natural colour Hardness Heat treated to HRC 58°C to 64 °C. Heavy duty utility knife blades Thickness of blades – 0.6 mm
<b>Hacksaw blades fine</b>	Saw blade type – Hacksaw Blade Blade Length – 300mm Width – 13mm Materials Cut – Multiple Material

	Number of Teeth per Inch – 32 Material - HSS
<b>Hacksaw blades coarse</b> 	Saw blade type – Hacksaw Blade Blade Length – 300mm Width – 13mm Materials Cut – Multiple Material Number of Teeth per Inch – 18 Material - HSS
<b>ARBOR</b> 	Type - Arbor Drill Bit Type - Arbor Arbor Included - Yes Material - Bi-metal Bimetal - Yes Number of Pieces - 1 Applications: Installation of door hardware, creating holes for pipework, plumbing or electrical cabling and wiring, Installation of drainage pipes, Installation of light fixtures, Creating holes or vents in masonry
<b>3 Leg Bearing Puller, double ended</b> 	Spread 200mm, Reach 140mm, Screw 16mm x 235mm Puller Type – Bearing Operation - Lever Press
<b>3 Leg Bearing Puller, Adjustable</b> 	Spread 300mm, Reach 250mm, Screw 24mm x 300mm Puller Type – Bearing Operation - Lever Press
<b>2 Leg Bearing Puller, double ended</b> 	Spread 200mm, Reach 140mm, Screw 16mm x 235mm Puller Type – Bearing Operation - Lever Press
<b>2 Leg Bearing Puller, Adjustable</b> 	Spread 300mm, Reach 250mm, Screw 24mm x 300mm Puller Type – Bearing Operation - Lever Press

<b>Ring Squeezer</b> 	<p>Made from high grade spring steel.</p> <p>Self-locking ratchet pawl prevents premature release.</p> <p>Friction proof edge allows smooth &amp; accurate piston fitting operation.</p> <p>Tension band eliminates bottom flare.</p> <p>Ratchet key included.</p>
<b>Laser Distance Meter</b> <b>Bosch or “equivalent”</b> 	<p>Laser diode – 635nm, &lt;1 mW</p> <p>Measurement range 0.15 - 40m</p> <p>Weight, approx. 0.09kg</p> <p>Measurement time, typical &lt;0.5s</p> <p>Laser class 2</p> <p>Measurement accuracy, typical +- 1.5mm (plus use-dependent deviation)</p> <p>Measurement time max. 4s</p> <p>Power supply 2x 1.5 V LR03 (AAA)</p> <p>Automatic deactivation 5min</p> <p>Unit of measure m/cm</p> <p>Memory Capacity (values) 10</p> <p>Laser colour Red</p> <p>Measuring range up to 40m</p> <p>Must have a built-in dust and splash water protection.</p>
<b>Masonry Drill bits</b> 	<p>Straight shank</p> <p>Overall length of 400 mm Diameter of 6 mm</p> <p>Hammer capable</p> <p>Comes in zinc plated finish</p>
<b>Letter Punches</b> 	<p>Material: CR-V steel Finished: Sandblast finished w/lacquer finished</p> <p>Hardness: HRC 58-60 Content: 9pcs- Number Dot Steel Stamp Number: 0~8(Face) Round Type 27pcs- English Letter Dot Steel Stamp Letter: Capital A~Z( Face) Symbol: &amp; Round Type Size in 5.0mm Dot Font type Module Each set in eggcrate plastic case Feature: Can be punch on materials with a hardness up to 45 Rockwell C Character and size marked on each stamp Made from shock-resistant tool steel Hardened and tempered to give long life</p>
<b>Tube Spanner</b>	<p>10mm Tube spanner</p> <p>Tip type Hex</p> <p>Tip size 10mm</p> <p>Overall length 129mm</p>

	Material Chrome Vanadium Steel
<b>Gun nose tap</b> 	Class of Fit 6H Dimensions Standard ISO 529 EAN 5036140180017 ECLASS Code 21010210 Finish/Coating Steam Tempered Material High Speed Steel Material Application Cast-Iron Stainless-Steel Material Grade M2 Number of Flutes 3 Overall Length 72mm Shank Diameter 8mm Square Width 6.3mm Tap Type Spiral Point Thread Direction Right Hand Thread Length 19mm Thread Size M8 Thread Standard Metric Coarse Threading Tap Type Machine Tap UNSPSC Code 27112806
<b>Short Sockets, King Tonny or equivalent</b>  	<b>1/2" Metric Long Impact Socket 13mm</b> Material – chrome molybdenum alloy steel Finishing – phosphate sunk deep version 6 points Metric size  D1 (mm): 21.2 D2 (mm): 25 I (mm): 14 L (mm): 80 Weight (g): 157

<b>Grinding Disc</b> 	Grinding material = aluminium oxide Diameter = 115mm Width = 6mm Bore size = 22.23mm Max. speed = 80m/s Model = A30 T Grinding discs for angle grinders. For use with hand-held ...
<b>Cutting Disc</b> 	Reliable Performance in Inox The Standard for Inox Cutting Disc offers a reliable choice when working with Inox An aluminum oxide disc specifically designed for use on Inox
<b>Clawhook Ratchet Strap</b> 	RS Pro 9000mm Clawhook Ratchet Strap, 50mm wide, 5000kg Breaking Strain Material PET, Steel Ideal for lashing and Load control Suitable for Lorry loading applications Strain only
<b>Yaber Pro V7 or “equivalent” Wireless and Bluetooth HD Projector</b> 	Lumens: 4500 Contrast Ration: 12,000 : 1 LED Life Span: over 30,000 Hrs Projection: 1.5 - 5.5 metres Projection Size: 50"" - 350"" Keystone Correction: 6D Auto Correction + Manual Correction Focus Mode: Manual Correction Bluetooth 5.0 : Supported

	<p>Aspect Ration: 4:3 / 16:9 / Auto</p> <p>Video Format: AVI / MP4 / MKV / FLV / MOV / RMVB / 3GP / MPEG1 + MPEG2 / H.264 / XVID / JPEG</p> <p>Speaker: 5W x 1pc Speaker</p>
<b>Regulation Hand book</b>	A5 Occupational Health and Safety Act of 1993 and Regulations handbook, Latest edition.
<b>Water Quality tester</b>	<p>Must have an automatic calibration function that adjusts to water temperature and water quality to immediately measure accurate pH readings.</p> <p>Have a sensitive electrode sensor to read accurate pH values.</p> <p>Can accurately measure pH, TDS, EC, TEMP to ensure the health of the workplace water.</p> <p>Ideal for carrying around and can meet a variety of water quality testing.</p>
<b>Decibel Meter</b>	<p>4 Digit display with an analogue Bargraph.</p> <p>A &amp; C level weighting for checking in compliance with safety regulations IEC 61672-1 class 2</p> <p>Sound Level range 35dB to 130dB</p> <p>Hi &amp; Lo range settings</p> <p>Background noise absorber</p> <p>Min, Max and Data Hold</p> <p>0.5" Electret Condenser Microphone</p> <p>Auto Power Off</p> <p>Instruction Manual</p>
<b>Breathalyser (Alcohol tester)</b>	<p>Normal Mode Only: 0.00 to 0.40% B.A.C. or mg/l equivalent by LED display.</p> <p>Accuracy: +/-0.010% BAC at 0.050% BAC.</p> <p>Mouth pieces to be supplied with unit.</p> <p>Semiconductor type alcohol sensor.</p> <p>Power supply: Two 1.5V "AA" Alkaline batteries.</p> <p>Weight: 115g (Including batteries)</p> <p>Dimensions (mm): 124 (height) X 56 (width) X 41.</p> <p>Auto power off</p>

	<p>Battery Low indication</p> <p>Air flow rate checking</p> <p>Instruction Manual</p>
<b>Handheld Digital Lux Light Tester</b>	<p>Check light levels in a wide variety of situations.</p> <p>Accurate test with fast response and auto zero adjustment.</p> <p>4 measuring ranges for Lux and Foot Candle.</p> <p>Lux range from 200 Lux to 200,000 Lux.</p> <p>Foot Candle range from 20fc to 20,000fc.</p> <p>Measurement rate 2 times per second.</p> <p>Peak Hold and Data Hold functions.</p> <p>Symbol and unit display – easy to read.</p> <p>Overrange indication</p> <p>Auto Power Off</p> <p>Carrying Case</p> <p>9V Battery</p> <p>Instruction Manual</p>
<b>Reflective cones</b>	<p>Cone shaped markers that are placed on roads or footpaths.</p> <p>CONES C/W REFL 500mm</p> <p>Color: Orange</p>

<b>Barrier tape</b>	Red/white 500mm x 75mm rolls.
<b>Convex mirror</b>	Outdoor 750mm
<b>Practi -Man advanced dual mode CPR Training manikin</b>	<p>Uniquely designed dual-function Adult and Child CPR Training.</p> <p>Switch between modes with manual dial.</p> <p>Dial adjusts both the depth of compressions and volume of ventilations to that of either an Adult or a Child.</p> <p>Can be used with an AED Trainer.</p> <p>One-way valve system on airway promotes excellent hygiene.</p> <p>Replaceable face and chest skin.</p> <p>Skin be interchanged.</p> <p>Excellent quality.</p> <p>Supplied with spare lungs and airway valves, as well as CPR Face Shields and Bag.</p>
<b>15 W Hand Grip Megaphone</b>	<p>Easy to operate handheld megaphone.</p> <p>Mouthpiece, microphone and handle are antibacterial treated.</p> <p>Long life battery (14hr)</p> <p>ABS or ASA high durability resin construction.</p> <p>Lightweight and compact (1.1kg)</p> <p>Enhanced audio quality with a wide frequency range.</p> <p>Neodymium magnets.</p> <p>Polyimide speaker diaphragms.</p> <p>Audible extended range.</p>

<b>Eye Wash station</b>	<p>Material: 304 stainless steel</p> <p>Type: Wall mounted</p> <p>Push handle: Easy operation</p> <p>Flow rate: <math>\geq 11.4\text{L/min}</math></p> <p>Flushing time: <math>\geq 15\text{min}</math></p> <p>Living water applies</p> <p>It is convenient for emergency use</p> <p>Dimensions: 410 x 210 x 100mm</p> <p>NB: Pricing must include installation</p>
<b>Lockout/Tagout</b>	<p>Double sided 80 x 140mm (Set of 10)</p>
<b>Workshop first aid box</b>	<p>First Aid Kit, Regulation3 complete in Metal box with contents Just right for office/workshops.</p> <p>Lockable or sealable metal box</p> <p>Can be wall mounted</p>
<b>Workshop double fold stretcher</b>	<p>Double Fold Stretcher: (Folds Twice For Easier Storage)</p> <p>Made from Heavy Duty Aluminium Poles</p> <p>Non Slip Grips</p> <p>Durable and Stain Resistant PVC Nylon</p> <p>Includes Carry Bag</p> <p>Load Bearing: <math>\leq 159\text{kg}</math></p>
<b>Head Block</b>	<p>Manufactured from high density foam with plastic coating</p> <p>Waterproof and non-absorbable</p> <p>Large ear inspection holes</p> <p>Can be attached to a scoop stretcher or a spinal board</p> <p>Adjustable Head straps</p> <p>X-ray translucent and CT/ MRI scanning compatible</p> <p>South African Manufactured</p>
<b>Cervical collar</b>	<p>Adjustable Cervical Collar Neck Adult</p>

## Sound Level Meter

A tool which will be utilised to measure the sound level in decibels

Sound Level Meter	
<b>Accuracy Requirement</b>	Less than 1.5 dB
<b>Required Measurement Range</b>	30 to 130 dB
<b>Data Storage</b>	Minimum 4000 data entry points with date and time or 2Mb
<b>Battery</b>	Lithium Polymer 2500mAhr minimum and 3 years battery life / or 500 cycles
<b>Maximum dimensions</b>	29 x 8 x 3.5 cm
<b>Required parameters</b>	SPL, LMax, LMin, LPk (peak), LEQ/LAVG, LE, Elapsed Time
<b>Ports and Connections</b>	3.5 mm stereo USB 2.0
<b>Standard Conformance</b>	EC 61672-1 (2002) or equivalent
<b>Equivalent product</b>	Sound Examiner Sound level Meter SE-401

## Voltage Absence Tester

### General Description

A tool to ensure that voltage is not present before working on any electrical equipment or installation connected to an electrical system.

### Voltage Absence Tester Requirements

<b>Voltage Measurement Range</b>	Up to and including 690V AC/DC
<b>Continuity</b>	0- 400Kohm
<b>Frequency</b>	0/40 to 400 Hz
<b>Phase rotation</b>	100V to 690 V
<b>Resistance measurement</b>	Up to and including 1999 ohm

	<b>Safety Rating</b> IEC 61010-1 , CAT III 690V <b>IP Rating</b> IP64 <b>Response Time</b> Less than 0. 5 seconds <b>Max weight</b> 290g <b>Equivalent Product</b> Fluke T150
<b>Laser Distance Meter</b>	<b>Laser Distance meter Requirements</b>
<b>General description</b>	
A tool used to measure the distance between 2 points using a laser wireless measurement source.	<b>Minimum Measurement Range</b> 0.05- 80 m <b>Measurement Accuracy</b> Less or equal 1.5mm <b>Power Requirements</b> Rechargeable Li-On 1250Mah minimum <b>IP Rating</b> IP54 <b>Maximum Weight</b> 0.2 Kg <b>Equivalent Product</b> Bosch GLM 80
<b>Airflow Meter</b>	<b>Air Flow Meter Requirements</b>
<b>General description</b>	
A tool used for analyzing airflow. It will provide differential and static pressure, air velocity, flow readings and temperature	<b>Air Pressure requirements</b> Minimum Range From $\pm 40$ mbar Required Resolution 0.01 mbar Required Accuracy $0.01 \pm 1\% + 0.01$ mbar <b>Air Velocity Requirements</b> Required Range 1 to 80 m/s Minimum Required Resolution 0.001 m/s Required Accuracy $\pm 2.5\%$ of reading at 2000 fpm (10.00 m/s) <b>Air Flow Requirements</b> Required Range 0 to 99,999 l/s

		Minimum Required Resolution 1 l/s
	<b>Temperature Requirements</b>	Required Range 0 – 50 degrees Minimum Required Resolution $\pm 1\%$ + 2°C Required Accuracy 0.1°C
	<b>IP Rating</b>	IP40
	<b>Standard Conformance</b>	Meets requirements for EN61326-1
	<b>Data Storage</b>	99 Data points minimum
	<b>Equivalent product</b>	Fluke 922 Airflow Meter
<b>Digital Pressure Gauge</b>	<b>Digital Pressure Guage Requirements</b>	
<b>General description</b>  A tool used to provide a digital readout of pressure also referred to as a manometer	<b>Accuracy</b>	+ - 0.3 %
	<b>Minimum number of pressure ports</b>	2
	<b>Pressure Reading Range Requirement</b>	Negative 10Bar to + 10Bar
	<b>Pressure port type</b>	Differential
	<b>Display Type</b>	LCD
	<b>IP Rating</b>	IP40
	<b>Hose Connectors</b>	Outside Diameter 6mm Inside diameter 4mm
	<b>Equivalent product</b>	RS -8890G
<b>Adjustable Torque Wrench Set</b>	<b>Torque Wrench Set Requirements</b>	

<p>A <math>\frac{1}{2}</math> inch Socket set with interchangeable Spanner Inserts to accurately torque down bolts and parts</p>	<table border="1"> <tr> <td data-bbox="507 107 910 206"><b>Socket size</b></td><td data-bbox="910 107 1527 206"><b><math>\frac{1}{2}</math> inch</b></td></tr> <tr> <td data-bbox="507 206 910 344"><b>Minimum Adjustable Torque Setting Requirement</b></td><td data-bbox="910 206 1527 344">60 – 340 Nm</td></tr> <tr> <td data-bbox="507 344 910 502"><b>Additional Metric Spanner Inserts required (mm)</b></td><td data-bbox="910 344 1527 502">13, 14, 15, 17, 19, 22, 24, 27, 30 mm</td></tr> <tr> <td data-bbox="507 502 910 593"><b>Equivalent Product</b></td><td data-bbox="910 502 1527 593">King Tony SKU: 345203D11MR</td></tr> </table>	<b>Socket size</b>	<b><math>\frac{1}{2}</math> inch</b>	<b>Minimum Adjustable Torque Setting Requirement</b>	60 – 340 Nm	<b>Additional Metric Spanner Inserts required (mm)</b>	13, 14, 15, 17, 19, 22, 24, 27, 30 mm	<b>Equivalent Product</b>	King Tony SKU: 345203D11MR	
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<b>Equivalent Product</b>	King Tony SKU: 345203D11MR									
<p><b>Head lights</b></p> 	<p>600 Lumen rechargeable Headlamp produces a maximum brightness of 600lm using extreme bright LED CREE T6 Globe. The headlamp features an extra heavy-duty aluminium casing with an IP66 Shockproof and Rainproof rating. The rubber padded battery case houses two 2200mAH Li-ion rechargeable batteries which can be recharged via mains or vehicle.</p> <p>Focus beam flood to spot, Shockproof and rainproof IP66, Rechargeable via mains and vehicle, High capacity Li-ion batteries, Beam distance: 250m, Battery life per charge: 16hours, Extra heavy duty aluminium casing, Adjustable headlamp straps, Glowing back light, 3 Modes of operation, Charging time 5hours, Plug-in charging with indicator, Weight including batteries: 250g, 1 Year limited warranty</p>									
<p><b>Cordless Drill</b></p> <p>A Lithium Ion battery operated Cordless Drill.</p>	<table border="1"> <tr> <td data-bbox="507 1368 1527 1431" style="text-align: center;"><b>Cordless Drill Requirements</b></td> </tr> <tr> <td data-bbox="507 1431 1527 1526" style="text-align: center;"><b>Voltage</b></td><td data-bbox="910 1431 1527 1526">18 V</td></tr> <tr> <td data-bbox="507 1526 1527 1622" style="text-align: center;"><b>Minimum Battery Ah</b></td><td data-bbox="910 1526 1527 1622">4.0 Ah</td></tr> <tr> <td data-bbox="507 1622 1527 1780" style="text-align: center;"><b>Drilling Capacity</b></td><td data-bbox="910 1622 1527 1780">13mm Steel/Masonry 38mm Wood</td></tr> <tr> <td data-bbox="507 1780 1527 1856" style="text-align: center;"><b>Torque</b></td><td data-bbox="910 1780 1527 1856">Minimum 50N.m</td></tr> </table>	<b>Cordless Drill Requirements</b>	<b>Voltage</b>	18 V	<b>Minimum Battery Ah</b>	4.0 Ah	<b>Drilling Capacity</b>	13mm Steel/Masonry 38mm Wood	<b>Torque</b>	Minimum 50N.m
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	<b>Additional Requirements</b> Brushless DC motor All metal gears and gear housing Dual LED job lights	
	<b>To be included</b> 1 x battery Charger 2 x (minimum) 4.0 Ah Battery	
	<b>Equivalent Product</b> Makita DHP485Z	
<b>Auto Darkening Welding Helmet</b>	<b>Auto Darkening Welding Helmet Requirements</b>	
<b>General description</b>	<b>Viewing Area</b> (90-100mm) X (40 -50mm )	
A protective helmet used during Welding	<b>Number of Arc Sensors</b> Minimum 2	
	<b>Light State</b> DIN 4	
	<b>Dark State</b> Shade 9-13	
	<b>Power supply</b> Solar Cell	
	<b>Switching time</b> 1 / 25,000s light to dark	
	<b>Dark to light</b> 0.1 -1.0 s	
	<b>Equivalent product</b> Pinnacle Garage Auto Darkening Welding Helmet SKU 13-HEL-GRG	
<b>Multi Cutter Blade Set</b>	<b>Multi Cutter Blade Set Requirements</b>	
<b>General description</b>	<b>Number of blades included</b> Minimum 4	
A Blade set used on a oscillating /Multi tool such as Bosch GOP 185-LI or equivalent	<b>Steel type</b> High Strength Carbon Steel	
	<b>Equivalent product</b> BOS2608661696	

<b>Grease Gun</b>		<b>Grease Gun Requirements</b>	
<b>General description</b>  A tool used to apply grease into components via a pump style lever		<b>Type</b>	Pistol Type
		<b>Grease delivery</b>	0.84g per stroke
		<b>Material</b>	aluminum
		<b>Type of delivery</b>	One hand operation
		<b>Additional requirements</b>	300 – 400mm grease hose and nozzle
		<b>Grease capacity</b>	450gr Minimum
		<b>Equivalent product</b>	Groz Grease gun Variable G55-HP
<b>Multi/Oscillating Tool</b>		<b>Multi /Oscillating Tool Requirements</b>	
<b>General description</b>  A portable tool which can be used for various cutting /sawing operations		<b>Battery type</b>	Lithium-ion
		<b>Battery Voltage</b>	18 V
		<b>Tool Type</b>	Mobile/portable
		<b>Oscillation angle</b>	3.2 degrees
		<b>Minimum Oscillation per minute</b>	6000- 20000
		<b>Features</b>	Variable speed control Dust extraction attachment Thumb on/off switch
		<b>Equivalent Product</b>	Makita DTM507
<b>General description</b>  A heavy duty portable industrial welding machine to join metals by either ARC or TIG welding		<b>Arc/Tig Welding</b>	
		<b>Voltage</b>	230 AC, 50 Hz
		<b>Maximum output</b>	Minimum 200A
		<b>Rated KvA</b>	Minimum 6.9 KVA
		<b>Current Range</b>	10 – 200 A
		<b>Welding Types</b>	Arc and TIG
		<b>IP Rating</b>	Minimum IP23S
<b>Features</b>		Superior Arc characteristics Smooth and stable Arc	

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<b>Battery Operated Silicon Gun</b>	<table border="1"> <tr> <td align="center" colspan="2"><b>Battery operated Silicone Gun requirements</b></td> </tr> <tr> <td><b>Battery voltage</b></td><td>18 V</td></tr> <tr> <td><b>Pushing force</b></td><td>Minimum 3.5KN</td></tr> <tr> <td><b>Capacity Cartridges</b></td><td>310ml 400ml</td></tr> <tr> <td><b>Capacity sachets</b></td><td>400ml and 600ml</td></tr> <tr> <td><b>Feed Rate</b></td><td>Min 8mm /sec</td></tr> <tr> <td><b>Features</b></td><td>Variable Speed control of material output Plunger Rod Auto Reverse</td></tr> <tr> <td><b>To Include</b></td><td>2 x compatible 18 V batteries Compatible Charger for battery</td></tr> <tr> <td><b>Equivalent product</b></td><td>Bosch 18V-600</td></tr> </table>	<b>Battery operated Silicone Gun requirements</b>		<b>Battery voltage</b>	18 V	<b>Pushing force</b>	Minimum 3.5KN	<b>Capacity Cartridges</b>	310ml 400ml	<b>Capacity sachets</b>	400ml and 600ml	<b>Feed Rate</b>	Min 8mm /sec	<b>Features</b>	Variable Speed control of material output Plunger Rod Auto Reverse	<b>To Include</b>	2 x compatible 18 V batteries Compatible Charger for battery	<b>Equivalent product</b>	Bosch 18V-600
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<b>Portable Backpack type Vacuum Cleaner</b>	<table border="1"> <tr> <td align="center" colspan="2"><b>Portable Backpack type Vacuum Cleaner requirements</b></td> </tr> <tr> <td><b>Voltage</b></td><td>36V</td></tr> <tr> <td><b>Battery Ah</b></td><td>5Ah x 2</td></tr> </table>	<b>Portable Backpack type Vacuum Cleaner requirements</b>		<b>Voltage</b>	36V	<b>Battery Ah</b>	5Ah x 2												
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<p><b>General description</b></p> <p>A Lithium Ion battery operated Vacuum Cleaner which can be mounted on the back.</p>	<b>Mounting Type</b>	On the back and equipped with a belt clip that clips onto the waist
	<b>DC Motor Type</b>	Brushless
	<b>Filter Type</b>	Hepa
	<b>Air Flow</b>	At-least 2.2 m3 /min
	<b>Suction requirement</b>	Minimum 11KPa
	<b>Maximum weight</b>	6.8kgs
	<b>Features</b>	Adjustable Telescopic straight pipe Flexible rubber nozzle Push button for max/high or normal operations Alteast 6 L extra large dust bag
	<b>Equivalent product</b>	Makita DVC 660Z
	<b>Additional requirements</b>	4 x compatible lithium ion batteries (5 Ah) 1 x compatible charger
	<b>Corded Vacuum Cleaner requirements</b>	
<p><b>General description</b></p> <p>A Corded Vacuum cleaner for cleaning dust and debris</p>	<b>Power</b>	Minimum 2200
	<b>Power input</b>	220V 50Hz
	<b>Cord Length</b>	Minimum 5m
	<b>Dust Capacity</b>	5L
	<b>Filtration</b>	Hepa
	<b>Suction Type</b>	Dual Type Cyclone
	<b>Features</b>	Variable Power control
	<b>Filtration type</b>	Bagless
	<b>Equivalent Product</b>	Hoover HC2200D
	<b>Digital Vernier requirement</b>	
<p><b>Digital Vernier Calipers</b></p> <p><b>General description</b></p> <p>A portable battery operated measurement tool for precise circumferential measurement</p>	<b>Precision</b>	Minimum 0.2 mm
	<b>resolution</b>	0.01mm
	<b>Measurement range</b>	300mm
	<b>Battery</b>	Yes
	<b>Screen type</b>	LCD
	<b>Material</b>	Stainless steel

	<b>Equivalent product</b> Mac Afric 300mm Digital Vernier Caliper														
<b>Pin Punch Set</b>  <u>General description</u> A toolset used for driving the head of a nail flush with the surface below. Also Used to tap out sellock pins on a rotating shaft and General purpose punching use for driving out damaged rivets, bolts and pins that are bound up in holes.	<b>Pin Punch Set Requirements</b> <table border="1"> <tr> <td><b>Hardness required</b></td><td>Minimum 55 HRC Rockwell</td></tr> <tr> <td><b>Required diameters</b></td><td>3, 4, 5 ,6,8,10mm pin diameters</td></tr> <tr> <td><b>Material</b></td><td>High Strength hardened and tempered Carbon steel such as EN8 or better</td></tr> <tr> <td><b>Length of punch</b></td><td>140mm Minimum</td></tr> <tr> <td><b>Additional</b></td><td>Carry case to be included</td></tr> <tr> <td><b>Equivalent product</b></td><td>Gedore 3160</td></tr> <tr> <td><b>Applicable standards</b></td><td>DIN 6450</td></tr> </table>	<b>Hardness required</b>	Minimum 55 HRC Rockwell	<b>Required diameters</b>	3, 4, 5 ,6,8,10mm pin diameters	<b>Material</b>	High Strength hardened and tempered Carbon steel such as EN8 or better	<b>Length of punch</b>	140mm Minimum	<b>Additional</b>	Carry case to be included	<b>Equivalent product</b>	Gedore 3160	<b>Applicable standards</b>	DIN 6450
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<b>Applicable standards</b>	DIN 6450														
<b>Grease gun fittings</b> 	<p>[ACCESSORIES]: Perfect for garages or automotive workshops and includes common lubing attachments that fit most grease gun couplers and guns.</p> <p>[VERSATILE]: All-in-one grease gun kit includes an easy-to-use connect design with a 90-degree swivel coupler and a 360-degree coupler for greasing at all angles.</p> <p>[CONVENIENT]: 12" flexible hose with spring fits in tight spaces and each kit includes grease injector needle and 1-1/2" needle nose adaptor.</p> <p>[VALUE]: Includes practically every zerk fitting at half the price (4" needle nose adaptor, grease gun adaptor and coupler).</p> <p>[INCLUDED]: 12" flexible hose w/spring, grease injector needle, 1-1/2" needle nose adapter (flat), standard coupler, heavy duty coupler, 90° swivel coupler, 360° swivel coupler, oil gun clamp, short grease gun adapter, and heavy duty case.</p>														

Drill Bit Set		Drill Bit Set requirement	
		Minimum pieces	35
		Equivalent product	Bosch 2607017328
		Package	In a easily foldable plastic container
Plasma Cutter		Plasma Cutter requirement	
		Input voltage	3 phase, 380 V, 50 hz
		Minimum rated output current	120 amps
		Duty cycle	Minimum 60 %
		Steel Cutting thickness requirements	At least 35mm
		Features required	Suitable for ferrous and non-ferrous metal Advanced IGBT Technology Heavy duty industrial application
		Equivalent product	Pinnacle Primicut 120
Gearbox Oil Pump		Gear Box Oil Pump Requirements	
		Required Minimum Flow rate	22 litres / min
		Type	Hand operated Rotary type
		Material	Cast iron /Steel construction
		To be included	Flexible Hose at least 1.2 m in length
		Equivalent product	Clarke Pump Model COP1B
<b>12v combination jump starter with inflator.</b>		<p>It is smaller, lighter and it features our patented safety protection for spark-proof technology and reverses polarity protection.</p> <p>As well as the confidence to power your favourite devices ranging from smartphones to tire pumps.</p> <p>The chargers and jump lead can give your car and your products the extra energy they need.</p> <p>With a case that also contains the adapter tips and power lead, this product will fit in your car to be used in case of an emergency.</p>	



It supports vehicles with 12V voltage or more. to start your car, firstly you should connect the power with the battery holder and then connect the negative and positive connectors of the holder with your car battery.

<b>Processing tool</b>	<b>Minimum Display size and requirements</b> <b>Type</b> <b>Minimum Processor requirement</b> <b>Minimum Memory</b> <b>Minimum Storage</b> <b>Minimum Graphics</b> <b>Network</b> <b>Minimum Ports</b>  <b>Software to be included, installed and fully registered to PRASA (Passenger Rail Agency of South Africa) for a period of 3 years or more if possible.</b> <b>Warranty</b> <b>Equivalent Product</b>	18 inch QHD (2560x1440) IPS 240Hz Laptop/Mobile Device Intel® Core™ i9-13980HX 32GB DDR5 4 TB SSD NVMe PCI-E NVIDIA® GeForce® RTX 4070 GB GDDR6 Wifi 6 (802.11ax), Bluetooth 5.2 2x USB Type-A, 2x USB Type-C, 1x HDMI, 1x Audio Windows 11 Pro registered Windows Office Pro 2021 or later SolidWorks Premium 2023 or later  3 Year Warranty <b>Asus ROG Strix G814JI-I91610G0W/32GB/4TB</b>
<b>Resin Printer Specification</b>	<b>Print Technology</b> <b>Resin Filling System</b> <b>Min Resin Cartridge capacity</b> <b>Number of Cartridges storage</b> <b>Max Dimensions</b> <b>Min Build Size</b> <b>Layer Thickness (axis resolution)</b> <b>Max Laser Spot Size (FWHM)</b>  <b>Approximate Laser Power</b> <b>Supports</b>  <b>Operating Temperature</b> <b>Temperature control</b>	Low Force Stereolithography Automated 1 litre cartridge 2 775 x 520 x 735mm 335x 200x 300mm 25 - 300 microns 85 microns 0.0033" 2 x minimum 250 mW lasers Auto-generated Light-touch removal Auto-heatable to 35°C Air-heated print chamber

Wash Plant	<p><b>Required Design file input format</b> STL / OBJ</p> <p><b>Power input requirements</b> 240V 50hZ</p> <p><b>Laser specifications</b></p> <ul style="list-style-type: none"> <li>• EN 60825-1:2007 certified</li> <li>• Class 1 Laser Product</li> </ul> <p><b>Connectivity requirements</b></p> <ul style="list-style-type: none"> <li>• Wi-Fi</li> <li>• Ethernet (1000 Mbit)</li> <li>• USB</li> </ul> <p><b>Printer control interface</b> Minimum 5.5" Interactive touchscreen Minimum 1280 x 720 resolution</p> <p><b>Pre-Form Print Setup Features</b></p> <ul style="list-style-type: none"> <li>• -One-click print</li> <li>• -Adaptive layer thickness for faster printing with fine details</li> <li>• -Remote Print</li> <li>• -Auto-orient for optimal print position</li> <li>• -Auto-mesh repair</li> <li>• -Auto-generation of supports</li> <li>• -Rotate, scale, duplicate and mirror</li> <li>• -Layer slicer for path inspection</li> </ul> <p><b>Minimum Dashboard Printer Management Features</b></p> <ul style="list-style-type: none"> <li>• -Manage prints and printers via a cloud</li> <li>• -Track resin and tank usage over time</li> <li>• -SMS and email alerts</li> <li>• -Create enterprise group accounts with admins to more easily share printers &amp; control access</li> </ul> <p><b>Equivalent Products</b></p> <ul style="list-style-type: none"> <li>• FORMLAB Form 3L or equivalent</li> </ul>
	<p><b>Compatibility</b> <b>Full compatibility to Resin Printer in this Specification</b></p> <p><b>Minimum dimensions</b> 780 x 460 x 670 mm</p> <p><b>Minimum Bucket Volume</b> 37L</p> <p><b>Maximum Part Size</b> 335 x 200 x 300 mm</p> <p><b>Operating Environment</b> 18—28 °C</p>

	<b>Agitation Method</b> <b>Included compatible Accessories</b> <b>Power input requirements</b> <b>Compatible Solvents</b> <b>Interface requirements</b> <b>Maintenance Interface requirement</b> <b>Equivalent Products</b>	Magnetically coupled impeller or equivalent a. Wash Bucket b. Wash Basket c. Electric Solvent Pump d. Flexible Scraper e. Scraper f. Flush Cutters g. Rinse Bottle h. Gloves i. Resin Printer Platform Adaptor 220 - 240 VAC, 50Hz IPA, TPM, Water User friendly touch screen with timer capabilities Solvent Replacement notification feature FORMLABS Form Wash L
Curing Station	<b>Minimum dimensions</b> <b>Minimum Turntable Diameter</b> <b>Minimum Part Height</b> <b>Minimum MAX Cure</b> <b>Chamber temperature</b> <b>Light Source</b> <b>Minimum LED Power</b> <b>Minimum LED Radiant</b> <b>Minimum LED Wavelength</b> <b>Interface</b> <b>Equivalent products</b>	690 x 540 x 445 mm 395 mm 320 mm 80 °C multi-directional LEDs 70W 36W 375 nm, 405nm User friendly touch screen Formlabs Form Cure L
3D Printer Specification	<b>Minimum Dimensions</b> <b>Print technology</b> <b>Print head design</b>  <b>Filament Diameter</b> <b>Minimum XYZ step size</b> <b>Build speed</b> <b>Build Plate</b> <b>Minimum MAX build plate temperature</b> <b>Layer resolution requirements</b>  <b>Minimum Build Volume</b> <b>Compatible nozzle diameters</b>	495 x 585 x 780 mm FFF (fused filament fabrication) Dual extrusion print head with an auto-nozzle lifting system and swappable print cores  2.85 mm 6.9, 6.9, 2.5 micron < 24 mm <sup>3</sup> /s Heated flexible build plate 125°C Minimum 60 Microns Maximum 400 Microns 330 x 240 x 300mm 0.25 mm, 0.4 mm, 0.6 mm, 0.8 mm

	<b>Operating temperature requirement</b> <b>Nozzle temperature range</b> <b>Nozzle heat up time requirement</b> <b>Build plate leveling</b> <b>Maximum Build Plate heat up time</b> <b>Minimum Compatible materials</b> <b>Required Supported Files</b> <b>Additional Inputs</b> <b>Equivalent Products</b>	15 - 32 °C 180 - 280 °C Less than 2 minutes Advanced active leveling Less than 4 Minutes PLA, Tough PLA, ABS, Nylon, CPE, CPE+, PC, PP, TPU 95A, PVA, Breakaway STL, OBJ, X3D, 3MF, BMP, GIF, JPG, PNG, G, GCODE, GCODE.gz, UFP User friendly touchscreen Ultimaker S7 or better
<b>Automatic Material Spooling station</b>	<b>Filament Diameter</b> <b>Material spool dimensions</b>  <b>Spool capacity</b> <b>Material recognition requirement</b> <b>Feeder type</b> <b>Power input</b> <b>Compatible 3D printers</b>  <b>Maximum Dimensions</b> <b>Equivalent products</b>	2.85mm Width: 50 - 70 mm Diameter: 197 - 203 mm Core diameter: > 98 mm Minimum 6 stations Auto-recognition enabled with NFC scanner Dual-gearied, abrasion-resistant or equivalent 220VAC, 50 Hz Full to be fully compatible with FFF 3D printer to be supplied in this RFQ 491 x 438 x 400 mm Ultimaker S5/S7 spooling station
<b>Air Filtering Station</b>	<b>Filter technology</b> <b>Fan technology</b> <b>Minimum Air refresh rate</b> <b>Minimum Filter efficiency</b> <b>Filter replacement maintenance requirement</b> <b>Compatible 3d Printers</b>  <b>Minimum Dimensions</b> <b>Equivalent products</b>	EPA filter or equivalent Air extraction by low-noise brushless fan 1 - 50 m3/h 95% every 1,500 print hours or more Full to be fully compatible with FFF 3D printer to be supplied in this RFQ 490 x 503 x 350 mm Ultimaker S5/S7 Air Filtering Station
<b>Printer Cores to be included compatible to FFF 3d Printer in this specification.</b>	<b>Type AA 0.25mm</b> <b>Type AA 0,4mm</b> <b>Type AA 0.8mm</b> <b>Type BB 0.4mm</b> <b>Type BB 0.8mm</b> <b>Type CC 0.4mm</b> <b>Type CC 0.6mm</b>	
<b>Stereolithography Apparatus (SLA) Printer</b>	Type : Grey Pro Capacity 1 L	

	<p>POST-CURED AT 60°C</p> <p>Ultimate Tensile Strength 61 MPa</p> <p>Tensile Modulus 2.6 GPa</p> <p>Elongation at Break 13%</p> <p>Flexural Modulus 2.2 GPa</p> <p>Notched IZOD 18.7 J/m</p>
	<p>Type: PU Rigid 650</p> <p>Capacity 1 L</p> <p>Ultimate Tensile Strength <math>34 \pm 3.4</math> MPa</p> <p>Tensile Modulus <math>0.67 \pm 0.06</math> GPa</p> <p>Elongation <math>170 \pm 17</math> %</p> <p>Flexural Strength <math>22 \pm 1.1</math> MPa</p> <p>Flexural Modulus <math>0.57 \pm 0.03</math> GPa</p> <p>Notched Izod 375 J/m</p> <p>Heat Deflection Temp @0.45MPa 82 °C</p> <p>Heat Deflection Temp @1.8MPa 59 °C</p> <p>Flex Cycles &gt;50,000</p>
	<p>Type: PU Rigid 1000</p> <p>Capacity 1 L</p> <p>Ultimate Tensile Strength <math>35 \pm 3.5</math> MPa</p> <p>Tensile Modulus <math>0.92 \pm 0.09</math> GPa</p> <p>Elongation <math>80 \pm 8</math> %</p> <p>Flexural Strength <math>32 \pm 1.6</math> MPa</p> <p>Flexural Modulus <math>0.75 \pm 0.03</math> GPa</p> <p>Notched Izod 170 J/m</p> <p>Heat Deflection Temp @0.45MPa 79 °C</p> <p>Heat Deflection Temp @1.8MPa 64 °C</p> <p>Flex Cycles &gt;50,000</p>
	<p>Type: Elastic 50A</p>

	<p>Capacity 1L</p> <p>Ultimate tensile strength : 3.23MPA</p> <p>Stress at 50% elongations 0.94Mpa</p> <p>Stress at 100% elongation : 1.59Mpa</p> <p>Elongation at failure 160%</p> <p>Compression set at 23 degrees for 22 hrs : 2 %</p> <p>Compression set at 70 degrees for 22 hrs: 9 %</p> <p>Tear strength 19.1 kN/m</p> <p>Shore hardnesss 50 A</p>
	<p>Type: Flexible 80A</p> <p>Capacity 1L</p> <p>Ultimate tensile strength : 8.9PA</p> <p>Stress at 50% elongations 3.1pa</p> <p>Stress at 100% elongation : 6.3Mpa</p> <p>Elongation at failure 120%</p> <p>Compression set at 23 degrees for 22 hrs : 3 %</p> <p>Compression set at 70 degrees for 22 hrs: 5 %</p> <p>Tear strength 24 kN/m</p> <p>Shore hardnesss 80 A</p>
	<p>Type: Tough 2000</p> <p>Capacity 1 L</p> <p>Ultimate Tensile Strength 46 MPa</p> <p>Tensile Modulus2.2 GPa</p> <p>Elongation48 Flexural Strength65 Mpa</p> <p>Flexural Modulus1.9 Gpa</p> <p>Notched Izod 40 J/m</p> <p>Heat Deflection Temp @0.45Mpa 53 degrees</p> <p>Heat Deflection Temp @ 1.8MPa 63degrees</p> <p>Flex Cycles&gt;50,000</p>

<p>Fused Deposition Modeling (FDM) Printer ( Spool sizes Width 50-70mm, outer diameter 197 – 203mm, Core diameter smaller than 97 mm)</p>	<p>Filament diameter 2.85mm , Material- Tough PLA Material Mass Minimum 0.75KG colour : Black Filament diameter 2.85mm , Material - Nylon Material Mass Minimum 0.75KG colour : Black Filament diameter 2.85mm , Material – NylonPolyamide (<b>AKA NYLONX – Reinforced Nylon filament</b>) Material Mass Minimum 0.75KG colour : Black Filament diameter 2.85mm Material PETG Material Mass Minimum 0.75KG colour : Black Filament diameter 2.85mm , Material PVA(Breakaway) Material Mass Minimum 0.75KG colour : white Filament diameter 2.85mm , Material TPU95A Material Mass Minimum 0.75KG colour : Black</p>
<p>Digit Digital Multimeter</p> 	<ul style="list-style-type: none"> <li>• Digital multimeter includes an 80BK type K bead thermocouple probe with integral adaptor.</li> <li>• The digital multimeter is suitable for a variety of measurement applications that comes with its own test leads; instruction manual; 9v alkaline batteries.</li> <li>• This digital meter also features a display backlight for easier measurement reading.</li> <li>• Features and Benefits • 6000 count LCD with 33 segment bar graph, True RMS (A.C.) measurement, EN61010-1 safety standard compliance to Cat IV 600V &amp; Cat III 1000V, Resistance; continuity and diode measurement, Capacitance measurement up to 10000<math>\mu</math>F, Frequency measurement up to 100kHz, Min/Max/Average recording, Display and Auto Hold, Separate battery and fuses access without breaking the calibration seal</li> <li>• Specification <ul style="list-style-type: none"> <li>◦ Multimeter Handheld;</li> <li>◦ Absolute Maximum AC Current Measurement is 10A ac;</li> <li>◦ Absolute Maximum DC Current Measurement is 10A dc;</li> <li>◦ Absolute Maximum Resistance Measurement is 50G<math>\Omega</math>;</li> <li>◦ Absolute Maximum AC Voltage Measurement 1000V ac;</li> <li>◦ Absolute Maximum DC Voltage Measurement 1000V dc;</li> <li>◦ Absolute Maximum Temperature Measurement +400°C;</li> <li>◦ Absolute Maximum Capacitance Measurement 9.999F;</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>○ Functions Measured: AC Current; AC Voltage; Capacitance; Continuity; DC Current; DC Voltage; Diode; Frequency; Resistance; Temperature True RMS;</li> <li>○ Maximum Frequency 1kHz;</li> <li>○ LCD Display;</li> <li>○ AC Current Measurement Resolution 0.01mA;</li> <li>○ DC Current Measurement Resolution 0.01mA;</li> <li>○ DC Voltage Measurement Resolution 0.1mV dc;</li> <li>○ Resistance Measurement Resolution 100mΩ;</li> <li>○ AC Voltage Measurement Resolution 0.1mV ac;</li> <li>○ Capacitance Measurement Resolution 1nF;</li> <li>○ Temperature Measurement Resolution 0.1°C;</li> <li>○ Best Resistance Measurement Accuracy <math>\pm 1.5\% + 3</math> Digits;</li> <li>○ Safety Category Voltage 600 V; 1000 V;</li> <li>○ Maximum Operating Temperature +50°C;</li> <li>○ Battery Life 200 h;</li> <li>○ Best AC Voltage Accuracy <math>\pm 1\% + 3</math> Digits;</li> <li>○ Best Capacitance Measurement Accuracy <math>\pm 10\% + 2</math> Digits;</li> </ul> <p>Best AC Current Accuracy <math>\pm 1.5\% + 3</math> Digits</p>
Rigid Back Probe Pins 	<ul style="list-style-type: none"> <li>● Slides onto test probes of the multimeter.</li> </ul> <p>Should be compatible with make of multimeter supplied. Sharp point allows for contact to electrical connectors and insulation protects from shorting .</p>
Digital variable DC Supply 	<p>Variable dc power supply</p> <p>50V – 160V VARIABLE DC to be supplied with Daspol tester, croc to croc test leads, Scope lead crocodile clips, test leads banana to banana, test leads banana to crock. 1,5 mm Red (Single Cores) 1,5 mm Black (Single Cores), 2,5 mm White (Multi Cores 7strands) 2,5 mm Blue (Multi Cores 7strands), 2,5 mm yellow and green (Multi Cores 7 strands), 2,5 mm red (Multi Cores 7 strands) Transistor BC 237, Transistor BC 557, Resistances: 470 Ohm, Resistances: 27 Kilo Ohm, Resistances: 68 Kilo Ohm, Resistances: 220 Kilo Ohm, Vertical Trimmers 5 Kilo Ohm, Scope Meter Probes and Wave genitor Cables</p>
Dual Speed hard wiring Panel	<p>Dual speed control wiring panel: consisting of the following Circuit breaker single phase, overload, emergency stop button, stop button, stop button, 3 phase contactors, timer, motor.</p> <p>To be delivered with Resistances, Transistor, Resistances, 5K Potentiometer, LED's, Capacitor and PN Junction diodes</p>



3 Phase Dual speed motor



Two speed motor: Three phase electric motor, type G80A4  
0,55KW -0,75 HP – 400/690V – 1.54/0.9A- 50 HETRZ -  
1420r/min – IP 55- CONN STAR/DELTA.

3 Phase Star-Delta Motor



Star delta motor:

Two speed motor :Three phase electric motor, type MS801-4 , B3  
0,55KW -0,75 HP – 400/690V – 1.54/0.9A- 50 HETRZ -1400r/min-  
CONN STAR/DELTA

Toolboxes



550x230x220 5 Tray foldable and lockable boxes, Gedore or similar

Water Pump Plier



Water Pump Pliers  
(Equivalent to Gedore, Mastercraft or Toptul) 250 mm insulated

Vice grip



Vice Grip  
(Equivalent to Gedore, Mastercraft or Toptul) 250mm

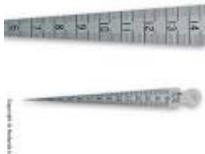
Screwdriver set



Screwdrivers set 6 Pieces  
(Equivalent to Gedore, Mastercraft or Toptul)

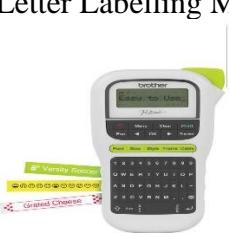
	<p><b>Automatic wire stripper</b>  <b>Automatic Wire Strippers</b>  As per picture, preferable NOT ANY OTHER TYPES For Electronic work.</p>
	<p><b>Hacksaw</b>  Premium Hacksaw 300mm frame</p>
	<p><b>Steel Ruler</b>  Steel Rule.  300mm</p>
	<p><b>Shifting spanner</b>  <b>Shifting Spanner</b>  (Equivalent to Gedore, Mastercraft or Toptul) 300mm</p>
	<p><b>Combination Spanner set</b>  <b>Combi Spanner set.</b> 6 – 24 19 Piece</p>
	<p><b>Drive Socket set</b>  <b>1/2" Drive Socket Set</b>  (Equivalent to Gedore, Mastercraft or Toptul) 8 – 22mm 13 Pieces</p>
	<p><b>Combination Pliers</b>  For heaviest duty pliers chrome plated, handles insulated with multi-component grips, VDE-tested 1000v insulated voltage 160mm With gripping zones for flat and round material, suitable for versatile use With cutting edges for soft, hard and piano wire Long cutting edges for thicker cables Cutting edges additionally induction-hardened, cutting edge hardness approx. 64 HRC Particularly wear resistant gripping jaws; hardness of the gripping jaws approx. 53 HRC Chrome vanadium heavy-duty steel, forged, multi stage oilhardened</p>
	<p><b>Diagonal Cutters</b>  <b>Diagonal Cutters</b>  (Equivalent to Gedore, Mastercraft or Toptul) 200mm Insulated</p>

<b>File set</b> 	<b>Files Set</b> (Equivalent to Gedore, Mastercraft or Toptul) 2nd Flat, hr, tri, md, & sq
<b>Ear Plugs</b> 	<b>Ear Plugs</b>
<b>Safety Goggles</b> 	<b>Poly Carbon Safety Glasses.</b>
<b>Set of Punches</b> 	<b>Set of Pin punches</b> 3x10x150 4x10x150 5x10x150 6x10x150 8x10x150 (Equivalent to Gedore, Mastercraft or Toptul) X10
<b>Scriber</b> 	<b>Scriber</b> (Equivalent to Gedore, Mastercraft or Toptul)
<b>Divider</b> 	<b>Divier</b> spring joint, 100mm
<b>Tube set</b> 	<b>Tube Spanner Set</b> (Equivalent to Gedore, Mastercraft or Toptul) 8-19mm

<b>Taper gauge</b> 	Taper gauge from 1-6mm and from 6mm-14mm.
<b>Ball peen hammer</b> 	Small pall pane hammer size: 226mg.
<b>Rubber Mellet</b> 	Rubber Mellet large
<b>Depth Gaue</b> 	Depth gauge 0-150mm
<b>Diagonal Cutter</b> 	Diagonal cutter 100mm for electronic work (Equivalent to Gedore, Mastercraft or Toptul)
<b>Combination Set</b> 	Combination set for different measurements
<b>Combination Spanners</b> 	Combination spanner 30 and 32mm (Equivalent to Gedore, Mastercraft or Toptul) X10

<b>Nut Spanners</b> 	Set of Nut drivers 5, 6, 7, 8, 9, 10 & 13mm (Equivalent to Gedore, Mastercraft or Toptul)
<b>Automatic Scriber</b> 	Automatic center punch (Equivalent to Gedore, Mastercraft or Toptul)
<b>Junior Hack saw</b> 	Junior hacksaw.
<b>Circlip Plier</b> 	Circlip pliers bended internal (Equivalent to Gedore, Mastercraft or Toptul)
<b>Circlip Plier</b> 	Circlip pliers bended External (Equivalent to Gedore, Mastercraft or Toptul)
<b>Circlip Plier</b> 	Circlip pliers internal (Equivalent to Gedore, Mastercraft or Toptul)
<b>Pipe Wrench</b> 	Pipe wrench (Equivalent to stilson, Gedore, Mastercraft or Toptul)
<b>Extension Cord</b>	Extension cord 4X 35 Meter

	
Small Grinder 	Small grinding Machine
Big Grinder 	Big Grinding Machine
Blower 	Electric Blower
Heat Gun 	Electric heat gun
High Voltage insulation Tester  <b>High Voltage Digital Insulation Tester</b> R11,707.00 Features : <ul style="list-style-type: none"> <li>• DC test Voltage in 500V, 1000V, 2500V and 5000V</li> <li>• Bargraph display with back light</li> <li>• Polarization index and DAI</li> <li>• Indication of output voltage and auto discharge function</li> <li>• AC Power adaptor recommended at 5000V</li> <li>• Built in Timer</li> <li>• Live circuit warning symbols with audio warning</li> <li>• CAT IV 600V and CAT III 1000V</li> </ul>	High Voltage insulation Tester

Extractor Fan	Wall mounted Extractor Fan
	
Wash Bay Booth	Wash Bay Booth
	
Letter Labelling Machine	Labelling Machine with Labelling Machine Tape
	
Engraving Tool	Electric Engraving Tool



Long Nose Pliers



**Long nose pliers**  
(Equivalent to Gedore, Mastercraft or Toptul) 200mm Insulated

Round nose Pliers



**Round Nose pliers**  
(Equivalent to Gedore, Mastercraft or Toptul) 160mm insulated

Utility Knife

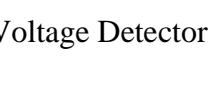


Utility Rubber knife grip with push button

Measuring Tape



Steel Measuring Tape. 3x12.5mm

Digital Spirit Level 	<ul style="list-style-type: none"> <li>Length – 600mm</li> <li>Weight – 1kg</li> <li>LCD screen for measurement readings</li> <li>360° readout – flips in upside down position</li> <li>HOLD function included</li> <li>Capable of memory recall</li> <li>Buzzer at 0, 45 and 90°</li> </ul> <p>Low battery indicator</p>
Ballpeen hammer 	Ball Peen Hammer. 450g
Square 	Engineering Still Square
Hex Set 	Std Hex Key Set (Equivalent to Gedore, Mastercraft or Toptul) 1.5-10mm Box
Hex Set 	Std Hex Key Set (Equivalent to Gedore, Mastercraft or Toptul) 1/16-3/8 Box
Crimping Tool 	Crimper Non-Insulated Lugs (Equivalent to Gedore, Mastercraft or Toptul) 1.5-10mm
Voltage Detector 	<ol style="list-style-type: none"> <li><b>Voltage detector with hook for catenary contact</b> <ul style="list-style-type: none"> <li>Voltage range : 750 V to 3500V.</li> <li>Direct Current (DC)</li> <li>Contact piece: Hook</li> <li>Voltage presence indication:           <ul style="list-style-type: none"> <li>✓ Voltage presence indicated by illumination of red LED's with acoustic signal</li> <li>✓ Absence of voltage is indicated by illumination of green LED's with acoustic signal</li> </ul> </li> <li>Weight: less than 2 KG</li> </ul> </li> <li><b>Handle or Stick</b></li> </ol>

	<ul style="list-style-type: none"><li>• 1 X magnetised handle or stick for extending the hook and connection to the rail.</li></ul> <p><b>3. Carrying bag</b></p>
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