



Transnet SOC Limited
Transnet RME

REQUEST FOR QUOTATION

BOARD LIST TFR RME
TRANSNET FREIGHT RAIL - RME
PROCUREMENT DEPARTMENT
2000

Registration Number: 1990/000900/30
Vat Number : 4720103177

Attention:
TFR Tender Board.
Telephone Number :
Fax Number :
Vendor Number :2004815

Quotation Deadline Date : 14.01.2016
Quotation Deadline Time : 12:00

REQUEST for QUOTATION
Transnet RME
RFQ Number / Date
6000240864 / 01.01.2016
Contact Person / Telephone
Eddie Quinn / 035 906 7347
Return to FAX Number/EMAIL
0865 59978 / TCPtendersRichardsBay@Transnet.net

PREVIEW COPY ONLY

Item	Material	Description	RFQ Qty	UoM	Required Del date	Confirm Del date	Unit Price Excl	Total Price Excl
00010		O/Door Transformer 50kV	1	ea	29.01.2016			

Supply, Deliver and Safely Offload, 1 x Outdoor Transformer, 50kVA, 1100/440 Volt, 3 Phase, Platform Mounted, as per the attached Specification No: BBB8204 Version: 2.

APPENDIX 2, to be Completed and Submitted with your Offer. (Pages: 8 & 9 of 9.)

Deliver Transformer to: 1 Morris Rd - Empangeni Rail
Contac: Mr Pierre Crocker Tel: 035-905 3638 / 083 279 0437.

Transnet Limited t/a Transnet Freight Rail (R.M.E.) # Richards Bay, hereby invite your company to submit a detailed quotation for:

The Supply & Delivery of Various O.H.L.E. Equipment, (As requested above.)

All technical queries relating to this invitation may be addressed to;
Mr. Pierre Crocker Tel: 083 279 0437 / 035-905 3638.

All tender related queries pertaining to this invitation may be addressed to;
Mr. Eddie Quinn, Tel: 035 # 906 7347.



Transnet SOC Limited
Transnet RME
 BOARD LIST TFR RME
 TRANSNET FREIGHT RAIL - RME
 PROCUREMENT DEPARTMENT
 2000
 YOUR VAT NUMBER WITH US: NOT

REQUEST FOR QUOTATION

Registration Number: 1990/000900/30
Vat Number : 4720103177

Attention:
 TFR Tender Board.
 Telephone Number :
 Fax Number :
 Vendor Number : 2004815

Quotation Deadline Date : 14.01.2016
Quotation Deadline Time : 12:00

REQUEST for QUOTATION
 Transnet RME
RFQ Number / Date
 6000240864 / 05.01.2016
Contact Person / Telephone
 Eddie Quinn / 086 515 906 7347
Return to FAX Number/EMAIL
 0865 59978 / TCPtendersRichardsBay@Transnet.net

Item	Material	Description	RFQ Qty	UoM	Required Del date	Confirm Del date	Unit Price Excl	Total Price Excl
------	----------	-------------	---------	-----	-------------------	------------------	-----------------	------------------

The closing time for receipt of your official quotations is 12:00 hours on ~~Wednesday~~ ^{THURSDAY} 14 January 2016.

Transnet desires a validity period of 90 (Ninety) days from the closing date of this RFQ.

Telephonic, Hand delivered and Late quotes will not be accepted.
 All quotations should be clearly marked, and may be faxed or e-mailed to:
 Miss Yogeshnie Gengan, Tender & Fax Assistant,
 Fax No: 086 515 9978 and / or
 e-mailed to: TCPtendersRichardsBay@transnet.net

The contractor's address and identification details have to be shown on each quotation submitted.

- Please submit the following documents with your quotation;
- * Valid Tax Clearance certificate.
 - * Copy of your latest B.B.B.E.E. Certificate.
 - * Appendix 2 to be completed and returned with your offer.

* Failing to submit a valid Tax Clearance Certificate could result in your quotation to be disqualified / not accepted but, not submitting or submitting an expired BBBEE Certificate, will result in scoring zero (0) points for evaluation purposes. *

N.B. Failing to complete and Submit Appendix 2, will result in your offer to be disqualified / not evaluated.

Note: #Transnet may not necessarily accept the lowest or any other offer and reserves the right to select in its favor any or, a portion of any offer made"



Transnet SOC Limited
 Transnet RME
 BOARD LIST TFR RME
 TRANSNET FREIGHT RAIL - RME
 PROCUREMENT DEPARTMENT
 2000
 YOUR VAT NUMBER WITH US: NOT

REQUEST FOR QUOTATION

Registration Number: 1990/000900/30
 Vat Number : 4720103177

Attention:
 TFR Tender Board.
 Telephone Number :
 Fax Number :
 Vendor Number :2004815

Quotation Deadline Date : 14.01.2016
Quotation Deadline Time : 12:00

REQUEST for QUOTATION
 Transnet RME
RFQ Number / Date
 6000240864 / 05.01.2016
Contact Person / Telephone
 Eddie Quinn / 085 906 7347
Return to FAX Number/EMAIL
 0865 59978 / TCPtendersRichardsBay@Transnet.net

Item	Material	Description	RFQ Qty	UoM	Required Del date	Confirm Del date	Unit Price Excl	Total Price Excl
------	----------	-------------	---------	-----	-------------------	------------------	-----------------	------------------

If you have been contacted directly by the Supply Chain Office (Via a RFQ.) and you are unable to quote for these items, please submit a NO QUOTE.

Otherwise we look forward to receive your detailed quote by the date and time stated

Yours faithfully,

"PREVIEW COPY ONLY"



REQUEST FOR QUOTATION

Transnet SOC Limited
 Transnet RME
 BOARD LIST TFR RME
 TRANSNET FREIGHT RAIL - RME
 PROCUREMENT DEPARTMENT
 2000
 YOUR VAT NUMBER WITH US: NOT

Registration Number: 1990/000900/30
 Vat Number : 4720103177

Attention:

TFR Tender Board.
 Telephone Number :
 Fax Number :
 Vendor Number : 2004815

Quotation Deadline Date : 14.01.2016
 Quotation Deadline Time : 12:00

REQUEST for QUOTATION

Transnet RME

RFQ Number / Date

6000240864 / 05.01.2016

Contact Person / Telephone

Eddie Quinn / 021 906 7347

Return to FAX Number/EMAIL

0865 59978 / TCPtendersRichardsBay@Transnet.net

Delivery Address

TFR RME Richards Bay
 Old Naval Base, Commodores Clo
 Meerensee, Richards Bay
 3900

This RFQ is subject to the following conditions:

1. Price/s : The price/s quoted in SA currency and is excluding of VAT.
2. Delivery : The price/s quoted should include delivery cost to the delivery address stated on the RFQ
3. Returnables : A valid tax clearance certificate and BBBEE certificate from a SANAS accredited verification agency attached to quotation for all quotes above R30 000.
Please note that only the official Transnet RFQ will be accepted and all other correspondence to be attached to the original
4. Safety : To confirm to Transnet Freight Rail RME Health & Safety plan and specification; HAS-std-0001, copy available on request.
5. Confirmation: To confirm your participation in this tender process please sign and return this document as immediate effect prior to the quotation deadline.
6. Negotiations: The Employer may elect to negotiate the final terms of the contract/order with the preferred tenderer in accordance with Clauses F.2.17 and F.3.13 of the CIDB Standard Conditions of Tender. A copy of which is available upon request.
7. Quotes will not be acceptable if not sending to the given fax or e-mail (please do not CC any buyer)
8. Should your company not receive any response from Transnet within 30 days of closing of a RFQ, please accept that your quotation was unsuccessful.

 Signature

 Date

R30. 10504582



TECHNOLOGY MANAGEMENT

SPECIFICATION

MEDIUM VOLTAGE DISTRIBUTION AND SUPPLY TRANSFORMERS IN ACCORDANCE WITH SANS 780. (For nominal system voltages up to 33 kV)

"PREVIEW COPY ONLY"

Author: Chief Engineering Technician
 Technology Management
 Approved: Senior Engineer
 Technology Management
 Authorised: Principal Engineer
 Technology Management

L.O. Scholtz
 L.O. Borchard
 W.A. Coetzee

Date: 19th April 2008

Circulation Restricted To:

Transnet Freight Rail - Chief Engineer Infrastructure
 - Technology Management

© This document as a whole is protected by copyright. The information herein is the sole property of Transnet Ltd. It may not be used, disclosed or reproduced in part or in whole in any manner whatsoever, except with the written permission of and in a manner permitted by the proprietors.

INDEX

SECTION	CONTENTS	PAGE NO
1.0	SCOPE.	3
2.0	BACKGROUND	3
3.0	STANDARDS AND PUBLICATIONS.	3
4.0	APPENDICES	3
5.0	TENDERING PROCEDURE	3
6.0	SERVICE CONDITIONS	4
7.0	TECHNICAL REQUIREMENTS	4
8.0	DRAWINGS AND MAINTENANCE MANUALS	4
9.0	INSPECTION AND TESTS	5
10.0	QUALITY ASSURANCE	5
11.0	GUARANTEE AND DEFECTS	5
	APPENDIX 1	6
	APPENDIX 2	8

"PREVIEW COPY ONLY"

1.0 SCOPE

- 1.1 This specification covers Transnet freight rail's requirements for single phase and three phase oil immersed type distribution and supply transformers for indoor or outdoor use in accordance with SANS 780.

2.0 BACKGROUND

- 2.1 Distribution and supply transformers are used on Transnet freight rail for the following applications:

- Supply transformers are used as step down transformers for power distribution of the 11kV and 6,6 kV Transnet freight rail reticulation systems and the 11 kV and 6,6 kV transmission line network.
- Distribution transformers are used as step down transformers for the provision of power at a required voltage.
- Distribution transformers are also used on the 11 kV and 6,6 kV transmission line system for step down supply points to signals relay rooms and for auxiliary supplies to traction substations etc.

3.0 STANDARDS AND PUBLICATIONS

The transformer shall comply with all relevant requirements of the latest edition of the specifications as listed in SANS 780.

3.1 SOUTH AFRICAN NATIONAL STANDARDS

- | | |
|-----------|--|
| SANS 121 | Hot-dip galvanized coatings for fabricated iron or steel articles. |
| SANS 780 | Distribution Transformer. |
| SANS 1091 | National colour standard. |
| SANS 9001 | Quality Management Systems Requirements. |

3.2 TRANSNET FREIGHT RAIL

- | | |
|-----------|--|
| CEE.0224. | Drawings, Catalogues, Instruction Manuals and Spares lists for Electrical Equipment supplied under contract. |
|-----------|--|

4.0 APPENDICES

The following appendices form an integral part of this specification:

- | | |
|-------------|--|
| Appendix 1: | Schedule of requirements. |
| Appendix 2: | Information provided by the tenderers. |

5.0 TENDERING PROCEDURE

- 5.1 Tenderers shall indicate clause by clause compliance with the specification. This shall take the form of a separate document listing all the specifications clause numbers indicating the individual statement of compliance or non-compliance.
- 5.2 A statement of non-compliance shall be motivated by the tenderer.
- 5.3 Tenderers shall complete Appendix B. " Information to be provided by tenderers."
- 5.4 Tenderers shall submit descriptive literature consisting of detailed technical specifications, general constructional details and principal dimensions, together with clear illustrations of the equipment offered.
- 5.5 Failure to comply with clauses 5.1, 5.2, 5.3 and 5.4 could preclude a tender from consideration.

6.0 SERVICE CONDITIONS.

The transformers shall be designed to operate under the following conditions.

6.1 ATMOSPHERIC CONDITIONS

Altitude:	0 to 1800m above sea level.
Ambient temperature:	-5°C to +45 °C.
Relative humidity:	10% to 90%.
Lightning Conditions:	12 ground flashes per square kilometre per annum.
Pollution:	Heavily salt laden or polluted with smoke from industrial sources.

6.2 ELECTRICAL CONDITIONS

Frequency: The AC high voltage supply will normally be supplied by Eskom. The frequency will be 50 ± 2.5 Hz.

Harmonics: For the supply transformers installed at the traction substations to supply power to the 11 kV and 6,6 kV transmission lines systems, it can be expected that the low voltage winding of such transformers shall be subjected to the total voltage harmonic distortion of up to 27%. Distribution transformers that are used for step down points at the 11 kV and 6,6 kV transmission line systems to step down voltages to 400 V/ 230 V for signal relay rooms, auxiliary supplies to traction substations or any other application shall be subjected to the total voltage harmonic distortion of up to 27%.

No of Phases: Three phase system

7.0 TECHNICAL REQUIREMENTS

7.1 CONSTRUCTIONAL REQUIREMENTS

7.1.1 The "schedule of requirements" Appendix 1 shall determine the constructional requirement of the transformers.

7.2 PAINTING AND CORROSIVE PROTECTION.

7.2.1 The corrosion protection and coatings both interior and external surfaces shall be in accordance with Clause 4.17 of SANS 780 and shall be suitable for coastal and heavily polluted conditions.

7.2.2 The transformer radiators shall be hot dipped galvanized in accordance with SANS 101 for coastal and heavily polluted conditions and be painted.

7.2.3 Internal surfaces of the conservator tank above oil level including the tank shall be protected from corrosion by varnishing, priming or painting as specified in clause 4.17.2 for coatings of interior services of SANS 780.

7.2.4 The conservator tank where required shall be painted white.

7.2.5 The finished external coats of paint of the transformer tank shall match the colour G12 for grey as specified in SANS 1091.

8.0 DRAWINGS AND MAINTENANCE MANUALS

8.1 Drawings, instruction manuals and spares lists shall be supplied in accordance with Transnet freight rail's specification CEE.0224.

8.2 Three copies of each of the following drawings shall be submitted to the responsible project manager for approval within 7 days of the order being placed.

8.2.1 Dimension drawings showing external arrangements of transformer.

8.2.2 External wiring diagrams for the transformer.

8.2.3 Vector diagram and rating plate.

9.0 INSPECTION AND TESTS

9.1 Transnet freight rail reserves the right to carry out inspection and any tests on the equipment at the works of the supplier/ manufacturer.

9.2 Arrangements must be made timeously with the Senior Engineer, Technology Management for inspections and tests prior to delivery.

9.3 All routine tests shall be carried out in accordance to SANS 780.

9.4 These tests shall be carried out at the manufacturers premises and shall be witnessed by Transnet freight rail's Quality Assurance staff.

9.5 Type test certificates for the same type of transformers with the validity of five years or less must be made available.

10.0 QUALITY ASSURANCE

10.1 The supplier must indicate what steps have been taken to implement a quality assurance system in terms of SANS 9001.

11.0 GUARANTEE AND DEFECTS

11.1 The contractor shall guarantee the transformer and accept liability for maker's defects, which may appear in design, materials and workmanship.

11.2 The guarantee period for the transformer shall expire after a period of 12 months commencing on the date of commissioning of the equipment.

END

PREVIEW COPY ONLY

APPENDIX 1

SCHEDULE OF REQUIREMENTS
(To be completed by client)

SYSTEM DETAIL

- 1.0 Transformer required for: BH12010 substation/location
- 2.0 Nominal system voltage: 11 kV
- 3.0 Number of phases: 3
- 4.0 Frequency: 50 Hz
- 5.0 Neutral point effectively earthed: Yes No

TRANSFORMER DETAIL

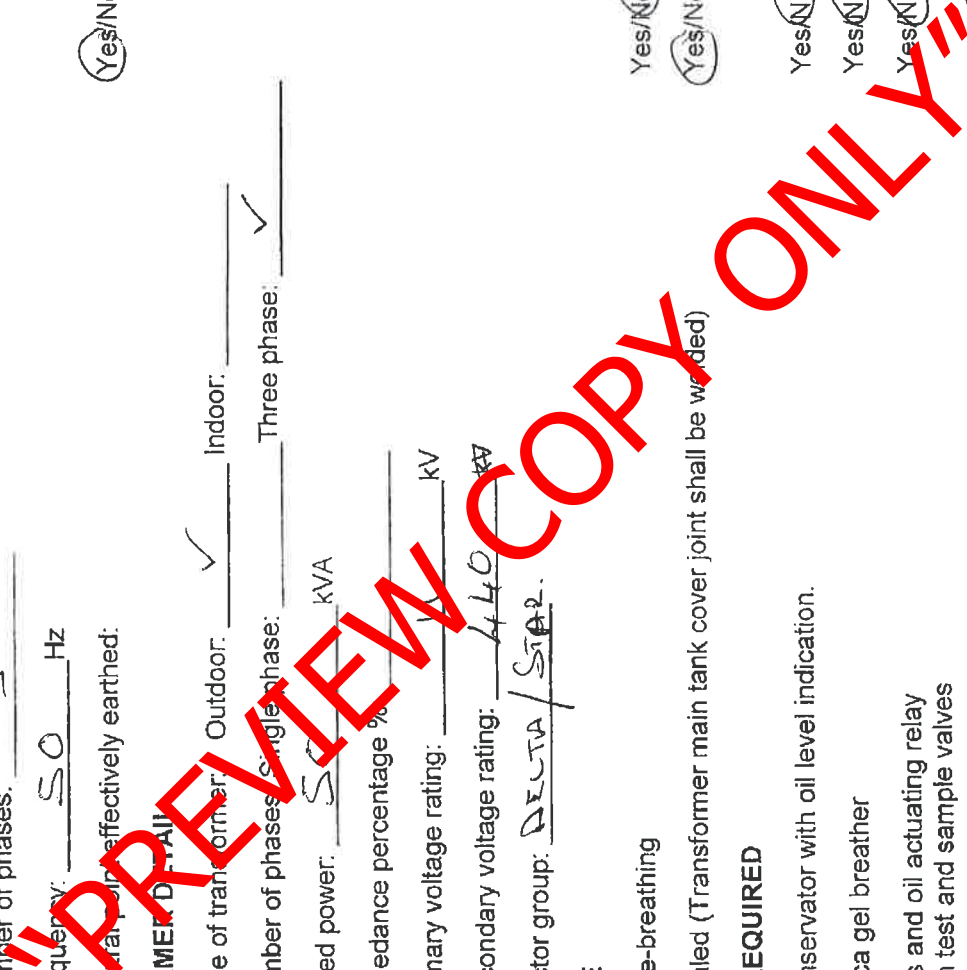
- 1.0 Type of transformer: Outdoor: Indoor:
- 2.0 Number of phases: Single phase: Three phase:
- 3.0 Rated power: 500 kVA
- 4.0 Impedance percentage %: _____
- 5.0 Primary voltage rating: _____ kV
- 6.0 Secondary voltage rating: 440 V
- 7.0 Vector group: DELTA/STAR

TANK TYPE

- 1.0 Free-breathing Yes No
- 2.0 Sealed (Transformer main tank cover joint shall be welded) Yes No

FITTINGS REQUIRED

- 1.0 Conservator with oil level indication. Yes No
- 2.0 Silica gel breather Yes No
- 3.0 Gas and oil actuating relay with test and sample valves Yes No
- 4.0 Main tank drain valve Yes No
- 5.0 Indicating thermometer Yes No
- 5.1 Oil temperature Yes No
- 5.2 Winding temperature indication Yes No
- 6.0 Radiators. Yes No
- 7.0 Auxiliary wiring terminal box Yes No
- 8.0 Neutral current transformer required Yes No
- 8.1 Ratio: _____ Yes No



- 8.2 Class: _____
- 8.3 VA Rating: _____
- 9.0 Off circuit tap switch required Yes No
- 9.1 Number of tap positions: _____
- 10.0 Bushings required: Outdoor: Indoor: _____
- 11.0 High voltage side Yes No
- Low voltage side Yes No
- Cable box required Yes No
- Number and types of cables per phase
- High voltage side: _____
- Low voltage side: _____
- Neutral required
- High voltage side
- Low voltage side
- Number and types of cables per neutral: _____ x 70 mm²
- 13.0 Mountings
- 13.1 Pole mounting Yes No
- 13.2 Platform mounting Yes No
- 13.3 Flat underbase Yes No
- 13.4 Skid underbase Yes No
- 13.5 Wheels and axles Yes No
- 13.6 Lifting lugs Yes No
- 13.7 Jacking pads Yes No
- 14.0 Dimensions (if critical)
- Length: mm. Breadth: mm. Height: mm

15.0 Special requirements: _____



END

APPENDIX 2

INFORMATION TO BE PROVIDED BY TENDERERS

1.0 GENERAL

1.1 Manufacturers name: _____

2.0 TRANSFORMER DETAIL

1.0 Type of transformer: Outdoor: _____ Indoor: _____

2.0 Number of phases: Single phase: _____ Three phase: _____

3.0 Rated power: _____ KVA

4.0 Impedance (percentage) %: _____

5.0 Primary voltage rating: _____ kV

6.0 Secondary voltage rating: _____ kV

7.0 Tapping Switch: _____

No of positions: _____ %Steps: _____

8.0 Vector group: _____

9.0 Free Breathing Yes/No

10.0 Sealed Yes/No

11.0 Welded cover Yes/No

12.0 Method of Cooling: _____

13.0 Overall dimensions: Length _____ mm. Breadth _____ mm. Height _____ mm

14.0 Winding material: HV _____ LV _____

15.0 Mass of core and windings: _____ kg

16.0 Oil capacity: _____ (Litres)

17.0 Mass of transformer complete with oil: _____ kg

18.0 HV end turns insulation reinforced Yes/No

19.0 Type of breather and dehydrating agent: _____

20.0 The following information refers to the transformer when connected on the principal tapping and appropriate reference temperature for the class of insulation used.

20.1 Iron loss (Watts): _____

20.2 Copper loss at full load: _____ at _____ °C

20.3 Total load losses (Watts): _____ at _____ °C

20.4 Impedance at full load (percentage) _____ Z _____ X

20.5 Regulation at full load at: 1.0 PF _____ Percent, 0.8 PF _____ Percent at _____ °C



20.6 Efficiency at full load at: 1.0 PF _____ Percent, 0.8 PF _____ Percent at _____ °C

20.7 Temperature rise at rated voltage and power of:

Windings: _____ °C

Top oil: _____ °C

END

"PREVIEW COPY ONLY"