

Lovedale TVET College

- Lovedale TVET Headquarters • 1 Amatola Row • Qonce • Eastern Cape • 5600
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INVITATION TO BID

PROJECT NAME	PURCHASE OF TOOLS AND EQUIPMENT FOR THE ELECTRICAL WORKSHOP: ZWELITSHA CAMPUS
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REFERENCE: LTVEC-002/2025

CLOSING DATE: 03 November 2025

CLOSING TIME: 11:00am

SBD1

**YOU ARE HEREBY INVITED TO SUBMIT A TENDER FOR SUPPLY AND
DELIVERING TOOLS AND EQUIPMENT FOR ELECTRICAL WORKSHOP:
ZWELITSHA CAMPUS**

BREIFING SESSION

BRIEFING TIME: NO BRIEFING REQUIRED

BRIEFING DATE:

VENUE:

REQUEST FOR QUOTE TENDER CONTACT PERSONS:

Enquiries should be directed to:

Mr. S. Dlamini: Email: senzo.dlamini@lovedale.org.za Tel: 087 238 2223 (Bidding process)

Mr. P Moni: Email: patuxolo.moni@lovedale.org.za Tel: 087 238 2223 (Technical queries)

SUBMISSION OF TENDER DOCUMENTS

Tenders must be submitted in a sealed envelope with the project name completely marked on the address below:

CLOSING TIME: 11H00

CLOSING DATE: Monday 03 November 2025

VENUE: LOVEDALE TVET COLLEGE HEADQUARTERS

Bids submitted after the closing time and date will not be considered.

NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE

THE FOLLOWING PARTICULARS MUST BE PROVIDED:

(FAILURE TO DO SO MAY RESULT IN YOUR BID BEING DISQUALIFIED)

NAME OF BIDDER

POSTAL ADDRESS

STREET ADDRESS

CELLPHONE NUMBER TEL NUMBER

VAT REGISTRATION NUMBER EMAIL

NAME OF SIGNATORY.....

SIGNATURE OF BIDDER DATE:

CAPACITY UNDER WHICH THIS BID IS SIGNED:

TOTAL BID PRICE INCLUDING VAT



higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

LOVEDALE TVET COLLEGE



BID NOTICE

TENDER DESCRIPTION	TENDER NUMBER	Enquiries	CLOSING DATE
SUPPLY TOOLS AND EQUIPMENT FOR THE ELECTRICAL WORKSHOP: ZWELITSHA CAMPUS	LTVETC- 002/2025	Mr S. Dlamini Tell: 087 238 2223 Email: senzo.dlamini@lovedale.org.za	03 November 2025 CLOSING TIME: 11:00am

Documents will be available from the 19th of October 2025. Bidders are requested to price on the given tender document and not submit their pricing in any other form than the provided document. Tender documents must be submitted before 11:00am at the stated location and failure to do so will result in disqualification.

THE FOLLOWING MANDATORY DOCUMENTS MUST BE SUBMITTED WITH THE TENDER DOCUMENT AND FAILURE TO SUBMIT WILL LEAD TO THE QUOTATION BEING DECLARED NON-RESPONSIVE:

- A company registration document with CIPC
- Valid Tax Compliance Status documents with PIN from SARS must be attached.
- A certified ID copy/ies of company director/s.
- Proof of business address or residence.
- If the amount in SBD 1 differs from the amount in SBD 3.1 it will automatically invalidate the offer submitted.
- Proof of registration with Central Supplier Database (CSD) must be attached.
- Detailed Bill of Quantities (BOQ) filled with black ink (No filling with other ink)
- Completion of all SBD's.

Please note the following:

- BID documents must be completed with non-erasable ink. Any BID document completed with pencil will not be acceptable and shall be disqualified.
- Ensure that there are no errors or omissions as this may lead to Quotations being declared nonresponsive.
- The submission should be entirely legible. Any changes made to the original text of bid should be crossed through and signed for.
- DO NOT USE CORRECTION FLUID as this may invalidate your submission.

Evaluation Criteria for this procurement will be as follows:

- **Price and Preferential Points System.**
- **Price Evaluation will be evaluated.**

Price Points	= 80
Specific Goals	= <u>20</u>
TOTAL	=100

SPECIFIC GOALS	POINTS ALLOCATED OUT OF 20	DOCUMENTATION TO BE SUBMITTED BY BIDDERS TO VALIDATE THEIR CLAIM FOR POINTS
Black ownership: An EME or QSE which is at least 51% owned by black people	6	• CIPC (Company registration) • CSD report clearly indicating the percentage shareholding of all owners, (the ownership status of the 2 documents must correspond in order to be awarded points)
Women ownership: An EME or QSE which is at least 51% owned by women	6	• CIPC (Company registration) • CSD report clearly indicating the percentage shareholding of all owners, (the ownership status of the 2 documents must correspond in order to be awarded points)
Youth ownership: An EME or QSE which is at least 51% owned by youth. (up to 35 years of age)	4	• CIPC (Company registration) • CSD report clearly indicating the percentage shareholding of all owners, (the ownership status of the 2 documents must correspond in order to be awarded points)
Disability: An EME or QSE which is at least 51% owned by people with disability	4	• CSD report clearly indicating the percentage shareholding of all owners, (the ownership status of the 2 documents must correspond in order to be awarded points) Medical certificate. • SASSA registration or confirmation of disability from a relevant authority.
Non – submissions	0	• No points will be claimed if the bidders failed to submit the required documents

SPECIFIC GOAL POINTS BREAKDOWN: TOTAL = 20

SPECIFICATION

SPECIFICATION FOR SUPPLY & DELIVERY OF TOOLS AND EQUIPMENT FOR THE ELECTRICAL WORKSHOP: ZWELITSHA CAMPUS

BACKGROUND

Lovedale TVET College is seeking goods from suitable suppliers to supply and deliver tools and equipment for the electrical workshop at Zwelitsha Campus.

SCOPE

The supplier must supply and deliver the tools and equipment as specified in ANNEXURE A attached, ensuring all items are original, brand new, and unused. The equipment must be suitable for industrial and professional use in an educational setting, not for residential or home-based applications.

Description of items needed	Item specification	Quantity of items needed
See Annexure A	See Annexure A	See Annexure A
NB * Suppliers delivering tools and equipment for the electrical workshop must ensure that long-term machinery and panels are tested upon delivery to verify proper operation. Additionally, suppliers are required to provide all necessary documentation, including warranties and user manuals, with the delivery.		

PLEASE NOTE:

- Wherever a brand name is specified in this bid document (i.e. in the specifications, pricing schedule or bill of quantities or anywhere in this document), the College's requirement is not limited to the specified brand name but requires an item similar/equivalent or better than specified.
- Any specification related enquiries may be directed to Mr. P Moni at 087 238 2223 Ext 4 028

EXPECTED DELIVERABLES AND OUTPUTS

The timely supply, deliver and install the specified tools and equipment on **Annexure A**, to be fully operational and accompanied by all necessary documentation, such as warranties and user manuals.

No	Campus Name	Address
1.	Zwelitsha Campus	1 Gert Goosen Rd, Zwelitsha, Qonce, 5608 (Next to SAPS EC Provincial Offices)

- A successful supplier is required to deliver within Three (3) weeks on receipt of a purchase order.
- Supply all required equipment in accordance with the specifications outlined in **Annexure A**.
- Where the tendered models are either discontinued or replaced, the replacement items must be equivalent to or better than tendered items.

SBD 3.1**PRICE SCHEDULE****BIDDER:** _____

ITEM	Total Amount in words - VAT Inclusive
Supply Tools and Equipment for the Electrical Workshop: Zwelitsha Campus	

TOTAL**R** _____**Total must be transferred to SBD 1, failure to do so will lead to the Bid being disqualified.****Pricing Instructions: The quotation must be inclusive of all costs including i.e. delivery fees and disbursements.**

1.1. By signing the Price Schedule, a bidder warrants that:

- 1.1.1. the relevant quotation is correct;
- 1.1.2. the rates(s) and prices(s) quoted cover all the work/item(s) specified in the quotation document;
- 1.1.3. the rate(s) and price(s) cover all the supplier's obligations under a resulting contract, including all disbursements;
- 1.1.4. any mistakes and/or omissions regarding rate(s) and price(s) or errors in calculation shall be at the supplier's risk.
- 1.1.5. The total price quoted must be VAT inclusive for VAT vendors.

SIGNED at _____ **(place) on the** _____ **day of** _____, 20____._____
Signature_____
DatePrint name: _____
On behalf of the Supplier (duly authorized)

CONDITIONS OF THE REQUEST FOR QUOTATION

General

1. This BID is not intended to form the basis of a decision to enter into any transaction involving Lovedale TVET College and does not constitute an offer or recommendation to enter into such transaction, or an intention to enter any legal relationship with any person.
2. The BID has been compiled by Lovedale TVET College and is being made available, on the same basis to all Bidders.
3. Bidders submitting a Bid in response to this RFQ (Request for quotation) will be deemed to do so on the basis that they acknowledge and accept the terms set out below. Neither Lovedale TVET College nor any of their respective directors, officers, employees, agents, representatives, or advisors will assume any obligation for any costs or expenses incurred by any party in or associated with preparation or submitting a Bid in response to the RFQ.
4. The bidder is responsible for all the costs that they shall incur related to the preparation and submission of the bid document.
5. Kindly note that Lovedale TVET College is entitled to amend any bid conditions, validity period, specifications, or extend the closing date of bids before the closing date.
6. A one-year/standard warranty must be available on delivery of the tools and equipment inspected, demonstrated and calculated, failure to do so will result in delay of payment.
7. The Lovedale Tvet College reserves that right not to accept the lowest bid price of any tender in part or in whole. It normally awards the contract to the bidder who proves to be fully capable of providing the required items and who is financially advantageous to Lovedale Tvet College. **Financial viability and risk assessment will be a contributing factor to the award.**
8. The Lovedale Tvet College reserves the right to accept any Bid in whole or in part. Where a Bid is accepted in part, the price shall be adjusted in accordance with the pricing schedule indicated on the Bid.
9. The Lovedale Tvet College also reserves the right to award this bid to a pure empowerment entity.
10. All communication and attempts to solicit information of any kind relative to this tender should be in writing and channeled to: senzo.dlamini@lovedale.org.za

DECLARATION OF INTEREST

1. Any legal person, including persons employed by the state*, or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid (includes a price quotation, advertised competitive bid, limited bid or proposal). In view of possible allegations of favoritism, should the resulting bid, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority and/or take an oath declaring his/her interest, where-
 - the bidder is employed by the state; and/or
 - the legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the bid(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.
2. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.
 - 2.1 Full Name of bidder or his or her representative:
.....
 - 2.2 Identity Number:
.....
 - 2.3 Position occupied in the Company (director, shareholder etc):
.....
 - 2.4 Company Registration Number:
.....
 - 2.5 Tax Reference Number:
.....
 - 2.6 VAT Registration Number:

* "State" means –

- (a) any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);
- (b) any municipality or municipal entity;
- (c) provincial legislature;
- (d) national Assembly or the national Council of provinces; or
- (e) Parliament.

- 2.7 Are you or any person connected with the bidder presently employed by the state? **YES / NO**

- 2.7.1 If so, furnish the following particulars:

Name of person / director / shareholder/ member:

Name of state institution to which the person is connected:

Position occupied in the state institution:

Any other particulars:

.....

.....

2.8 Did you or your spouse, or any of the company's directors / shareholders / members or their spouses conduct business with the state in the previous twelve months? **YES / NO**

2.8.1 If so, furnish particulars:

.....

.....

2.9 Do you, or any person connected with the bidder, have any relationship (family, friend, other) with a person employed by the state and who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

2.9.1 If so, furnish particulars.

.....

.....

2.10 Are you, or any person connected with the bidder, aware of any relationship (family, friend, other) between the bidder and any person employed by the state who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

2.10.1 If so, furnish particulars.

.....

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2.11 Do you or any of the directors /shareholders/ members of the company have any interest in any other related companies whether or not they are bidding for this contract? **YES / NO**

2.11.1 If so, furnish particulars:

.....

.....

.....

DECLARATION

I, THE UNDERSIGNED (NAME).....

CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 2.1 TO 2.11.1 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY ACT AGAINST ME IN TERMS OF PARAGRAPH 23 OF THE GENERAL CONDITIONS OF CONTRACT SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of bidder

DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

1. This Standard Bidding Document must form part of all Quotations invited.
2. It serves as a declaration to be used by institutions in ensuring that, when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
3. The bid of any bidder may be disregarded if that bidder or any of its directors have-
 - a. abused the institution's supply chain management system;
 - b. committed fraud or any other improper conduct in relation to such system; or
 - c. failed to perform on any previous contract.
4. **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

Item	Question	Yes	No
4.1	Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector? (Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the audi alteram partem rule was applied). The Database of Restricted Suppliers now resides on the National Treasury's website (www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.	Yes ☐	No ☐
4.1.1	If so, furnish particulars:		
4.2	Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.	Yes ☐	No ☐
4.2.1	If so, furnish particulars:		
4.3	Was the bidder or any of its directors convicted by a court of law (including a court outside of the Republic of South Africa) for fraud or corruption during the past five years?	Yes ☐	No ☐
4.3.1	If so, furnish particulars:		
4.4	Was any contract between the bidder and any organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes ☐	No ☐
4.4.1	If so, furnish particulars:		

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME) _____
CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS TRUE AND
CORRECT.

I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN
AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

Signature

20
Date

Position

Name of Bidder

CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This Standard Bidding Document (SBD) must form part of all Quotations¹ 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).² 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.

This SBD serves as a certificate of declaration that would be used by institutions to ensure that, when Quotations are considered, reasonable steps are taken to prevent any form of bid-rigging.

In order to give effect to the above, the attached Certificate of Bid Determination (SBD 9) must be completed and submitted with the bid:

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

Bid No _____ Description _____
(Bid Number and Description)

in response to the invitation for the bid made by Lovedale TVET College, 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)

I have read and I understand the contents of this Certificate;

I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;

I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;

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;

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.

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 consortium³ will not be construed as collusive bidding.

In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:

prices;

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.

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.

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 Quotations and contracts, Quotations 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.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

¹ Includes price quotations, advertised competitive Quotations, limited Quotations and proposals.

² 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.

³ 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.

ANNEXURE A

SPECIFICATION FOR SUPPLY & DELIVERY OF TOOLS AND EQUIPMENT FOR ELECTRICAL WORKSHOP ZWELITSHA CAMPUS

1.	Hand Tools / Workshop Tools	2.	Special Equipment/Tools
3.	Measuring Equipment	4.	Machinery
5.	Equipment (Long Term Consumables)	6.	Consumables
7.	Assessment Material		

1.	Hand Tools / Workshop Tools			
Product	SPECIFICATION	QTY	Unit Price (Incl VAT)	Total (Incl VAT)
HACKSAW FRAME	ALUMINIUM ALLOY HACKSAW FRAME 300M C/W 1 + 3 FREE BLADES TORK CRAFT	15		
CABLE KNIFE	BLUE RANGE VDE 4522 CABLE KNIFE	15		
PLIER	PLIER COMBINATION 160mm	15		
RACHET	RATCHET CRIMPING PLIER - INSULATED TERMINALS CRIMPING RANGE-0.5-6MM	15		
SIDE CUTTER	SIDE/DIAGONAL CUTTER 160MM BULK	15		
FILE	10" ENGINEER'S FILE SETWITH FITTED HANDLES-4PCE	15		
FILE	12" (300mm) FLAT SECOND ENGINEERSFILE	15		
FILE	12" (300mm) ROUND SECONDENGINEERS FILE	15		
FILE	12" (300mm) HALF ROUND SECONDENGINEERS FILE	15		
SCREWDRIVE RS	8 PIECE 1000V ELECTRICIAN SCREWDRIVER SET	15		
SPINNER	8mm NUT SPINNER	15		
SPINNER	10mm NUT SPINNER	15		
SPANNER	6-19mm OFFSET CV COMBINATIONSANNER SET 14PC	15		
WATER PUMP PLIER	PLIER WATER PUMP GROOVE JOINT 250MM	15		
PUNCH	PUNCH CENTER 3 X 100mm	15		

SHIFTING SPANNER	SHIFTING SPANNER 8" 200MM 0-24MM	15		
WIRE STRIPPER	WIRE STRIPPER 1.0mm-3.2mm	15		
SCRIBER	7" DOUBLE ENDED ENGINEERS SCRIBER	15		
PLIER	LONG NOSE PLIERS SIZE 7 1/2" / 160MM	15		
BRUSH FILE	BRUSH FILE STEEL 270MM X 40MM HAWK - STEEL FILE BRUSH (WOODEN HANDLE)	15		
HAMMER	BALL PEIN HAMMER 225G	15		
HAMMER	BALL PEIN HAMMER 680G KENDO	15		
PRICK PUNCH	PRICK PUNCH -- GROZ BRAND - PRICK 2.0X100MM PKP5-64	15		
TAP WRENCH	TAP WRENCH NO 3 M1-8	15		
SPANNER	RED RANGE COMBINATION SPANNER SET SIZE 6-32MM 21PCS	15		
ALLEN KEYS	30PCE ALLEN KEY SET - 15x METRIC & 15x IMPERIAL SIZES IN PLASTIC CASE	15		
PIPE WRENCH	WRENCH PIPE 250mm	15		
HAMMER	HAMMER RUBBER Mallet 450G (16OZ) FIBREGLASS HANDLE	3		
CIRCLIP PLIER	FIXMAN STRAIGHT INTERNAL CIRCLIP PLIERS 155MM 6"	3		
PLIER	FIXMAN STRAIGHT EXTERNAL CIRCLIP PLIERS 6" / 160MM	3		
HAMMER	HAMMER BALL PEIN 700G 24OZ GRAPH. HANDLE REAL STEEL	15		

2.

SPECIAL EQUIPMENT/TOOLS

Product	SPECIFICATION	QTY	Unit Price (Incl VAT)	Total (Incl VAT)
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SPRING BENDER	SPRING BENDER 20MM 60CM STL	3		
HICKEY	PIPE BENDER / HICKEY 23,4MM (3/4") --BENDING HEAD ONLY EXCLUDES PIPE/HANDLE	3		
REAMER	PIPE REAMER / CALLIBRATOR FOR PLASTIC, PVC AND POLYMER PIPES. 16MM - 25MM	3		
FISH TAPE	FISH TAPE 30M 4MM DIA STEEL	3		
40W SOLDER IRON	40W SOLDERING IRON	3		
SOLDERSUCK	SOLDER SUCKER TOOL	3		
FG30	FG30 COMBINED FUNCTION GENERATOR 0-3 MHZ	3		
DC SUPPLY	P4305 SINGLE CHANNEL 150W MAXIMUM OUTPUT 0-30V / 0-5A OUTPUT 1MV/1MA LINEAR DC POWER SUPPLY	3		
RULER	ALUMINIUM STRAIGHT EDGE RULER TYPE B 600X50X5.0MM	3		
SQUARE SET	COMBINATION SQUARE SET	3		
BEARING PULLER	BEARING PULLER 19MM TO 38MM	3		
SPANNER	30/32mm C-SPANNER	3		
FILE	THREAD FILE - METRIC 0.75MM TO 3.0MM	2		
DEBURRING TOOL	DEBURRING TOOL	3		

3. MEASURING EQUIPMENT

Product	SPECIFICATION	QTY	Unit Price (Incl VAT)	Total (Incl VAT)
TAPE MEASURE	TAPE MEASURE 3MT X 16mm	15		
SPIRIT LEVEL	LEVEL SPIRIT 3 VIALS 450mm	3		
RULER	SQUARE COMBINATION 300MM MULTIUSE	3		
STEEL RULER	STAINLESS STEEL RULER 300 X 25 X	15		

	1.0MM			
CLAMP METER	SERIES AUTO RANGE DIGITAL CLAMP METER 0-600VAC 0-600VDC 0-400A 20MOHM 28MM JAW AUTO POWER OFF C/W DIGITAL DISPLAY	3		
MEGGER TESTER	250/500/1000V ANALOGUE INSULATION TESTER, CAT IV 600V	3		
DIGITAL MULTIMETER	DIGITAL MULTIMETER + DATA LOGGER + TEMP METER COMPLETE WITH TRANSISTOR TESTER, 100VDC, 750VAC, 20A-DC, 20A-AC 0-10MOHM, 4000UF, 0-9,999MHZ, 6000 COUNT DIGITAL. CATIII 1000V	15		
ELCB TESTER	ELCB Tester 500mA	1		
POLARITYTESTER	DIGITAL SOCKET ELCB & POLARITY TESTER, CAT IV 300V	3		
CAPACITANCE TESTER	DIGITAL CAPACITANCE METER, 200PF TO 20MF	3		
LOOP TESTER	DIGITAL LOOP & PSC / PFC TESTER, CAT IV 600V	2		
OSCILLOSCOPE	DIGITAL OSCILLOSCOPE 0-20MHZ, 2 CHANNEL, 100MS/S SAMPLE RATE, ULTRA THIN BODY, 7 INCH HIGH-RES LCD SCREEN, SCPI AND LABVIEW SUPPORT	3		
VERNIER	VERNIER 150MM CARBON STEEL METRIC 0.02 ACC	15		

4.	MACHINERY			
Product	SPECIFICATION	QTY	Unit Price (Incl VAT)	Total (Incl VAT)
DRILL MACHINE	DRILL 10MM 550W IMP VAR/REV	1		
BENCH GRINDER	BENCH GRINDER 150MM 150W	1		

JIG SAW	JIG SAW 400W	1		
ANGLE GRINDER	ANGLE GRINDER 115MM 650W	1		
BEARING HEATER	BEARING HEATER	1		
BEARING PULLER	BEARING PULLER 3 JAW 8" 200MM	1		
DRILL MACHINE	DRILL MACH.PED.16mm 550W 400V	1		

5.	EQUIPMENT LONG TERM			
Product	SPECIFICATION	QTY	Unit Price (Incl VAT)	T Total (Incl VAT)
VICE BENCH	VICE BENCH ANVIL 150mm	3		
PIPE VICE	PIPE VICE HINGED 2INCH FOR PIPE DIAMETER RANGE 5 - 50MM COMPLETE ON PEDESTAL STAND	3		
PANEL	TASK 1 & TASK 2 TRAINING AND CONSTRUCTION PANEL RIGID TWIN A FRAME WITH WORK TRAYS. TO ALLOW STUDENTS TO CONSTRUCT AND BUILD PVC/STEEL CONDUIT WIREWAYS TO WIRE A VARIETY OF DOMESTIC COMPONENTS FOUND IN A DOMESTIC AND INDUSTRIAL INSTALLATION. SET INCLUDES - COMPLETE DB BOARD, COMPONENTS, PVC CONDUIT, BOSAL - GALV CONDUIT AND VARIOUS CONDUIT ACCESSORIES TO COMPLETE A NUMBER OF VARIATIONS OF CIRCUITS FEATURES INCLUDE. - DESIGN & WIRE / WIRING TYPE TRAINING PANEL - PANEL ALLOWS FOR COMPLETE CIRCUIT WIRING - ALL COMPONENT & CIRCUIT CONN MADE VIA COMPONENTS - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES POWDER	3		

	COATED RIGID WORK BENCH & BACKING BOARDS.			
PANEL	CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - EXCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT	3		
PANEL	SLIPRING "HOIST" SLIP RING AC FWD - REV TRAINING PANEL - CONTROLLED VIA 3 STEP (NORTH - SOUTH) TYPE JOYSTIC HAND CONTROLLER. FEATURES INCLUDE. - FAULT FINDING TYPE TRAINING PANEL - PREWIRED MAIN & CONTROL CIRCUIT - TEST POINTS INCLUDED WHERE REQUIRED - SWITCHED FAULTS ARE ACTIVATED VIA LOCKABLE FAULT ENCLOSURE - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT	3		
PANEL	FULLY AUTOMATIC STAR / DELTA / FWD / REV TRAINING PANEL - TIMER CONTROL. FEATURES INCLUDE. - FAULT FINDING TYPE TRAINING PANEL - PREWIRED MAIN & CONTROL CIRCUIT - TEST POINTS INCLUDED WHERE REQUIRED - SWITCHED FAULTS ARE ACTIVATED VIA LOCKABLE FAULT ENCLOSURE -	3		

	ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT			
PANEL	PLC (DELTA) CONTROL - AUTOMATIC "STAR - DELTA / FWD - REV" CONTROL TRAINING PANEL. CONTROLLED VIA PROGRAMMABLE LOGIC CONTROLLER. SET INCLUDES - SOFTWARE, DATA CABLE & PLC. FEATURES INCLUDE. - DESIGN & WIRE / WIRING TYPE TRAINING PANEL - PANEL ALLOWS FOR COMPLETE CIRCUIT WIRING - ALL COMPONENT & CIRCUIT CONN MADE VIA BRASS STUDS - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT.	3		
PANEL	MANUAL CONTROLLED DC / DIRECT CURRENT FWD - REV TRAINING PANEL. ROTARY CAM SWITCH CONTROL. FEATURES INCLUDE. - DESIGN & WIRE / WIRING TYPE TRAINING PANEL - PANEL ALLOWS FOR COMPLETE CIRCUIT WIRING - ALL COMPONENT & CIRCUIT CONN MADE VIA BRASS STUDS - ELECTRICAL LOCK OUT VIA	3		

	ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT.			
MOTOR	DIRECT CURRENT DC COMPOUND EXCITATION MOTOR - FOOT MOUNT. INCLUDES LABELLED JUNCTION BOX WITH CONNECTIONS VIA BRASS STUDS. (MOTOR ONLY)	5		
MOTOR	SINGLE PHASE SQUIRREL CAGE ASYNCHRONOUS TWIN CAP MOTOR - FOOT MOUNT. INCLUDES LABELLED JUNCTION BOX WITH CONNECTIONS VIA BRASS STUDS. (MOTOR ONLY)	5		
MOTOR	THREE PHASE ASYNCHRONOUS SLIP RING INDUCTION MOTOR UNIT. - FOOT MOUNT. INCLUDES LABELLED JUNCTION BOX WITH CONNECTIONS VIA BRASS STUDS. (MOTOR ONLY)	5		
PANEL	CABLE PHASING / TERMINATION OF SWA CABLE TRAINING PANEL. FEATURES INCLUDE. - LOCKABLE FAULT INSERTION BOX TO MUNIPULTE CONNECTIONS BETWEEN PHASES. ALLOWS FOR THE ASSEMBLY AND COMISSIOING OF A CABLE GLAND. FEATURES INCLUDE. - DESIGN & WIRE / WIRING TYPE TRAINING PANEL - PANEL ALLOWS FOR COMPLETE CIRCUIT WIRING - ALL COMPONENT & CIRCUIT CONN MADE VIA BRASS STUDS - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC	3		

	ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - EXCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP			
PANEL	FULLY AUTOMATIC AUTO TRANSFORMER TRAINING PANEL, TIMER CONTROL. FEATURES INCLUDE. - TRACE, LOCATE & FAULT REPAIR TYPE TRAINING PANEL - PREWIRED MAIN & CONTROL CIRCUIT - FAULTS ARE REPAIRED VIA MISSING LINK STUDS / SOCKETS - INDUSTRIAL TYPE ELECTRICAL ENCLOSURE -ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT	3		
PANEL	FULLY AUTOMATIC STAR/DELTA TRAINING PANEL - MCE OEM STARTER. FEATURES INCLUDE. - TRACE, LOCATE & FAULT REPAIR TYPE TRAINING PANEL - PREWIRED MAIN & CONTROL CIRCUIT - FAULTS ARE REPAIRED VIA MISSING LINK STUDS / SOCKETS - INDUSTRIAL TYPE ELECTRICAL ENCLOSURE - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT	3		

PANEL	FULLY AUTOMATIC POLE CHANGING / DUAL SPEED TRAINING PANEL - TIMER TYPE CONTROL. FEATURES INCLUDE. - TRACE, LOCATE & FAULT REPAIR TYPE TRAINING PANEL - PREWIRED MAIN & CONTROL CIRCUIT - FAULTS ARE REPAIRED VIA MISSING LINK STUDS / SOCKETS - INDUSTRIAL TYPE ELECTRICAL ENCLOSURE - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT	3		
PANEL	SEMI-AUTOMATIC POLE CHANGING / DUAL SPEED TRAINING PANEL - PUSH BUTTON CONTROL. FEATURES INCLUDE. - TRACE, LOCATE & FAULT REPAIR TYPE TRAINING PANEL - PREWIRED MAIN & CONTROL CIRCUIT - FAULTS ARE REPAIRED VIA MISSING LINK STUDS / SOCKETS - INDUSTRIAL TYPE ELECTRICAL ENCLOSURE - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT	3		

PANEL	MANUAL POLE CHANGING / DUAL SPEED TRAINING PANEL - ROTARY CAM SWITCH CONTROL. FEATURES INCLUDE. - TRACE, LOCATE & FAULT REPAIR TYPE TRAINING PANEL - PREWIRED MAIN & CONTROL CIRCUIT - FAULTS ARE REPAIRED VIA MISSING LINK STUDS / SOCKETS - INDUSTRIAL TYPE ELECTRICAL ENCLOSURE - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT	3		
PANEL	SLIP RING RESISTANCE STARTING TRAINING PANEL. 3 STAGE STARTING CONTROL CIRCUIT.FEATURES INCLUDE. - TRACE, LOCATE & FAULT REPAIR TYPE TRAINING PANEL - PREWIRED MAIN & CONTROL CIRCUIT - FAULTS ARE REPAIRED VIA MISSING LINK STUDS / SOCKETS - INDUSTRIAL TYPE ELECTRICAL	3		
PANEL	CURRENT & POTENTIAL / VOLTAGE TRANSFORMER - CT/PT / CT/VT (SEC. 110V) TRAINING PANEL - EXCLUDES TRANSFORMER CALCULATION EXERCISE. INCL METERS AND ROTARY CAM V & A SWITCHES. FEATURES INCLUDE. - DESIGN & WIRE / WIRING TYPE TRAINING PANEL - PANEL ALLOWS FOR COMPLETE CIRCUIT WIRING - ALL COMPONENT & CIRCUIT CONN MADE VIA BRASS STUDS - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M	3		

	MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT.			
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PANEL	KWH METER & LOAD BALANCING TRAINING PANEL - C/WITH 3XX SINGLE PHASE KWH METERS & 6 LOADS FEATURES INCLUDE. FEATURES INCLUDE. - DESIGN & WIRE / WIRING TYPE TRAINING PANEL - PANEL ALLOWS FOR COMPLETE CIRCUIT WIRING - ALL COMPONENT & CIRCUIT CONN MADE VIA BRASS STUDS - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT.	3		
PANEL	ENERGY / KWH METER TRAINING PANEL - C/W 1XX THREE PHASE KWH METER & 6 LOADS. FEATURES INCLUDE. - DESIGN & WIRE / WIRING TYPE TRAINING PANEL - PANEL ALLOWS FOR COMPLETE CIRCUIT WIRING - ALL COMPONENT & CIRCUIT CONN MADE VIA BRASS STUDS - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING -	3		

	SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT.			
PANEL	ENERGY / KWH METER TRAINING PANEL - C/W 1XX THREE PHASE KWH METER & 7 LOADS. FEATURES INCLUDE. - DESIGN & WIRE / WIRING TYPE TRAINING PANEL - PANEL ALLOWS FOR COMPLETE CIRCUIT WIRING - ALL COMPONENT & CIRCUIT CONN MADE VIA BRASS STUDS - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT.	3		
PANEL	ENERGY / KWH METER & LOAD BALANCING TRAINING PANEL - C/WITH 3XX SINGLE PHASE KWH METERS & 7 LOADS FEATURES INCLUDE. FEATURES INCLUDE. - DESIGN & WIRE / WIRING TYPE TRAINING PANEL - PANEL ALLOWS FOR COMPLETE CIRCUIT WIRING - ALL COMPONENT & CIRCUIT CONN MADE VIA BRASS STUDS - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES	3		

	APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT.			
PANEL	MANUAL THREE PHASE FWD - REV TRAINING PANEL - ROTARY CAM SWITCH CONTROL. FEATURES INCLUDE. - DESIGN & WIRE / WIRING TYPE TRAINING PANEL - PANEL ALLOWS FOR COMPLETE CIRCUIT WIRING - ALL COMPONENT & CIRCUIT CONN MADE VIA BRASS STUDS - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT.	3		
PANEL	COMBINATION SEQUENCE STARTING TRAINING PANEL - ALLOWS FOR STARTING OF SEQ 1 - 7 (7VARIATIONS). FEATURES INCLUDE. - DESIGN & WIRE / WIRING TYPE TRAINING PANEL - PANEL ALLOWS FOR COMPLETE CIRCUIT WIRING - ALL COMPONENT & CIRCUIT CONN MADE VIA BRASS STUDS - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT.	3		
PANEL	COMBINATION THREE PHASE FWD / REV "WIRING TYPE" STARTER TRAINING PANEL FOR ALL 3PH	3		

	STARTING TECHNIQUES (MAN/SEMI-AUTO & AUTO). FEATURES INCLUDE. - DESIGN & WIRE / WIRING TYPE TRAINING PANEL - PANEL ALLOWS FOR COMPLETE CIRCUIT WIRING - ALL COMPONENT & CIRCUIT CONN MADE VIA BRASS STUDS - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT.			
PANEL	COMBINATION SINGLE PHASE FWD / REV TRAINING PANEL - ALL 1PH STARTING TECHNIQUES (MAN/SEMI-AUTO & AUTO) INCLUDES ROTARY CAM SWITCH CONTROLLER. FEATURES INCLUDE. - DESIGN & WIRE / WIRING TYPE TRAINING PANEL - PANEL ALLOWS FOR COMPLETE CIRCUIT WIRING - ALL COMPONENT & CIRCUIT CONN MADE VIA BRASS STUDS - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON SLIP WORKTOP & MOTOR / LOAD MOUNT.	3		
PANEL	FULLY AUTOMATIC THREE PHASE FWD - REV OSCILLATING TRAINING PANEL. FEATURES INCLUDE. - DESIGN & WIRE / WIRING TYPE TRAINING PANEL -PANEL ALLOWS FOR COMPLETE CIRCUIT WIRING - ALL COMPONENT & CIRCUIT CONN	3		

	MADE VIA BRASS STUDS - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON- SLIP WORKTOP & MOTOR / LOAD MOUNT.			
PANEL	THREE PHASE COC TRAINING AND CONSTRUCTION CUBICLE STYLE INSTALLATION FOR THE STUDY AND TESTING OF A SINGLE & THREE PHASE DOMESTIC APPLICATION. TRAINER DESIGNED IN A CUBICLE LAYOUT. PREWIRED INSTALLATION WITH FAULT SIMULATION VIA LOCABLE FAULT ENCLOSURE. TRAINER CAN BE USED FOR DESIGN CONSTRUCTION OF CIRCUITS AND MOUNTING OF COMPONENTS. MANUFACTURED. TRAINER COMPRISED OF -COMPLETE DB BOARD - VARIOUS LIGHTING & SWITCHING, VIA BOSAL AND PVC CONDUIT ACCESORIES.COMPONENTS INCLUDE - ONE WAY SWITCHING - TWO WAY SWITCHING - INTERMEDIATE SWITCHING - DAY NIGHT SWITCH - PLUG SOCKET OUTLET - GEYSER - TWIN PLATE STOVE TOP WITH ISOLATORS - 3 PHASE DOL STARTER & MOTOR SET WITH 3 PHASE WELDING PLUG SOCKET. FEATURES INCLUDE. - DESIGN & WIRE / WIRING TYPE TRAINING PANEL - PANEL ALLOWS FOR COMPLETE CIRCUIT WIRING - ALL COMPONENT & CIRCUIT CONN MADE VIA COMPONENTS - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M MAINS CONN CABLE - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES POWDER	3		

	COATED RIGID FRAME SET & BACKING BOARDS.			
PANEL	24V DELTA PLC PROGRAMMING, WIRING & SIMULATION DESKTOP TRAINER. SALLOWS FOR PROGRAMMING - SIMULATION & INTERFACE OF DIGITAL I/O'S VIA SWITCHES AND LED LAMPS. PLC I/O'S CAN BE INTERFACED TO EXTERNAL EQUIPMENT / DEVICES FOR REMOTE CONTROL VIA 4MM PLUG IN TYPE SOCKETS. COMPONENTS INCLUDE- TWIN DC MOTORS - 4WAY TRAFFIC INTERSECTION & PEDESTRIAN LAMP SET, ELECTROMECHANICAL COUNTER, BUZZER, SPST SWITCHES, 3XX LIMIT SWITCH SET& 2XX SPDT RELAY SET. PLC AND COMPONENTS MOUNTED TO ELECTRICAL GRADE SCREEN PRINTED FACIA ENCLOSED IN EPOXY POWDER COATED ENCLOSURE. SET INCLUDES PLC, INTERFACE CABLE, SOFTWARE, USER MANUAL & WIRING DIAGRAMS - PLUG IN LEADS SOLD SEPERATELY	3		
PANEL	CFW500 THREE PHASE VSD VARIABLE SPEED / FREQUENCY DRIVE TRAINING PANEL. ALLOWS FOR THE WIRING, COMMISSIONING AN DEMONSTRATION OF A THREE PHASE DRIVE ALLOWING CONNECTION TO EXTERNAL I/O DIGITAL AND ANALOGUE DEVICES TO DEMONSTRATE REMOTE AND LOCAL CONTROL. COMPONENTS INCLUDE - VSD -CONTROL CIRCUIT COMPONENTS (TACHOMETER, ROTARY SWITCHES, LAMPS, SPEED CONTROL POTENTIOMETER, MOTOR & FLYWHEEL SET WITH CLEAR PROTECTIVE COVER. FEATURES INCLUDE. - DESIGN & WIRE / WIRING TYPE TRAINING PANEL - PANEL ALLOWS FOR COMPLETE CIRCUIT WIRING - ALL COMPONENT & CIRCUIT CONN MADE VIA BRASS STUDS - ELECTRICAL LOCK OUT VIA ISOLATOR C/W 2M	3		

	MAINS CONN CABLE - COMPONENTS MOUNTED TO ELECTRICAL GRADE BOARD - CNC ENGRAVED COMPONENT & CONNECTION LABELLING - SUPPLIED COMPLETE WITH WIRING DIAGRAM & USER MANUAL - INCLUDES APPLICABLE MOTOR / LOAD - INCLUDES WORKSTATION C/W NON-SLIP WORKTOP & MOTOR / LOAD MOUNT.			
ELECTRONICS STARTER KIT	ELECTRONICS STARTER KIT V2	5		

6. CONSUMABLES				
Product	SPECIFICATION	QTY	Unit Price (Incl VAT)	Total (Incl VAT)
PANEL WIRE	WIRE SOLID 1MM C1 BLACK 100M ROLL PANEL WIRE	1		
PANEL WIRE	WIRE SOLID 1MM C1 BLUE 100M ROLL PANEL WIRE	1		
PANEL WIRE	WIRE SOLID 1MM C1 GREEN 100M ROLL PANEL WIRE	1		
PANEL WIRE	WIRE SOLID 1MM C1 RED 100M ROLL PANEL WIRE	1		
PANEL WIRE	WIRE SOLID 1MM C1 YELLOW 100M ROLL PANEL WIRE	1		
PANEL WIRE	WIRE SOLID 1MM C1 GREEN 100M ROLL PANEL WIRE	1		
WIRE	1.5MM GPW GENERAL PURPOSE WIRE 20A PLAIN ANNEALED STRANDED COPPER PVC BLACK - 100M ROLL	1		
WIRE	1.5MM GPW GENERAL PURPOSE WIRE 20A PLAIN ANNEALED STRANDED COPPER PVC BLUE - 100M ROLL	1		
WIRE	1.5MM GPW GENERAL PURPOSE WIRE 20A PLAIN ANNEALED STRANDED COPPER PVC BROWN - 100M ROLL	1		
WIRE	1.5MM GPW GENERAL PURPOSE WIRE 20A PLAIN ANNEALED STRANDED COPPER PVC RED - 100M ROLL	1		

WIRE	1.5MM GPW GENERAL PURPOSE WIRE 20A PLAIN ANNEALED STRANDED COPPER PVC GREEN - 100M ROLL	1		
WIRE	1.5MM GPW GENERAL PURPOSE WIRE 20A PLAIN ANNEALED STRANDED COPPER PVC WHITE - 100M ROLL	1		
WIRE	1.5MM GPW GENERAL PURPOSE WIRE 20A PLAIN ANNEALED STRANDED COPPER PVC YELLOW - 100M ROLL	1		
WIRE	2.5MM GPW GENERAL PURPOSE WIRE 27A PLAIN ANNEALED STRANDED COPPER PVC BLACK - 100M ROLL	1		
WIRE	2.5MM GPW GENERAL PURPOSE WIRE 27A PLAIN ANNEALED STRANDED COPPER PVC BLUE - 100M ROLL	1		
WIRE	2.5MM GPW GENERAL PURPOSE WIRE 27A PLAIN ANNEALED STRANDED COPPER PVC BROWN - 100M ROLL	1		
WIRE	2.5MM GPW GENERAL PURPOSE WIRE 27A PLAIN ANNEALED STRANDED COPPER PVC RED - 100M ROLL	1		
WIRE	2.5MM GPW GENERAL PURPOSE WIRE 27A PLAIN ANNEALED STRANDED COPPER PVC WHITE - 100M ROLL	1		
WIRE	2.5MM GPW GENERAL PURPOSE WIRE 27A PLAIN ANNEALED STRANDED COPPER PVC GREEN - 100M ROLL	1		
WIRE	2.5MM GPW GENERAL PURPOSE WIRE 27A PLAIN ANNEALED STRANDED COPPER PVC YELLOW - 100M ROLL	1		
CABLETRAY50	4MM WIRE MESH CABLE TRAY. 50MM H X 150MM W X 3M LENGTHS	1		
SWA CABLE	SWA CABLE - 2.5MM - 3 CORE - PER 100M ROLL	1		
SUFEX CABLE	2.5MM FLAT TWIN AND EARTH STRANDED 2 CORE PVC INSULATED LAID UP WITH BARE COPPER EARTH WIRE - 100M ROLL	1		
CONDUIT(PVC)	CONDUIT 20mm SABS PVC PRICE PER METER (AVAILABLE IN 4M LENGTHS)	1		

CONDUIT(GA LV)	20MM GALVANIZED CONDUIT PER METER	1		
TRUNKING	TRUNKING SLOTTED 40MM X 40MM SLOT WIDTH: 6MM / SLOT - 4MM 2 M LENGTH COMPLETE WITH COVER, GREY	1		

7. ASSESMENT MATERIAL				
Product	SPECIFICATION	QTY	Unit Price (Incl VAT)	Total (Incl VAT)
MAE ADAPTOR	ADAPTOR MALE 20mm PVC WHI	10		
COMPRESSION GLAND	20MM PVC COMPRESSION GLAND NO:0 MULTI PURPOSE (ROUND AND FLAT SURFEX	10		
PVC- TEE	20MM INSPECTION TEE PVC	10		
PVC-SADDLE	20MM HOSPITAL SADDLE / SPACER BAR SADDLES PVC	10		
PVC COUPLING	COUPLING 20mm PVC	10		
GALV SADDLE	20MM BOSAL / GALV SADDLE STRAP STL	10		
GALV LOCKNUT	20MM BOSAL / GALV LOCKNUT HEX STL	10		
FEMALE NUT	BRASS BUSH FEMALE 20MM NUT	10		
EARTH TAG	CCG EARTH TAG 20mm 6220-1	10		
SADDLE TRAP	20MM BOSAL / GALV SADDLE STRAP STL	10		
GALV COUPLING	BOSAL COUPLING 20MM GALV STL 76-201-101	10		
SADDLE STRAP	20MM BOSAL / GALV SADDLE STRAP STL	10		
GLAND	STEEL COMPRESSION GLAND NO:1	5		
SHROUD RUBBER	Cable Gland Shroud Rubber No 1 Long	5		
LIGHT SWITCH	ONE LEVER ONE-WAY SWITCH WT (100MMX50MM)	10		
DB BOARD	12WAY SURFACE MOUNT METAL TYPE 13MM MCB DISTRIBUTION BOARD / DB	10		
LIGHT SWITCH	2 LEVER 1 WAY SWITCH. LIGHT SWITCH WITH 2 LEVERS. 4X2 CONFIGURATION. INCL YOKE, SWITCH AND COVER PLATE.	10		
SOCKET OUTLET	SOCKET OUTLET WITH SWITCH HORIZONTAL 4X2 ONESTO 16A	10		

EARTH LEAKAGE	63A 1P+N 30mA EARTH LEAKAGE	10		
CIRCUIT BREAKER	10A 1P 3KA MCB GREY	10		
CIRCUIT BREAKER	20A 1P 3KA MCB GREY	10		
LAMP HOLDER	BATTEN HOLDER BRASS 65MM BC LAMP HOLDER. BATTEN/BATEN/BATTON HOLDER B22	10		

This serves to confirm that **Zwelitsha Head of Division has** checked the specification and certified correct.

Name: Mr Patuxolo Moni

Capacity: Zwelitsha Head of Division - Report 191 Engineering

Directorate: Zwelitsha Campus

Signature: _____