

**STANDARD BIDDING DOCUMENT FOR SUPPLY AND DELIVERY OF AIR
CIRCUIT BRAKERS (ACBs).**

Procurement Reference Number: ZETDC/INTER/04/2023

Zimbabwe Electricity Transmission & Distribution Company

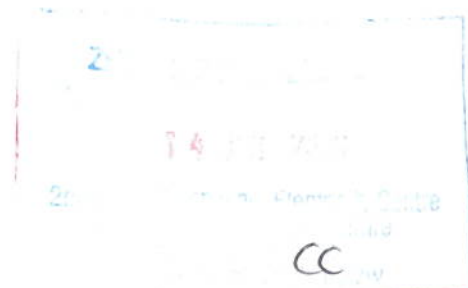


**STANDARD
BIDDING
DOCUMENT**

**For The
Supply and Delivery of AIR CIRCUIT
BRAKERS (ACBs) FOR ZETDC.**

Closing Date : 14 SEPTEMBER 2023

Closing Time : 1000 hours



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CIRCUIT BRAKERS (ACBs).**

Procurement Reference Number: ZETDC/INTER/04/2023

Procurement Reference No: ZETDC/INTER/04/2023

Procuring Entity: ZETDC

Date of Issue: 14 JULY 2023

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Part 1: BIDDING PROCEDURES

1.0 References

The definitions used in the Public Procurement and Disposal of Public Assets Act [Chapter 22:23] ("the Act"), the Public Procurement and Disposal of Public Assets (General) Regulations (Statutory Instrument No. 5 of 2018) ("the Regulations") and the General Conditions of Contract for the Procurement of goods apply to this Standard Bidding Document. The Act and the Regulations govern the submission of Bids and should be read by all Bidders.

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1.1 Preparation of Bids

You are requested to bid for the items described in the Statement of Requirements below, by completing and returning the following documentation:

1. The Bid Submission Sheet in this Part in the format specified in Part 1;
2. The Statement of Requirements in Part 2 in the format specified in Part 2;
3. Bidder's Detail Form must be completed and submitted together with the bid;
4. All Bidders must complete all schedules without fail for them to be eligible bidders to attach a copy of every document necessary to demonstrate eligibility in terms of section 28 (1) of the Regulations;
5. Proof of Registration with the Procurement Regulatory Authority of Zimbabwe (PRAZ) in the relevant category (**GE001**);
6. A bid security of **USD500.00** payable in Zimbabwean Dollars at the RBZ prevailing Interbank rate of the day in the format specified in this part;
7. Proof of payment of **USD350.00** payable in Zimbabwean Dollars at the RBZ prevailing Interbank rate of the day to the Procurement Regulatory Authority of Zimbabwe Special Procurement Oversight Committee fee;
8. A copy of Certificate of Incorporation, CR 14; CR6 forms for local companies or equivalent company registration documents in the country of residence for foreign companies;
9. Proof of registration with ZIMRA;
10. Bid Validity of ninety (90) days must be clearly stated;
11. Payment terms within 30 days after delivery and must be clearly stated. Invoices will be paid in Zimbabwean dollars at the prevailing rate on the date of payment.
12. Delivery period is within eight (8) weeks after receipt of order and must be clearly stated.

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13. Valid Letter of authorisation from manufacturer to be provided by Agents/Non-manufacturers.
14. Valid Copy of ISO 9001/2 certification to be provided with the bid.
15. Minimum of three (3) trade reference letters from customers with active contact details showing bidders' direct experience in the supply and delivery of new motor vehicles;
16. Manufacturer's supply history of at least 3 years to be provided with the bid.

You are advised to carefully read the complete Bidding Document, as well as the Special Conditions of Contract in Part 3: Contract, which are available on the Authority's website, before preparing your Bid. Part 3: Contract is provided not for completion at this stage but to enable Bidders to note the Contract terms they will enter into if their Bid is successful. The standard forms in this document may be retyped for completion but the Bidder is responsible for their accurate reproduction. All pages of the Bid must be clearly marked with the Procurement Reference Number above, the Bidder's name, and any reference number.

1.2 Lots

There are no Lots on this tender. The tender will **be awarded on item by item.**

1.3 Number of bids allowed

No Bidder may submit more than one Bid, either individually or as a joint venture partner in another Bid, except as a subcontractor. Conflict of interest will be deemed to arise if Bids are received from more than one Bidder owned, directly or indirectly, by the same person.

- **Bidders should note that only the main offers will be considered. No alternatives or options will be entertained unless on a separate bid.**

1.4 Clarifications

Clarification of the bidding document may be requested from ZETDC Supply Chain Manager in writing on duly signed company letterhead by email to procurement@zetdc.co.zw at any time on or before **29 August 2023**. If a prospective Tenderer sends an inquiry after the stated date or the inquiry is received by ZETDC after the stated date, ZETDC shall not respond to the inquiry but ignore it.

1.5 Responses to Clarifications

All responses to clarifications will be posted on ZETDC website www.zetdc.co.zw. Bidders should frequently check for updates on the website until the closing date of the tender.



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1.6 Eligibility and qualification requirements

Bidders are required to meet the criteria in section 28 of the Act and section 28 (1) of the Regulations to be eligible to participate in public procurement and to be qualified for the proposed Contract. They must therefore;

1. have the legal capacity to enter into a contract;
2. not be insolvent, in receivership, bankrupt or being wound up, not have had business activities suspended and not be the subject of legal proceedings for any of these circumstances;
3. have fulfilled their obligations to pay taxes and social security contributions in Zimbabwe;
4. not have a conflict of interest in relation to this procurement requirement;
5. not be debarred from participation in public procurement under section 72 (6) of the Act and section 74(1) I, (d) or (e) of the Regulations or declared ineligible under section 99 of the Act;
6. have the nationality of an eligible country as specified in the Special Conditions of Contract; and
7. have been registered with the Authority as a Supplier and have paid the applicable Supplier Registration Fee set out in Part III of the Fifth Schedule to the Regulations.

In addition to these eligibility requirements, Bidders must demonstrate that they have the qualifications, resources and experience to perform the contract to satisfactory standards, as indicated in the Statement of Requirements.

1.7 Pre-bid meeting and Site Visit

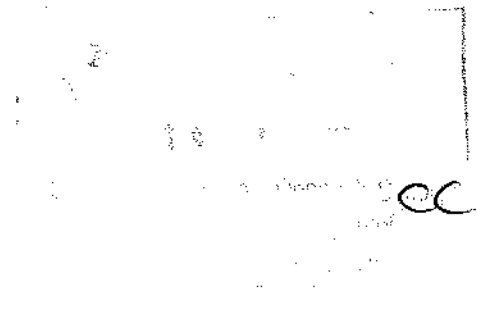
No pre-bid meeting and Site Visit has been organized.

1.8 Validity of Bids

The minimum period for which the Bidder's bid must remain valid is ninety (90) days from the deadline for the submission of bids.

1.9 Submission of Bids

Bids must be submitted in writing in a sealed envelope to the address below, not later than the date and time of the deadline below. It is the Bidder's responsibility to ensure that they receive a receipt confirming submission of their bid that has correct details of the Bidder and the number of the Bid.



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The Bidder must mark the envelope with the Bidder's name and address and the Procurement Reference Number.

Bids should be submitted in duplicate with one (1) original copy marked, "ORIGINAL" AND one (1) copy marked "COPY". All two (2) copies should be in sealed envelopes clearly marked with details of the tender, and should be deposited in a tender box situated at the below address. In the event of any discrepancy between the original and the copy, the original will prevail.

Late bids will be rejected. The Procuring Entity reserves the right to extend the bid submission deadline but will notify all potential bidders who have collected the bidding documents of the amended bid submission deadline.

Date of deadline:	14 September 2023	Deadline Time:	10:00 hours
Submission address:	ZIMBABWE ELECTRICITY TRANSMISSION & DISTRIBUTION COMPANY (ZETDC) Ground Floor, Electricity Centre 25 Samora Machel Avenue Harare		
Means of acceptance:	Bids in the sealed envelopes shall be deposited in a tender box situated at the above address. All the bidders should record their bids in the tender submission register situated thereto, in the format prescribed in the register.		

1.10 Bid Opening

Bidders and their representatives may witness the opening of bids which will take place at the submission address immediately following the deadline.

1.11 Withdrawal, amendment or modification of Bids

A Bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written notice, duly signed by an authorized representative. However, no Bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of Bids and the expiration of the period of Bid validity specified by the Bidder or any extension of that period.

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1.12 Bid Prices and Discounts

The prices and discounts quoted by the Bidder in the Bid Submission Form and in the Price Schedules must conform to the requirements specified in the Price Schedule included in Part 2: Statement of Requirements.

1.13 Bid Security

The Bidder must provide a bid security of **USD500.00** payable in Zimbabwean Dollars at the RBZ prevailing Interbank rate of the day in the following form:

First Option. A certified bank cheque; or

Second Option. A bank guarantee; or

Third Option. A refundable cash deposit of **USD500.00** payable in Zimbabwean Dollars at the RBZ prevailing Interbank rate of the day to the Procurement Regulatory Authority of Zimbabwe (PRAZ) – If the third option is chosen, bidders must also submit proof of payment of non-refundable Bid Bond establishment fees of **USD150.00** payable in Zimbabwean Dollars at the RBZ prevailing Interbank rate of the day.

IF A BIDDER CHOOSES SECOND AND THIRD OPTIONS THE FOLLOWING SHOULD BE NOTED:

Second Option

The required Bank Guarantee should include the following features and be redeemable in Zimbabwe in order for it to be considered valid:

1. Letterhead of registered commercial bank (i.e., the Supplier of the Bank Guarantee)
2. The Header has to clearly state that it is a Bank Guarantee.
3. Purpose of the Bank Guarantee to be clearly stated.
4. The date when the Common Seal of the said Surety was affected should be clearly shown.
5. Conditions of the said Obligations must be stated.
6. The physical address of the Surety should be given.
7. The validity period of the Bank Guarantee must be clearly stated.
8. Signature of surety and the date when it was endorsed must be clearly shown.
9. It must be an original document that is date stamped.
10. Bid Bonds from Insurance Companies are not acceptable.

The Bank Guarantee of the unsuccessful bidders will be released immediately after the award of the Tender while that of the winning bidder will only be released after signing of the contract.

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Third Option

If Option 3 is chosen bidders must pay **USD500.00** payable in Zimbabwean Dollars at the RBZ prevailing Interbank rate of the day for the Bid Security that shall be Refundable at the end of the bid validity period plus another **USD150.00** that shall be non-refundable for cash bid bond establishment fee in line with Part V of the Procurement Regulations (S.I.193 of 2022). The amount is payable at Procurement Regulatory Authority of Zimbabwe (PRAZ), 9th Floor, Pearl House, 61 Samora Machel A venue, Harare or to be deposited in the following account numbers:

1 NON-REFUNDABLE (LOCAL)

BANK NAME: COMMERCIAL BANK OF ZIMBABWE
ACCOUNT NAME: PROCUREMENT REGULATORY AUTHORITY OF ZIMBABWE
ACCOUNT NUMBER: 01121064850020
BRANCH: KWAME NKRUMAH

2 REFUNDABLE (LOCAL)

BANK NAME: COMMERCIAL BANK OF ZIMBABWE
ACCOUNT NAME: PROCUREMENT REGULATORY AUTHORITY OF ZIMBABWE
ACCOUNT NUMBER: 01121064850030
BRANCH: KWAME NKRUMAH

NB: The bid security shall be valid for ninety (90) days after the closing of this tender and the original proof of payment must be submitted together with the bid.

Any bid not accompanied by a Bid Security in accordance with section 26 (3) of the Regulations, will be rejected by the Procuring Entity as non-responsive.

1.14 Evaluation of Bids

Bids will be evaluated using the following methodology:

1. Preliminary examination to confirm that all documents required have been provided, to confirm the eligibility of Bidders in terms of section 28(1) of the Regulation and to confirm that the Bid is administratively compliant in terms of section 28(2) of the Regulation.
2. Technical evaluation to determine their substantial responsiveness to the specifications in the Statement of Requirements;
3. Financial evaluation and comparison to determine the evaluated price of Bids and to determine the lowest evaluated Bid.

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Bids failing any stage will be eliminated and not considered in subsequent stages.

1.15 Currency

Bids should be priced in United States Dollars.

1.16 Review by the Special Procurement Oversight Committee (SPOC)

Section 54 of the Act provides for review by the SPOC. This requirement will be subject to SPOC.

1.17 Award of Contract

The lowest evaluated bid after the application of any additional evaluation criteria, including any margin of preference, which is substantially responsive to the requirements of this Bidding Document will be recommended for award of the contract. The proposed award of contract will be by issue of a Notification of Contract Award in terms of section 55 of the Act, which will be effective until signature of the contract documents in accordance with Part 3: Contract. Unsuccessful Bidders will receive the Notification of Contract Award and, if they consider they have suffered prejudice from the process, they may, within 14 days of receiving this Notification, submit to the Procuring Entity a Challenge in terms of section 73 of the Act, subject to payment of the applicable fee set out in section 44 of and the Third Schedule to the Regulations.

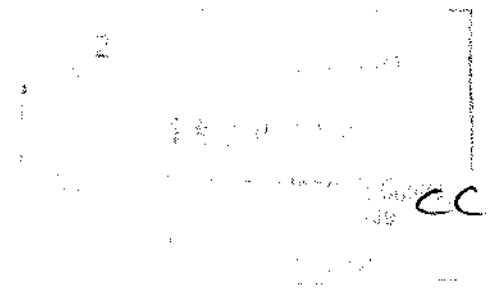
1.18 Right to Reject

The Procuring Entity reserves the right to accept or reject any Bid or to cancel the procurement process and reject all Bids at any time prior to contract award.

1.19 Corrupt Practices

The Government of Zimbabwe requires that Procuring Entities, as well as Bidders and Contractors, observe the highest standard of ethics during the procurement and execution of contracts. In pursuit of this policy:

1. the Procuring Entity will reject a recommendation for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract or has been declared ineligible to be awarded a procurement contract under section 99 of the Act;
2. the Authority may under section 72 (6) of the Act impose debarment and other sanctions under section 74 (1) of the Regulations; and
3. Any conflict of interest on the part of the Bidder must be declared



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1.20 Bid Submission Sheet

{Note to Bidders: Complete this form with all the requested details and submit it as the first page of your Bid. Attach the Price Schedule and Statement of Methodology, Work Plan and Schedule together with any other documents requested in Part 1. Any variation from the Statement of Requirements should be indicated in the Statement of Methodology, Work Plan and Schedule, otherwise you commit to complying fully with these Requirements.

Ensure that your Bid is authorised in the signature block below. A signature and authorisation on this form will confirm that the terms and conditions of this Bid prevail over any attachments. If your Bid is not authorised, it may be rejected. If the Bidder is a Joint Venture (JV), the Bid must be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.

Bidders should mark as "CONFIDENTIAL" information in their Bids which is confidential to their business. This may include proprietary information, trade secrets, or commercial or financially sensitive information}.

Procurement Number:	Reference	
Subject of Procurement:		
Name of Bidder:		
Bidder's Reference Number:		
Date of Bid:		

We offer to perform the services listed in the Statement of Requirements to the indicated specifications and standards, at the prices indicated on the attached Price Schedule and in accordance with the terms and conditions stated in your Bidding Document referenced above.

We confirm that we meet the eligibility criteria specified in Part 1: Procedures of Bidding.

We declare that we are not debarred from bidding and that the documents we submit are true and correct.

The validity period of our bid is:{days} from the date of submission.

We confirm that the prices quoted in the attached Price Schedule are fixed and firm for the duration of the validity period and will not be subject to revision, variation or adjustment.

Bid Authorised by:

Signature	Name :
Position	Date:(DD/MM/Y

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Part 2: STATEMENT OF REQUIREMENTS

2.1 List of Services and Price Schedule

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Bidder's Name: _____

Bidder's Reference Number: _____

CURRENCY IS IN USD



<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i</i>	<i>j</i>
Item No	Description of Services	Qty	UoM	Unit Price Excl Duty & VAT	Sub Total Excl Duty & VAT (c x e)	Duty (%) (% x f)	Sub Total Incl Duty & Excl VAT (f + g)	VAT (15%) (15% x h)	Total Incl Duty & VAT. (h + i)
1	ACB, 440V 60A Triple Pole E & EH Frame	3000	EA	[to be provided by the Bidder]	[to be provided by the Bidder]	[to be provided by the Bidder]	[to be provided by the Bidder]	[to be provided by the Bidder]	[to be provided by the Bidder]
2	ACB,600V 450A Three Phase	1700	EA						
3	ACB 350A 600V Three Phase	100	EA						
4	ACB, 600V 175A TP	4400	EA						
5	ACB, 600V 125A TP 600V	2600	EA						
6	ACB 600V 100A Three Phase	400	EA						

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2.3 TECHNICAL SPECIFICATIONS AND COMPLIANCE FOR ACBs

2.3.1 SCOPE

This Specification calls for supply and delivery of Moulded Case Circuit-breakers, to be used mainly for protecting low-voltage circuits and distribution transformers.

The specification covers single-pole and multi-pole Moulded Case (MCCB's) circuit-breakers, assembled as a unit in a supporting and enclosing moulded case of insulating material, for current ratings up to and including 800A and alternating voltages up to and including 440V.

Tenderers shall include a complete statement of compliance with this Specification. For every Clause in this specification the Tenderer shall state compliance or non-compliance and shall elaborate where appropriate.

Tenderers shall use the words "comply", "do not comply" with this Specification or in the clauses of an informative nature, "noted". Where the words "do not comply" are used the Tenderer shall state whether modifications could be made and whether modifications would be undertaken. The cost implications of such modifications must be indicated in the statement of compliance as well as the price schedules.

Any offers for MCB's shall be accompanied by a sample breaker. ZETDC will test each sample breaker provided for compliance with this Specification.

2.3.2 PARTICULARS OF ELECTRICAL SYSTEM

All apparatus shall be suitable for use on 50 cycle A.C supplies of the specified voltage.

The circuit-breakers shall be capable of operation in the following system:

- a) Earthed, 3 phase, four wire.
- b) Operated at 50 Hz variable between plus or minus 2.5 %.
- c) A highest system voltage not exceeding the nominal by more than 10 %.
- d) Earthed so that the earth fault factor will be less than 1.5 at any location.

2.3.3 PARTICULARS OF THE ENVIRONMENT

All apparatus is to be suitable for use indoors under the high altitude semi-tropical conditions of Zimbabwe. The circuit-breakers shall be capable of operation under the following environmental conditions.

- a. At an average altitude of 1,500 m above sea level.

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- b. Ambient air temperatures not normally above + 45 degrees centigrade or below - 10 degrees centigrade with a daily maximum average normally not exceeding + 35 degrees centigrade.
- c. Humidity 13 gm/m³ absolute and 54 % relative before storms with vapour pressure 17 mm hg.
- d. Equipment will operate within the tropics and is subject to sudden ambient air temperature changes of the order of 10 degrees centigrade occurring at the onset of rain, but the barometric pressure at any given place does not vary by more than approximately 10 mm mercury. Frequent and severe lightning storms occur during summer months, with isoraunic levels varying between 40 and 110 thunderstorm days per annum.

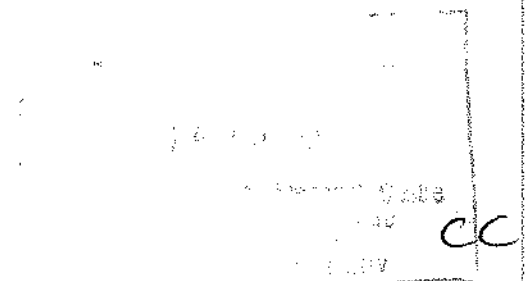
2.3.4 STANDARDS, UNITS AND LANGUAGE

All circuit-breakers supplied under this Specification shall conform to either or all of the following standards (latest edition):

- (i) IEC947 - IEC934 and IEE8 98
- (ii) SAZ D299/2:1990
- (iii) VDE 0660
- (iv) Any other standard provided the Tenderer can provide documentary evidence that the standard is equal to or better than the above standards.

All tenderer's correspondence and all descriptions upon drawings, illustrations or instructions shall be in the English language.

SI units of measurements shall be used throughout. The circuit-breakers shall be manufactured to high standards. The companies manufacturing the breakers shall have ISO 9001 or Standard Association of Zimbabwe Certification and shall submit documentary proof thereof. The specification covers quality requirements for circuit-breakers used under the specified ambient conditions. Where the conditions are abnormal (e.g. during the presence of corrosive or explosive fumes, dust, excessively high or low temperatures, excessive vibration, high humidity, and other unusual operation conditions), advice on installation and use shall be sought from



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the manufacturer or the supplier. Pollution degree 3 (IEC 947-1) shall form the basis for design.

2.3.5 DESIGN AND CONSTRUCTION

2.3.5.1 General

All materials incorporated in the equipment supplied shall be new and of first class commercial quality, free from defects and imperfections. The single and three Pole air circuit breakers are to be of the projecting pattern having front connected terminals that are preferably protected by a detachable cover, of Bakelite or other similar material.

The triple pole air circuit breakers shall be gang operated so that three phase tripping is achieved.

The single pole air circuit breakers are to be of the projecting pattern with front connected terminals, and are to be provided with a protecting, cover which should preferably be suitable for fixing with a standard meter seal to prevent unauthorised tampering but without hindering manual operation.

The cases of the breakers should be of the all insulated pattern, moulded from a thermo setting plastic of adequate strength and thickness. An insulated handle marked to show the ON/OFF positions is to be provided for hand tripping and closing. The mechanism is to be of the trip free quick-break toggle type having high pressure, self-aligning, wiping contacts made of low resistance non-welding material suitable for frequent operation under load conditions.

The operating mechanisms of the circuit-breaker shall be contained in a moulded case made of an insulating material that is non-flammable and will not allow the escape of flame or molten metal through the openings surrounding the operating handles. The circuit-breaker shall be "short-circuit proof" incorporating a method of releasing excess pressure, e.g., by spring operation or otherwise. A design which visibly shows position of main contacts is preferred.

Particular attention should be paid in the design of all equipment to ensure that there is no damage to working parts or insulation through the ingress of dust, insects and vermin which are prevalent for long periods in the year. Live parts of a circuit-breaker intended for surface mounting shall be protected by strong covers of insulating material, protection level minimum IP 30. Live parts on the underside (incoming) of a circuit-breaker designed for mounting on a surface shall:

- (a) Be covered by a shield or barrier of insulating material.

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- (b) Be countersunk at least 3 mm below the surface of the base and covered with a waterproof insulating sealing compound that will not flow during any of the tests specified.
- (c) Have a clearance of at least 3 mm from mounting surface and be riveted, upset, or otherwise reliably prevented from loosening.

The breakers shall be made in such a way that they are suitable for surface mounting. Shrouds shall be provided for each breaker. There shall be no access to the terminals with the shrouds in position.

A moulded Case circuit-breaker is essentially an indoor protection device with the following features:

- (i) Ability to carry rated current continuously
- (ii) Ability to interrupt fault currents
- (iii) Ability to switch normal load currents.
- (iv) Ability to trip at the minimum overcurrent irrespective of ambient temperature variation
- (v) Ability to operate instantaneously on short circuit
- (vi) Ability to co-ordinate with other protection devices.

2.3.5.2 Mounting

All miniature circuit breakers shall be capable of being mounted on a Din rail. Means shall be provided to ensure that when a multi-pole circuit-breaker operates there is no arcing between the poles. Screws used in the general assembly of the switching mechanism and its terminals shall be prevented by means of lock-washers, staking, or other acceptable means from loosening or backing out.

Screws or bolts used for the connection of current-carrying or Earthing parts of a circuit-breaker shall have in engagement at least two full threads or a length of screw/bolt equal to at least 0.6 times the nominal diameter of the screw/bolt, whichever is the greater.



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2.3.5.3 Current-Carrying Parts

Iron and steel, unless present as a constituent of an alloy that is inherently corrosion resistant, shall not be used for contacts. The type of material shall be submitted with the Tender.

2.3.5.4 Terminals

Terminals shall be so designed that:


- a) They clamp the conductor between metal surfaces with adequate contact pressure but without significant damage to the conductor, and:
- b) They do not allow the conductors to be displaced and are not themselves displaced in a manner detrimental to the operation of the circuit-breaker or the effectiveness for the insulation (i.e., the minimum prescribed values for clearances and creepage distances shall be maintained under all conditions of normal operation of the circuit-breaker).

Each terminal for the connection of an external conductor shall be so arranged that it is readily accessible under the intended conditions of use.

A wiring terminal need not be such as to accept the cable directly, i.e., without some suitable termination being applied to the cable, but where a terminal is intended to accommodate a standard conductor, means shall be provided to prevent the conductor wires from spreading.

Screw terminals applying a clamping plate to secure the conductor shall be provided. Screw terminals of a design whereby the screw makes direct contact with the conductor and is the only means of securing the connection shall not be permitted. Nor is it permitted to secure the conductor under the screw head alone. Screw connections shall accommodate copper conductors unless otherwise specified in the Schedule of Requirements.

Except as allowed below, steel unless present as a constituent of an alloy that is inherently corrosion-resistant, shall not be used for terminals. Terminals of the type in which the external connecting conductors make direct electrical contact with the pole of a circuit-breaker and that are not depended upon to carry the main current of the circuit-breaker, may be of steel that has been plated in an acceptable manner with copper, nickel, cadmium, silver or zinc.



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2.3.5.5 Exposed Metal Parts

Provision shall be made for the earthing of any exposed metal parts of a circuit-breaker that may become live if the insulation of any part of the circuit-breaker becomes defective. The breaker shall not have any exposed part that is likely to become live other than terminals.

2.3.5.6 Marking

Each circuit-breaker shall be legibly and indelibly engraved, burned, etched, or otherwise legibly and permanently marked as follows:

- a. All information and data according to IEC 947-2.
- b. The "ON" and "OFF" positions of the circuit-breaker, indicated on the handle or on the case or on the cover in the following way:

The symbol "I" and "O" for the "ON" and "OFF" positions respectively, the markings being clearly visible to the operator when the circuit-breaker is mounted in the normal position. If the markings are on the case or on the cover of the circuit-breaker they shall be adjacent to the handle when the handle is in the relevant position.

- c. Each breaker shall be marked "Property of ZETDC".

2.3.5.7 Interrupting Medium

The interrupting medium shall be air.

2.3.5.8 Clearance and Creepage Distance

All clearance and creepage distances shall be as large as practicable and in order to break the continuity of conducting deposits that may form. Creepages shall, where practicable, incorporate ridges.

2.3.6 MODE OF OPERATION

2.3.6.1 General

A circuit-breaker shall be arranged for manual closing and opening and for automatic tripping. The tripping mechanism shall be charged during the closing operation and be fully charged prior to complete closing. The mechanism shall be trip-free.

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The actuating mechanism shall be such that when a circuit-breaker is mounted in the normal manner the contacts cannot close by themselves as a result of failure of the mechanism.

2.3.6.2 Breaking Capacity

The circuit-breaker shall be capable of performing the following sequence of operation at maximum short-circuit current:0 - t - C0, t = 3 min.

2.3.6.3 Ratings

Voltage Ratings and or Insulating Levels

The following standard rated voltages are applicable:

240 V, 440 V, and 600 V. The actual voltage rating for each breaker will be specified in the Invitation to Tender and in the Schedule of Requirements.

The Basic Insulation Level of each breaker shall be minimum 2.5 kV for 240 V, 6 kV for 440 V and 8 kV for 600 V. Creepage distances shall correspond to pollution degree 3 as defined by IEC 947-1.

Rated Currents

The rated continuous current of each breaker will be specified in the Schedule of Requirements.

2.3.7 PROTECTION REQUIREMENTS

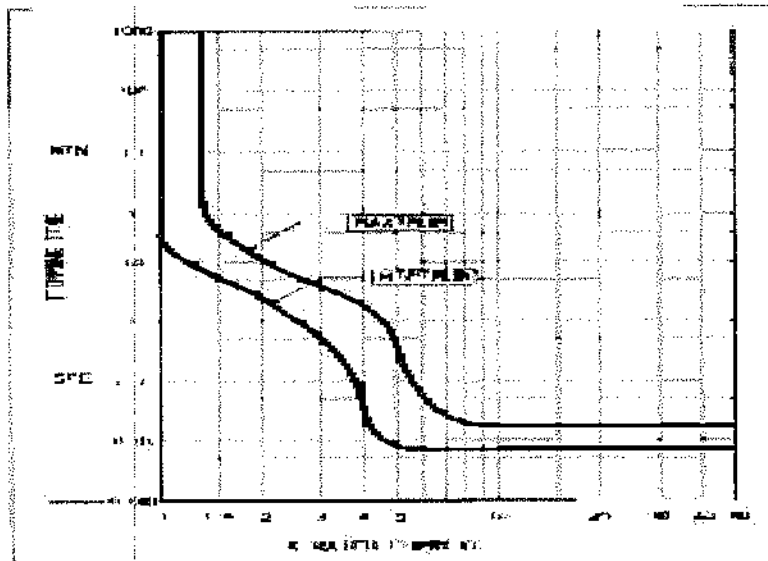
The overcurrent protection shall have Standard Inverse Time Delay characteristic. Trip curves for all breaker current and voltage ratings shall be submitted with the Tender. The curves shall be based on ambient temperature of 40°C without preloading of the breaker. Temperature compensation shall be possible. A typical trip curve for a circuit-breaker showing the time-current characteristic is shown on the figure below. If specified in the Schedule of requirements, for selectivity reasons, the protection shall be provided with short definite time delay facility.



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OPERATING CHARACTERISTIC CURVES



The current setting ranges shall be shown on the trip curves associated with each breaker type and rating and shall also be stated on the data sheets accompanying the breaker.

The breaker shall incorporate two trip elements as follows: -

- (a) Thermal or hydraulic for normal overloads
- (b) Magnetic for short circuits.

The nominal trip current shall not vary by more than 5% as the ambient temperature changes from 20 to 50 °Celsius. The Supplier shall state the trip currents at the following ambient temperatures for each breaker offered: -

- (a) 20° (b) 30° C (c) 35° C (d)40° C (f)45° C (g)50° C

Trip curves shall be provided for each breaker offered

2.3.8 TECHNICAL SCHEDULES

Preamble

The Technical Schedules shall be filled in and completed by the Tenderer, and submitted with the Tender. All documentation necessary to evaluate whether the equipment offered is in accordance with this Specification shall be submitted with the Tender.

All data entered in the Schedules of Technical Guarantees are guaranteed values by the Tenderer and cannot be departed from whatsoever unless specifically permitted by ZETDC.

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2.3.9 TECHNICAL GUARANTEE SCHEDULE: MOULDED CASE AIR CIRCUIT-BREAKERS

Please complete this schedule by stating the actual tendered MCCB in the column labelled Guaranteed Value.

8.1 TECHNICAL GUARANTEE SCHEDULE 60A MCCB

Item	Description	Units	Required	Guaranteed Value
1	Type		Air Circuit Breaker	
2	Current Rating	A	60	
3	Nominal voltage rating	V	400	
4	Maximum voltage rating	V	600	
5	Power Frequency	Hz	50	
6	Basic Insulation level	kV	6	
7	Minimum Rapturing capacity	kA	25	
8	Breaking Capacity		0 - t - C0, t = 3 min	
9	Overcurrent Protection characteristic: Standard Inverse Time Delay Yes/No		Yes	
10	Triple pole and ganged operation: Yes/No		Yes	



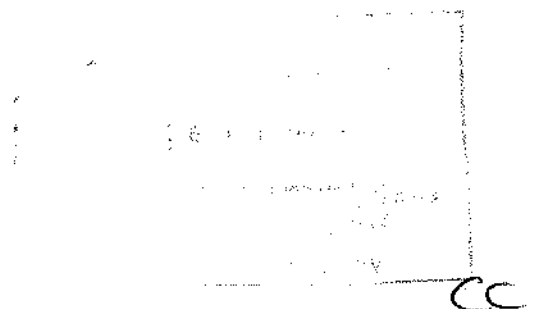
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8.2 TECHNICAL GUARANTEE SCHEDULE 100A MCB

Item	Description	Units	Required	Guaranteed Value
1	Type		Air Circuit Breaker	
2	Current Rating	A	100	
3	Nominal voltage rating	V	400	
4	Maximum voltage rating	V	600	
5	Power Frequency	Hz	50	
6	Basic Insulation level	kV	6	
7	Minimum Rapturing capacity	kA	25	
8	Breaking Capacity		0 - t - C0 , t = 3 min	
9	Overcurrent Protection characteristic: Standard Inverse Time Delay Yes/No		Yes	
10	Triple pole and ganged operation: Yes/No		Yes	



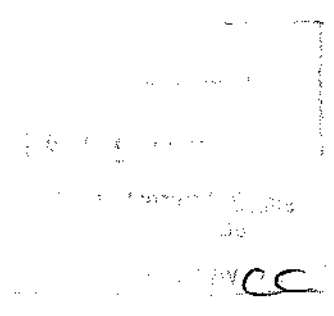
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8.3 TECHNICAL GUARANTEE SCHEDULE 125A MCCB

Item	Description	Units	Required	Guaranteed Value
1	Type		Air Circuit Breaker	
2	Current Rating	A	125	
3	Nominal voltage rating	V	400	
4	Maximum voltage rating	V	600	
5	Power Frequency	Hz	50	
6	Basic Insulation level	kV	6	
7	Minimum Rapturing capacity	kA	35	
8	Breaking Capacity		0 - t - C0 , t = 3 min	
9	Overcurrent Protection characteristic: Standard Inverse Time Delay Yes/No		Yes	
10	Triple pole and ganged operation: Yes/No		Yes	



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8.4 TECHNICAL GUARANTEE SCHEDULE 175A MCCB

Item	Description	Units	Required	Guaranteed Value
1	Type		Air Circuit Breaker	
2	Current Rating	A	175	
3	Nominal voltage rating	V	400	
4	Maximum voltage rating	V	600	
5	Power Frequency	Hz	50	
6	Basic Insulation level	kV	6	
7	Minimum Rapturing capacity	kA	35	
8	Breaking Capacity		0 - t - C0 , t = 3 min	
9	Overcurrent Protection characteristic: Standard Inverse Time Delay Yes/No		Yes	
10	Triple pole and ganged operation: Yes/No		Yes	

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8.5 TECHNICAL GUARANTEE SCHEDULE 350A MCCB

Item	Description	Units	Required	Guaranteed Value
1	Type		Air Circuit Breaker	
2	Current Rating	A	350	
3	Nominal voltage rating	V	400	
4	Maximum voltage rating	V	600	
5	Power Frequency	Hz	50	
6	Basic Insulation level	kV	6	
7	Minimum Rapturing capacity	kA	35	
8	Breaking Capacity		0 - t - C0 , t = 3 min	
9	Overcurrent Protection characteristic: Standard Inverse Time Delay Yes/No		Yes	
10	Triple pole and ganged operation: Yes/No		Yes	

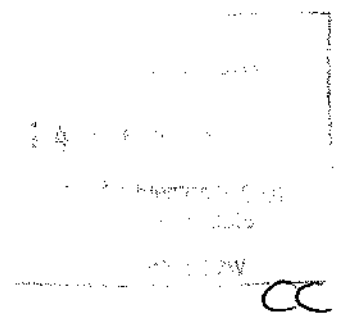
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8.6 TECHNICAL GUARANTEE SCHEDULE 450A MCCB

Item	Description	Units	Required	Guaranteed Value
1	Type		Air Circuit Breaker	
2	Current Rating	A	450	
3	Nominal voltage rating	V	400	
4	Maximum voltage rating	V	600	
5	Power Frequency	Hz	50	
6	Basic Insulation level	kV	6	
7	Minimum Rapturing capacity	kA	50	
8	Breaking Capacity		0 - t - C0, t = 3 min	
9	Overcurrent Protection characteristic: Standard Inverse Time Delay Yes/No		Yes	
10	Triple pole and ganged operation: Yes/No		Yes	

Tenderer's Signature _____



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IMPORTANT INFORMATION

- Valid Letter of **authorisation from manufacturer** to be provided by Agents/Non-manufacturers.
- Compliance statement to the technical specification **on a clause-by-clause basis** to be provided.
- **Technical Guarantee schedule** to be completed in full, signed for and shall be compliant with ZETDC requirements
- **Valid Copy of ISO 9001/2** certification to be provided with the bid.
- **Technical Brochures with detailed literature** covering the tendered items to be included in the bid.
- **Drawings and Diagrams** of the tendered items to be submitted with the bid.
- Manufacturer's supply history of at least 3 years to be provided with the bid.
- Results of **Type tests** carried out by an independent Technical Institute on previously manufactured items must be submitted with the bid.
- At least two manufacturer's trade references on an official letter head shall be submitted with the bid.
- Bidders should note that only the main offers will be considered. No alternatives or options will be entertained unless on a separate bid.

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2.4 Declaration by the Accounting Officer

I declare that the procurement is based on neutral and fair technical requirements and bidder qualifications.

† **Eng. H. Choga**



.....
Signed

14/07/2023
Date

14/07/2023
Procurement Centre
ZETDC
cc

STANDARD BIDDING DOCUMENT FOR THE SUPPLY AND DELIVERY OF AIR CIRCUIT BRAKERS (ACBs).

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Part 3: CONTRACT

CONTRACT AGREEMENT

{For completion with the authorised representative of the Procuring Entity following Notification of Contract Award.}

Procurement Reference:

THIS CONTRACT AGREEMENT is made the [insert: date] day of [insert: month], [insert: year].

BETWEEN

- (1) [insert complete name of Procuring Entity], a [insert description of type of legal entity, for example, an agency of the Ministry of ... of the Government of Zimbabwe, or corporation incorporated under the laws of Zimbabwe] and having its principal place of business at [insert full postal address of Procuring Entity] (hereinafter called "the Procuring Entity"), and
- (2) [insert name of Contractor], a corporation incorporated under the laws of [insert: country of Contractor] and having its principal place of business at [insert full postal address of Contractor] (hereinafter called "the Contractor").

WHEREAS the Procuring Entity invited Bids for certain Services, viz., [insert brief description of Services] and has accepted a Bid by the Contractor for the performance of those Services in the sum of [insert Contract Price in words and figures, expressed in the Contract currency] (hereinafter called "the Contract Price").

THE PROCURING ENTITY AND THE CONTRACTOR AGREE AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the General and Special Conditions of Contract referred to below.
2. The following documents shall constitute the Contract between the Procuring Entity and the Contractor, and each shall be read and construed as an integral part of the Contract:
 - (a) This Contract Agreement;
 - (b) Special Conditions of Contract;
 - (c) General Conditions of Contract;
 - (d) Schedule of Requirements;
 - (e) The Contractor's Bid Submission Sheet, List of Services and Price Schedule and Statement of Methodology, Work Plan and Schedule;

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**STANDARD BIDDING DOCUMENT FOR THE SUPPLY AND DELIVERY OF AIR
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- (f) The Procuring Entity's Notification of Contract Award;
- (g) [Add here any other document(s)].
3. This Contract Agreement shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract Documents, then the documents shall prevail in the order listed above.
4. In consideration for the payments to be made by the Procuring Entity to the Contractor as mentioned below, the Contractor hereby agrees with the Procuring Entity to provide the Services and to remedy any defects in them in conformity with the Contract.
5. The Procuring Entity hereby agrees to pay the Contractor, in consideration for the performance of the Services and the remedying of any defects in them, the Contract Price or such other sum as may become payable under the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed in accordance with the laws of Zimbabwe on the day, month and year indicated above.

For and on behalf of the Procuring Entity

Signed:
Name:	
In the capacity of:	[Title or other appropriate designation]

For and on behalf of the Contractor

Signed:
Name:	
In the capacity of:	[Title or other appropriate designation]

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STANDARD BIDDING DOCUMENT FOR THE SUPPLY AND DELIVERY OF AIR CIRCUIT BRAKERS (ACBs).

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General Conditions of Contract

Any resulting contract is subject to the Zimbabwe General Conditions of Contract (GCC) for the Procurement of Non-Consulting Services (copy available on the Authority's website) except where modified by the Special Conditions below.

Special Conditions of Contract

Procurement Reference Number: ZETDC/INTER/04/2023

The clause numbers given in the first column correspond with the relevant clause number of the General Conditions of Contract.

GCC reference	Special Conditions
GCC 3.6 and 8.1	Authorised representatives: <ol style="list-style-type: none">1. The authorised representative of the Procuring Entity is [names and contact details, including address for delivery of notices].2. The authorised representative of the Contractor is {names and contact details, including address for delivery of notices}.
GCC 7.4	Ineligible countries: Nationals of the following countries are ineligible to be a Contractor or Sub-Contractor under this Contract. None
GCC 18.1	Liquidated damages: Liquidated Damages in terms of section 88 of the Act shall/ apply at a rate of one percent (1%) of the total cost of the order/job card per hour up to a maximum of 120 hours after which the contract may be cancelled.
GCC 19.1	Commencement of Services: The date or period of time for commencement of services is after signing of the contract and receipt of the order.
GCC 20.1	Completion of Services: The date for completion of Services or the period within which the Services are required to be performed is 10 hours on an underground cable whose spans length is up to 10km, after receipt of order.
GCC 22.2	Contract price: Costs specifically excluded from the Contract price are [list excluded cost items].

CC

