

## PA-04 (GS): NOTICE AND INVITATION TO BID

### THE DEPARTMENT OF PUBLIC WORKS INVITES BIDDERS FOR THE PROVISION OF SUPPLY AND DELIVERY OF MACHINERY, TOOLS AND EQUIPMENT

<b>Project title:</b>	Supply and Delivery of Machinery, Tools & Equipment
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<b>Bid no:</b>	CPTSC 15/22		
<b>Advertising date:</b>	30/11/2022	<b>Closing date:</b>	27/01/2023
<b>Closing time:</b>	11:00 AM	<b>Validity period:</b>	60 days

Only bidders who are responsive to the following responsiveness criteria are eligible to submit bids:

1.	<input checked="" type="checkbox"/>	Bid offer must be properly received on the bid closing date and time specified on the invitation, fully completed and signed in ink.
2.	<input checked="" type="checkbox"/>	Submission of other compulsory returnable schedules / documents as per (PA-09 (GS)): List of returnable documents.
3.	<input type="checkbox"/>	Submission of (PA-16): Preference points claim form in terms of the Preferential Procurement Regulations 2017.
4.	<input type="checkbox"/>	Compliance to Local Production and Content requirements as per PA36 and Annexure C
5.	<input type="checkbox"/>	Registration on National Treasury's Central Supplier Database (CSD)
6.	<input type="checkbox"/>	Compliance with Pre-qualification criteria for Preferential Procurement
7.	<input checked="" type="checkbox"/>	Use of correction fluid is prohibited
8.	<input checked="" type="checkbox"/>	<p>Tenderers to comply with the pre-qualification criteria on paragraph 11.3 (level 1 or 2) for Preferential Procurement as follows:</p> <p>a) A valid copy of the bidder's BB-BEE certificate OR</p> <p>b) A valid copy of the bidder's "Sworn Affidavit" attested by the commissioner of Oath as prescribed by the BBB-EE Codes of Good Practice.</p> <p>The Date of deponent and date of Commissioner of Oath must be the correspond or be the same; financial year end must be indicated, according to The Broad-Based Black Economic Empowerment Practice Guide 01 Of 2018, Determining The Validity of a Broad-Based Black Economic Empowerment Verification Certificate, B-BBEE Certificate and Sworn Affidavit paragraph 17(i)</p> <p>c) A valid copy of B-BBEE issued by the DTI will be accepted</p> <p>d) A valid copy of a B-BBEE Verification Certificate / a sworn affidavit and a B-BBEE Certificate issued by the Companies and Intellectual Property Commission (CIPC) will be accepted</p> <p>e) A trust, consortium or joint venture must submit a consolidated B-BBEE status Level Certificates together with the bids. Failure to submit the consolidated BBEE will lead to disqualification of the bid.</p> <p>NB: Failure to submit any of the above will result in disqualification of bids as this is a pre-qualification criteria.pecify other responsiveness criteria</p>
9.	<input checked="" type="checkbox"/>	Submission of duly completed PA-32 and pricing schedule (Total from pricing schedule must be transfred to PA-32)
10.	<input checked="" type="checkbox"/>	Attendance of compulsory site meeting / briefing
11.	<input type="checkbox"/>	

**Indicate administrative requirements applicable for this tender. Tenderers may be required to submit the below documents where applicable.**

1	<input checked="" type="checkbox"/>	Any correction to be initialled by the person authorised to sign the tender documentation as per PA 15.1 or PA 15.2 resolution of board/s of directors / or PA15.3 Special Resolution of Consortia or JV's .
2	<input checked="" type="checkbox"/>	Submission of applicable (PA-15.1, PA-15.2, PA-15.3): Resolution by the legal entity, or consortium / joint venture, authorising a dedicated person(s) to sign documents on behalf of the firm / consortium / joint venture.
3	<input checked="" type="checkbox"/>	Submission of (PA-11): Declaration of Interest and Tenderer's Past Supply Chain Management Practices.
4	<input checked="" type="checkbox"/>	Submission of (PA-29): Certificate of Independent Bid Determination.
5	<input checked="" type="checkbox"/>	Submission of (PA 40): Declaration of Designated Groups for Preferential Procurement.
6	<input checked="" type="checkbox"/>	Submission of proof of Registration on National Treasury's Central Supplier Database (CSD).
7	<input type="checkbox"/>	Submission of record of attending compulsory virtual bid clarification / site inspection meeting.
8	<input checked="" type="checkbox"/>	Submission of DPW-16 as proof of attendance of compulsory site meeting/ briefing
9	<input checked="" type="checkbox"/>	Submission of (PA-16): PREFERENCE POINTS CLAIM FORM IN TERMS OF Preferential Procurement Regulations 2017
10	<input type="checkbox"/>	<i>Specify other responsiveness criteria</i>
11	<input type="checkbox"/>	<i>Specify other responsiveness criteria</i>
12	<input type="checkbox"/>	<i>Specify other responsiveness criteria</i>

**Tenderer must comply with the Pre-qualification criteria for Preferential Procurement listed below**

<input checked="" type="checkbox"/>	A tenderer having stipulated minimum B-BBEE status level of contributor: <input checked="" type="checkbox"/> Level 1 or <input checked="" type="checkbox"/> Level 2 or <input type="checkbox"/> Level 3
<input type="checkbox"/>	An EME or QSE
<input type="checkbox"/>	A tenderer subcontracting a minimum of 30% to: <input type="checkbox"/> An EME or QSE which is at least 51% owned by black people <input type="checkbox"/> An EME or QSE which is at least 51% owned by black people who are youth <input type="checkbox"/> An EME or QSE which is at least 51% owned by black people who are women <input type="checkbox"/> An EME or QSE which is at least 51% owned by black people with disabilities <input type="checkbox"/> An EME or QSE which is at least 51% owned by black people living in rural or underdeveloped areas or townships <input type="checkbox"/> A co-operative which is at least 51% owned by black people <input type="checkbox"/> An EME or QSE which is at least 51% owned by black people who are Military veterans <input type="checkbox"/> An EME or QSE;

This bid will be evaluated according to the preferential procurement model in the PPPFA:  
*(Tick applicable preference point scoring system)*

<input checked="" type="checkbox"/> 80/20 Preference points scoring system	<input type="checkbox"/> 90/10 Preference points scoring system	<input type="checkbox"/> Either 80/20 or 90/10 Preference points scoring system
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In case where below/above R 50 000 000 is selected, the lowest acceptable tender will be used to determine the applicable preference point system.

**Note:** Functionality will be applied as a prequalification criterion. Such criteria is used to establish minimum requirements where after bids will be evaluated solely on the basis of price and preference.

<b>Minimum functionality score to qualify for further evaluation:</b>	50
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<b>Functionality criteria:</b>	<b>Weighting factor:</b>
<p>1.Experience on previous contracts.</p> <p>Bidders must furnish adequate proof of successfully completed projects, Supply &amp; delivery of Workshop machinery, tools &amp; equipment to the value threshold equal to or above R 450 000.00 accumulatively in the last 8 years (2014-2022)only project completed prior to the closing date will be considered.</p> <p>1)The bidder must attach appointment letter(s) from the Employer with a clear project description, contract value and contract period and reference letter(s) from the Employer with a clear project description, contract value and contract period. (Each appointment letter must be supported by a reference letter)</p> <p>OR</p> <p>2)The bidder must attach Purchase Order(s) from the Employer with a clear project description, contract value and contract period and reference letter(s) from the Employer with a clear project description, contract value and contract period. (Each Purchase Order must be supported by a reference letter)</p> <p>OR</p> <p>3)The bidder must attach Signed Contract(s) / SLA (s) from the Employer with a clear project description, contract value and contract period and reference letter(s) from the Employer with a clear project description, contract value and contract period. (Each Contract/ SLA must be supported by a reference letter)</p> <p>The proof submitted in this category must be aligned to the list of projects submitted on the DPW-09. Failure to provide information on the DPW-09 or provide information regarding the bidder's experience will lead to no scoring of points in this criteria.</p> <p>The projects listed on the DPW-09 will be used to score the bidder on quality.</p> <p>Scoring:</p> <p>a) Successfully completed 5 contracts to the value of R450 000.00 = 5 points            b) Successfully completed 4 contracts to the value of R350 000.00 = 4 points            c) Successfully completed 3 contracts to the value of R300 000.00 = 3 points            d) Successfully completed 2 contracts to the value of R250 000.00 = 2 points            e) Successfully completed 1 contract to the value of R150 000.00 = 1 point</p>	50

<p><b>2. Quality</b></p> <p>References listed on the DPW-09 will be used to obtain the quality of work. Bidders must provide contactable references (inclusive of contact person and his/her contact details). The bidder must forward/submit the standard template (QP-002) attached in the tender document to the referees to complete as listed on the DPW09 and it must be signed and stamped. The duly completed, signed and stamped QP-002 form must be attached to the tender document and submitted on/or before closing date.</p> <p>(The projects submitted for experience, quality / QP-002 must correspond with projects listed on the DPW-09).          The bidder must submit quality form for each project listed on the DPW-09.          If the bidder submit more than one quality form with different ratings an average will be used to score the bidder in this category.          Failure to submit quality forms (QP-002) will lead to no scoring of points in this criteria.</p> <p>Scoring:          a) Successfully completed 5 projects = 5 points          b) Successfully completed 4 projects = 4 points          c) Successfully completed 3 projects = 3 points          d) Successfully completed 2 projects = 2 points          e) Successfully completed 1 project = 1 point</p>	50
<p><b>Total</b></p>	<p><b>100 Points</b></p>

Subject to sub-regulation 6(2) and /or 7(2), points must be awarded to a tenderer for attaining B-BBEE status level contributor in accordance with the table below:

B-BBEE Status Level of Contributor	Number of Points (90/10 system)	Number of Points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

- The points scored by a tenderer in respect of the level of BBEE contribution contemplated in sub regulation 6(2) and 7(2) must be added to the points scored for price as calculated in accordance with sub regulation 6(1) and 7(1) respectively
- Subject to regulation 11(1), the contract must be awarded to the tenderer who scores the highest total number of points.

- A contract may be awarded to a tenderer that did not score the highest total number of points, only in accordance with section 2 (1) (f) of the Act

**COLLECTION OF BID DOCUMENTS:**

- Bid documents are available for free download on e-Tender portal [www.etenders.gov.za](http://www.etenders.gov.za)
- Alternatively; Bid documents may be collected during working hours at the following address Custom House -42 Lower Heerengracht Street Cape Town. A non-refundable bid deposit of R 300.00 is payable, (Cash only) is required on collection of the bid documents.
- A **compulsory** pre bid meeting with representatives of the Department of Public Works will take place at Custom House -42 Lower Heerengracht Street Cape Town on 14/12/2022 starting at 11h00. Venue 3 rd Floor Dome. (if applicable)

**ENQUIRIES RELATED TO BID DOCUMENTS MAY BE ADDRESSED TO:**

<b>DPW Project Leader:</b>	Mark Stephens	<b>Telephone no:</b>	021 -402 2334
<b>Cell no:</b>	082 376 6005	<b>Fax no:</b>	n/a
<b>E-mail:</b>	mark.stephens@dpw.gov.za		

**DEPOSIT / RETURN OF BID DOCUMENTS:**

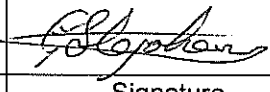
Telegraphic, telephonic, telex, facsimile, electronic and / or late tenders will not be accepted.

Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the bid document.

All tenders must be submitted on the official forms –

<p><b>BID DOCUMENTS MAY BE POSTED TO:</b></p> <p>THE DIRECTOR -GENERAL DEPARTMENT OF PUBLIC WORKS PRIVATE BAG X 9027 Cape Town 8001</p> <p>ATTENTION: <b>PROCUREMENT SECTION: ROOM <i>insert room no</i></b></p> <p><i>POSTED TENDERS MUST BE RECEIVED PRIOR CLOSING DATE AND TIME AT 11H00 BY THE DEPARTMENT</i></p>	OR	<p><b>DEPOSITED IN THE TENDER BOX AT:</b></p> <p>42 Lower Heerengracht Street CAPE TOWN Custom House Heerengracht Street</p>
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**COMPILED BY:**

Mark Stephens		Chief Artisan Superintendent	30/11/2022
Name of Project Leader	Signature	Capacity	Date



## DPW-16 (EC): SITE INSPECTION MEETING CERTIFICATE

<b>Project title:</b>	<i>Supply and Delivery of Machinery, Tools &amp; Equipment</i>		
<b>Tender no:</b>	CPTSC15/22	<b>Reference no:</b>	
<b>Closing date:</b>	27/01/2023		

This is to certify that I, \_\_\_\_\_ representing  
 \_\_\_\_\_ in the company of  
 \_\_\_\_\_ visited the site on: ***insert date***

I have made myself familiar with all local conditions likely to influence the work and the cost thereof. I further certify that I am satisfied with the description of the work and explanations given at the site inspection meeting and that I understand perfectly the work to be done, as specified and implied, in the execution of this contract.

Name of Tenderer	Signature	Date

Name of DPW Representative	Signature	Date

## PA-11: 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 (1) 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

(1) 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.
- 3.5 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.
- 3.6 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.

<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.

3.7 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 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

**This form has been aligned with SBD4**

## PA16: PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

**NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017 AND THE AMENDED B-BBEE CODES.**

### 1. GENERAL CONDITIONS

1.1. The following preference point systems are applicable to all bids:

- 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 value of this bid is estimated to **Select** R50 000 000 (all applicable taxes included) and therefore the...**80/20**.....system shall be applicable.

1.3. Preference points for this bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contribution.

1.3.1 The maximum points for this bid are allocated as follows:

	POINTS
<b>1.3.1.1 PRICE</b>	<b>80</b>
<b>1.3.1.2 B-BBEE STATUS LEVEL OF CONTRIBUTION</b>	<b>20</b>
<b>Total points for Price and B-BBEE must not exceed</b>	<b>100</b>

1.4. Failure on the part of a bidder to fill in and/or to sign this form and submit a B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System (SANAS) or an Accounting Officer as contemplated in the Close Corporation Act (CCA) together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

1.5. An Exempted Micro Enterprise (EME) is only required to obtain a sworn affidavit or a certificate issued by Companies and intellectual property Commission (CIPC) confirming their annual turnover of R10 Million or less and level of black ownership to claim points.

1.6. Qualifying Small Enterprise (QSE) is only required to obtain a sworn affidavit or a certificate issued by Companies and intellectual property Commission (CIPC) confirming their annual turnover of R10 Million or less and level of black ownership to claim points.

- 1.7 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.
- 1.8 CERTIFICATES ISSUED BY IRBA AND ACCOUNTING OFFICER HAVE BEEN DISCONTINUED; HOWEVER VALID CERTIFICATES ALREADY ISSUED BEFORE 01 JANUARY 2017 MAY BE USED UNTIL THEY PHASE OUT COMPLETELY BY DECEMBER 2017

## 2. DEFINITIONS

- (a) **“all applicable taxes”** includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;
- (b) **“B-BBEE”** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (c) **“B-BBEE status level of contributor”** means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (d) **“bid”** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of services, works or goods, through price quotations, advertised competitive bidding processes or proposals;
- (e) **“Broad-Based Black Economic Empowerment Act”** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (f) **“comparative price”** means the price after the factors of a non-firm price and all unconditional discounts that can be utilized have been taken into consideration;
- (g) **“consortium or joint venture”** 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;
- (h) **“contract”** means the agreement that results from the acceptance of a bid by an organ of state;
- (i) **“EME”** means an Exempted Micro Enterprise as defines by Codes of Good Practice under section 9 (1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (j) **“Firm price”** means the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs or excise duty and any other duty, levy, or tax, which, in terms of the law or regulation, is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;
- (k) **“functionality”** means the measurement according to predetermined norms, as set out in the bid documents, of a service or commodity that is designed to be practical and useful, working or operating, taking into account, among other factors, the quality, reliability, viability and durability of a service and the technical capacity and ability of a bidder;
- (l) **“non-firm prices”** means all prices other than “firm” prices;
- (m) **“person”** includes a juristic person;
- (n) **“QSE”** means a Qualifying Small Enterprise as defines by Codes of Good Practice under

[TICK APPLICABLE BOX]

9.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

.....

.....

9.6 COMPANY CLASSIFICATION

- Manufacturer
- Supplier
- Professional service provider
- Other service providers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

9.7 Total number of years the company/firm has been in business? .....

9.8 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contribution indicated in paragraph 7 of the foregoing certificate/ Sworn Affidavit, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- (i) The information furnished is true and correct;
- (ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form.
- (iii) In the event of a contract being awarded as a result of points claimed as shown in paragraph 7, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- (iv) If the B-BBEE status level of contribution has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
  - (a) Disqualify the person from the bidding 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) restrict the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, 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

**WITNESSES:**

- 1. ....
- 2. ....

.....

**SIGNATURE(S) OF BIDDER(S)**

DATE:..... ADDRESS:.....

## PA-15.1: RESOLUTION OF BOARD OF DIRECTORS

RESOLUTION of a meeting of the Board of \*Directors / Members / Partners of:

\_\_\_\_\_ (Legally correct full name and registration number, if applicable, of the Enterprise)

Held at \_\_\_\_\_ (place)

on \_\_\_\_\_ (date)

**RESOLVED that:**

1. The Enterprise submits a Bid / Tender to the Department of Public Works in respect of the following project:

\_\_\_\_\_ (Project description as per Bid / Tender Document)

Bid / Tender Number: \_\_\_\_\_ (Bid / Tender Number as per Bid / Tender Document)

2. \*Mr/Mrs/Ms: \_\_\_\_\_

in \*his/her Capacity as: \_\_\_\_\_ (Position in the Enterprise)

and who will sign as follows: \_\_\_\_\_

be, and is hereby, authorised to sign the Bid / Tender, and any and all other documents and/or correspondence in connection with and relating to the Bid / Tender, as well as to sign any Contract, and any and all documentation, resulting from the award of the Bid / Tender to the Enterprise mentioned above.

	Name	Capacity	Signature
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

17			
18			
19			
20			

The bidding enterprise hereby absolves the Department of Public Works from any liability whatsoever that may arise as a result of this document being signed.

**Note:**

- \* Delete which is not applicable.
- NB:** This resolution must, where possible, be signed by all the Directors / Members / Partners of the Bidding Enterprise.
- In the event that paragraph 2 cannot be complied with, the resolution must be signed by Directors / Members / Partners holding a majority of the shares / ownership of the Bidding Enterprise (attach proof of shareholding / ownership hereto).
- Directors / Members / Partners of the Bidding Enterprise may alternatively appoint a person to sign this document on behalf of the Bidding Enterprise, which person must be so authorized by way of a duly completed power of attorney, signed by the Directors / Members / Partners holding a majority of the shares / ownership of the Bidding Enterprise (proof of shareholding / ownership and power of attorney are to be attached hereto).
- Should the number of Directors / Members / Partners exceed the space available above, additional names and signatures must be supplied on a separate page.

ENTERPRISE STAMP

## PA-15.2: RESOLUTION OF BOARD OF DIRECTORS TO ENTER INTO CONSORTIA OR JOINT VENTURES

RESOLUTION of a meeting of the Board of \*Directors / Members / Partners of:

\_\_\_\_\_

\_\_\_\_\_

(Legally correct full name and registration number, if applicable, of the Enterprise)

Held at \_\_\_\_\_ (place)

on \_\_\_\_\_ (date)

### RESOLVED that:

1. The Enterprise submits a Bid /Tender, in consortium/Joint Venture with the following Enterprises:

\_\_\_\_\_

\_\_\_\_\_

(List all the legally correct full names and registration numbers, if applicable, of the Enterprises forming the Consortium/Joint Venture)

to the Department of Public Works in respect of the following project:

\_\_\_\_\_

\_\_\_\_\_

(Project description as per Bid /Tender Document)

Bid / Tender Number: \_\_\_\_\_ (Bid / Tender Number as per Bid / Tender Document)

2. \*Mr/Mrs/Ms: \_\_\_\_\_  
in \*his/her Capacity as: \_\_\_\_\_ (Position in the Enterprise)  
and who will sign as follows: \_\_\_\_\_

be, and is hereby, authorised to sign a consortium/joint venture agreement with the parties listed under item 1 above, and any and all other documents and/or correspondence in connection with and relating to the consortium/joint venture, in respect of the project described under item 1 above.

3. The Enterprise accepts joint and several liability with the parties listed under item 1 above for the due fulfilment of the obligations of the joint venture deriving from, and in any way connected with, the Contract to be entered into with the Department in respect of the project described under item 1 above.
4. The Enterprise chooses as its *domicilium citandi et executandi* for all purposes arising from this joint venture agreement and the Contract with the Department in respect of the project under item 1 above:

Physical address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (code)



Postal Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (code)

Telephone number: \_\_\_\_\_

Fax number: \_\_\_\_\_

	Name	Capacity	Signature
1			
2			
3			
4			
5			
6			
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12			
13			
14			
15			

The bidding enterprise hereby absolves the Department of Public Works from any liability whatsoever that may arise as a result of this document being signed

**Note:**

- \* Delete which is not applicable.
- NB:** This resolution must, where possible, be signed by all the Directors / Members / Partners of the Bidding Enterprise.
- In the event that paragraph 2 cannot be complied with, the resolution must be signed by Directors / Members / Partners holding a majority of the shares / ownership of the Bidding Enterprise (attach proof of shareholding / ownership hereto).
- Directors / Members / Partners of the Bidding Enterprise may alternatively appoint a person to sign this document on behalf of the Bidding Enterprise, which person must be so authorized by way of a duly completed power of attorney, signed by the Directors / Members / Partners holding a majority of the shares / ownership of the Bidding Enterprise (proof of shareholding / ownership and power of attorney are to be attached hereto).
- Should the number of Directors / Members / Partners exceed the space available above, additional names and signatures must be supplied on a separate page.

**ENTERPRISE STAMP**

## PA-15.3: SPECIAL RESOLUTION OF CONSORTIA OR JOINT VENTURES

**RESOLUTION** of a meeting of the duly authorised representatives of the following legal entities who have entered into a consortium/joint venture to jointly bid for the project mentioned below: *(legally correct full names and registration numbers, if applicable, of the Enterprises forming a Consortium/Joint Venture)*

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_
3. \_\_\_\_\_  
\_\_\_\_\_
4. \_\_\_\_\_  
\_\_\_\_\_
5. \_\_\_\_\_  
\_\_\_\_\_
6. \_\_\_\_\_  
\_\_\_\_\_
7. \_\_\_\_\_  
\_\_\_\_\_
8. \_\_\_\_\_  
\_\_\_\_\_

Held at \_\_\_\_\_ *(place)*

on \_\_\_\_\_ *(date)*

### **RESOLVED that:**

#### **RESOLVED that:**

- A. The above-mentioned Enterprises submit a Bid in Consortium/Joint Venture to the Department of Public Works in respect of the following project:

\_\_\_\_\_  
\_\_\_\_\_

*(Project description as per Bid /Tender Document)*

Bid / Tender Number: \_\_\_\_\_ *(Bid / Tender Number as per Bid /Tender Document)*

PA-15.3: Special Resolution of Consortia or Joint Ventures

B. \*Mr/Mrs/Ms: \_\_\_\_\_  
in \*his/her Capacity as: \_\_\_\_\_ (Position in the Enterprise)  
and who will sign as follows: \_\_\_\_\_

be, and is hereby, authorised to sign the Bid, and any and all other documents and/or correspondence in connection with and relating to the Bid, as well as to sign any Contract, and any and all documentation, resulting from the award of the Bid to the Enterprises in Consortium/Joint Venture mentioned above.

C. The Enterprises constituting the Consortium/Joint Venture, notwithstanding its composition, shall conduct all business under the name and style of:

\_\_\_\_\_

D. The Enterprises to the Consortium/Joint Venture accept joint and several liability for the due fulfilment of the obligations of the Consortium/Joint Venture deriving from, and in any way connected with, the Contract entered into with the Department in respect of the project described under item A above.

E. Any of the Enterprises to the Consortium/Joint Venture intending to terminate the consortium/joint venture agreement, for whatever reason, shall give the Department 30 days written notice of such intention. Notwithstanding such decision to terminate, the Enterprises shall remain jointly and severally liable to the Department for the due fulfilment of the obligations of the Consortium/Joint Venture as mentioned under item D above.

F. No Enterprise to the Consortium/Joint Venture shall, without the prior written consent of the other Enterprises to the Consortium/Joint Venture and of the Department, cede any of its rights or assign any of its obligations under the consortium/joint venture agreement in relation to the Contract with the Department referred to herein.

G. The Enterprises choose as the *domicilium citandi et executandi* of the Consortium/Joint Venture for all purposes arising from the consortium/joint venture agreement and the Contract with the Department in respect of the project under item A above:

Physical address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (Postal code) \_\_\_\_\_

Postal Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (Postal code) \_\_\_\_\_

Telephone number: \_\_\_\_\_

Fax number: \_\_\_\_\_

PA-15.3: Special Resolution of Consortia or Joint Ventures

	Name	Capacity	Signature
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

*The bidding enterprise hereby absolves the Department of Public Works & Infrastructure from any liability whatsoever that may arise as a result of this document being signed.*

**Note:**

1. \* Delete which is not applicable.
2. **NB:** This resolution must be signed by all the Duly Authorised Representatives of the Legal Entities to the consortium/joint venture submitting this tender, as named in item 2 of Resolution PA-15.2.
3. Should the number of the Duly Authorised Representatives of the Legal Entities joining forces in this tender exceed the space available above, additional names, capacity and signatures must be supplied on a separate page.
4. Resolution PA-15.2, duly completed and signed, from the separate Enterprises who participate in this consortium/joint venture, must be attached to this Special Resolution (PA-15.3).

## PA- 29: CERTIFICATION OF INDEPENDENT BID DETERMINATION

<b>Project title:</b>	Supply & Delivery of Machinery, equipment and tools		
<b>Bid no:</b>	CPTSC 15/22	<b>Reference no:</b>	

### INTRODUCTION

1. This PA-29 [Certificate of Independent Bid Determination] must form part of all bids<sup>1</sup> invited.
2. Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).<sup>2</sup> Collusive bidding is a *per se* prohibition meaning that it cannot be justified under any grounds.
3. Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
  - a. disregard the bid of any bidder if that bidder, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
  - b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.
4. This form (PA-29) serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
5. In order to give effect to the above, the attached Certificate of Bid Determination (PA-29) must be completed and submitted with the bid:

---

<sup>1</sup> Includes price quotations, advertised competitive bids, limited bids and proposals.

<sup>2</sup> Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

## CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

---

**(Bid Number and Description)**

in response to the invitation for the bid made by:

---

**(Name of Institution)**

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: \_\_\_\_\_ that:

**(Name of Bidder)**

1. I have read and I understand the contents of this Certificate.
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect.
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder.
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign the bid, on behalf of the bidder.
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
  - (a) has been requested to submit a bid in response to this bid invitation;
  - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
  - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder.

6. 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>3</sup> will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
  - (a) prices;
  - (b) geographical area where product or service will be rendered (market allocation)
  - (c) methods, factors or formulas used to calculate prices;
  - (d) the intention or decision to submit or not to submit, a bid;
  - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
  - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. 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.

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 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.

Name of Bidder	Signature	Date	Position

<sup>3</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.

# PA- 40: DECLARATION OF DESIGNATED GROUPS FOR PREFERENTIAL PROCUREMENT

Tender no: CPTSC15/22

Name of Tenderer .....

EME<sup>1</sup>  QSE<sup>2</sup>  Non EME/QSE (tick applicable box)

## 1. LIST ALL PROPRIETORS, MEMBERS OR SHAREHOLDERS BY NAME, IDENTITY NUMBER, CITIZENSHIP AND DESIGNATED GROUPS.

Name and Surname #	Identity/ Passport number and Citizenship##	Percentage owned	Black	Indicate if youth	Indicate if woman	Indicate if person with disability	Indicate if living in Rural (R) / Under Developed Area (UD) / Township (T) / Urban (U).	Indicate if military veteran
1.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
3.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
5.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
6.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
7.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
8.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
9.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
11.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
12.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No

# Where Owners are themselves a Company, Close Corporation, Partnership etc, identify the ownership of the Holding Company, together with Registration number  
## State date of South African citizenship obtained (not applicable to persons born in South Africa)

<sup>1</sup> EME: Exempted Micro Enterprise  
<sup>2</sup> QSE: Qualifying Small Business Enterprise



# PA- 40: DECLARATION OF DESIGNATED GROUPS FOR PREFERENTIAL PROCUREMENT

Tender no: \_\_\_\_\_

**2. DECLARATION:**

The undersigned, who warrants that he/she is duly authorized to do so on behalf of the Tenderer, hereby confirms that:

- 1 The information and particulars contained in this Affidavit are true and correct in all respects;
- 2 The Broad-based Black Economic Empowerment Act, 2003 (Act 53 of 2003), Preferential Procurement Policy Framework Act, 2000 (Act 5 of 2000), the Preferential Procurement Regulations, 2017, National Small Business Act 102 of 1996 as amended and all documents pertaining to this Tender were studied and understood and that the above form was completed according to the definitions and information contained in said documents;
- 3 The Tenderer understands that any intentional misrepresentation or fraudulent information provided herein shall disqualify the Tenderer's offer herein, as well as any other tender offer(s) of the Tenderer simultaneously being evaluated, or will entitle the Employer to cancel any Contract resulting from the Tenderer's offer herein;
- 4 The Tenderer accepts that the Employer may exercise any other remedy it may have in law and in the Contract, including a claim for damages for having to accept a less favourable tender as a result of any such disqualification due to misrepresentation or fraudulent information provided herein;
- 5 Any further documentary proof required by the Employer regarding the information provided herein, will be submitted to the Employer within the time period as may be set by the latter;

**Signed by the Tenderer**

<b>Name of representative</b>	<b>Signature</b>
	<b>Date</b>



<b>[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/SWORN AFFIDAVIT(FOR EMEs&amp; QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]</b>			
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]	ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ANSWER PART B:3 BELOW]
SIGNATURE OF BIDDER	.....	DATE	
CAPACITY UNDER WHICH THIS BID IS SIGNED (Attach proof of authority to sign this bid; e.g. resolution of directors, etc.)			

TOTAL NUMBER OF ITEMS OFFERED		TOTAL BID PRICE (ALL APPLICABLE TAXES)	
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:		TECHNICAL INFORMATION MAY BE DIRECTED TO:	
DEPARTMENT/ PUBLIC ENTITY		CONTACT PERSON	
CONTACT PERSON		TELEPHONE NUMBER	
TELEPHONE NUMBER		FACSIMILE NUMBER	
FACSIMILE NUMBER		E-MAIL ADDRESS	
E-MAIL ADDRESS			

## PART B TERMS AND CONDITIONS FOR BIDDING

<b>1. BID SUBMISSION:</b>
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 ONLINE
1.3. BIDDERS MUST REGISTER ON THE CENTRAL SUPPLIER DATABASE (CSD) TO UPLOAD MANDATORY INFORMATION NAMELY: ( BUSINESS REGISTRATION/ DIRECTORSHIP/ MEMBERSHIP/IDENTITY NUMBERS; TAX COMPLIANCE STATUS; AND BANKING INFORMATION FOR VERIFICATION PURPOSES). B-BBEE CERTIFICATE OR SWORN AFFIDAVIT FOR B-BBEE MUST BE SUBMITTED TO BIDDING INSTITUTION.
1.4. WHERE A BIDDER IS NOT REGISTERED ON THE CSD, MANDATORY INFORMATION NAMELY: (BUSINESS REGISTRATION/ DIRECTORSHIP/ MEMBERSHIP/IDENTITY NUMBERS; TAX COMPLIANCE STATUS MAY NOT BE SUBMITTED WITH THE BID DOCUMENTATION. B-BBEE CERTIFICATE OR SWORN AFFIDAVIT FOR B-BBEE MUST BE SUBMITTED TO BIDDING INSTITUTION.
1.5. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER LEGISLATION OR SPECIAL CONDITIONS OF CONTRACT.
<b>2. TAX COMPLIANCE REQUIREMENTS</b>
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 VIEW THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) OR PIN MAY ALSO BE MADE VIA E-FILING. IN ORDER TO USE THIS PROVISION, TAXPAYERS WILL NEED TO REGISTER WITH SARS AS E-FILERS THROUGH THE WEBSITE WWW.SARS.GOV.ZA.
2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS TOGETHER WITH THE BID.
2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE PROOF OF TCS / PIN / CSD NUMBER.
2.6 WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.

**3. QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS**

- 3.1. IS THE BIDDER A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?  YES  NO
- 3.2. DOES THE BIDDER HAVE A BRANCH IN THE RSA?  YES  NO
- 3.3. DOES THE BIDDER HAVE A PERMANENT ESTABLISHMENT IN THE RSA?  YES  NO
- 3.4. DOES THE BIDDER HAVE ANY SOURCE OF INCOME IN THE RSA?  YES  NO

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

**NB:** FAILURE TO PROVIDE ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID. AN ORIGINAL OR CERTIFIED COPY OF THE B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE.

**Note Well:**

- a) In respect of non VAT vendors the bidders may not increase the bid price under Section 67(1) of the Value Added Tax Act of 1991 where the relevant transaction would become subject to VAT by reason of the turnover threshold being exceeded and the bidder becomes liable for VAT.
- b) **All delivery costs must be included in the bid price, for delivery at the prescribed destination.**
- c) The price that appears on this form is the one that will be considered for acceptance as ***a firm and final offer***.
- d) The grand total in the pricing schedule(s), inclusive of VAT, attached to the bid offer must correlate and be transferred to this form (PA32).
- e) Where there are inconsistencies between the grand total price offer in the pricing schedule(s) and the PA32 price offer, the price offer on the PA32 shall prevail and deemed to be firm and final. No further correspondence shall be entered into in this regard.

<sup>1</sup> All applicable taxes" includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies

## DPW-09 (EC): PARTICULARS OF TENDERER'S PROJECTS

<b>Project title:</b>	<i>Supply and Delivery of Machinery, Tools &amp; Equipment</i>		
<b>Tender / quotation no:</b>	CPTSC15/22	<b>Closing date:</b>	27/01/2023
<b>Advertising date:</b>	30/11/2022	<b>Validity period:</b>	60 days

### 1. PARTICULARS OF THE TENDERER'S CURRENT AND PREVIOUS COMMITMENTS

#### 1.1. Current projects

Projects currently engaged in	Name of Employer or Representative of Employer	Contact tel. no.	Contract sum	Contractual commencement date	Contractual completion date	Current percentage progress
1						
2						
3						
4						
5						
6						
7						
8						



Tender no:

1.2. Completed projects

Projects completed in the previous 5 (five) years	Name of Employer or Representative of Employer	Contact tel. no.	Contract sum	Contractual commencement date	Contractual completion date	Date of Certificate of Practical Completion
1						
2						
3						
4						
5						
6						
7						
8						
9						

Name of Tenderer	Signature
	Date



## Bidder Quality Performance Evaluation

The Bidder to Demonstrate Competence and Experience in Delivering Machinery, Tools & Equipment.

The Employer: National Department of Public Works & Infrastructure.

We will Require References and Pose the Following Questions?

### Quality Of Previous Work

Point will be awarded for Quality of previous work by obtaining comments from the references provided by the Bidder.

BIDDER Quality/ Performance Evaluation to be done for:  
Supply and delivery of Machinery, Tools & Equipment

Performance Evaluation for Bidder Name: \_\_\_\_\_

Bidders Referenced: \_\_\_\_\_

Designation: \_\_\_\_\_

Telephone No: \_\_\_\_\_

Project Title: \_\_\_\_\_

Brief Project Description: \_\_\_\_\_

Contract Sum (Value): R.....

Date Completed: \_\_\_\_\_

### Question Table:

Please Tic in the Relevant column only:

STATEMENT	VERY POOR 1	POOR 2	AVERAGE 3	GOOD 4	EXCELLENT 5
1) Adhered strictly to the terms of contract and all contractual instructions issued by the Employer					
2) Responded promptly and timeously to Queries and complaints raised by the Employer with regards to the supply of Machinery, Tools & Equipment					
3) Manifested the required degree of Competence and Expertise in supply of machinery, tools & Equipment					

Please complete the above:

Signature of Valuator: \_\_\_\_\_

Date \_\_\_\_\_



public works  
& infrastructure  
Department:  
Public Works and Infrastructure  
REPUBLIC OF SOUTH AFRICA

**TENDER CPT SC.....**

---

**RETURNABLE DOCUMENTS**

**AND**

**SPECIAL CONDITIONS OF CONTRACT**

**FOR THE**

---

**APPOINTMENT OF A SERVICE PROVIDER**

**FOR THE**

**SUPPLY AND DELIVERY**

**OF**

**MACHINERY, TOOLS AND EQUIPMENT**

---

**FOR THE**

**DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE**

**IN THE**

**CAPE TOWN REGIONAL OFFICE**

**FOR A**

**ONCE – OFF TENDER**

---



**APPOINTMENT OF A SERVICE PROVIDER FOR THE SUPPLY AND DELIVERY OF MACHINERY, TOOLS AND EQUIPMENT FOR THE WORKSHOP DPW&I CAPE TOWN REGIONAL OFFICE FOR A ONCE-OFF TENDER**

**1. INTRODUCTION**

- 1.1 The Department of Public Works invites bids for the supply and delivery of machinery, tools and equipment for Workshop - Cape Town.

**2. DURATION OF CONTRACT**

- 2.1 The contract will be a once-off tender from the date of acceptance of the bid and offer made by the successful bidder.

**3. SUBMISSION REQUIREMENTS**

- 3.1 Bidders responding to this invitation should submit a resume of not more than 5 (five) A4 pages of typed text (excluding any other presentation material) setting out clearly or incorporating, as the case may be:

- The bidder's experience of, and track record, in the supply and delivery of machinery, tools and equipment.
- References relating to previous involvement in the execution of similar projects.
- The bidder's proven organisational and logistical ability.
- The office infrastructure, transport, equipment and inventory availability of the bidder.
- The bidder's sub-contracting relationship with suppliers / manufacturers, if any.
- The bidder's financial capacity to carry out the project.
- Contingency plans should the bidder not be able to obtain goods from suppliers or if the delivery vehicle is not available at the time of an order.

**4. SPECIAL CONDITIONS OF CONTRACT**

- 4.1 The terms of this specification and all contracts emanating therefrom will be subject to the General Conditions of Contract issued in accordance with Chapter 16A of the Treasury Regulations published in terms of the Public Finance Management Act, 1999 (Act 1 of 1999).
- 4.2 Where, however, the Special Conditions of Contract are in conflict with the General Conditions of Contract, the Special Conditions of Contract shall prevail.

**5. EVALUATION OF SUBMISSIONS**

- 5.1 Submissions will be evaluated against the following criteria

<b>Evaluation of Functionality</b>		
	<b>Criteria</b>	<b>Weights</b>
1	<b>Experience &amp; Expertise on previous contracts:</b> <i>References to be Provided</i>	<b>50</b>
2	<b>Quality of work ethic:</b> <i>References provided on DPW-09 (EC)</i>	<b>50</b>
<b>TOTAL</b>		<b>100</b>
<b>Minimum Threshold</b>		<b>50%</b>

## **6. PRICING**

- 6.1 The prices quoted must be firm for the duration of the contract and it is expected that the bidder will cover the risk of price increases in the composition of the pricing structure. All prices must be inclusive of 15% Value-Added Tax (VAT), wherever applicable.
- 6.2 The bid is based on unit prices and unit prices must include all handling, storing prior to delivery as well as delivery to the premises of the Department.
- 5.3 Exact quantities cannot be furnished and no guarantee can be given with regard to the quantities that will be ordered from the contractors.

## **7. SPECIFICATIONS & STANDARDS**

- 7.1 Unless otherwise specified, the goods supplied under this contract must comply with the relevant standards of the South African Bureau of Standards (SABS). Goods not specified with the specified standards will be returned at the cost of the supplier.
- 7.2 If items are damaged or incorrectly supplied it must be replaced with the correct items within 5 to 10 days.
- 7.3 During the evaluation process, the Department may request samples of the offered goods, which will be delivered and collected at the cost of the bidder.

## **8. ORDERS**

- 8.1 This specification and other submitted bid documents and the signed Offer and Acceptance will constitute the Contract between the successful bidder and the Department.
- 8.2 Official orders containing the descriptions and quantities of the items required will be placed with the successful bidder as and when goods are required (Not a Lump Sum).
- 8.3 Under no circumstances may the bidder provide any items unless it is specified explicitly on a signed official order. Should the successful bidder provide any goods without the supporting order, such goods will not be paid for by the Department.
- 8.4 Quantities delivered may not exceed the ordered quantity. Any over supply will be returned to the successful bidder for his/her own account.
- 8.5 Orders will be faxed to the successful bidder and the original order will be sent afterwards.

## 9. DELIVERY PERIODS

- 9.1 Delivery of goods must be made in accordance with the instructions appearing on the official order forms.
- 9.2 All deliveries or dispatches must be accompanied by a delivery note stating the official order number against which the delivery has been affected.
- 9.3 Unless otherwise specified, the goods ordered must be delivered within 5 to 10 days calculated from the date of the order.
- 9.4 Contractors **must adhere strictly** to the delivery periods stipulated by them in their bid documents.
- 9.5 The instructions appearing on the official order form regarding the supply, dispatch and submission of invoices **must be strictly adhered to**.

## 10. PAYMENTS

- 10.1 Payments will be made within 30 days of submission of an original signed and stamped invoice/s and signed delivery note of all supplied goods.
- 10.2 Invoices and delivery notes must be placed in a sealed envelope addressed to **The Department of Public Works** and deposited in the invoice boxes provided on the ground and 11<sup>th</sup> floors of Customs House. Alternatively, the invoices may be posted to the following address: Private Bag x9027, Cape Town, 8000.
- 10.3 The successful bidder shall provide the Department, completed delivery notes and invoices, upon completion of all delivered items.

## **11. CONTRACT ADMINISTRATION**

- 11.1 The successful bidder must advise the Regional Manager: Department of Public Works immediately when unforeseeable circumstances will adversely affect the execution of the contract. Full particulars of such circumstances as well as the period of delay must be furnished.

## **12. EXCLUSION OF ITEMS**

- 12.1 The Department may choose to exclude certain items from the contract, if according to the judgment of the Department an item is priced too high or it is of an inferior quality (not SABS approved).

## **13. DISCLAIMER**

- 13.1 Bidders must make and rely on their own investigations and satisfy themselves as to the correctness of any and all aspects of the bid. The Department will not be liable for any incorrect or potentially misleading information in relation to any part of this document and any accompanying bid documents.

## **14. ABSENCE OF OBLIGATION**

- 14.1 No legal or other obligation shall arise between the bidder and the Department unless and until the formal appointment documentation has been signed. The Department is not obliged to proceed with any proposals of any bidder. The Department also reserves the right to request changes to any proposed consortia.

## **15. DEFAULT / BREACH OF CONTRACT AND CANCELLATION OF THE CONTRACT**

- 15.1 In the event that the Department fails to pay the Supplier without valid reason, for 90 days, the supplier may cancel the contract by giving the Department three (3) months written notice of such cancellation.
- 15.2 Section 23 of the General Conditions of Contract will also be applicable. In case where successful bidder fails to deliver within 3 months period the Department may cancel the contract.

## **16. OTHER**

- 16.1 Inquiries can be directed as follows:

<b>Bid Enquiries</b>	:	Ms B. Sondishe Tel: (021) 402 2242
<b>Specification Enquiries</b>	:	Mr M Stephens Tel: (021) 402 2334



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Public Works and Infrastructure  
REPUBLIC OF SOUTH AFRICA

**PRICING SCHEDULE: MACHINERY, TOOLS AND EQUIPMENT FOR WORKSHOP – CAPE TOWN**

	LIST OF ITEMS TO BE PROCURED	UNIT PRICE	QUANTITY	TOTAL
	<b>Example: 1 pen</b>	R 2.00	X3	R6.00
1	<b>PORTABLE WELDING MACHINES MMA-200L ( EACH )</b> INPUT VOLTAGE: 220( V ) FRQUENCY: 50/60 ( HZ ) THE RATED DUTY CYCLE: 60% 200 ( A )	R	X3	R
2	<b>EXTENSION LEADS STAND REEL 30m LONG ( EACH )</b> MODEL:LE30MSER AMP/ VOLTAGE 16A / 250 V MAX: 3500W	R	X6	R
3	<b>PORTABLE CUT-OFF SAW MACHINE ( EACH )</b> LW: 1400 WATTS: 2000W	R	X2	R
4	<b>U-PAT IMPACT DRILL 24mm ROTARY HAMMER DRILL MACHINE HP2070 ( EACH )</b> POWER INPUT: 1010 WATT NO-LOAD SPEED: 2900 RPM MAX O DRILLING: 15mm CHUCK CAPACITY: 13mm	R	X6	R
5	<b>ELECTRIC PLANER ( EACH )</b> CONTINUOUS RATING INPUT 850W PLANING WIDTH 82mm PLANING DEPTH / REBATE 4mm / 25mm No LOAD SPEED ( r /min ) 16,000 DIMENSIONS ( L X W X H ) 290 X 168 X 176mm NET WEIGHT / POWER SUPPLY CORD 3,3Kg / 2.5m	R	X6	R
6	<b>ELECTRIC DRILL ( EACH )</b> CONTINUOUS RATING INPUT 450W CAPACITIES: STEEL 10mm WOOD: 25mm No LOAD SPEED ( r /min ) 3,000 DIMENSIONS ( L X W X H ) 228 X 64 X 183mm POWER SUPPLY CORD 2.0m CHUCK CAPACITY 1.5 – 10mm	R	X10	R
7	<b>BLOCK CUTTERS 30mm WITH 13 PROFILES ( EACH )</b> CUTTER BLOCK SIZE: 40mm X 30mm BORE BLADE THICKNESS: 4mm	R	X4	R
8	<b>DRYWALL SCREWDRIVER ( EACH )</b> CONTINUOUS RATING INPUT 570W	R	X6	R



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REPUBLIC OF SOUTH AFRICA

	CAPACITIES: DRYWALL SCREW:5mm SELF DRILLING SCREW : 6mm			
	DRIVING SHANK : 6.35mm			
	No LOAD SPEED ( r/min ) 0 - 2,500			
	DIMENSIONS ( L X W X H ) 301 X 70 X 207mm			
	NET WEIGHT: 1.8Kg			
9	<b>WOOD ROUTER 900W ( EACH )</b>	R	X6	R
	CONTINUOUS RATING INPUT 900W			
	CAPACITY / PLUNGE CAPACITY COLLET: 6,35mm / 0-35mm			
	No LOAD SPEED ( r/min ) 0 – 27,000			
	DIMENSIONS : 256 X 110 X 217mm			
	NET WEIGHT: 2,7Kg			
	POWER SUPPLY CORD 2.5m			
10	<b>WOOD ROUTER 1,850W ( EACH )</b>	R	X4	R
	CONTINUOUS RATING INPUT 1,850W			
	CAPACITY / PLUNGE CAPACITY COLLET: 12,7mm / 0-70mm			
	BASE DIAMETER No LOAD SPEED ( r/min ) 170mm – 22,000			
	DIMENSIONS;155 X 294 X 312mm			
	NET WEIGHT: 6.0Kg			
	POWER SUPPLY CORD 2.5m			
11	<b>WOOD CUTTING TABLE SAW ( EACH )</b>	R	X2	R
	MOTOR: 240 V 50Hz			
	POWER: 1800 W			
	IDLE SPEED: 5000 RPM			
	BLADE: 250 X 16 – 30 X 2- 4mm ( POSSIBLE SIZEZ THAT CAN FIT MACHINE )			
	TPI : 24-60 TPI			
	TABLE SIZE: 642 X 532mm			
	TABLE WIDTH EXSTENION LEFT: 642 X 62mm			
	TABLE WIDTH EXSTENION RIGHT: 642 X 152mm			
	CUTTING HEIGHT MAX: 80mm / 90 DEGREES, 55mm /45 DEGREES			
	HEIGHT ADJUSTMENT: 0-80mm			
	TILTING SAW BLADE 0-45 DEGREES			
	EXTRACTOR SOCKET: 35mm			
	WEIGHT: 30Kg			



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Department:  
Public Works and Infrastructure  
REPUBLIC OF SOUTH AFRICA

	DUTY CYCLE: 25% AT FULL LOAD OUT OF A 10 MINUTE CYCLE			
12	<b>SPINDLE MOULDER 30mm ( EACH )</b>	R	X3	R
	MOTOR POWER: 2800W			
	MOTOR SPEED: 2800 RPM			
	MOTOR PROTECTION: THERMAL LINK			
	CAST INON TABLE SIZE: 1000 X 360mm			
	SLINDING TABLE SIZE: 1000 X 240mm			
	SLINDING TABLE TRAVEL: 1 200mm			
	TABLE HEIGHT: 900mm			
	SPINDLE DIAMETER: 30mm			
	SPINDLE TRAVEL: 100mm			
	TABLE OPENING: 200mm			
	SPINDLE TILE: + 5° TO – 45°			
	TOOL DIAMETER MAX: 180mm			
	SPEED: 1800/3000/6000/9000 RPM			
	WEIGHT: 218/270 Kg			
	PACKING SIZE: 1150 X 730 X 1155mm			
	20 CONTAINER LOADING 22mm			
13	<b>115mm GRINDERS ( EACH )</b>	R	X12	R
	BORE DIAMETER: 22mm			
	NOISE SOUND PRESURE: 86 dB ( A )			
	NOISE SOUND PRESURE: 97 dB ( A )			
	NOISE K FACTOR: 3 dB ( A )			
	SPINDLE SIZE: M14 X 2mm			
	MAX WHEEL DIAMETER: 115mm			
	No LOAD SPEED 11000 rpm			
	VIBRATION K FACTOR: 1.5 m/sec <sup>2</sup>			
	VIBRATION: ARTICIAL WHEEL 7.5 m/sec <sup>2</sup>			
	NET WEIGHT: 1.7- 2.4 Kg			
14	<b>SKILL SAW 190mm ( EACH )</b>	R	X6	R
	CONTINUOUS RATING INPUT 1,800W			
	BLADE DIAMETER: 190mm			
	CAPACITY AT 90°: 65mm			
	CAPACITY AT 45°: 48mm			
	No LOAD SPEED ( r /min ) 2,300 – 5,000			
	NET WEIGHT: 5.2 Kg			
	POWER SUPPLY CORD 2.5m			
	VIBRATION EMISSION VALUE ah: 3m / s2			



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REPUBLIC OF SOUTH AFRICA

15	<b>12 LINE SELF LEVELLING LASER ( EACH )</b>	R	X2	R
	LASER CLASS: CLASS 2,< 1m W POWER OUTPUT			
	WATERPROOF / DUST-PROOF GRADE: IP: 5/4			
	OVERALL- ALL ACCURACY: +_ 1mm / 7m			
	LASING DIODE: 500mm			
	LINE WIDTH: 2mm /5m			
	LEVELING RANGE +_ 3°			
	LEVELING: GRAVITY PENDULUM			
	WORKING RANGE: 15- 25m			
	SELF – LEVELING : YES			
	LINE TYPE: 8/12 LINES			
	ROTATION DEGREE; 360° TURNABLE			
16	<b>50,000 LUMEN LED WORK LIGHTS DUAL HEAD WEATHER RESISTANT WITH TRIPOD STAND ( EACH )</b>	R	X10	R
	COLOR: YELLOW AND BLACK			
	MATERIAL: STEEL, ABS, COPPER			
	OVERALL DIMENSION: 29.5"L X 29.5"W X 40.5"- 73.5" H			
	OVERALL WATTAGE: 100W			
	COLOR TEMPERATURE: 5000K DAYLIGHT WHITE			
	LUMINOUS FLUX: 5000lm			
	TYPE OF BULB: LED			
	INPUT VOLTAGE: 120V AC			
	CURRENT FREQUENCY : 60HZ			
	CERTIFICATION: FCC			
17	<b>PORTABLE WORK BENCH 4 IN 1 ( EACH )</b>	R	X6	R
	DUAL HEIGHT ADJUSTMENT LEGS FOLD UNDER TO LOWER HEIGHT FOR LARGER PROJECTS			
	HEAVY- GAUGE STEEL FRAME SECURELY SUPPORTS UP TO 550 LBS			
	PORTABLE DESIGN FOLDS FOR EASY STORAGE			
	ONE- HANDED CLAMP™ SYSTEM ALLOWS CLAMPS TO BE ADJUST TOGETHER OR INDEPENDENTLY			
	ADJUSTABLE JAWS AND VERTICAL CLAMPING GIVE YOU FLEXIBILITY AND EXTENDED-RANGE TO CLAMP ODD SHAPES			
	INCLUDES FOR ADJUSTABLE SWIVEL PEGS FOR EASY CLAMPING IRREGULARLY SHAPED OBJECTS			
	LARGE WORKING SURFACE ENABLED WITH EXTRA BLOCK AND VISE- TO- WORKBENCH CONVERTER INSERT			





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18	<b>ORBITAL SANDER ( EACH )</b>	R	X10	R
	RATED POWER INPUT: 300Watt			
	No -LOAD SPEED: 5.500- 11.000 rpm			
	No -LOAD ORBITAL STROKE RATE: 11,009- 22.000rpm			
	OSCILLATING CIRCUIT DIAMETER: 2,4mm			
	WEIGHT: 2,3Kg			
	SOUND PRESSURE LEVEL 76dB ( A )			
	SOUND POWER LEVEL 80dB ( A )			
	UNCERTAINTY K: 3dB			
	RATED POWER INPUT: 300Watt			
19	<b>JIG SAW ( EACH )</b>	R	X8	R
	NO LOAD SPEED: 500-3,000 rpm			
	MAX IN WOOD: 80mm			
	MAX IN STEEL: 5mm			
	NET WEIGHT : 2.0Kg			
20	<b>BELT SANDER ( EACH )</b>	R	X6	R
	BELT SIZE: 100 X 610mm			
	NOISE SOUND PRESSURE 86dB ( A )			
	NOISE SOUND POWER 97dB ( A )			
	NOISE K FACTOR : 3Db ( A )			
	POWER RATING: 1200 Watt			
	BELT SPEED: 500m/min			
	VIBRATION K FACTOR : 1.5m/sec <sup>2</sup>			
	VIBRATION K SANDING : 2.5m/sec <sup>2</sup>			
	NET WEIGHT: 5,9Kg			
21	<b>BELT AND DISC SANDER ( EACH )</b>	R	X3	R
	BELT SIZE: 6" X 48"			
	BELT SPEED: 2,300 SFPM			
	DISC SIZE: 9"			
	DISC SPEED: 3,000 RPM			
	MOTOR : 3/4 HP ,115V, 1PH			
	ITEM WEIGHT: 140 LBS PER EA			
22	<b>230mm GRINDERS ( EACH )</b>	R	X8	R
	INPUT POWER: 2,000 Watt			
	NO LOAD SPEED: 6,600/min			
	MAX.DISC DIAMETER: 230mm			
	VOLTAGE: 240Volt			
	SPINDLE THREAD: M14			
	LENGTH: 490mm			



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Department:  
Public Works and Infrastructure  
REPUBLIC OF SOUTH AFRICA

	HEIGHT: 151mm			
	WEIGHT: 5,2Kg			
23	<b>CUT OFF SAW ( EACH )</b>	R	X3	R
	SAW TYPE: MITRE SAW			
	APPLICATION: WOOD SAW, METAL SAW			
	TYPE: PORTABLE			
	POWER SOURCE: ELECTRICITY			
	RATED VOLTAGE: 220- 240 Volt			
	RATED INPUT POWER: 1400 Watt			
	No – LOAD SPEED: 4200r/Min			
	FREQUENCY: 50Hz			
	BLADE DIAMETER: 216mm			
	MAX. CUTTING WIDTH: 120mm			
	MAX. CUTTING DEPTH: 58mm			
	DIMENSIONS: 64*60*42cm			
	WEIGHT: 32Kg			
	FUNCTION: MITRE SAW & TABLE SAW			
24	<b>CORDLESS DRILL 18 Volt ( EACH )</b>	R	X10	R
	VOLTAGE: 18V 5.0 Ah			
	CAPACITY: STEEL 13mm WOOD; 38mm ; MASONRY; 13mm			
	No LOAD SPEED: Hi 0-1300 r/min; Lo; 0-400r/min			
	MAX ,FASTENING TORQUE: IMPACTS PER MIN : Hi 0- 19500 Lo: 0-6000HARD: 62Nm- SOFT: 36N			
	DIMENSIONS: 239mm ( L ) X 97mm ( W ) X 244mm ( H )			
	WEIGHT: 1,7Kg			
	VOLTAGE: 18Volt 5.0Ah			
25	<b>RADIAL ARM SAW ( EACH )</b>	R	X3	R
	MODEL ( STANDARD ARM/LONG ARM: MRA 450/450A			
	MAXIMUM DIAMETER OF SAW: 450mm			
	MAXIMUM SAW PROJECTION: 155mm			
	CROSSCUT CAPACITY 90° : STD			
	CROSSCUT CAPACITY 45° : STD			
	HEIGHT OF WORK TABLE : 813 mm			
	MOTOR POWER: 1 PHASE			
	SPEED OF SPINDLE: 50Hz 3450rpm			
	SAW SPINDLE DIAMETER: 30mm			
	DUST OUTLET DIAMETER: 2 X 100mm			
	EXTRACTION REQUIREMENTS: 800cfm			



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Public Works and Infrastructure  
REPUBLIC OF SOUTH AFRICA

26	<b>SURFACE AND THICKNESS PLANNER ( EACH )</b>	R	X3	R
	LENGTH APPROX: 1105mm			
	WIDTH / DEPTH APPROX: 750mm			
	HEIGHT APPROX: 1075mm			
	DRIVE MOTOR OUTPUT: 87Kg			
	ABSORBED POWER DRIVE MOTOR: 1.2KW			
	SUPPLY VOLTAGE: 1.8KW			
	MAINS FREQUENCY: 50Hz			
	SUCTION HOOD CONNECTION DIAMETER: 75mm			
	SUCTION UNIT CONNECTION DIAMETER: 75mm			
	SPEED: 8.5m/min			
	MAX CUTTING DEPTH: 2mm AND 3mm			
	PLANING STOP PIVOTING RANGE: 90-45°			
	TYPE: STRIP PLANER KNIFE			
	NUMBER OF PLANING BLADES: 2 ST			
	SPEED: 6700min			
	WORKING HEIGHT MIN: 6mm			
	MAX PLANNING WIDTH: 254mm			
	WORKING LENGTH MIN: 250mm			
27	<b>GENERATOR 10KVA PORTABLE ( EACH )</b>	R	X5	R
	K V A : 10.0K V A			
	CONTINUOUS OUTPUT: 9kVA			
	MAXIMUM OUTPUT : 10kVA			
	FUEL TANK CAPACITY: 18Lt			
	CONT.WORKING TIME: 4.5hrs			
	FUEL: PETROL			
	Oil Alert : Yes			
	PRODUCTION DIMENSION L X W X H: 1050 X 730 X 850mm			
	NET WEIGHT ( Kg ) : 135 Kg			
28	<b>RECIPROCATING SAW ( EACH )</b>	R	X6	R
	HEIGHT: 178 cm			
	GROSS WEIGHT: 3.5Kg			
	DEPTH: 435cm			
	FIXING THE BLADE QUICK: NO KEY			
	STEEL CUTTING CAPACITY: 100mm			
	WOOD CUTTING CAPACITY: 280mm			
	POWER: FROM 1.000 TO 1.500 Watt			
	VARIABLE SPEED: YES			



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Department:  
Public Works and Infrastructure  
REPUBLIC OF SOUTH AFRICA

	USE; CUTTING WOOD,METAL,PLASTER,BREEZE BLOCKS AND BRICKS			
	BLADE TRAVEL : 29mm			
	MAXIMUM NO- LOAD SPEED: 0-2800 rpm			
29	<b>KEY CUTTING MACHINE ( EACH )</b>	R	X2	R
	POWER SUPPLY: 230Volt – 50/60Hz – 120Volt 60Hz			
	CUTTER MOTOR: SINGLE PHASE AND SPEED			
	CUTTER: HSS ( HIGH SPEED STEEL )			
	CUTTER SPEED : 650rpm ( 230Volt ) - rpm ( 120 Volt )			
	STANDARD CLAMP: ROTATING 4- SIDE CLAMPSN- CLAMP KNOB WITH DYNAMOMETRIC CONTROL SYSTEM			
	MOVEMENTS: ON SINTERED, SELF CLEANING AND SELF LUBRICATING BUSHING			
	CARRIAGE RUNS: 42 mm			
	DIMENSIONS: WIDTH:400mm , DEPTH: 520mm , HEIGHT :400mm			
	WEIGHT: 21.5Kg			
30	<b>LOCK MORTICE MACHINE ( EACH )</b>	R	X4	R
	POWER: 1.1KW			
	DIAMETER OF THE DRILL: 16-30mm			
	MAX REVOLVING SPEED: 23000 r/min			
	WORKING DEPTH: 0-125mm			
	WORKING LENGTH : 0-160mm			
	HOLDER WORKING LENGTH : 0-130			
	NET WEIGHT : 12.3Kg			
	SIZE: 600* 350* 530mm			
31	<b>RIVET GUN { LAZY TONG } ( EACH )</b>	R	X10	R
	SETS 3.2,4.0,& 4.8mm ALUMINIUM AND STEEL BLIND RIVETS			
	CAST IN NOSE BUSH THAT DOES NOT WORK LOOSE			
	RIVETED LATTICE TO HANDLE FIXING			
	FH- 44 IS TOUGH ENOUGH TO TAKE THE WORST ABUSE			
	IMPROVE LATTICE TO BODY FIXING			
	WEIGHT : 2.00 Kg			
	DIMENSIONS : 35.00 X 22.00 X 5.50cm			
32	<b>HANDGRIP POP RVETER ( EACH )</b>	R	X10	R
	HEAVY DUTY HAND RIVETER			
	90° HEAD FOR FASTENING RIVETS IN A VARIETY			



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Public Works and Infrastructure  
REPUBLIC OF SOUTH AFRICA

	MATERIALS			
	SPRING LOADED HANDLE EJECTS HEADS AUTOMATICALLY			
	ALL STEEL CONSTRUCTION WITH CONTOURED RUBBER GRIPS			
	FOUR NOSE PIECES FOR RIVETS SIZES: 1/8", 3/32", 5/32", 3/16			
33	<b>BAND SAW ( EACH )</b>	R	X3	R
	BAND SAW SIZE/WHEEL DIAMETER( IN ) : 14"			
	CUTTING CAPACITY WIDTH ( IN ) : 13- 1/2 "			
	CUTTING CAPACITY HEIGHT ( IN ) : 13"			
	BLADE LENGTH ( IN ) : 116"			
	BLADE SPEED ( SFPM ) : 3,000			
	TABLE SIZE ( L X W ) ( IN ) : 21" X 17"			
	MAXIMUM SAW BLADE WIDTH ( IN ) : 3/4"			
	TABLE TILT ( DEG ) : 45 RIGHT			
	TABLE HEIGHT FROM FLOOR ( IN ) : 40"			
	TABLE T-SLOT ( IN ) : 3/4 ( X 2 )			
	MOTOR POWER ( HP ) : 1.75			
	MOTOR VOLTAGE ( V ) : 115/230			
	MOTOR AMPS: 15/7.5			
34	<b>62 PIECES TOOL BOX ( EACH )</b>	R	X8	R
	TOOL BOX CONSISTS			
	18 X OPEN /CLOSE SPANNERS ( 0-23mm )			
	9 X ALLEN KEYS ( 1,5-10mm )			
	3 X PLIERS ( COMBNATION, SIDE CUTTER & LONG NOSE)			
	6 X SCREWDRIVERS ( 3 X FLAT & 3 X PHILLIPS )			
	18 X 1/2 SOCKETS ( 10-30mm )			
	1 X 1/2 RATCHET			
	1 X 1/2 UNIVERSAL JOINT			
	1 X 1/2 T BAR			
	1 X 1/2 POWER BAR			
	3 X EXSTENSIONS ( SHORT, MEDIUM & LONG			
	1 X TOOL BOX			
35	<b>ALUMINIUM SUCTION LIFT GLASS LIFTER SUCKER VACUUM WITH 3 CLAWS SILVER ( EACH )</b>	R	X8	R
	CASE MATERIAL : ALUMINIUM			
	HORIZONTAL CAPACITY MAX: 120Kg			



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Public Works and Infrastructure  
REPUBLIC OF SOUTH AFRICA

	VERTICAL CAPACITY MAX: 100Kg			
	NET WEIGHT : 1.3 Kg			
	SUCTION CUP DIAMETER: 120mm			
	HIGH STRENGTH ALUMINIUM HANDLES, NON-SLIP, SAFE DURABLE			
	FUNCTION: USED TO VACUUM GLASS, TILES FLOORS AND OTHER SMOOTH MATERIALS			
36	<b>500 L 8 HP DIESEL CONCRETE MIXER ( EACH )</b>	R	X3	R
	SPECIFICATION: CAPACITY 500 L, MOTOR 8hp DIESEL POWER			
	ENGIN, 4- STROKE			
	DRUM SPEED 30rpm			
	DIMENSIONS: 2 000 X 1090 X 1115mm			
	WEIGHT: 400Kg			
37	<b>ELECTRIC WATER TILE CUTTER ( EACH )</b>	R	X2	R
	SPECIFICATION: DC-250, 1200 ELECTRIC WET, TILE CUTTER WET SAW			
	230V- ZERO DUST - 55941			
38	<b>ELECTRIC CHIPPER ( EACH )</b>	R	X4	R
	SPECIFICATION: HM 12002 C			
	WEIGHT: 5,9Kg			
	DEMOLITION CONCRETE			
	CHISELING CONCRETE			
39	<b>HEAVY DUTY ELECTRIC JACK HAMMER / CONCRETE BREAKER ( EACH )</b>	R	X4	R
	SPECIFICATION : RATED VOLTAGE: 230 Volts			
	RATED FREQUENCY: 50Hz			
	IMPACT SPEED- 3800 BPM			
	RATED POWER: INPUT- 1200Watts			
	G,W/N,W – 18/13Kg			
	MEAS-* 49*35*25cm			
40	<b>CONCRETE CUTTER ( EACH )</b>	R	X2	R
	SPECIFICATION: ENGIN TYPE: DIESEL			
	KIPOR: 170			
	POWER KW ( HP: 3-1 ( 4.2 )			
	OPERATION MASS Kg: ( LB ) – 96 ( 215 )			
	MAX. CUTTING DEPTH cm – 9( 3.5 )			
	BLADE SIZE cm – 30-35 ( 12-14 )			



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Public Works and Infrastructure  
REPUBLIC OF SOUTH AFRICA

	DEPTH ADJUSTMENT: HANDLE ROTATION			
	DRIVING MANUAL PUSH			
	WATER TANK CAPACITY: L ( gal ) 12 ( 2.6 )			
	DIMENSION: cm 165 X 48 X 95 ( 65 X 19 X 37			
41	<b>METAL ROLLER 80KG ( EACH )</b>	R	X1	R
	SPECIFICATION: 100lb			
	VINYL FLOOR ROLLER			
	SMOOTH WORK GREAT.			
42	<b>PETROL COMPACTOR 4 STROKE 4 HP ( EACH )</b>	R	X3	R
	SPECIFICATION: WEIGHT- 73Kg			
	BASE: 330 X 280mm			
	DIMENSION: L X B X H 690 X 400 X 1115mm			
43	<b>POWER HAMMER DRILL 13mm ( EACH )</b>	R	X6	R
	SPECIFICATION: VOLTAGE RATING: - 230Volt			
	CORED/ CORDLESS – CORED			
	BRUSH/BRUSHLESS MOTOR- BRUSH			
	VOLTAGE: 650Watt			
	DRILL CAPACITY: MAONRY- 16mm			
	DRILL CAPACITY: Metal - 13mm			
44	<b>SELF LEVELLING LASER ( EACH )</b>	R	X2	R
	SPECIFICATION: LEVELLING ACURACY * 0.6mm/m			
	WORKING ENVIROMENT:- INDOOR			
	LASER CLASS; CLASS 2			
	LASER COLOUR: RED			
	POWER SOURCE : BATTERY			
45	<b>TILE CEMENT MIXER ( EACH )</b>	R	X2	R
	SPECIFICATION: VOLTS : 220 Volt			
	POWER: 2100 Watt			
	RATED FREQUENCY: 50 / 60HZ			
	RATED SPEED: 0- 800 r/min			
	COLOUR: BLUE			
	MIXING ROD SIZE> 60cm			
46	<b>MOBILE LADDER STAGES ( EACH )</b>	R	X7	R
	PLATFORM: 1780mm X 400mm			
	ADJUSTABLE PLATFORM HEIGHT: FROM 0.95m – 2,15m			
	REACH HEIGHT: UP TO 3m			
	LOCKABLE 100mm CASTERS			
	LOAD RATED: FOR 2 MEN + HAND TOOLS { 180Kg }			
	EASILY DISASSEMBLED FOR TRANSPORT			



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Public Works and Infrastructure  
REPUBLIC OF SOUTH AFRICA

	BASE DIMENSION: 800 X 2150mm			
47	<b>6 FOOT ALUMINIUM LADDERS ( EACH )</b>	R	X12	R
	WORKING LOAD : 135Kg			
	HEAVY DUTY RIVETED STEPS			
	WIDE TREAD STEPS			
	RUBBER NON- SLIP FEET			
48	<b>8 FOOT ALUMINIUM LADDERS ( EACH )</b>	R	X10	R
	WORKING LOAD : 135Kg			
	HEAVY DUTY RIVETED STEPS			
	WIDE TREAD STEPS			
	RUBBER NON- SLIP FEET			
49	<b>10 FOOT ALUMINIUM LADDERS ( EACH )</b>	R	X6	RR
	WORKING LOAD : 135Kg			
	HEAVY DUTY RIVETED STEPS			
	WIDE TREAD STEPS			
	RUBBER NON- SLIP FEET			
50	<b>12" FOOT ALUMINIUM LADDERS ( EACH )</b>	R	X4	R
	WORKING LOAD : 135Kg			
	HEAVY DUTY RIVETED STEPS			
	WIDE TREAD STEPS			
	RUBBER NON- SLIP FEET			
51	<b>10 FOOT ALUMINIUM EXSTENSION LADDERS ( EACH )</b>	R	X6	R
	HEAVY DUTY SECTIONS			
	SAFE WORKING LOAD : 135Kg			
	D- STYLE RUNG ELIMINATES TWISTING			
	EASY TO HANDLE			
	RUBBER NON- SLIP FEET			
52	<b>12 FOOT ALUMINIUM EXSTENSION LADDERS ( EACH )</b>	R	X4	R
	HEAVY DUTY SECTIONS			
	SAFE WORKING LOAD : 135Kg			
	D- STYLE RUNG ELIMINATES TWISTING			
	EASY TO HANDLE			
	RUBBER NON- SLIP FEET			
53	<b>H- FRAME ALUMINUM SCAFFOLDING 3 SET (5m)</b>	R	3 SETS	R
	ALUMINUM FRAMES: SIZE 2175m X 1030m and 1570m X 1030m			
	SIMPLE TO ERECT & DISMATILE			





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	200mm LOCKABLE CASTORS			
	S A B S APPROVED			
	<b>Scaffolding to consist of:</b>			
	6 x 2175 x 1030 Self-locking Frames			
	4 x 1570 x 1030 Self-locking Frames			
	4 x Knee Braces			
	4 x 2175 Self lock tie Bars			
	4 x 200 x 38mm Castors wheels			
	4 x Access Ladders			
54	<b>INFRA – RED HEATERS ( EACH )</b>	R	X3	R
	MAX OUTPUT 36 – 53kw			
	MAX OUTPUT 123 000 – 181 000 BTU / H			
	0.75 – 1,5 BAR PRESSURE			
	MANUAL IGNITION			
	1450m 3/h AIR DISPLACEMENT			
55	<b>HEAT GUNS ( EACH )</b>	R	X8	R
	MATERIAL PLASTIC			
	PARAMETER 221- 449 C			
	453 l/min FLOW RATE			
	OUTPUT: 750- 1300 Watt			
56	<b>PETROL WATER JET MACHINE ( EACH )</b>	R	X4	R
	POWERED: DIESEL			
	ON WHEELS { MOBILE }			
	PRESSURE BAR: 20 B			
	FLOW RATE MAX 500 l/h			
	AREA PERFORMANCE 40 m /2h			
	INLET TEMP MAX: 20 C			
	WEIGHT WITHOUT ACCESSORIES: 12,7Kg			
57	<b>AIRLESS HIGH PRESSURE SPRAYS ASPRAY- 010 ( EACH )</b>	R	X4	R
	MOTOR: 230Volt , 750Watt ,1,0hp			
	MAX PRESSURE: 22 BAR			
	STANDARD NOZZLE SIZE			
	SPRAYING WITDH: 250- 310mm			
	LENGTH OF PRESSURE HOSE: 7.6m			



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58	<b>PIPE CUTTER FOR METAL, PLASTIC, MLP CUTTER 1 (EACH)</b>	R	X4	R
	WORKING RANGE: 6 - 42mm ( 1/4-1.5/8" )			
	DIMENSIONS: 160 X 60 X 40 mm			
	WEIGHT: 550g			
	EXTRAS: INTERNAL PIPE DEBURRER, SPARE CUTTER WHEEL			
	SUITABLE FOR: CU, BRASS,AL,THIN-WALLED STEEL PIPES			
59	<b>PIPE CUTTER FOR METAL, PLASTIC, MLP CUTTER 2 (EACH)</b>	R	X4	R
	WORKING RANGE: 6 - 42mm ( 1/4-1.5/8" )			
	DIMENSIONS: 160 X 60 X 40 mm			
	WEIGHT: 550g			
	EXTRAS: INTERNAL PIPE DEBURRER, SPARE CUTTER WHEEL			
	SUITABLE FOR: STAINLESS STEEL			
60	<b>PIPE CUTTER FOR METAL, PLASTIC, MLP CUTTER 3 ( EACH</b>	R	X4	R
	WORKING RANGE: 10 - 42mm ( 3/8-1.5/8" )			
	DIMENSIONS: 166 X 67 X 54 mm			
	WEIGHT: 430g			
	EXTRAS: SPARE CUTTER WHEEL			
	SUITABLE FOR: INOX PIPES UP TO 0.2mm			
61	<b>PIPE CUTTER FOR METAL, PLASTIC, MLP CUTTER 4 (EACH)</b>	R	X4	R
	WORKING RANGE: 3 - 16mm (1/8-1.5/8" )			
	DIMENSIONS: 46 X 35 X 22 mm			
	WEIGHT: 110g			
	EXTRAS: SPARE CUTTER WHEEL, SPARE AXLE			
	SUITABLE FOR: CU, BRASS,AL,THIN-WALLED STEEL PIPES			
62	<b>PIPE CUTTER FOR METAL, PLASTIC, MLP CUTTER 5 ( EACH</b>	R	X4	R
	WORKING RANGE: 3 - 28mm (1/8-1.1/8" )			



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	DIMENSIONS: 80 X 60 X 30 mm			
	WEIGHT: 270g			
	EXTRAS: SPARE CUTTER WHEEL			
	SUITABLE FOR: CU, BRASS,AL,THIN-WALLED STEEL PIPES			
63	<b>PIPE CUTTER FOR METAL, PLASTIC, MLP CUTTER 6 ( EACH</b>	R	X4	R
	WORKING RANGE: 3 - 30mm ( 1/8-1.3/8" )			
	DIMENSIONS: 150 X 60 X 28 mm			
	WEIGHT: 305g			
	EXTRAS: INTERNAL PIPE DEBURRER, SPARE CUTTER WHEEL			
	SUITABLE FOR: CU, BRASS,AL,THIN-WALLED STEEL PIPES			
64	<b>PIPE CUTTER FOR METAL, PLASTIC, MLP CUTTER 7 ( EACH</b>	R	X4	R
	WORKING RANGE: 6 - 67mm ( 1/4-2.5/8" )			
	DIMENSIONS: 240 X 110 X 50 mm			
	WEIGHT: 755g			
	EXTRAS: INTERNAL PIPE DEBURRER, SPARE CUTTER WHEEL			
	SUITABLE FOR: CU, BRASS,AL,THIN-WALLED STEEL PIPES PLASTIC- COATED PIPES			
65	<b>PIPE CUTTER FOR METAL, PLASTIC, MLP CUTTER 8 ( EACH</b>	R	X4	R
	WORKING RANGE: 50 - 127mm ( 2-.5" )			
	DIMENSIONS: 360 X 80 X 70 mm			
	WEIGHT: 755g			
	EXTRAS: INTERNAL PIPE DEBURRER, SPARE CUTTER WHEEL			
	SUITABLE FOR: CU, BRASS,AL,THIN-WALLED STEEL PIPES PLASTIC- COATED PIPES			
66	<b>PIPE CUTTER FOR METAL, PLASTIC, MLP CUTTER 9 ( EACH</b>	R	X4	R
	WORKING RANGE: 20 - 100mm ( 1-.4" )			
	DIMENSIONS: 370 X 280 X 250mm			
	WEIGHT: 575g			



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	EXTRAS: INTERNAL PIPE DEBURRER, SPARE CUTTER			
	SUITABLE FOR: CU, BRASS,AL,THIN-WALLED STEEL PIPES PLASTIC- COATED PIPES			
67	<b>PIPE CUTTER FOR METAL, PLASTIC, MLP CUTTER 10 ( EA</b>	R	X4	R
	WORKING RANGE: 10 - 60mm ( 3/8-.2" )			
	DIMENSIONS: 370 X 100 X 55mm			
	WEIGHT: 2, 155g			
	SUITABLE FOR: STAINLESS STEEL			
68	<b>PLASTIC SHEARS 1 ( EACH )</b>	R	X4	R
	WORKING RANGE: 6 - 35mm ( 1/4-.2,3/8" )			
	DIMENSIONS: 215 X 195 X 40mm			
	WEIGHT: 740g			
	SUITABLE FOR: PP,PE,PEX,PB,PVDV,MLP			
69	<b>PLASTIC SHEARS 2 ( EACH )</b>	R	X4	R
	WORKING RANGE: 0 - 75mm ( 0-.3" )			
	DIMENSIONS: 480 X 165 X 35mm			
	WEIGHT: 1,740g			
	SUITABLE FOR: PP,PE,PEX,PB,PVDV,MLP			
70	<b>DEBURRING, CHAMFERING AND CALIBRATION DEBURRER</b>	R	X4	R
	REPLACEABLE BLADES			
	PLASTIC GRIP			
	GRIP RECESS IS RAISED AT THE END AND PREVENTS THE TOOL FROM SLIPPING OUT OF USERS HANDS			
	ONE-HANDED USE WITH THE RETRACTABLE LOCKING HEAD			
	OFFSET SURFACES PROVIDE A GOOD TORQUE			
	PLUGGABLE HANDLE ENDS FOR THE STORAGE OF ASSOCIATED BLADES			
71	<b>BENDING ( BENDERS ) PUSH BENDER 1 ( EACH )</b>	R	X4	R
	METHOD: MANUAL 90°			
	WORKING RANGE: COPPER 12-22mm ( 3/8-7/8" ) 1mm THICK SOFT			
	WORKING RANGE: ALUMININUM 12-22mm ( 3/8 -7/8" ) 1mm THICK SOFT			



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	WORKING RANGE: PRECISION STEEL 12-22mm ( 3/8-7/8") 1mm THICK SOFT			
	WORKING RANGE: STAINLESS STEEL 12 -18mm ( 3/8-7/8") 1mm THICK SOFT			
	WORKING RANGE: MLP 14-26mm ( 5/8 -7/8") 2mm THICK SOFT			
72	<b>BENDING ( BENDERS ) PUSH BENDER 2 ( EACH )</b>	R	X4	R
	METHOD: MANUAL 180°			
	WORKING RANGE: COPPER 6-18mm ( 1/4-5/8") 1mm THICK			
	WORKING RANGE: ALUMININUM 6- 18mm ( 1/4 -5/8") 1mm THICK SOFT			
	WORKING RANGE: PRECISION STEEL 6- 18mm ( 1/4 -5/8") 1mm THICK SOFT			
73	<b>PUSH BENDER 3 ( EACH )</b>	R	X4	R
	WORKING RANGE: COPPER 8-22mm ( 5/16-7/8") 1mm THICK,SEMI-HARD			
	WORKING RANGE: ALUMININUM 8- 22mm ( 5/16 -7/8") 1mm THICK SOFT			
	WORKING RANGE: PRECISION STEEL 8- 22mm ( 5/16 -5/8") 1mm THICK SOFT			
	WORKING RANGE: STAINLESS STEEL 8 -22mm ( 5/16-7/8") 1mm THICK SOFT			
74	<b>BONDING THREE- GAS WELDING ( EACH )</b>	R	X2	R
	WELDING ATTACHMENTS: 0.- 5 – 1.0mm / 1.0- 2.0mm / 2.0- 4.0mm / 4.0 – 6.0mm / 6.0 – 9.0mm			
	WING-LEVER CUTTING ATTACHMENT: 9.0-14.0mm			
	CUTTING TIPS: 12-25mm / 25-50mm			
	HEATING BURNERS: 12-100mm			
	DUEL HOSES A/O 5m			
	ACETYLENE PRESSURE REDUCER 1,5 BAR			
	OXYGEN PRESSURE REDUCER 10 BAR			
	2 X BLUE PROTECTIVE RUBBER CAPS			
	2 X RED PROTECTIVE RUBBER CAPS			
	10 PIECE BURNERS CLEANING SET			
	TORCH SPANNER			
	SAFETY IGNITER			
	REPALACEMENT FLINTS			



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	ACETYLENE CYLINDER 5L FILLED			
	OXYGEN CYLINDER 5L FILLED			
	MAXI GAS 400			
	REGULATING VALVE MAXI GAS			
	HOSE ADAPTOR MAXI GAS			
	STEEL CASE			
	DUEL TELESCOPING TRANSPORT TROLLEY			
75	<b>DIGITAL CLAMP METER ( EACH )</b>	R	X6	R
	SPECIFICATIONS: BACKLIT LCD DUAL DISP			
	MAX / MIN DATA HOLD			
	AUTO POWER OFF / RANGING			
	BAR GRAPH DISPLAY			
	NON- CONTACT VOLTAGE			
	NON- CONTACT VOLTAGE DETECTOR			
	INRUSH HOLD			
	WORK LIGHT			
	DUTY CYCLE: BAR GRAPH DISPLAY			
	MAX / MIN DATA HOLD			
	AUTO POWER RANGING			
	AUTO POWER OFF			
	K- TYPE THERMOCOUPLE			
	AC VOLTAGE: 600V - 1000V			
	DC VOLTAGE: 600V - 1000V			
	DIODE TEST			
	AC CURRENT: 600A – 1000A			
	DC CURRENT: 600A – 1000A			
	RESISTANCE: 600- 60M			
	CAPACITANCE: 6nF - 60mF			
	FREQUENCY: 60Hz – 60Hz			
	TEMPERTURE: - 40°C - 500°C			
76	<b>DIGITAL ISULATION TESTER ( EACH)</b>	R	X4	R
	ISULATION RESISTANCE			
	AUTO RANGING ON ALL RANGES			
	BAROGRAPH INDECATES TEST VOLTAGE; RISE AND DECAYCAN BE OBSRVED DURING TEST			
	VISUAL AND AUDIBLE WARNING IF EXTERNAL VOLTAGE IS PRESENT			



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	ENERAVE TM FEATURE TO EXTEND BATTERY LIFE			
	2 LINES X 16 CHAR LARGE LCD			
	AUTO – OFF			
	SHOW TEST TIME DURING ( UP TO 99.9s ) FOR EASY COMPARISON			
	RANGES TEST VOLTAGE( DC V) 1 / 2,5 5 / 10KV			
	MEASURING RANGES: 0-50 / 0-125 / 0-250 / 0- 500G			
77	<b>ANALOG ISULATION TESTER ( EACH)</b>	R	X4	R
	HIGH QUALITY TAUT BAND MOVEMENT			
	TWO CONTINUITY TEST RANGES ON "LOW OHMS			
	"COMPACT AND LIGHTWEIGHT			
	AC VOLTMETER WITH LINEAR SCALE			
	AUTOMATIC DISCHARGE OF CAPACITIVE & INDUCTIVE CIRCUIT			
	LIVE WARMING AND DISPLAY OF EXTERNAL VOLTAGE PRESENCE			
	FUSE, AIR GAP,CROWBAR AND OVERLOAD PROTECTED			
	MIRROR			
	RANGES: INSULATION RESISTANCE			
	TEST VOLTAGE: ( DC V) 250 V / 500V / 1000V			
	MEASURING RANGES: 0- 100M / 0- 200M / 0- 400M / (>1.0mAsc )			
	MEASURING RANGES: 3 / 5 ( > 200Ma SC )			
	AC VOLTAGE: 0- 600V AC			
	POWER SOURCE: 1.5V ( AA ) X 6			
78	<b>DIGITAL MULTI METER ( EACH )</b>	R	X6	R
	LARGE LED DISPLAY			
	DATA HOLD			
	TRANSISTOR TESTER			
	AUTO POWER OFF			
	°C/°F (-20-1000°C )			
	CAT II 1000V			
	CAT III 600V			
	AC VOLTAGE 2V – 750V			
	DC VOLTAGE 200V – 1000V			
	DIODE TEST			



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	AC CURRENT 2mA – 10A			
	DC CURRENT 2mA – 10A			
	RESISTANCE: 200- 200M			
79	<b>TOOL BAG : ( EACH ) TOOL BAG ( COMPRISING OF : )</b>	R	X6	R
	<b>DIGITAL MULTI METER</b>			
	AC VOLTAGE: 20V,200V,750V ( + 1.2% + 10 DIGIT )			
	CAPACITANCE: 20nF , 2000uF ( + 2,5% + 20 DIGIT )			
	DC CURRENT: 20mA, 200mA,20A ( 1.5% + 3 DIGIT )			
	DC VOLTAGE: 200mV,2m,200, 1000V ( + 0.5% + 4 DIGIT )			
	RESISTANCE: 20k,200k,20M,200M ( + 1,2% + 4 DIGIT )			
	TEMPERATURE RANGE: - 20°C TO 1000°C ( + 0.8% + 4 DIGIT )			
	HEIGHT ( H ) 40mm LENGTH ( L ) 167mm WIDTH ( W ) 88mm			
	POWER SUPPLY: 1 X 9Volt BATTERY			
	<b>DIAGONAL CUT / PLIERS: CHROME PLATED SATIN FINISH HIGH GRADE CARBON STEEL 180mm H/D</b>			
	<b>PLIERS: CHROME PLATED SATIN FINISH HIGH GRADE CARBON STEEL 180mm H/D</b>			
	5 LED HEADLIGHT ADJUSTABLE SETTINGS			
	<b>PLIERS ( LONG NOSE ): CHROME PLATED SATIN FINISH HIGH GRADE CARBON STEEL 160mm H/D</b>			
	<b>WRENCH ADJUSTABLE 200mm: OPEN END SPANNER ADJUSTABLE TO 8 INCHES</b>			
	<b>ALLEN KEY SET 9 PIECE: FOLDABLE ALLEN KEYS,WIRE SIZE RANGE ( mm<sup>2</sup> ) 1.5 - 8mm</b>			
	<b>INSULATED SCREW DRIVER SET:</b>			
	PIECE INCLUDING NEON TESTER			
	FLAT BLADE AND PHILLIPS SET			
	INSULATED – 1000V			
	<b>CRIMP TOOL: INDENT 0.5-10.0mm<sup>2</sup>,</b>			
	<b>WIRE SIZE RANGE ( mm<sup>2</sup> ) 0.5- 10.0mm<sup>2</sup>,</b>			
	<b>KNIFE RETRACTABLE: RUGGED CONSTRUCTION * BLADE STORAGE IN THE HANDLE</b>			
80	<b>TOOL CASE WITH WHEELS 72 PCS ( EACH )</b>	R	X2	R
	VDE ISULATED BI-COMPONENT TOOLS			
	SCREWDRIVERS: 2 X 75, : 4 X 100, 5.5 X 125, : 6.5 X 150 8 X 175			





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	PHO X 60, PH1 X 80, PHO, PZ2 X 100, PZ3 X 150			
	NUT DRIVERS: 10-13			
	COMBINATION PLIER: 160mm			
	UNIVERSAL KNIFE			
	AUTOMATIC STRIPPING TOOL: 0,5-4mm2			
	MEASURING TAPE: 3m			
	REWINDING CORD MARKER ( CHALK LINE )			
	BLUE CHALK: 250g			
	ALUMINIUM SPIRIT LEVEL: 220mm			
	ADJUSTABLE WRENCH			
	ALLEN WRENCH SET: 9PCS			
	DOUBLE ENDED WRENCH SET: 9PCS			
	HAMMER : 300g			
	CHISEL: 250g			
	PUNCHER CHISEL: 250g			
	HSS AND MASONRY DRILL SET 19PCS			
81	<b>CABLE ID &amp; LABEL PRINTERS ( EACH )</b>	R	X2	R
	LABEL TYPES: CONTINUOUS & DIE CUT			
	MAX WIDTH ( max ): 50, 8mm ( MAX )			
	LABEL CARTRIGES: SEPARATE RIBBON AND TAPE			
	TEXT SIZE: 4- 174pt			
	PRINT RESOLUTION: 300dpi			
	PRINT TECHNOLOGY: THERMAL TRANSFER			
	BAR CODE: CODE39, CODE 128- OTHER VIA SOFTWARE			
	BACKLIT SCREEN: YES			
	DISPLAY: COLOR LCD TOUCHSCREEN			
	KEYBOARD STYL: QWERTY			
	CONNECTIVITY OPTIONS: USB & WIFI			
	SOFTWARE COMPATIBILITY: LABEL MARK SOFTWARE & MOBILE APPS			
	POWER SUPPLY: RECHARGEABLE BATTERY ,AC ADAPTER			
82	<b>TESTING AND LEAK DETECTION ( EACH )</b>	R	X6	R
	<b>KEY FEATURES:</b> 4,3" TOUCHSCREEN OR PHYSICAL BUTTONS			
	PRESSURE AND LEAKAGE TESTING FOR GAS PIPELINES ACCORDING TO TRGI 2018			



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	LEAK RATE MEASUREMENT FOR GAS PIPELINES ACCORDING TO TRGI 2018 AND DVGW 5952			
	PRESSURE AND LEAKAGE TESTING FOR DRINKING WATER PIPELINES ACCORDING TO DIN EN 806-4			
	TESTING OF GAS PRESSURE REGULATORS			
	LONG - TERM MEASUREMENT UP TO 72 HOURS			
	RODATA SOFTWARE AND RODATA App FOR DOCUMENTATION			
	<b>TECHNICAL DATA:</b>			
	DISPLAY RESOLUTION: 480 X 272			
	DATA TRANSFER: USB,WIFI			
	BATTERY LIFE TIMS: APROX 8h TESTING TIME MAINS OPERATING POSSIBLE			
	<b>PRESSURE RANGE</b>			
	LOW PRESSURE SENSOR: PRESSURE RANGE 0.1000mbar			
	( RESOLUTION 0.1mbar / hPa )			
	HIGH PRESSURE SENSOR: PRESSURE RANGE 0.20bar / 0-2MPa			
	( RESOLUTION 0.01bar / 0.001mbar / MPa )			
	<b>LEAK RATE MEASUREMENT: LEAK RATE 0- 12l /h</b>			
	( RESOLUTION 0.1 l / h )			
	<b>SAFETY GASS: IP40</b>			
	<b>WEIGHT: 5,25kg</b>			
83	<b>LEAK DETECTION ON GAS LINES ( EACH )</b>	R	X2	R
	FOR THE DETECTION OF GAS IN ROOM AS WELL AS LEAKS IN PIPES DETECTS ALL FLAMMABLE METHANE BASED GASES			
	<b>KEY FEATURES</b>			
	LEAKS ARE OPTICALLY AS WELL AS ACOUSTICALLY DISPLAY			
	WITH THE HELP OF THE 42cm LONG,FLEXIBLE TESTING HEAD AND THE INTERGRATED LAMP, EVEN DARK AND HARD TO REACH PLACES CAN BE TESTED			
	QUICK AND PRECISE LEAK LOCATION OF EVEN THE SMALLEST LEAK SOURCE			
	THE SENSITIVITY OF THE UNIT CAN BE ADJUSTED CONTINUOSLY IN A RANGE FROM < 50ppm - 1 Vol %			
	SHOCK - PROOF SOFT CASE JACKET AND SIMPLE ONE			



	– HANDED OPERATION OF THE UNIT FOR USE ON THE BUILDING SITE			
	<b>TECHNICAL DATA</b>			
	<b>DEFECTS:</b> NATURALGAS, PROPANE, BUTANE METHANE ACETONE, ALCOHOL, AMMONIA, BENZYL , ETHYLENE , GASOLINE , HYDROGEN, INDUSTRIAL SOLVENTS , JET FUEL PAINT THINNER , NAPTHA , TOLUENE			
	SENSITIVITY: < 50ppm – 1 Vol % ( METHAN )			
84	<b>ANALOGUE MANIFOLD SET AND PRESSURE HOSES 2 – WAY MANIFOLDS</b>	R	X4	R
	PRESSURE GAUGE 80mm ,WITH PULSE – DAMPERING CLASS 1.6 EASY TO – READ , HIGH PRECISION DISPLAY			
	LARGE HAND VALVE WITH COLOUR CODING			
	LIGHT SECURE AND PRECISE OPENING AND CLOSING OF THE DIAPHRAGM VALVE MAINTENACE FREE			
	PRESSURE GAUGE WITH SHOCK - PROOF RUBBER PROTECTORS AGAINST DAMAGE			
	VALVE BODY MADE OF ALUMINIUM WITH GAUGE GLASS			
	STURDY DESPITE LOW WEIGHT MODEL			
	<b>SETS INCLUDE:</b> MANIFOLD, PRESSURE GAUGE WITH 80mm			
	" PULSE – FREE" CLASS 1,6,3 X 1,500mm PRESSURE HOSES, PLASTIC CARRYING CASE			
	<b>SUITABLE FOR:</b> R22, R134a, R407C, R404A , R410A, R32			
85	<b>ELECTRONIC REFRIGERANT SCALE IN CARRY CASE (EACH)</b>	R	X1	R
	PRECISE,EASY TO HANDLE REFRIGERANT SCALE FOR FILLING AND EVACUATION PROCESSES WIH MAXIMAL WEIGHT CAPACITY OF 120 kg			
	<b>KEY FEATURES</b>			
	RESOLUTION OF 5g ENABLES VERY PRECISE FILLING			
	WEIGHT CAPACITY SUFFICIENT FOR ALL COMMON REFIGERANT BOTTLES			
	CABLE CONNECTION ENABLES COMFORTABLE USE IN EVERY SITUATION			
	BOTTLE ADAPTOR FOR CONNECTING SMALL REFIGERANT BOTTLES ( 1L AND 1L BOTTLES )			



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	REFRIGERANT BOTTLES OF ALL SIZES HAVE ENOUGH SPACE			
	LARGE LCD DISPLAY FOR COMFORTABLE READING OF THE RESULT			
	SIMPLE USE			
	<b>TECHNICAL DATA</b>			
	WEIGHT CAPACITY: 120kg OR 264 lbs			
	ACCURACY: + / - 0,5%			
	RESOLUTION: 5g / 0.2 oz			
	WORKING TEMPRETURE: - 10 <sup>0</sup> C TO + 49 <sup>0</sup> C / 14 UP TO + 120 <sup>0</sup> F			
	CONNECTION: 1/4" SAE FOR 1 – 2 LIT BOTTLES			
	BATTERY: 9 Volt			
	PLATFORM SIZE: 230 X 230 X 53mm			
	WEIGHT: 3.28 kg			
	LARGE RUBBERISED WEIGHING PLATFORM			
	ALL SIZES OF REFRIGERANT BOTTLES HAVE ENOUGH SPACE			
	WEIGHT CAPACITY OF 120kg: WEIGHT CAPACITY IS SUFFICIENT FOR ALL COMMON REFRIGERANT BOTTLES			
	CABLE CONNECTION: ENABLES COMFORTABLE USE IN EVERY SITUATION			
	THREE OPENING KEYS: SIMPLE USE			
	1 /4 " SAE BOTTLE ADAPTOR: FOR CONNETING SMALL 1L AND 2 L REFRIGERANT BOTTLES			
86	<b>REFRIGERANT RECOVERY DEVICE ( EACH )</b>	R	X1	R
	COMPACT ,PORTABLE DEVICE FOR RECOVERY AND RECYCLING REFRIGERANTS OF ALL KINDS			
	<b>KEY FEATURES</b>			
	4 – POLE MOTOR GUARANTEES THE DURABILITY OF MACHINE			
	LOW NOISE AND VIBRATION EMISSION THANKS TO THE COMPACT DESIGN			
	INTUITIVE HANDLING MAKES IT SIMPLE AND SAFE TO USE			
	MAINTENACE – FREE OPERATION THROUGH THE OIL COMPRESSOR			
	EMPTYING OF THE DEVICE IN ORDER TO WORK WITH DIFFERENT REFRIGERANT WITH THE PURGE FUCTION			



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	SIMPLE TRANSPORT AND USE WITH THE LIGHT COMPACT PLASTIC CASING			
	<b>TECHNICAL DATA</b>			
	SUITABLE FOR: ALL REFRIGERANT OF THE TYPE – CFC – HCFC - HFC			
	ELECTRICAL DATA: 230Volt / 50 – 60Hz			
	CAPACITY: GASEOUS 0.26 kg / min, FLUID 1.85 kg / min, PUSH / PULL 6.22 kg / min			
	POWER: 370 Watt			
	HIGH PRESSURE SWITCH: 38.5 bar			
	DIMENSIONS: 490 X 244 X 353 mm			
	WEIGHT: 17kg			
	INTERGRATE HIGH PRESSURE SWITCH: PROTECTS THE INTERGRATE COMPONENTS			
	PURGE FUNCTION: EMPTYING OF REFRIGERANT RESIDUE IN THE UNIT ( SELF – CLEANING MODE )			
	SIMPLE USE: CONTROLLED DOSAGE OF THE REFRIGERANT SUPPLY			
	RESET BUTTON: RESET OF THE PRESSURE SHUT – OFF			
	REMOVABLE CABLE: PREVENTS CABLE DAMAGE			
	OIL – FREE COMPRESSOR			
	MAINTENANCE – FREE OPERATION			
	<b>THERMAL SWITCH</b>			
	PROTECTS THE UNIT FROM OVERHEATING			
	<b>LIGHT AND COMPACT PLASTIC CASING</b>			
	SIMPLE TRANSPORT AND USE			
	<b>4 – POLE MOTOR</b>			
	INCREASED TORQUE AND SERVICE LIFE			
87	<b>REFRIGERANT RECOVERY GAS STORAGE BOTTLES ( EACH )</b>	R	X3	R
88	<b>ANALOGUE MANIFOLD SET AND PRESSURE HOSES 4 – WAY MANIFOLDS</b>	R	X4	R
	PRESSURE GAUGE 80 mm ,WITH PULSE – DAMPENING CLASS 1.6			
	EASY – TO READ,HIGH PRECISION DISPLAY			
	LARGE HAND VALVE WITH COLOUR CODING			
	LIGHT SECURE AND PRECISE OPENING AND CLOSING			



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	OF THE DIAPHRAGM VALVE			
	MAINTENACE FREE			
	PRESSURE GAUGE WITH SHOCK – PROOF RUBBER PROTECTOR PROJECTS AGAINST DAMAGE			
	VALVE BODY MADE OF ALUMINIUM WITH GAUGE GLASS			
	STURDY DESPITE LOW WEIGHT MODEL			
	<b>SETS INCLUDE:</b>			
	MANIFOLD,PRESSURE GAUGE WITH 80mm			
	"PLUSE – FREE"GLASS 1,6,3 X 1,500mm PRESSURE HOSES,			
	PLASTIC CARRYING CASE			
	SUITABLE FOR: R22,R134a,R407C,R404A,R410A,R32			
89	<b>NITROGEN SET : MULTIPLE USES FOR REFRIGERATION SYSTEMS ( EACH )</b>	R	X2	R
	<b>INCLUDES</b>			
	PRESSURE REDUCING VALVE			
	CONNECTION HOSE			
	BOTTLE ADAPTOR,			
	PRESSURE GAUGE			
	NITROGEN BOTTLE AND PLASTIC CASE			
	<b>APPLICATION AREA:</b>			
	PRESSURE AND LEAK TEST WITH NITROGEN			
	FLUSHING OF THE INSTALLATION			
	NITROGEN ADMISSION DURING SOLDERING TO PREVENT SCALE FORMATION			
	<b>CONNECTION TO LARGE BOTTLES:</b> ANY SIZE OF BOTTLE CAN BE CONNECTED WITHOUT A PROBLEM			
	<b>SPRING LOADED PRESSURE REDUCING VALE:</b> SIMPLE AND SAFE HANDLING			
	<b>950 cm<sup>3</sup> NITROGEN BOTTLE INCLUDE:</b> COLPLETE SET			
	<b>FINE SCALED 1.0 PRESSURE GAUGE:</b> PRECISE READING OF THE TESTING PRESSURE 5/16" SAE ADAPTOR FOR CONNECTING TO R410 UNITS BOTTLE ADAPTOR FOR CONNECTING 950 cm <sup>3</sup> BOTTLES			
90	<b>ELECTRONIC LEAK DETECTOR IN PLASTIC CASE: ELECTRONIC LEAK DETECTION DEVICE FOR</b>			



	<b>LOCATING LEAKS IN REFRIGERATION ( EACH )</b>			
	<b>KEY FEATURES:</b>	R	X2	R
	DURABLE AND HIGHLY SENSITIVE SENSOR TIP WITH LEAK DETECTION RATE OF 3 g/a WITHIN 3 SECONDS			
	SUITABLE FOR R32			
	SIMPLE DETERMINATION OF THE REFRIGERANT CONCENTRATION			
	ADJUSTMENT OF SENSOR TIPS ZERO MEASUREMENT POINT SIMPLE DETECTION OF THE LEAK			
	REFERENCE LEAK FOR FUNCTIONALITY TEST INCLUDED			
	EASY ACCESSIBILITY OF EVEN HARD TO REACH LEAKS			
	<b>TECHNICAL DATA</b>			
	<b>LEAK STATUS:</b> LED DISPLAY			
	<b>SENSOR LENGTH :</b> 40 cm			
	<b>LEAK DETECTION RATE:</b> 3g /a WITHIN 3 SECONDS			
	<b>WEIGHT:</b> 400g			
	<b>WORKING TEMPERATURE:</b> 0° C UP TO 40° C			
	<b>VOLTAGE:</b> 6V ( AA BATTERIES INCLUDED )			
	<b>AUDIO SIGNAL :</b> COMFORTABLE USE			
	<b>7LEDs:</b> SIMPLE DETERMINATION OF THE REFRIGERANT CONCENTRATION WITH THE COLOURED SHADING			
	<b>RESET – BUTTON :</b> ADJUST TO THE SENSOR TIP ZERO POINT SETTING FOR SIMPLE LEAK LOCATION			
	<b>3 DIFFERENT SENSITIVITY LEVELS:</b> EXACT AND FAST LOCATION OF THE LEAK			
	<b>40cm LONG ,FLEXIBLE SENSOR:</b> EASY ACCESS IN HARD – TO – REACH PLACES			
91	<b>TWO – STAGE VACUUM PUMP ( EACH )</b>	R	X2	R
	<b>KEY FEATURES:</b>			
	SOLENOID CHECK VALVE TO PROTECT THE REFRIGERATION SYSTEM FROM			
	VACUUM GAUGE WITH INTEGRATED DRAG INDICATOR ENABLES SIMPLE AND QUICK CONTROL OF THE EVACUATION PROCESS			
	PROTECTS THE INTEGRATED COMPONENTS WITH THE LIGHT AND HIGH – QUALITY CASING			
	GAS BALLAST VALVE FOR REDUCTION OF WATER VAPOUR IN THE OIL CONTAINER			



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	SPECIAL FILTER REDUCES OIL MIST ON EXHAUST VENT			
	GAUGE - GLASS ENABLES EASY OIL – STAND MONITORING			
	FAST FILLING OF OIL WITHOUT SPILLING			
	NO SPECIAL FUNNEL IS NECESSARY			
	EASY ACCESS TO THE OIL DRAIN PLUG MAKES EMPTY QUICK			
	THERMAL SWITCH PROTECTS THE UNIT FROM THE MOTOR OVER HEATING			
	STAND 1/4" SAE CONNECTION AS WELL AS 5/16" SAE AND 3/8" SAE ADAPTOR INCLUDED IN DELIVERY			
	REMOVEABLE CABLE PREVENTS CABLE DAMAGE			
	<b>ERGONOMIC GAS BALLAST VALVE:</b>			
	REDUCTION OF WATER VAPOUR IN THE OIL CONTAINER			
	GUARANTEES HIGHER EVACUATION POWER AND SERVICE LIFE			
	<b>SPECIAL FILTER:</b> REDUCES OIL MIST ON EXHAUST VENT			
	<b>LIGHT AND HIGH – QUALITY CASING</b>			
	PROTECTS THE INTERGRATED COMPONENTS			
	<b>FOUR- POLE MOTOR:</b>			
	INCREASED TORQUE AND LONG SERVICE LIFE* ( ONLY WITH ROAIRVAC R32, 1.5,3.0 AND 6.0 )			
	<b>INTERGRATED SOLENOID VALVE</b>			
	PREVENTS BACKWASH OF OIL INTO THE REFRIGERATION SYSTEM			
	<b>REMOVEABLE CABLE:</b> PREVENTS CABLE DAMAGE			
	<b>INTERGRATED VACUUM GAUGE:</b>			
	SIMPLE AND FAST CONTROL OF THE EVACUATION PROCESS			
	<b>ERGONOMIC HANDLE:</b> LIGHT COMPACT AND EASY TO TRANSPORT			
	<b>PUMP RATING:</b> 9.0 CFM/ 255L / min / 5.1 m3/ h			
	<b>VACUUM STAGES :</b> 2			
	<b>FINAL VACUUM :</b> 15 micron / 0.02 mbr			
	<b>MOTOR RATING :</b> 250Watt / 1720 r/m			
	<b>VOLTAGE:</b> 230 Volts			
	<b>FREQUENCY:</b> 50 Hz / 60 Hz			





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	<b>CONNECTION WITH ADAPTOR: 1/4",5/16" SAE M 3/8" SAE M</b>			
	<b>OIL CPACITY: 330ml</b>			
	<b>WEIGHT: 11,9 kg</b>			
	<b>MANIFOLD: 50mm</b>			
92	<b>RING RATCHET SPANNER ( EACH )</b>			
	CHROME VANADIUM STEEL,DROP FORGED,CHROME - PLATED			
	<b>KEY FEATURES</b>			
	IDEAL FOR HARD – TO – REACH WITH THE FINELY TOOTHED R/L SWITCHABLE RATCHET			
	12 – EDGED ,FLAT OFFSET, ROBUST AND INDESTRUCTIBLE			
	12 X 14mm LENGTH 230 WEIGHT 200gram	R	X2	R
	13 X 17mm LENGTH 250 WEIGHT 280gram	R	X2	R
	19 X 22mm LENGTH 310 WEIGHT 440gram	R	X2	R
	24 X 22mm LENGTH 360 WEIGHT 700gram	R	X2	R
93	<b>INFRARED THERMOMETERS</b>	R	X2	R
	BACKLIT LCD DISPLAY			
	READ HOLD			
	MAX / MIN / AVG / DIFFERENTIAL DISPLAY			
	LOW BATTERY DISPLAY			
	LASER POINTER			
	°C / °F			
	<b>TEMPERATURE RANGES: -20°C – 850° C</b>			
	<b>RESOLUTION: - 0.1° C / ° F</b>			
	<b>REPEATABILITY: 0.5° C OR – 0.5%</b>			
	<b>OPTICAL RESOLUTION: 12:1</b>			
	<b>EMISSIVITY: 0,95</b>			
94	<b>DIGITAL THERMOMETER ( EACH )</b>	R	X2	R
	<b>THERMOCOUPLE TYPE : K,J,T,E</b>			
	MAX / MIN / AVG / DATA HOLD			
	AUTO POWER OFF			
	°C / °F / K			
	<b>TEMPRETURE RANGE:</b>			
	K: - 200°C - 1372°C			



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	J: - 210°C - 1200°C			
	T: - 250°C - 400°C			
	E: - 150°C - 1000°C			
	<b>RESOLUTION:</b> 0.1°C / °F /K ( < 1000° )			
	1°C / °F /K ( < 1000° )			
95	<b>MULTIFUNCTION WORK TABLE ( EACH )</b>	R	X1	R
	STRONG YET COMPACT TABLE INSTANTLY CONVERTS FROM A CLAMPING WORK TABLE TO A SAWHORSE LIGHTWEIGHT AND PORTABLE			
	<b>HEIGHT :</b> 950 cm			
	<b>DEPTH :</b> 230 cm			
	<b>WIDTH :</b> 690 cm			
	<b>LENGTH OF OBJECT WHEN SET UP ( in cm ):</b> 63.5			
	<b>WIDTH WHEN FOLDED UP ( in cm )</b> 93.7 X 12.7 X 88.9			
	<b>MAXIMUM WORK BENCH HEIGHT WHEN SET UP ( in cm ):</b> 81.3			
	<b>WORK BENCH WIDTH WHEN SET UP ( in cm ):</b> 78.7			
	<b>PACKAGING TYPE :</b> BOX			
	<b>MAXIMUM LOAD ( in kg ) :</b> 156			
	<b>TYPE OF PRODUCT:</b> FOLDING WORK BENCH			
	<b>PRODUCT NAME:</b> MULTI – FUNCTION WORKBENCH			
96	<b>REEL FLARING TOOL ( EACH )</b>	R	X2	R
	FOR PRODUCING 45° SINGLE FLARES ON COPPER PIPES 6 – 18 mm ( 1/8 – 3/4 )			
	<b>KEY FEATURES:</b>			
	CONTROLLED EXPANDING AND SHAPING OF THE PIPE WITHOUT TEARING			
	NO REDUCING IN WALL			
	NO SLIPPING OF THE PIPE			
	STURDY AND LONG LASTING			
	<b>REELING FLARING TOOL SET INCLUDES:</b>			
	REELING FLARING TOOL IN PLASTIC CASE WITH MOULD IN METRIC AND/ OR IMPERIAL FORMAT			
	<b>MODEL SET EB:</b> 6 – 8 – 10 – 12 – 14 – 15 – 16 -18 mm			
	1/8 – 3/16 – 1/4 – 5/16 – 3/8 – 1/2 – 5/8 – 3/4			
	<b>DIES METRIC:</b> 6 – 8 – 10 – 12 – 14 – 15 – 16 -18mm			
	<b>DIES IMPERIAL:</b> 1/8 – 3/16 – 1/4 – 5/16 – 3/8 – 1/2 – 5/8 – 3/4			



	<b>SQUARE CONNECTION:</b>			
	FOR MANUAL OPERATION, FOR EXAMPLE CORLESS SCREWDRIVER			
	<b>SPRING – LOADED SLIDE COUPLING:</b>			
	NO REDUCTION IN WALL THICKNESS			
	<b>MADE FROM FORGED STEEL: ROBUST AND LONG - LASTING</b>			
	<b>FLARE CONE ROTATES OFF – CENTRE IN NEEDLE BEARING</b>			
	CONTROLLED EXPANDING AND SHAPING OF THE PIPE END WITHOUT TEARING			
	<b>SELF- CENTRING DIE: HIGHEST FLARE PRECISION</b>			
	<b>ADAPTOR FOR CORLESS SCREWDRIVER</b>			
	<b>DIE AVAILABLE IN METRIC AND IMPERIAL SIZES</b>			
	PIPE WILL NOT SLIP			
97	<b>LEAK DETECTOR ( EACH )</b>	R	X2	R
	DETECTOR WALL SCANNER PROFESSIONAL			
	DEPTH INDICATION – DISPLAY OBJECTS DEPTH 150mm			
	OBJECT TRACKING – DISPLAY EXACT LOCATION OF DETECTED OBJECT			
98	<b>WATER PUMP PLIERS ( EACH )</b>	R	X10	R
	SELF – CLAMPING JAWS: NON – SLIP EVEN ON SMOOTH TUBES			
	LONG SLENDER HEAD: IDEAL FOR HARD TO REACH PLACES HARDENED GEARS			
	7 POINT SIZE ADJUSTMENT			
99	<b>4 PIECE ADJUSTABLE SPANNER SET { SHIFTING SPANNERS ( EACH )</b>	R	X10	R
	ADJUSTABLE WRENCHES: 30mm MAX JAW CAPACITY			
100	<b>PORTABLE DRAIN SEWER SNAKE HAND TOOL ( EACH )</b>	R	X4	R
	SPRING MATERIAL: 72A SPRING STEEL			
	SPRING DIAMETER: 6mm			
	MAX: DIAMETER OF SPRING HEAD: 14mm			
101	<b>CORDLESS HAMMER DRILL WITH ACCESSORIES ( EACH )</b>	R	X4	R



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	BATTERY POWER : 18Volt LITHIUM – ION			
	REVERSABLE			
	KEYLESS			
	SPEED SELECTIVE			
	NO LOAD SPEED: 2250rpm			
102	<b>BASIN TUBE SPANNER SETS ( EACH )</b>	R	X10	R
103	<b>PIPE BENDING MACHINE AND GUIDES 15mm (EACH)</b>	R	X5	R
104	<b>PIPE BENDING MACHINE AND GUIDES 22mm (EACH)</b>	R	X5	R
105	<b>ELECTRIC HIGH POWER PRESSURE WATER MACHINE ( EA</b>	R	X4	R
	OPERATIONS PRESSURE: 30 – 120 bar ( FULLY ADJUSTABLE			
	WATER OUTPUT: 71min ( 480 l/h )			
	MAX SUCTION HEIGHT : 1,5m			
	ENGINE POWER: ELECTRIC 1.6kw 220VAC			
	MOTOR SPEED: 1400rpm			
	HOSE: 10m STEEL DOUBLE BRAIDED HIGH PRESSURE HOSE WITH FEMALE CONNECTORS			
	PRESSURE REGULATION: FULLY ADJUSTABLE			
106	<b>DRAIN CLEANING MACHINE ( EACH )</b>	R	X1	R
	FLOW RATE: 650l/h			
	WORKING PRESSURE: 150bar			
	POWER RATING: 3.6kw			
	10mm HOSE 550 SPRAY LANCE TRIPLE NOZZEL			
107	<b>PIPE SEWER INSPECTION CAMERA ( EACH )</b>	R	X2	R
	7" COLOUR MONITOR			
	RADIO DISPLAY MONITOR			
	BULT IN SUN SHADE			
	BATTERY 12Volt 4000mah RECHAREABLE			
	WATER PROOF			
108	<b>PORTABLE DRAIN CLEANING MACHINE ( EACH )</b>	R	X3	R
	POWER SOURCE: AC			
	VOLTAGE: 115v			
	WATTAGE: 175.00			
	INCLUDING GUIDE HOSE, 95847 – 55 /16" X 35 { 8mm X			



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	10.7m) INNER CORE SPEED BUMP BULB AUGER			
109	<b>WALL CHASER ( EACH )</b>	R	X3	R
	AJUSTABLE GROOVE DEPTH: 20 65mm			
	GROOVE WIDTH: 3 40mm			
	NO LOAD SPEED: 5.000rpm			
	DISC DIAMETER: 230mm			
	RATED POWER INPUT: 2.400Watt			
	POWER OUTPUT: 1.670Watt			
110	<b>VACUUM CLEANER ( EACH )</b>	R	X2	R
	WET / DRY			
	POWER: 2000Watt ( 2 X 1000Watt MOTORS )			
	DRUM SIZE: 30L			
	MOBILITY: ON WHEELS			
111	<b>SOUND LEVEL DATA LOGGER ( EACH )</b>	R	X1	R
	<b>FEATURES</b>			
	MAX – MIN MEASUREMENT			
	ALARM VALUE SET – UP / A & C WEIGHTING			
	NORMAL & PEAK MODE			
	FAST & SLOW RESPONSE			
	MANUAL / AUTO MODE			
	<b>RANGES</b>			
	SAMPLING RATE: 1sec – 24hr			
	ACCURACY: + 1.4db			
	FREQ RANGE: 31.5Hz TO 8kHz			
	DYNAMIC RANGE: 50db			
	LEVEL RANGES: AUTO 30db – 130db			
	TIME WEIGHTING: FAST ( 125ms ), SLOW ( 1s )			
	READING MEMORY: 129920 POINTS FOR Dba OR dBC			
	DATA OUTPUT: USB DATA			
112	<b>DIGITAL CLAMP METER { 3 PHASE } ( EACH )</b>	R	X2	R
	<b>SPECIFICATIONS:</b>			
	LARGE BACKLID LCD DISPLAY			
	TRUE RMS			
	AUTO RANGING			
	AUTO POWER OFF			



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	MAX / MIN / DATA HOLD			
	<b>RANGES:</b>			
	DATA LOGGING			
	RS232 INTERFACE			
	( WINDOWS OS )			
	AC VOLTAGE : 0.1V – 600VAC			
	AC CURRENT 0.01A – 1000AAC			
	POWER			
	ACTIVE: 0.01 – 600Watt			
	APPARENT: 0.001 – 600VA			
	REACTIVE: 0.001 – 600VAr			
	HARMONICS: 45Hz – 65Hz			
	CONTIUIITY TEST: 1, 2 -6, 7 – 8, 9 – 10, 11 – 15 , 16 - 21			
	PF 0.3 - 1			
113	<b>MAGNETIC FIELD TESTER ( EACH )</b>	<b>R</b>	<b>X3</b>	<b>R</b>
	TESTING SOLENOIDS & RELAYS			
	IILUMINATES WHEN A MAGENTIC FIELD IS PRESENT			
	REPSONDS TO AC AND DC			
	NO METALLIC CONTACT REQUIRED			
	RESPONDS TO AC AND DC MAGNETIC FIELDS AND PERMANENT MAGNETS			
114	<b>EARTH RESISTANCE TESTERS ( EACH )</b>	<b>R</b>	<b>X2</b>	<b>R</b>
	<b>FEATURES</b>			
	AUTO POWER OFF			
	DUAL DISPLAY DIG / ANALOG			
	CLOCK DATE / TIME			
	AVERAGE VALUE			
	MEASUREMENT			
	RANGES			
	COMPENSATION RESISTANC			
	ALARM OF LIMIT SETTING			
	ALARM OF LIMIT VALUE GROUPS			
	BACKLIT LCD DISPLAY			
	DATA STORAGE 100 GROUP			
	USB 2.0 INTERFACE			
	<b>RANGES:</b>			
	3 POLE & 4 POLE EARTHING RESISTANCE			



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	TEST VOLTAGE: 20 / 48 VAC			
	TEST FREQUENCY: 94Hz / 105Hz / 111Hz / 128Hz / AFC			
	RESISTANCE: 0,1 – 30k			
	SELECTIVE MODE: 3 POLE CLAMP / 4 POLE CLAM			
	TEST VOLTAGE: 20 / 48VAC			
	TEST FREQUENCY: 94Hz / 105Hz / 111Hz / 128Hz / AFC			
	RESISTANCE: 0,1 – 10k			
	NON – AUXILIARY – POLAR MODE ( CLAMP )			
	TEST VOLTAGE: 20 / 48 VAC			
	TEST FREQUENCY: 94Hz / 105Hz / 111Hz / 128Hz / AFC			
	RESISTANCE: 0,1 – 150k			
	2 POLE RESISTANCE ( AC )			
	TEST VOLTAGE: 20 VAC			
	TEST FREQUENCY: 94Hz / 105Hz / 111Hz / 128Hz / AFC			
	RESISTANCE: 0,1 – 30k			
	2/4 POLE RESITANCE ( DC )			
	TEST VOLTAGE: 20 VAC			
	RESISTANCE: 0,1 – 3k			
	INTERFERING VOLTAGE / CURRENT / FREQUENCY			
	VOLTAGE: 1 - 50 VAC / DC			
	CURRENT: 20mA - 2A			
	FREQUENCY:16 / 400Hz			
	SOIL RESISTIVITY p			
	TEST VOLTAGE: 20 / 48 VAC			
	TEST FREQUENCY:94Hz / 105Hz / 111Hz / 128Hz / AFC			
	RESISTANCE: 0,2 – 10000m			
	RK ( WIRE COMPENSATION )			
	TEST VOLTAGE: 20 / 48 VAC			
	TEST FREQUENCY:94Hz / 105Hz / 111Hz / 128Hz / AFC			
	RESISTANCE: 0,1 – 30k			
	SHORT CIRCUIT CURRENT: < 100mA			
115	<b>PHASE SEQUENCE INDICATOR ( EACH )</b>	<b>R</b>	<b>X3</b>	<b>R</b>
	NON CONTACT PHASE SEQUENCE TESTING			
	OPEN PHASE TESTING			
	LED AND BUZZER IND			
	OPERATIONAL VOLTAGE: 75 – 1000 VAC 3PH			
	FREQ RANGE 45 – 65Hz			
	MAGNETIC MOUNTING BRACKET			



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116	<b>DIGITAL INSULATION TESTER ( EACH )</b>	R	X3	R
	<b>FEATURES</b>			
	TIMER FOR TEST FUCTION ( COUNT 3 – 5 MINUTES )			
	AUTOMATIC CIRCUIT DISCHARGE			
	CONTINUITY TEST WITH THREE PHASES			
	EXTERNAL VOLTAGE WARNING INDICATION			
	FUSE PROTECTION			
	DATA HOLD FUCTION			
	AUTO POWER OFF FUCTION			
	<b>RANGES:</b>			
	INSULATION RESISTANCE:			
	TEST VOLTAGE ( DC V ): 250V / 500V / 1000V			
	MEASURING RANGES ( AUTO RANGING ):			
	0 – 20M / 0 – 200M / 0 2000M ( 1mA )			
	AC VOLTAGE: 0 – 600 VAC			
	POWER SOURCE : 1.5V ( AA ) X 6			
117	<b>CIRCUIT BREAKER IDENTIFER ( EACH )</b>	R	X3	R
	EASY TOOL TO FIND A CIRCUIT BREAKER OR FUSE WITHOUT DISCONNECTING THE SUPPLY			
	PLUG THE TRNSMITTER INTO THE OUTLET SOCKET, USE THE RECEIVER TO SCAN DISTRIBUTION BOARD OR PANEL TO FIND THE CORRECT CIRCUIT BREAKER SUPPLYING POWER TO SOCKET			
118	<b>RCD TESTER : ( 240V ) ( EACH )</b>	R	X4	R
	VERIFIES THAT THE WIRING IS CORRECT ( NEON LIGHT INDICATION )			
	RCD TESTING WITH VARIABLE FAULT CURRENT			
	TRIP SETTING 10 – 35mA			
119	<b>SHORT CIRCUITING AND GROUNDING ( EACH )</b>	R	X2	R
	SHORT CIRCUITING AND GROUNDING EQUIPMENT FOR ELECTRICAL CABINETS AND MV INSTALLATIONS WITH UNIVERSAL CONTACT CLAMPS WITH SHORT CIRCUIT SCTION 95mm <sup>2</sup>			
	ICC: 24kA EFF / 0.5s			
	CERTIFICATE COMPLIES TO THE INTERNATIONAL STANDARD CEI EN 61230 ( CEI IEC 1230 )			





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120	<b>DIGITAL EARTH LEAKAGE TESTER ( EACH )</b>	R	X2	R
	<b>FEATURES</b>			
	CHECKS ELCB TRIP TIME & TRIP POINT ( SENSITIVITY )			
	2 TEST TYPES FOR INSTANTANEOUS ELCBs OR INVERSE AND FIXED TIME DELAY ELCBs			
	AUTO OFF AND AUTO RANGING			
	START PHASE ANGLE SELECTION ( 0° / 180° )			
	INDICATES TRIPPING PHASE ANGLE			
	IMPACT RESISTANT ENCLOSURE			
	OVER TEMPRETURE SHUT – DOWN			
	TRANSIENT PROTECTION			
	SUITABLE FOR HEAVY INDUSTRIAL USE			
	FUSED			
	<b>RANGES</b>			
	TRIP CURRENT: 0 – 1A AT 317 VAC / 50Hz			
	TRIP CURRENT RESOLUTION: 1m A			
	OPERATING VOLTAGE: ( L – E ) 100 – 450V			
	PHASE ANGLE SETTING: 0° & 180° SELECTABLE			
	TIMER – MAX: 99.999s			
	TIMER RESOLUTION: 1ms			
	TYPICAL ACCURACY:			
	TRIP – CURRENT + 1% rdg 1mA			
	TRIP – TIME + 1% rdg 1dgt			
	VOLTAGE + 3% rdg 1dgt			
	POWER SOURCE: 1.5V ( AA ) X 8			
121	<b>DICITAL ELECTRICAL COMPLIANCE TEST CASE ( EACH )</b>	R	X2	R
	<b>DIGITAL PHASE INDICATOR:</b>			
	LARGE ALLIGATOR CLIPS ALLOW FOR EASY CONNECTION & TESTING			
	90 – 600 VAC			
	50 / 60Hz			
	<b>VOLTAGE FINDER:</b>			
	AUTO POWER OFF			
	POCKET CLIP			
	CAT II 600V			
	TEST VOLTAGE: AC 100 – 240V			
	INDICATION: SOUND AND LIGHT			



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	FREQUENCY: 50 – 60Hz			
	<b>DIGITAL ELECTRIC NETWORK ANALYSER:</b>			
	BUILT – I N EARTH TESTER ( NO PER RQUIRED )			
	BUILT – I N LOOP / PSC TESTER			
	BUILT – I N VOLTMETER			
	BUILT – I N WIRING CHECKER			
	ONE PUSH BUTTON SMART CONTROL			
	DISPLAY L – N AND L – E VOLTAGES			
	DISPLAY LINE PATH IMPENDENCE			
	DISPLAY LINE EARTH IMPENDENCE			
	DISPLAY LINE NEUTRAL IMPENDENCE			
	DISPLAY PSC LINE TO NEUTRAL			
	DISPLAY PSC LINE TO EARTH			
	RE – SCROLL THROUGH PREVIOUS			
	BAT OK / LOW BATTERY INDICATOR			
	AUTO – OFF FUNCTION			
	RUGGED CASE			
	ULTRA LOW POWER CONSUMPTION			
	OPERATING VOLTAGE: 50V – 275VAC ( 50Hz )			
	BEST PERFORMANCE AT RATED VOLTAGE: 230 VAC + 20 V			
	VOLTAGE MEASUREMENT ( L – N ) ( L – E ) 50 – 280VAC ( SHINE )			
	POWER SOURCE: 1.5 ( AA ) X 6			
	<b>LOOP / EARTH / LINE IMPEDANCE:</b> 0.03 – 2000 ( AUTO : 0.03 – 2000 ( AUTO – RANGING )			
	PROSPECTIVE SHORT CUT ( PSC ) 0 – 6kA AT 230 VAC			
122	<b>PROFESSIONAL CABLE LOCATOR ( EACH )</b>	R	X2	R
	<b>BACK LIT:</b> WORK LIGHT ( TORCH )			
	TRACES CABLE OR CONDUIT IN WALLS OR FLOOR			
	TRACES FOR OPEN OR SHORT CABLES			
	SENSITIVITY OF RECEIVER ADJUSTABLE			
	<b>RANGES</b>			
	DISPLAY VOLTAGE RANGE: 12 – 400VAC / DC			
	SINGLE POLE: + 0 – 2m			
	DUAL POLE: + 0 – 5m			
	SINGLE LOOP LINE: UP TO 2.5m			



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	DEPTH OF TRACKING DEPENDS ON MATERIAL AND APPLICATION			
123	<b>HIGH VOLTAGE MULTIFUNCTION PHASING STICKS ( EACH )</b>	R	X1	R
	SYSTEM VOLTAGE: 44kV			
	FULL SCALE VOLTAGE: 48kV			
	MAXIMUM VOLTAGE : 55kV			
	TOTAL RESISTANCE: 27M			
	NEON THRESHOLD: 1.2kV			
	NEON FULLY LIT @ : 1.5kV			
	HANDLE LENGTH : 765mm			
	FRONT END LENGTH : 760mm			
	TOTAL LENGTH : 1525mm			
	TOTAL WEIGHT : + 1.5kg			
	HANDLE MATERIAL SILICONE FRONT END : FIBRE GLASS WOUND TUBING			
	OPERATING TEMPERATURE: - 25° C TO + 55° C			
	OPERATING HUMIDITY: - 20 TO + 96% RH			
	LIGHTWEIGHT ROBUST			
	DESIGNED FOR MAXIMUM SAFETY			
	CARRY CASE INCLUDED			
	NO USER ASSEMBLED PARTS			
	DUAL COLOUR CODED SCALE			
	MEASURE & TEST PHASE TO EARTH & PHASE TO PHASE			
	SELF- POWER – NO BATTERY			
	GROUND OR UNDERGROUND SYSTEMS			
	HIGH IMMUNITY TO INTERFERENCE			
124	<b>HIGH VOLTAGE 5kV INSULATION TESTER ( EACH )</b>	R	X1	R
	<b>FEATURES:</b>			
	PI ( POLARIZATION INDEX ) INDICATION			
	DAR ( DIELECTRIC ABSORPTION RATIO) INDICATION			
	AUTO – RANGING ON ALL INSULATION RANGES			
	OPTICAL USB TO RS – 232 DATA TRANSMISSION			
	VISUAL AND AUDIO WARNING OF EXTERNAL VOLTAGE PRESENCE ( > 30Vac OR 30Vdc )			
	AUTO – HOLD FUNCTION TO FREEZE READING			
	OVERLOAD PROTECTION			



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	AUTO – OFF FUCTION			
	DISPLAY TESTING DURATION FOR INSULATION MEASSUREMENT			
	ADJUSTABLE TESTING DURATION: 1 – 30 MINUTES			
	DATA CAN BE DOWNLOADED AND SAVED TO A PC OR TRANSFERRED FOR REAL - TIME DISPLAY			
	200 MEASUREMENT RESULTS CAN BE SAVED IN THE MEMORY AND RECALLED ON THE DISPLAY			
	<b>RANGES</b>			
	INSULATION RESISTANCE			
	TEST VOLTAGE: 500V / 1000V / 2500 / 5000V			
	MESUREING RANGES: 1T / 2T / 5T / 10T			
	VOLTMETER: 30 – 600V AC / DC			
	POWER SOURCE: 1.5 ( C ) X 8			
125	<b>VOLTAGE / METAL / WOOD DETECTOR ( EACH )</b>	R	X2	R
	STUD – WOOD STUD 30 X 30mm < 10mm			
	METAL – COPPER PIPE DIA 15mm <24mm			
	AC: 90 – 250VAC @ 50 – Hz : <35mm			
	SENSITIVITY CAN BE ADJUSTED			
	CAN BE USED TO ACCURATELEY DETECT THE POSITION OF PIPES AC VOLTAGE AND WOODEN STUDS			
	BATTERY : 9V INCLUDED			
126	<b>5 IN 1 DETECTOR &amp; DISTANCE ( EACH )</b>	R	X2	R
	DISTANCE MEASUREMENT: 04 – 18m			
	ACCURACY: APRROX, 0,5% + 1 DIGIT			
	RESOLUTION: 0.01 METERS			
	DETECTION			
	STUD – WOOD STUD 30 X 30mm : < 14mm			
	METAL – IRON PIPE DIA 20mm : < 25mm			
	Ac: 90 – 250VAC @ 50 – 65Hz : 5cm			
	CALCULATES AREA, VOLUME & DOES COMPUTATION OF DISTANCE			
	SIZE: 160 X 64 X 46mm			
	BATTERY: 9V incl			
127	<b>TAP &amp; DIE SET ( EACH )</b>	R	X4	R



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	TAP & DIE: M3,M4,M5,M6,M8,M10,M12			
	1 X TAP WRENCH / 1 X CIE HANDLE			
128	<b>HYDRAULIC CRIMPING TOOLS { 1 } ( EACH )</b>	R	X2	R
	CABLE SIZE: 50 – 400mm <sup>2</sup>			
	DIES INCLUDE : 50,70,95,120,150,185,240,300,400			
	OUTPUT: 130kN			
	<b>FEATURES:</b>			
	RUGGED HEAVY DUTY DESIGN			
	INSULATED FIBREGLASS HANDLES			
	AUTO OIL – BYPASS PROTECTION			
	2 – STAGE PUMPING ACTION			
	ROTATABLE HEAD 180°			
129	<b>HYDRAULIC CRIMPING TOOLS { 2 } ( EACH )</b>	R	X2	R
	CABLE SIZE: 25 – 240mm <sup>2</sup>			
	DIES INCLUDE : 16,25,35,50,70,95,120,150,185,240			
	OUTPUT: 50kN			
	<b>FEATURES:</b>			
	ROTATABLE HEAD 180°			
	SAFETY PRESSURE			
130	<b>BOLT CUTTER ( EACH )</b>	R	X6	R
	HEAVYDUTY BOLT CUTTER: 610mm ( 24" ) BOLT CUTTER			
131	<b>BOLT CUTTER ( EACH )</b>	R	X6	R
	HEAVYDUTY BOLT CUTTER: 762mm ( 30" ) BOLT CUTTER			
132	<b>CRIMPING TOOLS ( EACH )</b>	R	X4	R
	HEX HAND CRIMP FOR NON INSULATED LUGS ( 1.5 – 25mm <sup>2</sup>			
133	<b>CRIMPING TOOLS ( EACH )</b>	R	X4	R
	FOR INSULATED LUGS ( RED , BLUE , YELLOW )			
134	<b>CRIMPING TOOLS ( EACH )</b>			
	FOR INSULATED BOOT – LACE FERRULES ( 0.5 – 6.0mm <sup>2</sup> )	R	X4	R
	FOR INSULATED BOOT – LACE FERRULES ( 6 – 16mm <sup>2</sup> )	R	X4	R



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	FOR INSULATED BOOT – LACE FERRULES ( 10 – 35mm <sup>2</sup> )	R	X4	R
135	<b>BATTERY CRIMPING / CUTTING / PUNCHING TOOLS ( EACH</b>	R	X1	R
	<b>SUPPLIED WITH:</b>			
	DIES: 16,25,35,50,70,95,120,150,185,240,300mm <sup>2</sup>			
	PUNCH ROUND: 22.5,25.4,32.5,40.5,50.5,61,5mm			
	2 X BATTERIES + 1 X CHARGER ( 230VAC / 18VDC )			
	1 SET SPARE CYLINDER SEALS			
	1 SET SPARE SAFETY VALVE SEALS			
	1 X CRIMPING ADAPTOR & 1 X PUNCH ADAPTOR			
	DRAW STUDS 3/4", 7/16 + SPACER			
	SPARE BLADE CODE: BZ600 - BLADE			
	SPARE BATTERY CODE: BZ18 / 3AH			
	CRIMP SIZE :16 – 300mm <sup>2</sup>			
	CRIMP FORCE: 60KN			
	CRIMP / CHARGE: 160			
	CUT / CHARGE: 70			
	CUTTING RANGE: 40mm ( Cu/ AL + ARMOURED )			
	PUNCH / CHARGE: 100			
	PUNCHING RANGE: 22.5mm – 61.5mm			
	STROKE: 42mm			
	BATTERY: 18V / 3Ah			
136	<b>WIRE STRIPPER ( EACH )</b>	R	X4	R
	CHROME VANADIUM STEEL			
	MICRO FINISH			
	BI – MATERIAL TPR			
	0,75 TO 6mm WIRE			
137	<b>WIRE STRIPPER ( EACH )</b>	R	X4	R
	CHROME VANADIUM STEEL			
	MICRO FINISH			
	BI – MATERIAL TPR			
	6 TO 16mm WIRE			
138	<b>GLUE GUN ( EACH )</b>	R	X4	R
	POWER : 2300Watt			



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	TEMPRETURE: TEMP: 50 - 660° C			
	IMPACT SPEED: 250 – 500l /min			
	WEIGHT : 1kg			
139	<b>ROTARY HAMMER DRILLS ( EACH )</b>	R	X4	R
	POWER: 1700Watt			
	NO LOAD SPEED: 0 - 220RPM			
	AIR FLOW: 1750 – 2150ipm			
	CHUCK SIZE: SDS - MAX			
	WEIGHT: 11.5kg			
140	<b>AIR BLOWER ( EACH )</b>	R	X4	R
	POWER: 820Watt			
	NO LOAD SPEED: 16000RPM			
	BLOW RATE : 4.5m <sup>3</sup> /h			
	WEIGHT:1.8KG			
141	<b>20V CORDLESS HAMMER DRILL with Battery Charger and two Batteries ( EACH )</b>	R	X4	R
	NO LOAD SPEED: 0 – 440 / 0 - 1650RPM			
	MAX TORQUE : 50Nm			
	TORQUE SETTINGS: 20 + 1 ( DRILL ) + 1 ( HAMMER )			
	CHUCK SIZE: 2– 13mm			
	IMPACT RATE: 0 – 7920 / 0 – 24700BPM			
	FEATURES :2 SPEED			
	FORWARD / REVERSE			
	MAGNETIC BIT HOLDER			
	SPARE BATTERY			
	SIDE HANDLE			
142	<b>20V CORDLESS IMPACT DRIVER with Battery Charger and two Batteries ( EACH )</b>	R	X2	R
	NO LOAD SPEED: 0 - 2800RPM			
	MAX TORQUE : 180Nm			
	CHUCK 1/4 " HEX			
	IMPACT RATE: 0 – 3600BPM			
	FEATURES: DURABLE GEARBOX			
	FORWARD / REVERSE			
	MAGNETIC BIT HOLDER			
	SPARE BATTERY			



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143	<b>20V CORDLESS IMPACT WRENCH with Battery Charger and two Batteries ( EACH )</b>	R	X2	R
	NO LOAD SPEED: 0 - 2800RPM			
	MAX TORQUE : 250Nm			
	CHUCK 1/2 " SQUARE			
	IMPACT RATE: 0 – 3600BPM			
	FEATURES: DURABLE GEARBOX			
	FORWARD / REVERSE			
	SPARE BATTERY			
144	<b>20V CORDLESS ANGLE GRINDER with Battery Charger and two Batteries ( EACH )</b>	R	X4	R
	NO LOAD SPEED: 10000RPM			
	BLADE SIZE: DISC: 115 / 125			
	BORE: 22mm			
	FEATURES: SPINDLE LOCK			
	QUICK CHANGE GUARD			
	3 – POSITION HANDLE FIXING			
	SPARE BATTERY			
145	<b>18V CORDLESS JIG SAW with Battery Charger and two Batteries ( EACH )</b>	R	X4	R
	POWER: 18V Ni –cd BATTERY			
	NO LOAD SPEED: 1700RPM			
	CUTTING CAPACITY: WOOD 50mm / MILD STEEL 3mm / BEVEL ANGLE RANGE 0 - 45°			
	SPARES: WOOD BLADE / BATTERY 18V / BATTERY CHARGER			
146	<b>BENCH VICE SWIVEL HEAVY DUTY 150mm ( EACH )</b>	R	X4	R
147	<b>THREE PHASE GENERATORS 400VAC ( EACH )</b>	R	X1	R
	RATED OUTPUT : KVA / KV 6.25 / 5			
	RATED CURRENT ( A ) : 8.2			
	STARTING ELECTRIC + RECOIL 12VDC O/P RATED CURRENT 8.3			
	ENGINE TYPE: SINGLE CYLINDER 4 STROKE			
	FUEL TANK: 12.5L			
	DIPLACEMENT CC : 418			





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	RUN TIME 3/4 LOADING ( Hours ) 6.5			
	NORM RUN SPEED ( RPM ) 3000			
	SIZE L X W X H ( mm ) 745 X 485 X 700			
	DRY WEIGHT 105kg			
	NOISE LEVEL ( 7m ) 85Db			
	STANDARD ITEMS: FUEL GAUGE, VOLTMETER, AC CIRCUIT BREAKER			
	BATTERY ( ELECTRIC START ONLY )			
148	<b>DIGITAL GENERATORS ( EACH )</b>	R	X1	R
	RATED OUTPUT : KVA / KV 3,5kVA / 3000w			
	START: RECOIL			
	DC OUTPUT: 12 V / 4A			
	FUEL TANK: 5.7L			
	FUEL: UNLEADED PETROL			
	APPROX RUN TIME: 4.6 HOURS			
	NOISE LEVEL ( 7m ) 63Db			
149	<b>THERMAL IMAGING CAMERAS ( EACH )</b>	R	X1	R
	HIGH – RESOLUTION THERMAL SENSOR 76,800 TEMPERATURE PIXELS FOR MAXIMUM IMAGE CLARITY AND SENSITIVITY			
	ADJUSTABLE EMISSIVITY CALIBRATE FOR REFLECTIVE SURFACES WHEN ACCURACY IS CRITICAL			
	SPAN & LEVEL: ISOLATE AND CAPTURE THE THERMAL DETAILS THAT MATTER			
	WIDE, 32 – DEGREE FIELD OF VIEW EASILY SCAN A LARGE AREA TO IDENTIFY			
	EASILY SCAN A LARGE AREA TO IDENTIFY EASILY SCAN A LARGE AREA TO IDENTIFY POTENTIAL HAZARDS IN SECONDS			
	FOCUSABLE LENS FOR QUICK IDENTIFICATION			
	UTILIZES THE POWER AND DISPLAY OF YOUR SMARTPHONE, INTUITIVE, FREE MOBILE APP AVAILABLE ON GOOGLE PLAY AND ITUNES APP STORE			
	COMES WITH ITS OWN WATER PROOF CASE			
	<b>SPECIFICATIONS</b>			
	THERMAL SENSOR: 320 X 240			
	DEFECTIVE DISTANCE: 550 METERS			
	FIELD OF VIEW: 32°			



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	TEMPERATURE RANGE: 40°C TO 330°C			
	FRAME RATE: < 15Hz FAST FRAME			
	TEMP DISPLAY SCALE: FAHRENHEIT OR CELSIUS OR KELVIN			
	COLOUR: PALETTES 9 OPTION			
	CONSUMPTION: UP TO 280m W			
150	<b>REVEAL SHOT RANGE IP54 ( EACH )</b>	R	X1	R
	MORE PIXELS, MORE PRECISION – MORE RESOLUTION THAN THE COMPETITION, BEST IN CLASS THERMAL RESOLUTION			
	SEEK FUSION TN TECHNOLOGY – SEE EXACTLY WHAT YOUR LOOKING AT WITH COMBINED VISIBLE THERMAL IMAGES			
	LARGE COLOUR TOUCH SCREEN – 3,5" COLOUR TOUCHSCREEN WITH 640 X 480 RESOLUTION			
	WI – FI LIVE VIEW – STREAM A LIVE THERMAL VIEW ONTO YOUR SMARTPHONE OR TABLET			
	UP TO 4hrs CONTINUOUS THERMAL IMAGING			
	3 CUSTOMIZABLE SPOT TEMPERATURE			
	3 CUSTOMIZABLE AREA BOXES			
	ADJUSTABLE SPAN & EMMISIVITY			
	<b>SPECIFICATIONS:</b>			
	THERMAL SENSOR: 206 X 156 320 X 240			
	Frame rate ≤ 9 Hz			
	Temp Display Fahrenheit, Celsius or Kelvin			
	Colour Palettes 8 option			
	Storage Media: 4GD Internal Drive			
	<b>Sub Total</b>			R
	<b>VAT to be added if VAT Vendor (15%)</b>			R
	<b>Grand Total</b>			R
	<b>Total Price in Words</b>			

**NB: Grand Total must be transferred to PA-32: Part B as Total Bid Price, failure to do so will invalidate the bid for further evaluation. For VAT vendors, it is mandatory to include VAT in their bid price.**



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**Terms and conditions:**

- The Department reserves the right to request any additional information and / samples of items.
- Failure to comply with product specifications & inability to meet delivery time will render your bid invalid / non responsive
- All goods supplied must be approved by the South African Bureau of Standards (SABS)
- Provision to be made for exchanges.
- All items supplied with warranty and guarantee slips to the Department.
- The Department reserves the right to return poor quality machinery, tools and equipment at no cost to the Department, all items will be checked.
- Pricing schedule must be adequately completed (All items must be priced).
- No additional claims for whatever reason, except increase or decrease in VAT will be entertained.
- The Department reserves the right to negotiate with bidders who are excessively high in their offers.
- Grand Total must be transferred to PA-32: Part B as Total Bid Price, failure to do so will invalidate the bid for further evaluation.
- For VAT vendors, it is mandatory to include VAT in their bid price.

**AUTHORIZED SIGNATURE:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**BIDDERS NAME:** \_\_\_\_\_



### **PA-18.1: DECLARATION OF INTEREST AND CONFIDENTIALITY: BID EVALUATION COMMITTEE**

**Date of Meeting: 01 September 2022**

**Project Description: SUPPLY AND DELIVERY OF MACHINERY AND TOOLS FOR NDPWI WORKSHOPS**

**DECLARATION:**

By having signed against my name in the table below, I declare and confirm that, on the date displayed above, I:

- a. Attended the meeting of the above-cited Committee;
- b. Remained in attendance for the full duration of the meeting unless otherwise stated in the Minutes;
- c. Am duly authorised to participate in the proceedings of the above-cited Committee;
- d. Have no known interest or relationship with any of the manufacturers, importers, exporters, distributors, agent etc. of building materials or systems or patented articles or any person(s) connected to any of those mentioned that may impair my judgement in any way, and, in the event that the afore does not apply, disclose details thereof and recuse myself from the meeting.

I further declare and confirm, that I, in respect of any and all documentation and information, provided to me before and/or during the meeting, as well as in relation to the discussion held during the meeting:

- a. Considered relevant legislation which may find application in the composition of, and evaluation contained in, the bid/tender document;
- b. Objectively applied my mind and exercised administrative justice in a lawful, reasonable and fair manner to ensure that the principles of fairness, equitability, transparency, competitiveness and cost-effectiveness will be advanced in the manner the bid/tender document has been composed and the specifications described and if not, to withhold support for the bid/tender document and recommend corrections to be made for resubmission to the Committee;
- c. Scrutinised the bid/tender document for general correctness;
- d. Accept that all information, whether conveyed by verbal or written medium, and any decisions taken in Committee, is of confidential nature and undertake not to divulge any thereof to person(s)/ entities/ organisations not authorised to receive such.

No:	Position:	Rank:	Name:	Signature:	If declared state particulars:
1	CHAIRPERSON				
2	MEMBER				
3	MEMBER				
4	MEMBER				
5	MEMBER				
6					
7	MEMBER				
8	BID SECRETARIAT	AAO	S. QHEKRU		

Any reference to words "Bid" or Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

For Internal Use

Effective date April 2014  
Version: 1.0