

REQUEST FOR TENDER: SUPPLY, INSTALLATION AND
COMMISSIONING OF EQUIPMENT IN CROSSMOOR TRACTION
SUBSTATION AND MEREBANK TIE STATION FOR PRASA RAIL KZN

TENDER NUMBER: DBN/CAP (BAC)027-1



Annexure 5

FORM-C

FORM C: TENDER FORM

CURRENT TENDER DETAILS

Request number: DBN/CAP(BAC) 027-1

Request for Tender: SUPPLY, INSTALLATION AND COMMISSIONING OF EQUIPMENT IN CROSSMOOR
TRACTION SUBSTATION AND MEREBANK TIE STATION FOR PRASA RAIL KZN

I / We

(Insert Name of Tendering Entity)

of

(Full address)

Conducting business under the style or title of:

Represented by:

in my capacity as:

being duly authorised thereto by a Resolution of the Board of Directors / Certificate of Partners, Members or Participants, as the case may be, dated _____, a certified copy of which is annexed hereto, hereby offer to undertake and complete the above-mentioned work (hereinafter called "the WORKS") at the prices quoted in the bills of quantities / schedule of quantities or, where these do not form part of the contract, at a lump sum, in accordance with the terms set forth in the accompanying letter(s) reference _____ and dated _____ (if any) and the documents listed in the accompanying schedule of tender documents for the sum of R _____

**REQUEST FOR TENDER: SUPPLY, INSTALLATION AND
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_____ (amount in words), (All applicable taxes included)

- N.B.** (i) In the event of any discrepancy, the amount in words will take precedence over the amount in figures.
- (ii) Where items in the priced bills of quantities submitted with the tender for the WORKS other than architectural building work are incorrectly extended arithmetically, the unit rate will be treated as decisive.
- (iii) In tenders for architectural building work the total amount will be treated as decisive. If amounts for individual items cannot be reconciled with the total amount, the amounts for individual items shall be adjusted to the satisfaction of the PRASA to conform to the total amount.

I / We accept that unless the PRASA should otherwise decide and so inform me / us in the notice of acceptance, this tender (and, if any, its covering letter and any subsequent exchange of correspondence together with the PRASA acceptance thereof) shall constitute a binding contract between the PRASA and me / us. Should the PRASA decide that a formal contract should be signed and so inform me / us in the notice of acceptance, this tender (and, if any, its covering letter and any subsequent exchange of correspondence) together with the PRASA notice of acceptance, shall constitute a binding contract between the PRASA and me / us until the formal contract is signed.

I / We undertake to produce acceptable documentary proof of the necessary coverage for Workmen's Compensation, Securities and Insurance within **30 (thirty)** working days of notification of awarding of the contract, and to sign a formal contract if called upon by the PRASA to do so within **7 (seven)** working days of notification by the PRASA that the contract documents are ready for signature, failing which I / we accept that the PRASA may, in its sole discretion, withhold any payments due for work done until such time as these formalities have been completed.

I / We undertake to complete the whole of the WORKS within _____
(in words) from the date of notification to me / us of acceptance of the tender, subject to completion in stages if and as laid down in the project specification and to such extensions of time as may be granted. Failing completion of the WORKS or any stage of the WORKS within the period(s) stipulated or by such extended date(s) as may be allowed by the PRASA I / we shall pay to the PRASA in terms of the Conventional Penalties Act 15 of 1962, the penalty for which provision is made in the project specification. The ordering of any alterations, extras, additions or omissions shall not in any way prejudice the PRASA claim for such penalty.

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Application for relief from the obligation to pay a penalty will be considered by the PRASA, but shall be granted only if I / we can prove to the reasonable satisfaction of the PRASA that the penalty is out of proportion to the prejudice suffered by the PRASA by reason of the act or omission in respect of which the penalty was stipulated.

I / We declare that this tender holds good until _____
(a minimum period of 90 days from closing date is required).

I / We further agree that if, after I / we have been notified of the acceptance of my / our tender, I / we fail to enter into a formal contract if called upon to do so, or fail to furnish satisfactory security for the due and proper completion of the WORKS, the PRASA may, without prejudice to any other legal remedy which it may have, recover from me / us any expense to which it may have been put in calling for tenders afresh and / or having to accept any less favourable tender.

I/ We declare that, being a company / partnership / close corporation / joint venture, I / we have duly completed the annexe hereto and certified it as correct.

The several documents involved are to be taken as complementary to each other. In the event of any conflict between the content of any of the documents listed in the schedule of tender documents (other than the project specification) and the project specification, the latter shall prevail. In the event of any conflict between the letter that accompanies the tender or other relevant correspondence and the contents of the documents listed in the schedule of tender documents (including the project specification) such letter or correspondence shall prevail.

THUS DONE and SIGNED at _____

on this _____ day of _____

DULY AUTHORISED SIGNATORY(IES)

WITNESSES

- | | |
|----------|----------|
| 1. _____ | 1. _____ |
| 2. _____ | 2. _____ |
| 3. _____ | 3. _____ |

SBD 6.1

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

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

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

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 To be completed by the organ of state

- a) The applicable preference point system for this tender is the 80/20 preference point system.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
(b) Specific Goals.

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
Total points for Price and SPECIFIC GOALS	100

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

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

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20 or 90/10

$$P_s = 80 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right) \quad \text{or} \quad P_s = 90 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right)$$

Where

P_s = Points scored for price of tender under consideration

P_t = Price of tender under consideration

P_{min} = Price of lowest acceptable tender

3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.2.1.POINTS AWARDED FOR PRICE

A maximum of 80 or 90 points is allocated for price on the following basis:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \\ \mathbf{Ps = 80 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)} & \mathbf{or} & \mathbf{Ps = 90 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)} \end{array}$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax= Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
 - (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system, then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

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

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.)

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

Black Women owned- Certified copy of ID Documents of the Owners	6	
Black Youth owned- Certified copy of ID Documents of the Owners	6	
51 % Black Owned- CIPC Documents / B-BBEE Certificate/Affidavit	8	
TOTAL	20	

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

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

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

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

documentary proof to the satisfaction of the organ of state that the claims are correct;

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

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

SURNAME AND NAME:

DATE:

ADDRESS:

.....

.....

.....

REQUEST FOR TENDER: SUPPLY, INSTALLATION AND COMMISSIONING OF EQUIPMENT IN CROSSMOOR TRACTION SUBSTATION AND MEREBANK TIE STATION FOR PRASA RAIL KZN

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BILL OF QUANTITIES

SCHEDULE OF QUANTITIES AND RATES FOR CROSSMOOR TRACTION SUBSTATION - Nominal Voltage 88kV					
ITEM NO	Description	Unit	Qty	Rate	Total Amount
1.	Dismantling of equipment				
1.1.	Dismantling and Removal of Existing equipment (including fence and doors)	SUM	1		
1.2.	Transportation of equipment from site to Durban Electrical Depot	SUM	1		
2.	Outdoor Yard				
2.1.	Removal of weeds and treatment of soil (entire substation yard)	/m2	500		
2.2.	Crusher Stone 25mm (Supply and Installation)	/m2	500		
2.3.	Supply and Install Auxiliary Transformer Fence (including poles)	/m	8		
2.4.	Supply and install 13m high mast light with four 400W mercury vapour lights along with a day light switch and all the associated works including foundation.	Each	1		
3.	Supply and Install Outdoor Equipment				
3.1	AC Disconnects	/Set	1		
3.2	Surge Arrestors (one per phase)	/Set	1		
3.3	Primary Circuit Breaker	Ea.	1		
3.4	Busbars (CT, PCB, AC Disconnects)	/m	30		
3.5	Busbars (Transformer to CT)	/m	10		
3.6	Aluminum 25x50mm Busbars (Transformer to wall bushings)	/m	50		
3.7	Wall Bushings (set of six bushings)	/Set	1		

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SCHEDULE OF QUANTITIES AND RATES FOR CROSSMOOR TRACTION SUBSTATION
Nominal Voltage 88kV

ITEM NO	Description	Unit	Qty	Rate	Total Amount
3.8	Negative Return (Cables and Connection thereof)	/m	100		
3.9	Supply and install control cables complete	SUM	1		
3.10	Auxiliary Transformer (100 kVA)	Each	1		
3.11	Current Transformers (Mount into existing structures)	Each	3		
3.12	6 Phase, 6MVA Traction Transformer (incl. bund walls covered with galvanized grid)	Each	1		
4.	Earthing (Supply and Install)				
4.1	AC Earthing (including earth mat)	SUM	1		
4.2	DC Earthing	SUM	1		
4.3	AC Earth Leakage (Inc. CT)	each	1		
4.4	DC Earth Leakage	each	1		
5.	Supply and Install Indoor Equipment				
5.1	Solid Aluminum bus bars(25x50mm) from the wall bushings to the rectifier	/m	50		
5.2	Battery Bank complete with charger (250AH) Gel type	/Set	1		
5.3	50kVA, 400/400V AC, Dyn11, 3-phase AC, 50Hz Isolation transformer (1:1) complete with all the necessary ancillary equipment	Each	1		
5.4	400V AC, low voltage power cable, 50 X 4 core ABC, from auxiliary transformer to Distribution panels inside the substation. Rate to include compression glands, and any other accessories	m	100		
5.5	Chequer plates	SUM	1		

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SCHEDULE OF QUANTITIES AND RATES FOR CROSSMOOR TRACTION SUBSTATION
Nominal Voltage 88kV

ITEM NO	Description	Unit	Qty	Rate	Total Amount
5.6	Aluminum 127x12.5mm Busbars (HSCB to wall bushings)	/m	50		
5.7	Wall bushing, including the hot dip galvanised anode plates – Set of 4	/Set	1		
5.8	Supply and install 3kV Busbar Chamber, doors and limit switches and warning boards	Sum	2		
5.9	Complete tele-control panel with all the associated cards listed in item 6.7	Each	1		
5.10	Supply, install and configure the network switch as specified in 6.7.3.1	Complete	1		
6.	Supply and Install 3Kv Outdoor equipment				
6.1	Supply and install 800mm ² Al conductor feeder cables	m	1500		
6.2	3kV Surge Arrestors	Each	8		
6.3	4kV Capacitors	Each	8		
6.4	Switch structures with spike gaps, earth spikes, a negative bar, bonding to tracks and all other associated works.	Sum	1		
6.5	Track switches and all other necessary accessories.	Each	2		
7.	Substation Building				
7.1	Supply and install a complete set of 5 fluorescent indoor lights.	SUM	1		
7.2	Supply and install 500W LED outdoor lights, including cabling and all associated works	Each	5		
7.3	Supply and install fluorescent emergency indoor lights including cabling and all associated works	Each	3		
7.4	Wall Mounted fan complete with controls and louvres and filters	Each	1		

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7.5.	Supply and install wheely birds	Each	1		
7.6	Substation High Voltage Signs (indoor, outdoor complete)	Each	2		
SCHEDULE OF QUANTITIES AND RATES FOR CROSSMOOR TRACTION SUBSTATION Nominal Voltage 88kV					
ITEM NO	Description	Unit	Qty	Rate	Total Amount
7.7	Supply and install 5kg CO ₂ Fire Extinguishers	Each	1		
7.8	Supply and install drainage system and sealing for water coming underneath the building	SUM	1		
8	P's and G's				
8.1	Preliminary and General (site establishment, security, etc.)	SUM	1		
8.2	Health and Safety Officer	SUM	1		
8.3	Community Liaison Officer	SUM	1	R20 000.00	R160 000.00
9	Factory Acceptance Test				
9.1	Allow for factory functional tests to be conducted by the manufacturers of all the equipment at their premises.	SUM	1		
10	As built drawings and Manuals				
10.1	Provide 2 sets of detailed operating manuals and maintenance instructions of all equipment, switchgear relays, transformers, and other electrical equipment. Hard copies and electronic format on memory Stick.	set of 2	2		
10.2	Supply as built drawings for the substation	Sum	1		
11	Testing and commissioning				
11.1	Test and commission all supplied, installed and existing equipment	Sum	1		
				SUBTOTAL	
				VAT (15%)	
				TOTAL (A)	

B. MEREBANK 3KV TRACTION TIE STATION

SCHEDULE OF QUANTITIES AND RATES FOR MEREBANK 3KV TRACTION TIE SUBSTATION

ITEM NO	Description	Unit	Qty	Rate	Total Amount
1.	Dismantling and Transportation				
1.1	Dismantling and Removal of Existing equipment (including fence and doors)	SUM	1		
1.2	Transportation of equipment from site to Durban Electrical Depot	SUM	1		
2.	Outdoor Yard				
2.1	Removal of weeds (entire substation yard)	/m ²	500		
2.2	Supply and lay river sand and all the associated works.	/m ²	500		
2.3	Supply and install Crusher Stone 25mm	/m ²	500		
3.	Supply and Install Indoor Equipment				
3.1	Supply and install a three way change over AC/ DC Distribution Panel	Each	1		
3.2	Supply and Install Battery Bank complete with charger (250AH) Gel type	/Set	1		
3.3	Under Voltage Relay (Optic fibre and potential divider)	Each	1		
3.4	Supply and installation of Secheron UR40 4000A or similar track breakers and all the associated works.	Each	11		
3.5	Supply and installation of modular cells, this shall include all the required busbars, ECRs and earthing switches and all the associated works. Including insulation underneath the modular cells and all the associated works.	Each	11		

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3.6	Supply and installation of wall bushing, including the hot dip galvanized anode plates – set of 13	/Set	1		
SCHEDULE OF QUANTITIES AND RATES FOR MEREBANK 3KV TRACTION TIE SUBSTATION					
ITEM NO	Description	Unit	Quantity	Rate	Total Amount
3.7	Supply and Install Aluminum busbars(127X12.5mm) from HSCB to wall bushings	/m	50		
3.8	Supply and install busbar chamber, door and limit switches and warning boards	Each	4		
3.9	Supply and installation of 50KVA, 400V/400V isolation transformer and all the associated works.	Each	1		
3.10	Supply and install control cables complete	SUM	1		
3.11	Supply and install chequer plates	SUM	1		
3.12	Complete tele-control panel with all the associated cards listed in item 6.7	Each	1		
3.13	Supply, install and configure the network switch as specified in 6.7.3.1.	Complete	1		
4.	Outdoor Equipment				
4.1	Supply and installation of 100kVA, 11kV/6.6kV/400V pole mounted transformer on the mast; this shall include H frame, 10A fuse links, fuse carrier, aluminium jumpers, 11Kv/6.6kV surge arresters, 100A LV box and all the associated accessories	Each	1		

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4.2	Supply and installation of (50mm ² X 4) low voltage, aluminium aerial bundled conductor from the 100KVA transformer to the substation; this shall include all terminations, clamps, suspension brackets, suspension clamps, PVC trunking etc and all the associated works.	m	150		
4.4	Supply and install 800mm ² Al conductor feeder cables including associated accessories	m	1500		
4.5	3kV Surge Arrestors	Each	26		
4.6	4kV Capacitors	Each	26		

SCHEDULE OF QUANTITIES AND RATES FOR MEREBANK 3KV TRACTION TIE SUBSTATION

ITEM NO	Description	Unit	Quantity	Rate	Total Amount
4.7	Supply and install switch structures with spike gaps, earth spikes and all other associated works.	Sum	2		
4.8	Supply and install track switches and all other necessary accessories.	Each	11		
5.	Supply and Install Earthing				
5.1	DC Earthing	SUM	1		
5.2	DC Earth leakage	SUM	1		
6	Substation Building				
6.1	Supply and install a complete set of 6 fluorescent indoor lights.	SUM	1		
6.2	Supply and install 500W LED outdoor lights, including cabling and all associated works	Each	6		
6.3	Supply and install fluorescent emergency indoor lights including cabling and all associated works	Each	3		
6.4	Supply and installation of 13m high mast light with four 400W mercury vapour lights along with a day light switch and all the associated works.	Each	1		
6.5	Wall Mounted fan complete with controls and louvres and filters	Each	1		
6.6	Supply and install wheely birds	Each	1		

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6.7	Substation High Voltage Signs (indoor, outdoor complete)	Each	2		
6.8	Supply and install 5kg CO ₂ Fire Extinguishers	Each	1		
6.9	Supply and installation of three hot deep galvanized steel single safe doors and all the associated works.	Each	3		
6.10	Supply and installation of hot deep galvanized steel double door and all the associated works.	Each	1		
6.11	Supply and installation of complete roof (IBR sheet) with gutters, insulation, and ventilation and all the associated works.	Sum	1		

SCHEDULE OF QUANTITIES AND RATES FOR MEREBANK 3KV TRACTION

ITEM NO	Description	Unit	Quantity	Rate	Total Amount
7.	P's and G's				
7.1	Preliminary and General (site establishment, security, etc.)	SUM	1		
7.2	Health and Safety Officer	SUM	1		
7.3	Community Liaison Officer	SUM	1	R 20 000.00	R 160 000.00
8.	Factory Acceptance Test				
8.1	Allow for factory functional tests to be conducted by the manufacturers of all the equipment at their premises.	SUM	1		
9	As built drawings and Manuals				
9.1	Provide 2 sets of detailed operating manuals and maintenance instructions of all equipment, switchgear relays, transformers, and other electrical equipment. Hard copies and electronic format on memory Stick.	set of 2	2		

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9.2	Supply as built drawings for the substation	Sum	1		
10	Testing and commissioning				
10.1	Test and commission all supplied and installed equipment	Sum	1		
				SUBTOTAL	
				VAT (15%)	
				TOTAL (B)	

C. PROJECT TOTAL COSTS

Total A	R
Total B	R
Total(A+B)	R
Contingencies (15% of the approved contract value)	R
Grand Total	R