TRANSNET

Transnet freight rail, a division of

TRANSNET SOC LTD

Registration Number 1990/000900/30

[hereinafter referred to as **Transnet**]

REQUEST FOR QUOTATION [RFQ] No PTH 52498

DESCRIPTION:	**THE REFURBISHMENT OF 5 (FIVE) 20MVA TRACTION TRANSFORMERS SITUATED AT LESSEYTON-, CARRICKMORE-, DOHNE- AND LALISA SUBSTATIONS**
LOCATION:	**EASTERN CAPE**
ISSUE DATE:	**01 October 2013**
CLOSING DATE:	**05 November 2013**
CLOSING TIME:	**12:00**

TRANSNET

SCHEDULE OF DOCUMENTS

Section 1

NOTICE TO BIDDERS

Quotations are requested from interested persons, companies, close corporations or enterprises (hereinafter referred to as the "**Respondent(s)**") to supply the above-mentioned requirement to Transnet.

On or after 02 October 2013 RFQ documents may be inspected at, and are obtainable from the Regional Supply Chain Office, 1st Floor, Room 105, Stow Road, Uitenhage.

Arrangements for the collection of the RFQ documents can be made with Me. Babalwa Myozolo on telephone number 041 – 994 2042 or email: Babalwa.myozolo@transnet.net

NB: No RFQ documents will be issued after the compulsory information briefing session and site visits.

No RFQ/tender fee is applicable and will be issued **"FREE OF CHARGE"** to all respondents.

A compulsory information briefing session and site visits will be conducted on 21 – 22 October 2013. Attendance is compulsory and failure to attend will disqualify submissions from evaluation. The compulsory information briefing session and site visits will be conducted over a period of 2 days, starting in East London and ending in Burgersdorp on 22 October 2013.

The compulsory information briefing session will start punctually at 08h00 and Respondents must please ensure that they arrive on time to prevent any delays.

Details of the compulsory information briefing session & site visits:

Date: **21 October 2013**
Venue: **Transnet Freight Rail**
Infra Boardroom (2nd floor Floor)
1A Cambridge Street
East London
Time: **08h00**

Immediately after the information briefing session, the Dohne substation near Stutterheim and Lesseyton substation near Queenstown will be visited.

(NB: All attendees to the abovementioned information briefing session will meet in Burgersdorp at 08h00 on 22 October 2013 to continue with the site visits to the remaining substations
For directions, Mr. Evert Koffeman may be contacted on cell: 083 387 3615.

The above-mentioned session are to be used as an opportunity for the attendees to familiarise themselves with the scope of the requirements and furthermore for bidders to pose and for TFR to respond in terms of "questions and answers". It is hence required that prospective bidders are fully familiar with the entire tender pack prior to attending these sessions. All respondents are to provide their own transportation and accommodation to and from the abovementioned session and will be for their own expense. Transnet will not provide transport in any form.

Quotations which must be completed as indicated in Section 2 of this RFQ are to be submitted as follows:

METHOD: Post and/or courier

CLOSING VENUE:

Postal Address:

Transnet Freight Rail
Secretariat of the Acquisition Council, Admin Support Office
Po Box 95
Uitenhage
6230

Physical Address:

Transnet Freight Rail
Secretariat of the Acquisition Council, Admin Support Office
Supply Chain Services Building
1st Floor Passage
Stow Road
Uitenhage
6229

NB: Quotations must be enclosed in a sealed envelope which must have inscribed on the outside:

RFQ No	**: PTH 52498**
Description	**: Refurbishment of Transformers**
Closing date and time	**: 05 November 2013 at 12h00**
Closing address (refer to above mentioned options)	

1 Responses to RFQ

Responses to this RFQ [**Quotations**] must not include documents or reference relating to any other quotation or proposal. Any additional conditions must be embodied in an accompanying letter. The original signed RFQ will serve as the legal binding document and no copies will be accepted for evaluation purposes.

2 Broad-Based Black Economic Empowerment [B-BBEE]

Transnet fully endorses and supports the Government's Broad-Based Black Economic Empowerment Programme and it would therefore prefer to do business with local business enterprises who share these same values. Transnet will accordingly allow a "preference" to companies who provide a valid B-BBEE Verification Certificate. All procurement transactions will be evaluated accordingly.

2.1 B-BBEE Scorecard and Rating

As prescribed in terms of the Preferential Procurement Policy Framework Act (PPPFA), Act 5 of 2000 and its Regulations, Respondents are to note the following:

- Proposals will be evaluated on price which will be allocated 80 or 90 points and preference which will be allocated 20 or 10 points, dependent on the value of the Services.
- The 80/20 preference point system applies where the acquisition of the Services will be less than R1 000 000.00.
- The 90/10 preference point system applies where the acquisition of the Services will exceed R1 000 000.00
- Proposals will be evaluated on the 80/20 and/or 90/10 preference point system depending on the value of the service as indicated/explained above.

In compliance with the Government Gazette No 34612, Notice No. 754 dated 23 September 2011, as from 1 October 2011 valid B-BBEE Verification Certificates must be issued by:

(i) Verification Agencies accredited by the South African National Accreditation System [SANAS]; or

(ii) Registered Auditors approved by the Independent Regulatory Board of Auditors [**IRBA**], in accordance with the approval granted by the Department of Trade and Industry.

Enterprises will be rated by such agencies based on the following:

a) **Large Enterprises** [i.e. annual turnover greater than R35 million]:
- Rating level based on all seven elements of the B-BBEE scorecard

b) **Qualifying Small Enterprises – QSE** [i.e. annual turnover between R5 million and R35 million]:
- Rating based on any four of the elements of the B-BBEE scorecard

c) **Exempted Micro Enterprises – EME** [i.e. annual turnover less than R5 million]:

In accordance with B-BBEE Codes of Good Practice [Statement 000, Section 4], any enterprise with an annual total revenue of R 5 million or less qualifies as an EME.
- Automatic rating of B-BBEE Level 4 irrespective of race or ownership
- Black ownership greater than 50% or Black Women ownership greater than 50% automatically qualify as B-BBEE Level 3

Sufficient evidence to qualify as an EME would be a certificate (which may be in the form of a letter) from an auditor or accounting officer or a certificate from a Verification Agency accredited by SANAS. The certificate must confirm the company's turnover, black ownership / black female ownership, B-BBEE status level and validity date.

Respondents are required to furnish proof of the above to Transnet. [i.e. a valid detailed scorecard as stipulated above in respect of Large Enterprises and QSEs, or a valid certificate in respect of EMEs]. Transnet will accordingly allocate a maximum of **20 [twenty] points** to the Respondent's final score based on an entity's B-BBEE scorecard rating.

N.B. Failure to submit a B-BBEE certificate, which is valid as at the Closing Date of this RFP, will result in a score of zero being allocated for B-BBEE.

[Refer clause 17 below for Returnable Documents required]

3 Communication

a) Respondents are warned that a response will be liable for disqualification should any attempt be made by a Respondent either directly or indirectly to canvass any officer(s) or employee of Transnet in respect of this RFQ between the closing date and the date of the award of the business.

b) A Respondent may, however, before the closing date and time, direct any written enquiries relating to the RFQ to the following Transnet employee:

Name: **Granville van der Merwe**

Email: **Granville.vandermerwe@transnet.net**

c) Respondents may also, at any time after the closing date of the RFQ, communicate with The Secretariat of the Acquisition Council, Admin Support Office, Ronelle Blom, on any matter relating to its RFQ response:

Telephone **041 994 2045**

Email **Ronelle.blom@transnet.net**

4 Tax Clearance

The Respondent's original valid Tax Clearance Certificate must accompany the Quotation. Failure to provide this document with the RFQ submission may result in disqualification.

5 VAT Registration

The valid VAT registration number must be stated here: _____ *[if applicable]*.

6 Legal Compliance

The successful Respondent shall be in full and complete compliance with any and all applicable national and local laws and regulations.

7 Changes to Quotations

Changes by the Respondent to its submission will not be considered after the closing date and time.

8 Pricing

All prices must be quoted in South African Rand on a fixed price basis, excluding VAT.

9 Prices Subject to Confirmation

Prices quoted which are subject to confirmation will not be considered.

10 Negotiations

Transnet reserves the right to undertake post-tender negotiations with selected Respondents or any number of short-listed Respondents.

11 Binding Offer

Any Quotation furnished pursuant to this Request shall be deemed to be an offer. Any exceptions to this statement must be clearly and specifically indicated.

12 Disclaimers

Transnet is not committed to any course of action as a result of its issuance of this RFQ and/or its receipt of a Quotation in response to it. Please note that Transnet reserves the right to:

- modify the RFQ's goods / service(s) and request Respondents to re-bid on any changes;
- reject any Quotation which does not conform to instructions and specifications which are detailed herein;
- disqualify Quotations submitted after the stated submission deadline;
- not necessarily accept the lowest priced Quotation;
- reject all Quotations, if it so decides;
- place an order in connection with this Quotation at any time after the RFQ's closing date;
- award only a portion of the proposed goods / services which are reflected in the scope of this RFQ;
- split the award of the order/s between more than one Supplier/Service Provider; or
- make no award at all.

In addition, Transnet reserves the right to exclude any Respondent from the bidding process who has been convicted of a serious breach of law during the preceding 5 [five] years, including but not limited to breaches of the Competition Act 89 of 1998. Respondents are required to indicate below whether or not they have been found guilty of a serious breach of law during the past 5 [five] years:

I/We _____ do hereby certify that *I/we* ***have/have not been*** found guilty during the preceding 5 [five] years of a serious breach of law, including but not limited to a breach of the Competition Act, 89 of 1998, by a court of law, tribunal or other administrative body. The type of breach that the Respondent is required to disclose excludes relatively minor offences or misdemeanours, e.g. traffic offences.

Where found guilty of such a serious breach, please disclose:

NATURE OF BREACH:

_____

_____

DATE OF BREACH: _____

Furthermore, I/we acknowledge that Transnet SOC Ltd reserves the right to exclude any Respondent from the bidding process, should that person or entity have been found guilty of a serious breach of law, tribunal or regulatory obligation.

13 Evaluation Criteria

Transnet will utilise the following criteria [not necessarily in this order] in choosing a Supplier/Service Provider, if so required:

- Phase 1: Administrative responsiveness - Completeness of response and returnable documents
  Experience and Ability to perform the required work
- Phase 2: Weighted evaluation based on 80/20 or 90/10 preference point system:
  - Pricing and price basis [firm] - whilst not the sole factor for consideration, competitive pricing and overall level of unconditional discounts[1] will be critical

    Transnet will utilise the following formula in its evaluation of Price:

    $PS = 80\left(1 - \frac{Pt - Pmin}{Pmin}\right)$ OR $PS = 90\left(1 - \frac{Pt - Pmin}{Pmin}\right)$ Where:

    Ps = Score for the Bid under consideration
    Pt = Price of Bid under consideration
    Pmin = Price of lowest acceptable Bid
  - B-BBEE status of company

    Preference points will be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	8	16
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

14 Validity Period

Transnet desires a validity period of 90 [ninety] days from the closing date of this RFQ.

This RFQ is valid until _____.

15 Banking Details

BANK: _____

BRANCH NAME / CODE: _____

ACCOUNT HOLDER: _____

ACCOUNT NUMBER: _____

[1] *Only unconditional discounts will be taken into account during evaluation. A discount which has been offered conditionally will, despite not being taken into account for evaluation purposes, be implemented when payment is effected.*

16 Company Details

Companies Trading Name _____

Registration number of company / C.C. _____

Registered name of company / C.C. _____

Name of respondent _____

Physical Address _____

_____

Respondents Contact Person: Name _____

: Designation _____

: Tel No. _____

: Mobile No. _____

: Fax No. _____

: E-Mail _____

Service Provider for legal Notices _____

Fax No. _____

Disclosure of Prices Quoted

Respondents must indicate here whether Transnet may disclose their quoted prices and conditions to other Respondents:

YES ☐ NO ☐

17 Returnable Documents

Returnable Documents means all the documents, Sections and Annexures, as listed in the tables below.

a) Respondents are required to submit with their Quotations the **Returnable Documents,** as detailed below.

Failure to provide all these Returnable Documents at the Closing Date and time of this RFQ may result in a Respondent's disqualification. Respondents are therefore urged to ensure that all these Documents are returned with their Quotations.

All Sections, as indicated in the footer of each page, must be signed, stamped and dated by the Respondent. Please confirm submission of these Returnable Documents by so indicating [Yes or No] in the table below:

Returnable Documents	Submitted [Yes or No]
SECTION 1 : Notice to Bidders	
- Valid B-BBEE Verification Certificate [RSA Large Enterprises and QSEs] Note: failure to provide a valid B-BBEE Verification Certificate at the closing date and time of the tender will result in an automatic score of zero being allocated for B-BBEE scorecard	
- Valid B-BBEE certificate from auditor, accounting officer or SANAS accredited Verification Agency [RSA EMEs] Note: failure to provide a valid B-BBEE Verification Certificate at the closing date and time of the tender will result in an automatic score of zero being allocated for B-BBEE scorecard	
SECTION 2 : Quotation Form	
SECTION 3 : Standard Terms and Conditions of Contract for the Supply of Goods or Services to Transnet	
SECTION 4 : Background and Scope of Requirements	
SECTION 5 : Certificate of Attendance of RFQ Briefing Session	
ANNEXURE A : General Tender Conditions (CS 65 – Services)	
ANNEXURE B : E7/1 Specification for work on, over, under or adjacent to railway lines and near high voltage equipment	
ANNEXURE C : Safety Arrangements and Procedural Compliance with the Occupational Health and safety Act; Act 85 of 1993 and regulations	
ANNEXURE D : Painting of Steel Components of Electrical Equipment	
ANNEXURE E : Supplier Code of Conduct	
ANNEXURE F : RFQ Declaration Form	
LETTER OF GOOD STANDING ISSUED BY COMPENSATION COMMISIONER OR THE FEDERATED EMPLOYER'S MUTUAL ASSURANCE COMPANY LIMITED (FEM)	
ORIGINAL TAX CLEARANCE CERTIFICATE	
PROOF OF THE APPRORIATE QUALIFICATIONS / EXPERIENCE NECESSARY FOR THIS TYPE OF WORK/OPERATION INCLUDING PREVIOUS REFERENCES	
DETAILED BREAKDOWN OF ALL LIFTING EQUIPMENT TO BE UTILISED FOR THE PROJECT	

Respondents to complete this section:

NAME OF RESPONDENT .....

PHYSICAL ADDRESS .....

.....

Respondent's contact person: Name.....

Designation.....

Telephone.....

Cell Phone.....

Facsimile.....

Email.....

Website.....

Respondent's Signature

Date & Company Stamp

Section 2

QUOTATION FORM

I/We_____

hereby offer to supply the goods/services at the prices quoted in the Price Schedule below, in accordance with the conditions related thereto.

I/We agree to be bound by those terms and conditions in:

- the Standard Terms and Conditions for the Supply of Goods or Services to Transnet [available on request]; and
- any other standard or special conditions mentioned and/or embodied in this Request for Quotation.

I/We accept that unless Transnet should otherwise decide and so inform me/us, this Quotation [and, if any, its covering letter and any subsequent exchange of correspondence], together with Transnet's acceptance thereof shall constitute a binding contract between Transnet and me/us.

I/We further agree that if, after I/we have been notified of the acceptance of my/our Quotation, I/we fail to deliver the said goods/service/s within the delivery lead-time quoted, Transnet may, without prejudice to any other legal remedy which it may have, cancel the order and recover from me/us any expenses incurred by Transnet in calling for Quotations afresh and/or having to accept any less favourable offer.

Price Schedule

(Pages 13 – 33 to be completed)

Notes to Pricing:

a) All Prices must be quoted in South African Rand, exclusive of VAT

b) To facilitate like-for-like comparison bidders must submit pricing strictly in accordance with this price schedule and not utilise a different format. Deviation from this pricing schedule could result in a bid being disqualified.

c) Please note that should you have offered a discounted price(s), Transnet will only consider such price discount(s) in the final evaluation stage if offered on an unconditional basis.

d) A retention fee of 10% of the quoted price to be held for a period of 6 months, which will be released after final inspection.

e) Labour rates per day to be inserted below:

Contractor labour rates	
Highly Skilled	
Skilled	
Semi Skilled	
Unskilled	

Lesseyton

Refurbishment of a 132/25 kV, 20MVA Traction transformer

Bill of quantities per transformer

A	The dismantling, of the transformer fins and conservator tank with all associated brackets	Price	Unit	Total
1	Close the main transformer valves leading to the cooling fins and conservator tank. Drain the oil from the cooling fins and conservator tank in a suitable container. (No leaks or spillage allowed and the container must be PCB free)			
2	Transformer fins; Remove the transformer cooling fins with all attachments and support brackets if applicable, place/stack the fins neatly on site. Ensure that all the valves and taps are properly closed. Blank off the main transformer valves with a suitable blanking plates to ensure that no oil leaks from the main tank may occur. (The transformer dimensions and weight is attached.)			
3	Specify the hydraulic crane lifting capacity at various reach distances. (Test certificates)			
4	Remove the oil conservator tank with attachments, assembly and support brackets and place neatly on site. Ensure that all the valves and taps are properly closed to prevent oil leaks			

B	Loading and off loading of the transformer fins and conservator tank with all associated brackets on site, and at the factory.	Price	Unit	Total
1	Load the cooling fins, the cooling fins must be properly stacked and secure, bolted together "Sandwich type arrangement" in easy manageable stacks. (Not more than 5 fins per stack) to ensure that no damage to the fins will occur during transport. Suitable bolts with washers to be used on fin brackets for this purpose. Close the oil entry openings to keep moisture out.			
2	Specify the transport vehicle loading restrictions weight and square meter loading area and the hydraulic crane lifting capacity at various reach distances. (Test certificates) .			
3	Loading of the oil conservator tank, with attachments assembly and support brackets on the truck. Ensure that all the valves and taps are properly closed. The tanks and support brackets must be properly secured to the truck before transportation.			

C	Transport of the transformer from the site to the factory and back to the site.	Price	Unit	Total
1	Transport to the factory			
2	Transport to the site			

D	Transformer Core and Core windings	Price	Unit	Total
1	Drain the oil from the transformer main tank into a suitable container PCB free.			
2	Remove the high and medium voltage bushing, care must be taken not to damage the CT's inside the main tank, stack bushings neatly at an angle of 45°			
3	Remove the transformer tank main lid to allow the contractor and TFR staff to inspect the tap changer, core, core winding insulation and all exposed mechanical and electrical connections.			
4	Remove any foreign objects, repair any insulation or contactor damage, re-torque the core bolts to the correct torque settings of .....N.m. Repair all burnt or damage contacts, insulation damage, faulty terminations and faulty connections.			
5	Re-insulate the HV and MV leads to the various bushings with paper tape eight layers per conductor.			
6	During the mentioned process the transformer must be fitted with a suitable cover which will prevent dust, rain and any impurities from entering into the tank.			
7	Megger test the core insulation immediately after the cleaning and repair process			
8	Refit the 132 kV and new 52kV bushings. (Care must be taken not to damage the CT's inside the transformer main tank.) Allow to replace or modify the studs to fit the old and new bushings if required.			
9	Replace all gaskets, seals and fill the main tank with oil, vacuum of the main tank to be maintained at the correct vacuum of 5Torr			
10	Supply and fit new core/earth insulator on the outside of the main tank ,with new gaskets and cone rubber seal.			

E	The measurement and protection equipment	Price	Unit	Total
1	Completely refurbish the mentioned equipment, oil and winding temperature probes and pockets..			
2	Repair all leaks to the Bucholtz relay including the test valve and sight glass gaskets.			
3	Service and secure all control/protection - wiring/terminations inside the main tank before closing.			
4	Service transformer termination box ensure no loose connections or oil leaks			

F	Transformer cooling fins x 10	Price	Unit	Total
1	Completely refurbish all the cooling fins, attachment brackets, gaskets "type TF72", drain plugs, valves, O rings washers and seals			
2	The transformer cooling fins and support brackets, spot remove all rust/ corrosion areas plus an additional 30mm of the existing paint around the effected area, degrease check for surface damage clean and paint one coat NS4.			
3	The complete outside of the cooling fins and all attachment brackets must be must be lightly sanded to remove old lose/flake paint and corrosion, be degreased and be painted according to specification CEE 0045.90. (two coats)			
4	Clean the inside of each fin to ensure that no carbon, sludge or any other impurities are trapped inside the fins, which might contaminate the new oil. (Air blast and rinse with clean oil)			
5	All the cooling fins must be pressure tested to ensure that no leakage of the oil will occur. TFR staff to be present.			
6	Replace all the transformer cooling fin spacer bolts and nuts with hot dip galvanised bolts and nut of similar material and dimensions.			

G	Transformer main tank	Price	Unit	Total
1	Completely refurbish the transformer main tank with all associate equipment, pipes and attachments, drain valves, plugs, washers, O-rings, gaskets, temperature control box, Bucholtz pipes and temperature probes.			
2	The outside of the transformer main tank and all attachment brackets, U bolts, bolts and nuts, spot repair remove all rust/corrosion, (weld, sealed weld ,...) plus an additional 30mm of the existing paint around the effected area, degrease check for surface damage clean and paint one coat NS4 red colour.			
3	The outside of the transformer main tank, must be sanded to remove loose paint, be degreased, and be painted according to specification CEE 0045.90.Painting of steel component of electrical equipment (Two coats)			
4	All the gaskets must be replaced with type TF72 of same thickness. Size 10mm gasket on the main lid. The stop and drain valves, drain plugs, washers and O-rings must be replaced. Fit new dowty washers to drain plugs on all the fins.			
5	Allow for the replacement of all broken or missing bolts and nuts as well as the bushing studs (16mm)			
6	Degrease and clean the transformer main tank plinth and paint 2 coats noxide.			

H	Transformer conservator oil tank	Price	Unit	Total
1	Completely refurbish the transformer conservator tank with all pipes, attachment brackets (knee brace and conservator supports) , do spot repairs on all rust/corrosion areas, (weld, sealed weld....) plus remove an additional 30mm of the existing paint around the effected area, degrease check for surface damage clean and paint one coat NS4 red colour. Fit new knee brace and conservator tank support bolts and nuts, new gaskets. Repair rust and place gasket 6mm type 72 between the conservator mounting brackets .			
2	The outside of the transformer conservator tank, and all attachment brackets must be sanded down, degreased and be painted according to **specification CEE 0045.90**. (one coat) white NOXIDE.			
3	The conservator tank must be pressure tested to ensure that no leakage of the oil will occur.			
4	The inside of the conservator tank must be sandblasted and clean and be painted with gliptol or be replace with a 3CR12 S/Steel tank			

5	All the gaskets must be replaced with type TF72 and all the stop valves and washers, O rings be refurbish or replaced.			
6	Supply and install new site glasses and site glass housings where required.			
7	Allow for the replacement of all broken or missing bolts and nuts as well as the bushing studs (16mm)			
8	Replace breather and breather pipe with support brackets			

I	Transformer oil and testing	Price	Unit	Total
1	The transformer oil drained from the main tank and fins must be cleaned via a vacuum filter process to ensure the removal of all dissolved gasses and impurities, Minimum dielectric strength must be at least 65kV with a water content of less than 10ppm at ....° C. No direct contact between the oil and heater elements will be allowed. Supply detailed filter process to be utilized and oil test specifications e.g. temperature, vacuum, type of filter cartridges, and different oil test to be performed "Specify". Contractor to supply own oil and generator plant.			

J	Reassemble the transformer on site	Price	Unit	Total
1	Fit the conservator tank with support brackets and new gaskets complete			
2	Fit the cooling fins to the main transformer complete with gaskets and torque all bolts and nuts to specification employing standard torque settings.			
4	Fit new oil cooling fin support brackets (Contractor to provide design to TFR for approval), hot dip galvanised and paint as per specification CEE 0045.90. (two coats). Tension rods to ensure even distribution of the load.			
	Fit the existing 132kV bushings and new 25kV bushings. Bushings will be supplied by TFR.			
6	Fill the transformer with the existing oil , Test certificates to be made available. Oil must be PCB free (Sticker from test laboratories to certify the transformer is PCB free, less than 2.5ppm @ 20° Celsius . Allow for top-up oil.			
7	Check all gaskets, valve, stop cocks for oil leaks and repair on site			
8	Filter complete transformer 3 passes minimum to meet required standards and specifications			
9	Performed final test and energise: Winding resistance, Ratio, Insulation and oil,			
10	Clean site from any redundant parts oil spillage etc (TFR to witness all test)			
	Sub Total A			

No	Site establishment	Price	Unit	Total
1	Provide filter plant (PCB free)			
2	Provide generator plant			
3	Provide mobile crane to lift oil cooling fins and main tank lid (_____) ton			
	Provide Hydraulic jacks to raise the main transformer tank			
5	Provide reservoir (PCB free)			
6	Transport Cost			
7	Accommodation Cost			
8	P & G's			
9				
	Sub Total B			

	Safety cost SHE plan	Price	Unit	Total
1	Compile Safety File; Written safe working statement for each process:			
	Remove and assemble of the transformer cooling fins.			
	Remove and assemble of the transformer conservator tank and attachment brackets.			
	Remove and assemble of the transformer 132kV and 25kV Bushings			
	Remove and refit of the transformer main lid			
	The raise and lowering of the transformer main tank			
2	Compile a risk assessment on:			
	Possible fire, causes, probability, estimate damage prevention, action plan			

Respondent's Signature

Date & Company Stamp

	Oil Pollution, Causes, probability, estimate cleanup cost, prevention, action plan			
	Lifting equipment failure, Cause of failure, Probability, Estimate damage, prevention and action plan			
	High Voltage shock, causes, probability, estimated cost, prevention and action plan			
	Level crossings accidents, causes, probability, estimated cost, prevention, action plan			
3	Fall protection plan when working on transformer and removing part of the transformer			
4	Safety training;			
	Responsible person in charge			
	First aid number			
	Certified operators			
5	Certification			
	Letters of appointment			
	Letters of competency			
	Letter of good standing with the claims commissioner			
	Tax clearance certificate			
	Qualified drivers and plant operators (Certificates)			
	Letter of medical fitness on staff			
3	Site instruction book and Site Diary			

Main Total A & B

No	Specify any additional recommended work or test	Price	Unit	Total
1				
2				
3				
4				
5				
6				
7				

Additional option cost outside tender scope

Carrickmore A

Refurbishment of a 132/25 kV, 20MVA Traction transformer

Bill of quantities per transformer

A	The dismantling, of the transformer fins and conservator tank with all associated brackets	Price	Unit	Total
1	Close the main transformer valves leading to the cooling fins and conservator tank. Drain the oil from the cooling fins and conservator tank in a suitable container. (No leaks or spillage allowed and the container must be PCB free)			
2	Transformer fins; Remove the transformer cooling fins with all attachments and support brackets if applicable, place/stack the fins neatly on site. Ensure that all the valves and taps are properly closed. Blank off the main transformer valves with a suitable blanking plates to ensure that no oil leaks from the main tank may occur. (The transformer dimensions and weight is attached.)			
3	Specify the hydraulic crane lifting capacity at various reach distances. (Test certificates)			
4	Remove the oil conservator tank with attachments, assembly and support brackets and place neatly on site. Ensure that all the valves and taps are properly closed to prevent oil leaks			

B	Loading and off loading of the transformer fins and conservator tank with all associated brackets on site, and at the factory.	Price	Unit	Total
1	Load the cooling fins, the cooling fins must be properly stacked and secure, bolted together "Sandwich type arrangement" in easy manageable stacks. (Not more than 5 fins per stack) to ensure that no damage to the fins will occur during transport. Suitable bolts with washers to be used on fin brackets for this purpose. Close the oil entry openings to keep moisture out.			
2	Specify the transport vehicle loading restrictions weight and square meter loading area and the hydraulic crane lifting capacity at various reach distances. (Test certificates) .			
3	Loading of the oil conservator tank, with attachments, assembly and support brackets on the truck. Ensure that all the valves and taps are properly closed. The tanks and support brackets must be properly secured to the truck before transportation.			

C	Transport of the transformer from the site to the factory and back to the site.	Price	Unit	Total
1	Transport to the factory			
2	Transport to the site			

D	Transformer Core and Core windings	Price	Unit	Total
1	Drain the oil from the transformer main tank into a suitable container PCB free.			
2	Remove the high and medium voltage bushing, care must be taken not to damage the CT's inside the main tank, stack the bushings neatly at an angle of 45°			
3	Remove the transformer tank main lid to allow the contractor and TFR staff to inspect the tap changer, core, core winding insulation and all exposed mechanical and electrical connections.			
4	Remove any foreign objects, repair any insulation or contactor damage, re-torque the core bolts to the correct torque settings of .....N.m. Repair all burnt or damage contacts, insulation damage, faulty terminations and faulty connections.			
5	Re-insulate the HV and MV leads to the various bushings with paper tape eight layers per conductor.			
6	During the mentioned process the transformer must be fitted with a suitable cover which will prevent dust, rain and any impurities from entering into the tank.			
7	Megger test the core insulation immediately after the cleaning and repair process			
8	Refit the 132 kV and new 52kV bushings. (Care must be taken not to damage the CT's inside the transformer main tank.) Allow to replace or modify the studs to fit the old and new bushings if required.			
9	Replace all gaskets, seals and fill the main tank with oil, vacuum of the main tank to be maintained at the correct vacuum of 5Torr			
10	Supply and fit new core/earth insulator on the outside of the main tank ,with new gaskets and cone rubber seal.			

E	The measurement and protection equipment	Price	Unit	Total
1	Completely refurbish the mentioned equipment, oil and winding temperature probes and pockets..			
2	Repair all leaks to the Bucholtz relay including the test valve and sight glass gaskets.			
3	Service and secure all control/protection - wiring/terminations inside the main tank before closing.			
4	Service transformer termination box ensure no loose connections or oil leaks			

F	Transformer cooling fins x 10	Price	Unit	Total
1	Completely refurbish all the cooling fins, attachment brackets, gaskets "type TF72", drain plugs, valves, O rings washers and seals			
2	The transformer cooling fins and support brackets, spot remove all rust/ corrosion areas plus an additional 30mm of the existing paint around the effected area, degrease check for surface damage clean and paint one coat NS4.			
3	The complete outside of the cooling fins and all attachment brackets must be must be lightly sanded to remove old lose/flake paint and corrosion, be degreased and be painted according to specification CEE 0045.90. (two coats)			
4	Clean the inside of each fin to ensure that no carbon, sludge or any other impurities are trapped inside the fins, which might contaminate the new oil. (Air blast and rinse with clean oil)			
5	All the cooling fins must be pressure tested to ensure that no leakage of the oil will occur. TFR staff to be present.			
6	Replace all the transformer cooling fin spacer bolts and nuts with hot dip galvanised bolts and nut of similar material and dimensions.			

G	Transformer main tank	Price	Unit	Total
1	Completely refurbish the transformer main tank with all associate equipment, pipes and attachments, drain valves, plugs, washers, O-rings, gaskets, temperature control box, Bucholtz pipes and temperature probes.			
2	The outside of the transformer main tank and all attachment brackets, U bolts, bolts and nuts, spot repair remove all rust/corrosion, (weld, sealed weld ,...) plus an additional 30mm of the existing paint around the effected area, degrease check for surface damage clean and paint one coat NS4 red colour.			
3	The outside of the transformer main tank must be sanded to remove loose paint, be degreased, and be painted according to specification CEE 0045.90.Painting of steel component of electrical equipment (Two coats)			
4	All the gaskets must be replaced with type TF72 of same thickness. Size 10mm gasket on the main lid. The stop and drain valves, drain plugs, washers and O-rings must be replaced. Fit new dowty washers to drain plugs on all the fins.			
5	Allow for the replacement of all broken or missing bolts and nuts as well as the bushing studs (16mm)			
6	Degrease and clean the transformer main tank plinth and paint 2 coats noxide.			

H	Transformer conservator oil tank	Price	Unit	Total
1	Completely refurbish the transformer conservator tank with all pipes, attachment brackets (knee brace and conservator supports) , do spot repairs on all rust/corrosion areas, (weld, sealed weld....) plus remove an additional 30mm of the existing paint around the effected area, degrease check for surface damage clean and paint one coat NS4 red colour. Fit new knee brace and conservator tank support bolts and nuts, new gaskets. Repair rust and place gasket 6mm type 72 between the conservator mounting brackets .			
2	The outside of the transformer conservator tank, and all attachment brackets must be sanded down, degreased and be painted according to **specification CEE 0045.90**. (one coat) white NOXIDE.			
3	The conservator tank must be pressure tested to ensure that no leakage of the oil will occur.			
4	The inside of the conservator tank must be sandblasted and clean and be painted with gliptol or be replace with a 3CR12 S/Steel tank			

5	All the gaskets must be replaced with type TF72 and all the stop valves and washers, O rings be refurbish or replaced.			
6	Supply and install new site glasses and site glass housings where required.			
7	Allow for the replacement of all broken or missing bolts and nuts as well as the bushing studs (16mm)			
8	Replace breather and breather pipe with support brackets			

1	Transformer oil and testing	Price	Unit	Total
1	The transformer oil drained from the main tank and fins must be cleaned via a vacuum filter process to ensure the removal of all dissolved gasses and impurities, Minimum dielectric strength must be at least 65kV with a water content of less than 10ppm at ....° C. No direct contact between the oil and heater elements will be allowed. Supply detailed filter process to be utilized and oil test specifications e.g. temperature, vacuum, type of filter cartridges, and different oil test to be performed "Specify". Contractor to supply own oil and generator plant.			

J	Reassemble the transformer on site	Price	Unit	Total
1	Fit the conservator tank with support brackets and new gaskets complete			
2	Fit the cooling fins to the main transformer complete with gaskets and torque all bolts and nuts to specification employing standard torque settings.			
4	Fit new oil cooling fin support brackets (Contractor to provide design to TFR for approval, hot dip galvanised and paint as per specification CEE 0045.90. (two coats). Tension rods to ensure even distribution of the load.			
	Fit the existing 132kV bushings and new 25kV bushings. Bushings will be supplied by TFR.			
6	Fill the transformer with the existing oil , Test certificates to be made available. Oil must be PCB free (Sticker from test laboratories to certify the transformer is PCB free less than 2.5ppm @ 20° Celsius . Allow for top-up oil.			
7	Check all gaskets, valve, stop cocks for oil leaks and repair on site			
8	Filter complete transformer 3 passes minimum to meet required standards and specifications			
9	Performed final test and energise: Winding resistance, Ratio, Insulation and oil,			
10	Clean site from any redundant parts, oil spillage etc (TFR to witness all test)			
	Sub Total A			

No	Site establishment	Price	Unit	Total
1	Provide filter plant (PCB free)			
2	Provide generator plant			
3	Provide mobile crane to lift oil cooling fins and main tank lid ( ) ton			
	Provide Hydraulic jacks to raise the main transformer tank			
5	Provide reservoir (PCB free)			
6	Transport Cost			
7	Accommodation Cost			
8	P & G's			
9				
	Sub Total B			

	Safety cost SHE plan	Price	Unit	Total
1	Compile Safety File; Written safe working statement for each process:			
	Remove and assemble of the transformer cooling fins.			
	Remove and assemble of the transformer conservator tank and attachment brackets.			
	Remove and assemble of the transformer 132kV and 25kV Bushings			
	Remove and refit of the transformer main lid			
	The raise and lowering of the transformer main tank			
2	Compile a risk assessment on:			
	Possible fire, causes, probability, estimate damage prevention, action plan			

	Oil Pollution, Causes, probability, estimate cleanup cost, prevention, action plan			
	Lifting equipment failure, Cause of failure, Probability, Estimate damage, prevention and action plan			
	High Voltage shock, causes, probability, estimated cost, prevention and action plan			
	Level crossings accidents, causes, probability, estimated cost, prevention, action plan			
3	Fall protection plan when working on transformer and removing part of the transformer			
4	Safety training;			
	Responsible person in charge			
	First aid number			
	Certified operators			
5	Certification			
	Letters of appointment			
	Letters of competency			
	Letter of good standing with the claims commissioner			
	Tax clearance certificate			
	Qualified drivers and plant operators (Certificates)			
	Letter of medical fitness on staff			
3	Site instruction book and Site Diary			

Main Total A & B

No	Specify any additional recommended work or test	Price	Unit	Total
1				
2				
3				
4				
5				
6				
7				

Additional option cost outside tender scope

Carrickmore B

Refurbishment of a 132/25 kV, 20MVA Traction transformer

Bill of quantities per transformer

A	The dismantling, of the transformer fins and conservator tank with all associated brackets	Price	Unit	Total
1	Close the main transformer valves leading to the cooling fins and conservator tank. Drain the oil from the cooling fins and conservator tank in a suitable container. (No leaks or spillage allowed and the container must be PCB free)			
2	Transformer fins; Remove the transformer cooling fins with all attachments and support brackets if applicable, place/stack the fins neatly on site. Ensure that all the valves and taps are properly closed. Blank off the main transformer valves with a suitable blanking plates to ensure that no oil leaks from the main tank may occur. (The transformer dimensions and weight is attached.)			
3	Specify the hydraulic crane lifting capacity at various reach distances. (Test certificates)			
4	Remove the oil conservator tank with attachments, assembly and support brackets and place neatly on site. Ensure that all the valves and taps are properly closed to prevent oil leaks			

B	Loading and off loading of the transformer fins and conservator tank with all associated brackets on site, and at the factory.	Price	Unit	Total
1	Load the cooling fins, the cooling fins must be properly stacked and secure, bolted together "Sandwich type arrangement" in easy manageable stacks. (Not more than 5 fins per stack) to ensure that no damage to the fins will occur during transport. Suitable bolts with washers to be used on fin brackets for this purpose. Close the oil entry openings to keep moisture out.			
2	Specify the transport vehicle loading restrictions weight and square meter loading area and the hydraulic crane lifting capacity at various reach distances. (Test certificates) .			
3	Loading of the oil conservator tank, with attachments, assembly and support brackets on the truck. Ensure that all the valves and taps are properly closed. The tanks and support brackets must be properly secured to the truck before transportation.			

C	Transport of the transformer from the site to the factory and back to the site.	Price	Unit	Total
1	Transport to the factory			
2	Transport to the site			

D	Transformer Core and Core windings	Price	Unit	Total
1	Drain the oil from the transformer main tank into a suitable container PCB free.			
2	Remove the high and medium voltage bushing, care must be taken not to damage the CT's inside the main tank, stack the bushings neatly at an angle of 45°			
3	Remove the transformer tank main lid to allow the contractor and TFR staff to inspect the tap changer, core, core winding insulation and all exposed mechanical and electrical connections.			
4	Remove any foreign objects, repair any insulation or contactor damage, re-torque the core bolts to the correct torque settings of .....N.m. Repair all burnt or damage contacts, insulation damage, faulty terminations and faulty connections.			
5	Re-insulate the HV and MV leads to the various bushings with paper tape eight layers per conductor.			
6	During the mentioned process the transformer must be fitted with a suitable cover which will prevent dust, rain and any impurities from entering into the tank.			
7	Megger test the core insulation immediately after the cleaning and repair process			
8	Refit the 132 kV and new 52kV bushings. (Care must be taken not to damage the CT's inside the transformer main tank.) Allow to replace or modify the studs to fit the old and new bushings if required.			
9	Replace all gaskets, seals and fill the main tank with oil, vacuum of the main tank to be maintained at the correct vacuum of 5Torr			
10	Supply and fit new core/earth insulator on the outside of the main tank ,with new gaskets and cone rubber seal.			

E	The measurement and protection equipment	Price	Unit	Total
1	Completely refurbish the mentioned equipment, oil and winding temperature probes and pockets..			
2	Repair all leaks to the Bucholtz relay including the test valve and sight glass gaskets.			
3	Service and secure all control/protection - wiring/terminations inside the main tank before closing.			
4	Service transformer termination box ensure no loose connections or oil leaks			

F	Transformer cooling fins x 10	Price	Unit	Total
I	Completely refurbish all the cooling fins, attachment brackets, gaskets "type TF72", drain plugs, valves, O rings washers and seals			
2	The transformer cooling fins and support brackets, spot remove all rust/ corrosion areas plus an additional 30mm of the existing paint around the effected area, degrease check for surface damage clean and paint one coat NS4.			
3	The complete outside of the cooling fins and all attachment brackets must be must be lightly sanded to remove old lose/flake paint and corrosion, be degreased and be painted according to specification CEE 0045.90. (two coats)			
4	Clean the inside of each fin to ensure that no carbon, sludge or any other impurities are trapped inside the fins, which might contaminate the new oil. (Air blast and rinse with clean oil)			
5	All the cooling fins must be pressure tested to ensure that no leakage of the oil will occur. TFR staff to be present.			
6	Replace all the transformer cooling fin spacer bolts and nuts with hot dip galvanised bolts and nut of similar material and dimensions.			

G	Transformer main tank	Price	Unit	Total
1	Completely refurbish the transformer main tank with all associate equipment, pipes and attachments, drain valves, plugs, washers, O-rings, gaskets, temperature control box, Bucholtz pipes and temperature probes.			
2	The outside of the transformer main tank and all attachment brackets, U bolts, bolts and nuts, spot repair remove all rust/corrosion, (weld, sealed weld ,...) plus an additional 30mm of the existing paint around the effected area, degrease check for surface damage clean and paint one coat NS4 red colour.			
3	The outside of the transformer main tank, must be sanded to remove loose paint, be degreased, and be painted according to specification CEE 0045.90.Painting of steel component of electrical equipment (Two coats)			
4	All the gaskets must be replaced with type TF72 of same thickness. Size 10mm gasket on the main lid. The stop and drain valves, drain plugs, washers and O-rings must be replaced. Fit new dowty washers to drain plugs on all the fins.			
5	Allow for the replacement of all broken or missing bolts and nuts as well as the bushing studs (16mm)			
6	Degrease and clean the transformer main tank plinth and paint 2 coats noxide.			

H	Transformer conservator oil tank	Price	Unit	Total
1	Completely refurbish the transformer conservator tank with all pipes, attachment brackets (knee brace and conservator supports) , do spot repairs on all rust/corrosion areas, (weld, sealed weld....) plus remove an additional 30mm of the existing paint around the effected area, degrease check for surface damage clean and paint one coat NS4 red colour. Fit new knee brace and conservator tank support bolts and nuts, new gaskets. Repair rust and place gasket 6mm type 72 between the conservator mounting brackets .			
2	The outside of the transformer conservator tank, and all attachment brackets must be sanded down, degreased and be painted according to **specification CEE 0045.90**. (one coat) white NOXIDE.			
3	The conservator tank must be pressure tested to ensure that no leakage of the oil will occur.			
4	The inside of the conservator tank must be sandblasted and clean and be painted with gliptol or be replace with a 3CR12 S/Steel tank			

5	All the gaskets must be replaced with type TF72 and all the stop valves and washers, O rings be refurbish or replaced.			
6	Supply and install new site glasses and site glass housings where required.			
7	Allow for the replacement of all broken or missing bolts and nuts as well as the bushing studs (16mm)			
8	Replace breather and breather pipe with support brackets			

I	Transformer oil and testing	Price	Unit	Total
1	The transformer oil drained from the main tank and fins must be cleaned via a vacuum filter process to ensure the removal of all dissolved gasses and impurities, Minimum dielectric strength must be at least 65kV with a water content of less than 10ppm at ....° C. No direct contact between the oil and heater elements will be allowed. Supply detailed filter process to be utilized and oil test specifications e.g. temperature, vacuum, type of filter cartridges, and different oil test to be performed "Specify". Contractor to supply own oil and generator plant.			

J	Reassemble the transformer on site	Price	Unit	Total
1	Fit the conservator tank with support brackets and new gaskets complete			
2	Fit the cooling fins to the main transformer complete with gaskets and torque all bolts and nuts to specification employing standard torque settings.			
4	Fit new oil cooling fin support brackets (Contractor to provide design to TFR for approval), hot dip galvanised and paint as per specification CEE 0045.90. (two coats). Tension rods to ensure even distribution of the load.			
	Fit the existing 132kV bushings and new 25kV bushings. Bushings will be supplied by TFR.			
6	Fill the transformer with the existing oil , Test certificates to be made available. Oil must be PCB free (Sticker from test laboratories to certify the transformer is PCB free, less than 2.5ppm @ 20° Celsius . Allow for top-up oil.			
7	Check all gaskets, valve, stop cocks for oil leaks and repair on site			
8	Filter complete transformer 3 passes minimum to meet required standards and specifications			
9	Performed final test and energise: Winding resistance, Ratio, Insulation and oil,			
10	Clean site from any redundant parts, oil spillage (TFR to witness all test)			
	Sub Total A			

No	Site establishment	Price	Unit	Total
1	Provide filter plant (PCB free)			
2	Provide generator plant			
3	Provide mobile crane to lift oil cooling fins and main tank lid ( ) ton			
	Provide Hydraulic jacks to raise the main transformer tank			
5	Provide reservoir (PCB free)			
6	Transport Cost			
7	Accommodation Cost			
8	P & G's			
9				
	Sub Total B			

	Safety cost SHE plan	Price	Unit	Total
1	Compile Safety File; Written safe working statement for each process:			
	Remove and assemble of the transformer cooling fins.			
	Remove and assemble of the transformer conservator tank and attachment brackets.			
	Remove and assemble of the transformer 132kV and 25kV Bushings			
	Remove and refit of the transformer main lid			
	The raise and lowering of the transformer main tank			
2	Compile a risk assessment on:			
	Possible fire, causes, probability, estimate damage prevention, action plan			

	Oil Pollution, Causes, probability, estimate cleanup cost, prevention, action plan			
	Lifting equipment failure, Cause of failure, Probability, Estimate damage, prevention and action plan			
	High Voltage shock, causes, probability, estimated cost, prevention and action plan			
	Level crossings accidents, causes, probability, estimated cost, prevention, action plan			
3	Fall protection plan when working on transformer and removing part of the transformer			
4	Safety training;			
	Responsible person in charge			
	First aid number			
	Certified operators			
5	Certification			
	Letters of appointment			
	Letters of competency			
	Letter of good standing with the claims commissioner			
	Tax clearance certificate			
	Qualified drivers and plant operators (Certificates)			
	Letter of medical fitness on staff			
3	Site instruction book and Site Diary			

Main Total A & B

No	Specify any additional recommended work or test	Price	Unit	Total
1				
2				
3				
4				
5				
6				
7				

Additional option cost outside tender scope

Dohne

Refurbishment of a 132/25 kV, 20MVA Traction transformer

Bill of quantities per transformer

A	The dismantling, of the transformer fins and conservator tank with all associated brackets	Price	Unit	Total
1	Close the main transformer valves leading to the cooling fins and conservator tank. Drain the oil from the cooling fins and conservator tank in a suitable container. (No leaks or spillage allowed and the container must be PCB free)			
2	Transformer fins; Remove the transformer cooling fins with all attachments and support brackets if applicable, place/stack the fins neatly on site. Ensure that all the valves and taps are properly closed. Blank off the main transformer valves with a suitable blanking plates to ensure that no oil leaks from the main tank may occur. (The transformer dimensions and weight is attached.)			
3	Specify the hydraulic crane lifting capacity at various reach distances. (Test certificates)			
4	Remove the oil conservator tank with attachments, assembly and support brackets and place neatly on site. Ensure that all the valves and taps are properly closed to prevent oil leaks			

B	Loading and off loading of the transformer fins and conservator tank with associated brackets on site, and at the factory.	Price	Unit	Total
1	Load the cooling fins, the cooling fins must be properly stacked and secure, bolted together "Sandwich type arrangement" in easy manageable stacks. (Not more than 5 fins per stack) to ensure that no damage to the fins will occur during transport. Suitable bolts with washers to be used on fin brackets for this purpose. Close the oil entry opening to keep moisture out.			
2	Specify the transport vehicle loading restrictions weight and square meter loading area and the hydraulic crane lifting capacity at various reach distances. (Test certificates) .			
3	Loading of the oil conservator tank, with attachments, assembly and support brackets on the truck. Ensure that all the valves and taps are properly closed. The tanks and support brackets must be properly secured to the truck before transportation.			

C	Transport of the transformer from the site to the factory and back to the site.	Price	Unit	Total
1	Transport to the factory			
2	Transport to the site			

D	Transformer Core and Core windings	Price	Unit	Total
1	Drain the oil from the transformer main tank into a suitable container PCB free.			
2	Remove the high and medium voltage bushing, care must be taken not to damage the CT's inside the main tank stack the bushings neatly at an angle of 45°			
3	Remove the transformer tank main lid to allow the contractor and TFR staff to inspect the tap changer, core, core winding insulation and all exposed mechanical and electrical connections.			
4	Remove any foreign objects, repair any insulation or contactor damage, re-torque the core bolts to the correct torque settings of .....N.m. Repair all burnt or damage contacts, insulation damage, faulty terminations and faulty connections.			
5	Re-insulate the HV and MV leads to the various bushings with paper tape eight layers per conductor.			
6	During the mentioned process the transformer must be fitted with a suitable cover which will prevent dust, rain and any impurities from entering into the tank.			
7	Megger test the core insulation immediately after the cleaning and repair process			
8	Refit the 132 kV and new 52kV bushings. (Care must be taken not to damage the CT's inside the transformer main tank.) Allow to replace or modify the studs to fit the old and new bushings if required.			
9	Replace all gaskets, seals and fill the main tank with oil, vacuum of the main tank to be maintained at the correct vacuum of 5Torr			
10	Supply and fit new core/earth insulator on the outside of the main tank ,with new gaskets and cone rubber seal.			

E	The measurement and protection equipment	Price	Unit	Total
1	Completely refurbish the mentioned equipment, oil and winding temperature probes and pockets..			
2	Repair all leaks to the Bucholtz relay including the test valve and sight glass gaskets.			
3	Service and secure all control/protection - wiring/terminations inside the main tank before closing.			
4	Service transformer termination box ensure no loose connections or oil leaks			

F	Transformer cooling fins x 10	Price	Unit	Total
1	Completely refurbish all the cooling fins, attachment brackets, gaskets "type TF72", drain plugs, valves, O rings washers and seals			
2	The transformer cooling fins and support brackets, spot remove all rust/ corrosion areas plus an additional 30mm of the existing paint around the effected area, degrease check for surface damage clean and paint one coat NS4.			
3	The complete outside of the cooling fins and all attachment brackets must be must be lightly sanded to remove old lose/flake paint and corrosion, be degreased and be painted according to specification CEE 0045.90. (two coats)			
4	Clean the inside of each fin to ensure that no carbon, sludge or any other impurities are trapped inside the fins, which might contaminate the new oil. (Air blast and rinse with clean oil)			
5	All the cooling fins must be pressure tested to ensure that no leakage of the oil will occur. TFR staff to be present.			
6	Replace all the transformer cooling fin spacer bolts and nuts with hot dip galvanised bolts and nut of similar material and dimensions.			

G	Transformer main tank	Price	Unit	Total
1	Completely refurbish the transformer main tank with all associate equipment, pipes and attachments, drain valves, plugs, washers, O-rings, gaskets, temperature control box, Bucholtz pipes and temperature probes.			
2	The outside of the transformer main tank and all attachment brackets, U bolts, bolts and nuts, spot repair remove all rust/corrosion, (weld, sealed weld ,...) plus an additional 30mm of the existing paint around the effected area, degrease check for surface damage clean and paint one coat NS4 red colour.			
3	The outside of the transformer main tank, must be sanded to remove loose paint, be degreased, and be painted according to specification CEE 0045.90.Painting of steel component of electrical equipment (Two coats)			
4	All the gaskets must be replaced with type TF72 of same thickness. Size 10mm gasket on the main lid. The stop and drain valves, drain plugs, washers and O-rings must be replaced. Fit new dowty washers to drain plugs on all the fins.			
5	Allow for the replacement of all broken or missing bolts and nuts as well as the bushing studs (16mm)			
6	Degrease and clean the transformer main tank plinth and paint 2 coats noxide.			

H	Transformer conservator oil tank	Price	Unit	Total
1	Completely refurbish the transformer conservator tank with all pipes, attachment brackets (knee brace and conservator supports) , do spot repairs on all rust/corrosion areas, (weld, sealed weld....) plus remove an additional 30mm of the existing paint around the effected area, degrease check for surface damage clean and paint one coat NS4 red colour. Fit new knee brace and conservator tank support bolts and nuts, new gaskets. Repair rust and place gasket 6mm type 72 between the conservator mounting brackets .			
2	The outside of the transformer conservator tank, and all attachment brackets must be sanded down, degreased and be painted according to **specification CEE 0045.90**. (one coat) white NOXIDE.			
3	The conservator tank must be pressure tested to ensure that no leakage of the oil will occur.			
4	The inside of the conservator tank must be sandblasted and clean and be painted with gliptol or be replace with a 3CR12 S/Steel tank			

5	All the gaskets must be replaced with type TF72 and all the stop valves and washers, O rings be refurbish or replaced.			
6	Supply and install new site glasses and site glass housings where required.			
7	Allow for the replacement of all broken or missing bolts and nuts as well as the bushing studs (16mm)			
8	Replace breather and breather pipe with support brackets			

I	Transformer oil and testing	Price	Unit	Total
1	The transformer oil drained from the main tank and fins must be cleaned via a vacuum filter process to ensure the removal of all dissolved gasses and impurities, Minimum dielectric strength must be at least 65kV with a water content of less than 10ppm at ....° C. No direct contact between the oil and heater elements will be allowed. Supply detailed filter process to be utilized and oil test specifications e.g. temperature, vacuum, type of filter cartridges, and different oil test to be performed "Specify". Contractor to supply own oil and generator plant.			

J	Reassemble the transformer on site	Price	Unit	Total
1	Fit the conservator tank with support brackets and new gaskets complete			
2	Fit the cooling fins to the main transformer complete with gaskets and torque all bolts and nuts to specification employing standard torque settings.			
4	Fit new oil cooling fin support brackets (Contractor to provide design to TFR for approval), hot dip galvanised and paint as per specification CEE 0045.90. (two coats). Tension rods to ensure even distribution of the load.			
	Fit the existing 132kV bushings and new 25kV bushings. Bushings will be supplied by TFR.			
6	Fill the transformer with the existing oil , Test certificates to be made available. Oil must be PCB free (Sticker from test laboratories to certify the transformer is PCB free, less than 2.5ppm @ 20° Celsius . Allow for top-up oil.			
7	Check all gaskets, valve, stop cocks for oil leaks and repair on site			
8	Filter complete transformer 3 passes minimum to meet required standards and specifications			
9	Performed final test and energise: Winding resistance, Ratio, Insulation and oil,			
10	Clean site from any redundant parts, oil spillage etc (TFR to witness all test)			
	Sub Total A			

No	Site establishment	Price	Unit	Total
1	Provide filter plant (PCB free)			
2	Provide generator plant			
3	Provide mobile crane to lift oil cooling fins and main tank lid ( ) ton			
	Provide Hydraulic jacks to raise the main transformer tank			
5	Provide reservoir (PCB free)			
6	Transport Cost			
7	Accommodation Cost			
8	P & G's			
9				
	Sub Total B			

	Safety cost SHE plan	Price	Unit	Total
1	Compile Safety File; Written safe working statement for each process:			
	Remove and assemble of the transformer cooling fins.			
	Remove and assemble of the transformer conservator tank and attachment brackets.			
	Remove and assemble of the transformer 132kV and 25kV Bushings			
	Remove and refit of the transformer main lid			
	The raise and lowering of the transformer main tank			
2	Compile a risk assessment on:			
	Possible fire, causes, probability, estimate damage prevention, action plan			

	Oil Pollution, Causes, probability, estimate cleanup cost, prevention, action plan			
	Lifting equipment failure, Cause of failure, Probability, Estimate damage, prevention and action plan			
	High Voltage shock, causes, probability, estimated cost, prevention and action plan			
	Level crossings accidents, causes, probability, estimated cost, prevention, action plan			
3	Fall protection plan when working on transformer and removing part of the transformer			
4	Safety training;			
	Responsible person in charge			
	First aid number			
	Certified operators			
5	Certification			
	Letters of appointment			
	Letters of competency			
	Letter of good standing with the claims commissioner			
	Tax clearance certificate			
	Qualified drivers and plant operators (Certificates)			
	Letter of medical fitness on staff			
3	Site instruction book and Site Diary			

Main Total A & B

No	Specify any additional recommended work or test	Price	Unit	Total
1				
2				
3				
4				
5				
6				
7				

Additional option cost outside tender scope

Lalisa

Refurbishment of a 132/25 kV, 20MVA Traction transformer

Bill of quantities per transformer

A	The dismantling, of the transformer fins and conservator tank with all associated brackets	Price	Unit	Total
1	Close the main transformer valves leading to the cooling fins and conservator tank. Drain the oil from the cooling fins and conservator tank in a suitable container. (No leaks or spillage allowed and the container must be PCB free)			
2	Transformer fins; Remove the transformer cooling fins with all attachments and support brackets if applicable, place/stack the fins neatly on site. Ensure that all the valves and taps are properly closed. Blank off the main transformer valves with a suitable blanking plates to ensure that no oil leaks from the main tank may occur. (The transformer dimensions and weight is attached.)			
3	Specify the hydraulic crane lifting capacity at various reach distances. (Test certificates)			
4	Remove the oil conservator tank with attachments, assembly and support brackets and place neatly on site. Ensure that all the valves and taps are properly closed to prevent oil leaks			

B	Loading and off loading of the transformer fins and conservator tank with all associated brackets on site, and at the factory.	Price	Unit	Total
1	Load the cooling fins, the cooling fins must be properly stacked and secure, bolted together "Sandwich type arrangement" in easy manageable stacks. (Not more than 5 fins per stack) to ensure that no damage to the fins will occur during transport. Suitable bolts with washers to be used on fin brackets for this purpose. Close the oil entry openings to keep moisture out.			
2	Specify the transport vehicle loading restrictions weight and square meter loading area and the hydraulic crane lifting capacity at various reach distances (Test certificates) .			
3	Loading of the oil conservator tank, with attachments, assembly and support brackets on the truck. Ensure that all the valves and taps are properly closed. The tanks and support brackets must be properly secured to the truck before transportation.			

C	Transport of the transformer from the site to the factory and back to the site.	Price	Unit	Total
1	Transport to the factory			
2	Transport to the site			

D	Transformer Core and Core windings	Price	Unit	Total
1	Drain the oil from the transformer main tank into a suitable container PCB free.			
2	Remove the high and medium voltage bushing, care must be taken not to damage the CT's inside the main tank, stack the bushings neatly at an angle of 45°			
3	Remove the transformer tank main lid to allow the contractor and TFR staff to inspect the tap changer, core, core winding insulation and all exposed mechanical and electrical connections.			
4	Remove any foreign objects, repair any insulation or contactor damage, re-torque the core bolts to the correct torque settings of .....N.m. Repair all burnt or damage contacts, insulation damage, faulty terminations and faulty connections.			
5	Re-insulate the HV and MV leads to the various bushings with paper tape eight layers per conductor.			
6	During the mentioned process the transformer must be fitted with a suitable cover which will prevent dust, rain and any impurities from entering into the tank.			
7	Megger test the core insulation immediately after the cleaning and repair process			
8	Refit the 132 kV and new 52kV bushings. (Care must be taken not to damage the CT's inside the transformer main tank.) Allow to replace or modify the studs to fit the old and new bushings if required.			
9	Replace all gaskets, seals and fill the main tank with oil, vacuum of the main tank to be maintained at the correct vacuum of 5Torr			
10	Supply and fit new core/earth insulator on the outside of the main tank ,with new gaskets and cone rubber seal.			

E	The measurement and protection equipment	Price	Unit	Total
1	Completely refurbish the mentioned equipment, oil and winding temperature probes and pockets..			
2	Repair all leaks to the Bucholtz relay including the test valve and sight glass gaskets.			
3	Service and secure all control/protection - wiring/terminations inside the main tank before closing.			
4	Service transformer termination box ensure no loose connections or oil leaks			

F	Transformer cooling fins x 10	Price	Unit	Total
1	Completely refurbish all the cooling fins, attachment brackets, gaskets "type TF72", drain plugs, valves, O rings washers and seals			
2	The transformer cooling fins and support brackets, spot remove all rust/ corrosion areas plus an additional 30mm of the existing paint around the effected area, degrease check for surface damage clean and paint one coat NS4.			
3	The complete outside of the cooling fins and all attachment brackets must be must be lightly sanded to remove old lose/flake paint and corrosion, be degreased and be painted according to specification CEE 0045.90. (two coats)			
4	Clean the inside of each fin to ensure that no carbon, sludge or any other impurities are trapped inside the fins, which might contaminate the new oil. (Air blast and rinse with clean oil			
5	All the cooling fins must be pressure tested to ensure that no leakage of the oil will occur. TFR staff to be present.			
6	Replace all the transformer cooling fin spacer bolts and nuts with hot dip galvanised bolts and nut of similar material and dimensions.			

G	Transformer main tank	Price	Unit	Total
1	Completely refurbish the transformer main tank with all associate equipment, pipes and attachments, drain valves, plugs, washers, O-rings, gaskets, temperature control box, Bucholtz pipes and temperature probes.			
2	The outside of the transformer main tank and all attachment brackets, U bolts, bolts and nuts, spot repair remove all rust/corrosion, (weld, sealed weld ,...) plus an additional 30mm of the existing paint around the effected area, degrease check for surface damage clean and paint one coat NS4 red colour.			
3	The outside of the transformer main tank, must be sanded to remove loose paint, be degreased, and be painted according to specification CEE 0045.90.Painting of steel component of electrical equipment (Two coats)			
4	All the gaskets must be replaced with type TF72 of same thickness. Size 10mm gasket on the main lid. The stop and drain valves, drain plugs, washers and O-rings must be replaced. Fit new dowty washers to drain plugs on all the fins.			
5	Allow for the replacement of all broken or missing bolts and nuts as well as the bushing studs (16mm)			
6	Degrease and clean the transformer main tank plinth and paint 2 coats noxide.			

H	Transformer conservator oil tank	Price	Unit	Total
1	Completely refurbish the transformer conservator tank with all pipes, attachment brackets (knee brace and conservator supports) , do spot repairs on all rust/corrosion areas, (weld, sealed weld....) plus remove an additional 30mm of the existing paint around the effected area, degrease check for surface damage clean and paint one coat NS4 red colour. Fit new knee brace and conservator tank support bolts and nuts, new gaskets. Repair rust and place gasket 6mm type 72 between the conservator mounting brackets .			
2	The outside of the transformer conservator tank, and all attachment brackets must be sanded down, degreased and be painted according to **specification CEE 0045.90**. (one coat) white NOXIDE.			
3	The conservator tank must be pressure tested to ensure that no leakage of the oil will occur.			
4	The inside of the conservator tank must be sandblasted and clean and be painted with gliptol or be replace with a 3CR12 S/Steel tank			

5	All the gaskets must be replaced with type TF72 and all the stop valves and washers, O rings be refurbish or replaced.			
6	Supply and install new site glasses and site glass housings where required.			
7	Allow for the replacement of all broken or missing bolts and nuts as well as the bushing studs (16mm)			
8	Replace breather and breather pipe with support brackets			

I	Transformer oil and testing	Price	Unit	Total
1	The transformer oil drained from the main tank and fins must be cleaned via a vacuum filter process to ensure the removal of all dissolved gasses and impurities, Minimum dielectric strength must be at least 65kV with a water content of less than 10ppm at ....° C. No direct contact between the oil and heater elements will be allowed. Supply detailed filter process to be utilized and oil test specifications e.g. temperature, vacuum, type of filter cartridges, and different oil test to be performed "Specify". Contractor to supply own oil and generator plant.			

J	Reassemble the transformer on site	Price	Unit	Total
1	Fit the conservator tank with support brackets and new gaskets complete			
2	Fit the cooling fins to the main transformer complete with gaskets and torque all bolts and nuts to specification employing standard torque settings.			
4	Fit new oil cooling fin support brackets (Contractor to provide design to TFR for approval), hot dip galvanised and paint as per specification CEE 0045.90. (two coats). Tension rods to ensure even distribution of the load.			
	Fit the existing 132kV bushings and new 25kV bushings. Bushings will be supplied by TFR.			
6	Fill the transformer with the existing oil , Test certificates to be made available. Oil must be PCB free (Sticker from test laboratories to certify the transformer is PCB free, less than 2.5ppm @ 20° Celsius . Allow for top-up oil.			
7	Check all gaskets, valve, stop cocks for oil leaks and repair on site			
8	Filter complete transformer 3 passes minimum to meet required standards and specifications			
9	Performed final test and energise: Winding resistance, Ratio, Insulation and oil,			
10	Clean site from any redundant parts, oil spillage etc (TFR to witness all test)			
	Sub Total A			

No	Site establishment	Price	Unit	Total
1	Provide filter plant (PCB free)			
2	Provide generator plant			
3	Provide mobile crane to lift oil cooling fins and main tank lid (_____) ton			
	Provide Hydraulic jacks to raise the main transformer tank			
5	Provide reservoirs (PCB free)			
6	Transport Cost			
7	Accommodation Cost			
8	P & G's			
9				
	Sub Total B			

	Safety cost SHE plan	Price	Unit	Total
1	Compile Safety File; Written safe working statement for each process:			
	Remove and assemble of the transformer cooling fins.			
	Remove and assemble of the transformer conservator tank and attachment brackets.			
	Remove and assemble of the transformer 132kV and 25kV Bushings			
	Remove and refit of the transformer main lid			
	The raise and lowering of the transformer main tank			
2	Compile a risk assessment on:			
	Possible fire, causes, probability, estimate damage prevention, action plan			

	Oil Pollution, Causes, probability, estimate cleanup cost, prevention, action plan			
	Lifting equipment failure, Cause of failure, Probability, Estimate damage, prevention and action plan			
	High Voltage shock, causes, probability, estimated cost, prevention and action plan			
	Level crossings accidents, causes, probability, estimated cost, prevention, action plan			
3	Fall protection plan when working on transformer and removing part of the transformer			
4	Safety training;			
	Responsible person in charge			
	First aid number			
	Certified operators			
5	Certification			
	Letters of appointment			
	Letters of competency			
	Letter of good standing with the claims commissioner			
	Tax clearance certificate			
	Qualified drivers and plant operators (Certificates)			
	Letter of medical fitness on staff			
3	Site instruction book and Site Diary			

Main Total A & B

No	Specify any additional recommended work or test	Price	Unit	Total
1				
2				
3				
4				
5				
6				
7				

Additional option cost outside tender scope

I,We_____

carrying on as business under the style and title of _____

_____

hereby offer to undertake and complete the abovementioned work at a total tendered price (**totals for all 5 (five) transformers)** and in accordance with the terms set in this Request for Quote , General and/or Special Conditions and Project Specifications for the sum of :

R_____ (in words)_____

_____ **(Exclusive of VAT)**

Time to complete the work: _____ (Work days)

I/We undertake to complete the work for the duration of the contract as specified in the special conditions and particular specifications from the date of notification of the acceptance of my/our tender.

(i) **NOTE:** In the event of any discrepancy, the amount in words will take precedence over the amount in figures.

(ii) **NOTE: The price as transferred to this form shall be the tendered price, any error in pricing in this schedule, even an arithmetic error will have to be adjusted to comply with the tendered price as given on this page**

Section 3

STANDARD TERMS AND CONDITIONS FOR THE SUPPLY OF GOODS OR SERVICES TO TRANSNET

A Supplier shall be obliged to adhere to the Standard Terms and Conditions for the Supply of Goods and Services to Transnet as expressed hereunder. Should the Respondent find any condition(s) unacceptable, it should indicate which condition(s) is/are unacceptable and offer an alternative(s). A Quotation submitted by a Respondent will be subjected to review and acceptance or rejection of its proposed contractual terms and conditions by Transnet's Legal Counsel, prior to consideration for an award of business.

1 SOLE AGREEMENT

Unless otherwise agreed in writing, these terms [**Terms** and each **Term**] and Transnet's purchase order(s) [**Order** or **Orders**] represent the only conditions upon which Transnet SOC Ltd [**Transnet**] procures goods or services specified in the Order [collectively, the **Products**] from the person to whom the Order is addressed [**the Supplier**]. Transnet does not accept any other conditions which the Supplier may specify, unless otherwise agreed to by Transnet in writing. In the event of any inconsistency between these Terms and any Order, these Terms shall take precedence.

2 CONFORMITY WITH ORDER

Products shall conform strictly with the Order. The Supplier shall not vary the quantities specified and/or the specification, if any, stipulated in the Order, without the prior written consent of Transnet. The Supplier warrants that the Products shall be fit for their purpose and of satisfactory quality.

3 DELIVERY AND TITLE

3.1 The delivery dates and addresses are those in the Order. Time shall be of the essence in respect of the Supplier's obligations under the Order.

3.2 The Supplier will not be excused for delay in delivery or performance except due to circumstances outside its control and then only subject to the Supplier having notified Transnet in writing on becoming aware of such circumstances. Transnet may terminate an Order, in whole or in part, without incurring any liability to the Supplier if such a delay becomes, in Transnet's absolute opinion, significant.

3.3 Risk of loss or damage to Products shall pass to Transnet on delivery, and title shall pass to Transnet when payment to the Supplier for the Products has been effected.

3.4 If on delivery, the Products do not conform to the Order, Transnet may reject the Products and the Supplier shall promptly rectify any defects or in Transnet's opinion, supply appropriate replacement Products at the Supplier's expense within the specified delivery times, without any liability due by Transnet. Products shall be subject to such testing and/or inspection as Transnet may consider necessary.

4 PRICE AND PAYMENT

4.1 Prices specified in an Order cannot be increased. Payment for the Products shall be made by Transnet against an original undisputed invoice(s) [a **Tax Invoice**], supporting documentation and month-end statement from the Supplier. Tax Invoices plus supporting documentation shall be posted to the address shown in the Order.

4.2 Payment of the Supplier's valid Tax Invoice(s) will be made by Transnet in the South African currency and on the terms stated in the Order, the standard payment terms being 30 [thirty] days from date of receipt by Transnet of a month-end statement, unless otherwise agreed to in writing. Transnet shall arrange for payment of such Tax Invoices and any pre-authorised additional expenses incurred, provided that the authorised expenses are supported by acceptable documentary proof of expenditure incurred [where this is available]. Any amounts due in terms of these Terms shall be paid to the Supplier, taking into account any deduction or set-off and bank charges.

5 PROPRIETARY RIGHTS LIABILITY

If any allegations should be made or any claim asserted against Transnet that ownership of, or any act or omission by Transnet in relation to Products or any written material provided to Transnet relating to any Products or pursuant to an Order being a violation or infringement of any third party's contractual, industrial, commercial or intellectual property rights including but not limited to any patent, registered design, design right, trade mark, copyright or service mark on any application thereof, the Supplier hereby indemnifies Transnet against and hold it harmless from any and all losses, liabilities, costs, claims, damages and expenses [including any legal fees] arising directly or indirectly from such allegation or claim provided that this indemnity shall not apply where the allegation or claim arises solely as a result of the Supplier following a design or process originated and furnished by Transnet. The Supplier shall either

a) procure for Transnet the right to continue using the infringing Products; or

b) modify or replace the Products so that they become non-infringing,

provided that in both cases the Products shall continue to meet Transnet's requirements and any specifications stipulated in the Order. Should neither option be possible, the Supplier may remove, with Transnet's prior written consent, such Products and will pay to Transnet a sum equivalent to the purchase price. If Transnet refuses to give such consent, the Supplier shall have no liability in respect of any continued use of the infringing Products after Supplier's prior written request to remove the same.

6 PROPRIETARY INFORMATION

All information which Transnet has divulged or may divulge to the Supplier and any information relating to Transnet's business which may have come into the Supplier's possession whilst carrying out an Order, and the existence of the Order, shall be treated by the Supplier as confidential information and shall not, without Transnet's prior written consent, be disclosed to any third party, or be used or copied for any purposes other than to perform the Order. This clause does not apply to information which is public knowledge or available from other sources other than by breach of this Term. Upon request by Transnet, the Supplier shall return all materials issued pursuant to the Order and, pending this, shall protect Transnet's rights in any such materials. Such confidential information shall at all material times be the property of Transnet.

7 DEVELOPMENT WORK IN THE PRODUCTION OF PRODUCTS

If the production or provision of any Products involves research and/or development which is wholly or partly funded by Transnet, then all intellectual property or other rights as a result thereof shall be the property of Transnet on creation.

8 PUBLICITY

The Supplier shall not name Transnet or use its trademarks, service marks [whether registered or not] or Products in connection with any publicity without Transnet's prior written consent.

9 AFTER SALES SERVICE

The Supplier shall provide replacement parts necessary to ensure the uninterrupted operation of the Products supplied for the duration of the warranty period, from delivery of any particular item of the Products and if requested by Transnet shall make these parts available to a third party maintainer of Transnet's choice at the same price as if the parts had been supplied to Transnet. The Supplier undertakes to provide a maintenance service for Products, should Transnet so request, on terms to be agreed. If the Order so indicates, the Supplier will provide a warranty service for the Products at a level to be agreed with Transnet.

10 TERMINATION OF ORDER

10.1 Transnet may cancel an Order in whole or in part at any time upon at least 7 [seven] days' written notice to the Supplier, or when there is a change in control of the Supplier or the Supplier commits any serious breach or any repeated or continued material breach of its obligations under these Terms and/or Order or shall have been guilty of conduct tending to bring itself into disrepute, on written notice to the Supplier when such work on the Order shall stop.

10.2 Transnet shall pay the Supplier a fair and reasonable price for justified work in progress, where such price reflects only those costs not otherwise recoverable by the Supplier, at the time of termination, and the Supplier shall give Transnet full assistance to check the extent of such work in progress. Payment of such price shall be in full and final satisfaction of any claims arising out of such termination and upon such payment the Supplier shall deliver to Transnet all work, including any materials, completed or in progress. The sum payable to the Supplier under this clause will not in any event exceed the total amount that would have been payable to the Supplier had the Order not been terminated.

10.3 In the event of termination the Supplier must submit all claims within 2 [two] months of termination after which time claims will only be met in what Transnet considers exceptional circumstances.

10.4 If the Products are not provided in accordance with an Order, the Order shall be deemed terminated and the Supplier shall compensate Transnet for any costs incurred in obtaining substitute Products or any damage caused due to the failure or delay in the delivery.

11 ACCESS

The Supplier shall be liable for the acts, omissions and defaults of its personnel or agents who, for the purposes of the Order, shall be treated as if they are the Supplier's employees. The Supplier shall ensure that any such personnel or agents, whilst on Transnet's premises, shall comply with Transnet's health and safety, security and system security rules and procedures as and where required.

12 WARRANTY

The Supplier warrants that it is competent to supply the Products in accordance with these Terms to the reasonable satisfaction of Transnet and that all Products delivered under the Order: (a) conform and comply in all relevant legislation, standards, directives and orders related to *[inter alia]* the supply, manufacture and use of the Products in force at the time of delivery, and to any specifications referred to in the Order; (b) will not cause any deterioration in the functionality of any Transnet equipment; and (c) do not infringe any third party rights of any kind. The Supplier hereby indemnifies Transnet against all losses, liabilities, costs, claims, damages, expenses and awards of any kinds incurred or made against Transnet in connection with any breach of this warranty.

13 INSOLVENCY

If the Supplier shall have a receiver, manager, administrator, liquidator or like person appointed over all or any part of its assets or if the Supplier compounds with its creditors or passes a resolution for the writing up or administration of the Supplier, Transnet is at liberty to terminate the Order or Orders forthwith, or at its option, to seek performance by any such appointed person.

14 ASSIGNMENT

The Supplier shall not assign its obligations under an Order without Transnet's prior written consent, which consent shall not be unreasonably withheld or delayed.

15 NOTICES

Notices under these Terms shall be delivered by hand to the relevant addresses of the parties in the Order or may be served by facsimile or by email, in which event notice shall be deemed served on acknowledgement of receipt by the recipient.

16 LAW

Orders shall be governed by and interpreted in accordance with South African law and any disputes arising herein shall be subject to South African arbitration under the rules of the Arbitration Foundation of South Africa, which rules are deemed incorporated by reference in this clause. The reference to arbitration shall not prevent Transnet referring the matter to any South African courts, having jurisdiction, to which the Supplier hereby irrevocably submits but without prejudice to Transnet's right to take proceedings against the Supplier in other jurisdictions and/or obtaining interim relief on an urgent basis from a court of competent jurisdiction pending the decision in other courts or from instituting in any court of competent jurisdiction any proceedings for an interdict or any other injunctive relief. If the Supplier does not have a registered office in the South Africa it will at all times maintain an agent for service of process in South Africa and shall give Transnet the name and address of such agent as such may be amended, in writing, from time to time.

17 GENERAL

Completion or termination of an Order shall be without prejudice to any Term herein which by its nature would be deemed to continue after completion or termination, including but not limited to clauses 5, 6, 7, 8 and 12. Headings are included herein for convenience only. If any Term herein be held illegal or unenforceable, the validity or enforceability of the remaining Terms shall not be affected. No failure or delay by Transnet to enforce any rights under these Terms will operate as a waiver thereof by Transnet. All

rights and remedies available to either party under these Terms shall be in addition to, not to the exclusion of, rights otherwise available at law.

18 COUNTERPARTS

These Terms and conditions may be signed in any number of counterparts, all of which taken together shall constitute one and the same instrument. Any party may enter into this agreement by signing any such counterpart.

Section 4

BACKGROUND AND SCOPE OF REQUIREMENTS

TRANSNET

freight rail

General Specification
Repair works to a 132/25kV, 20MVA single phase traction transformer.

BACKGROUND

Transnet Freight Rail requires the provision of the refurbishment of 5 x 20MVA Traction Transformers situated at the Lesseyton-, Carrickmore-, Dorne- and Lalisa substations.

SCOPE OF REQUIREMENTS

1. REFERENCE LIST

1.1 The following publications are referred to herein:

1.1.1	SANS 555.	1995: Insulating Oil for Transformer and Switchgear.
1.1.2	IEC 76	1993: Transformers
1.1.4	BSS 171 1987:	Power Transformers
1.1.5	Transnet Freight Rail	
	CEE.0045.90	Painting of steel components of electrical equipment.
	E.4E (April 1997).	Safety Arrangements and procedural Compliance with the Occupational Health and Safety Act.
	CEE. GI 012	Supervision and Maintenance of oil in electrical equipment

2. TENDERING

2.1 In order to evaluate the offers for the contract, Tenderers are requested to submit a breakdown of prices **per transformer** for the various items to be performed (**Bill of quantities per transformer attached**).

2.2 Transnet Freight Rail shall not disclose the successful tender's tender price or any other tender prices, as this is regarded as confidential information.

2.3 Transnet Freight Rail (hereafter refer to as TFR) reserves the right to inspect the tenderers facilities, plant and equipment prior to awarding the contract in order to ensure that it is suitable for the type of operations required.

2.4 The Tenderer must indicate if a sub contractor will be utilized to perform portions of the work and ensure that the sub contractor is competent in performing the duties.

2.5 The sub contractor may only be appointed by the main contractor if approval has been obtained from TFR.

3. TENDER REQUIREMENTS.

3.0 The contractor shall conduct an inspection on site, to determine the actual site conditions namely the different access roads leading to the various substation sites, the condition of the access roads, overhead bridges and overhead transmission and communication lines, the nearest towns and possible suppliers of material and equipment to the site, the availability of water and electricity as well as the weather conditions.

3.1 The contractor will provide his own plant and equipment on site, (Oil filter plant, standby generators, security or any other plant and equipment required to execute the work safely)

3.2 The physical size and dimensions of the transformer and its associated parts. (See the attached file "25kV traction transformer.xls" as a reference, the transformer measurements and information provide must be verified by the contractor on site.)

3.3 The contractor shall submit a **schedule of the work to be performed** on each transformer. Included in his schedule shall be the costs as per the schedule of prices and a program for the complete repair work.

3.4 The repair period per transformer will be negotiated between TFR and the contractor up to a maximum period of 3 weeks (21days). A penalty of R500.00 rand will be enforced should the contractor not adhere to the laid down time frames per transformer.

3.5 The contractor shall quote separate labour rates for work not specified in the schedule of prices.

4. WORK TO BE PERFORMED ON THE TRANSFORMER.

4.1 THE DISMANTLING OF THE TRANSFORMER COOLING FINS AND CONSERVATOR TANK WITH ALL ASOCIATED BRACKETS.

4.1.1 Close the main transformer tank oil valves leading to the cooling fins and conservator tank. Drain the oil from the cooling fins and conservator tank in a suitable container. (Contractor to specify container and container PCB free)

4.1.2 Remove all the transformer cooling fins, all their attachment brackets and support brackets if applicable from the main transformer tank, place/stack the fins neatly on site. Ensure that all the valves and taps are properly closed. Fin oil entry holes to be closed to stop water and debris entering it during this time.(the transformer dimensions and weight is attached)

4.1.3 Specify the hydraulic crane lifting capacity at various reach distances. (Dated test certificates).

4.1.4 Remove the oil conservator tank with attachment and support brackets and place neatly on site. Ensure that all the valves and taps are properly closed to prevent oil leaks

4.1.5 The Contractor must provide details on all the lifting equipment to be utilized with inspection sheets and appropriate certificates together with operator's certificate of competence.

4.2 THE TRANSPORTATION OF THE TRANSFORMER FINS AND CONSERVATORE TANK WITH ALL THE ATTACHMENT BRACKETS TO AND FROM SITE IF PREFERRED:

4.2.1 The loading of the transformer cooling fins, the cooling fins must be properly stacked and secure, bolted together (Sandwich type arrangement), in easy manageable stacks. Ensure that no damage will occur during the transport of the cooling fins, to the repair site and during the off loading of the cooling fins at the repair site. Close the oil entry openings to keep moisture out.

4.2.2 The loading of the transformer conservator tank with all the associated brackets, and support brackets on the truck. Ensure that all the oil valves and taps are properly closed. The tank and support brackets must be properly secure to the truck before transportation.

4.2.3 Contractor to provide detail on all the lifting and transport equipment to be utilized with inspection sheets and appropriate certificates.

4.3 TRANSFORMER CORE, CORE WINDINGS, WINDING INSULATION, ELECTRICAL CONNECTIONS AND MECHANICAL CONNECTIONS INSIDE THE MAIN TANK.

4.3.1 Drain the oil from the transformer main tank completely.

4.3.2 Remove the High and Medium Voltage bushings and blank off openings. The bushings must be neatly stacked at an angle of 45º. TFR will provide new Medium Voltage 52kV bushings to be fitted. (Care to be taken not to damage the CT's on removal and re-fitment of the bushings)

4.3.3 Remove the transformer tank main lid to allow the Contractor and TFR staff to inspect the tap changer, core and core winding insulation and all exposed mechanical and electrical connections for damage

4.3.4 Remove any unwanted objects, repair any insulation damage and contact damage on the tap changer and re-torque the core bolts to the correct torque settings 135N.m. Repair all burnt or damage contacts, insulation damage, faulty terminations and faulty connections.

4.3.5 Re-insulate the HV and MV leads to the various bushings with paper tape eight layers per conductor.

4.3.6 This process should not exceed a time period of more than 24hrs to limit the exposure of the core and windings to the atmosphere. During this phase the transformer must be covered with a suitable cover which will prevent rain dust and any impurities form entering the main tank.

4.3.7 Megger test core insulation immediately after the cleaning and repair process these readings to comply to SANS standards

4.3.8 Refit the 132 kV and new 52kV bushings. (Care must be taken not to damage the CT's inside the transformer main tank.) Allow to replace or modify the studs to fit the old and new bushings if required.

4.3.9 Replace all the gaskets, seals and fill main tank with oil, vacuum the main transformer tank to the correct Torr.

4.3.10 Supply and fit new core/earth insulator on the outside of the main tank and replace this insulators cone rubber.

4.3.11 Check and service all earth connections.

4.4 THE MEASUREMENT AND PROTECTION EQUIPMENT.

4.4.1 Service oil and winding temperature pockets, fill with new oil, remove rust apply 1 coat NS4.

4.4.2 Repair all leaks to Bucholtz relay including the test valve and sight glass gaskets.

4.4.3 Service and secure and seal all control/ protection wiring inside the main tank before closing.

4.5 THE TRANSFORMER COOLING FINS:

4.5.1 Complete refurbish all the cooling fins, attachment support brackets, gaskets "Type TF 72", drain plugs, valves, O rings, washers and seals.

4.5.2 O Rings to be fitted to all the valve stem seals and dowty washers to be fitted to all the cooling fin drain plugs

4.5.3 The Contractor to remove all the rust and 30mm of the existing paint around the rust effected area, or any other form of corrosion or damage.

4.5.4 Do a spot repair on the rusted areas, remove all the rust and 30mm of the existing paint around the rust effected area, degrease the treated effected area, apply one coat NS4 red colour

4.5.5 Remove all lose paint (Specify method)

4.5.6 Clean the inside of the cooling fins of any carbon or sludge, air blast and rinse with new oil and pressure test each fin to ensure that no oil leaks will occur.

4.5.7 If hole or leaks are detected on the cooling fins, specify repair method to be utilised as not to damage or weaken the current mechanical condition of the cooling fin material.

4.5.8 Clean and degrease the outside of the cooling fin and paint the outside of the cooling fins complete with two coats of Noxide "Airless spray" as per specification CEE.0045.90. Painting of steel components of electrical equipment. An airless spray machine must be used – not a normal spray compressor.

4.6 THE TRANSFORMER MAIN TANK:

4.6.1 Complete refurbishment of the transformer main tank with all associated equipment, drain valves and plugs, washers, O-rings, gaskets, temperature control box, Bucholtz pipes, and temperature probes.

4.6.2 Remove all the rust or any other form of corrosion from the main tank, the rusted area as well as an additional 30mm of the existing paint surrounding the rusted area, degrease the treated effected area, apply one coat NS4 red colour.

4.6.3 Clean the tank "degrease" and repaint the outside of the tank with two coats Noxide "Airless spray or hand brush" as per specification CEE.0045.90. Painting of steel components of electrical equipment.

4.6.4 All the gaskets must be replaced with type TF 72 of same thickness. Size 10mm gasket on the main lid. The stop and drain valves, drain plugs, washers and O-rings must be replaced. Fit new dowty washers to drain plugs on all the fins.

4.6.5 Allow for the replacement of all broken or missing bolts and nuts as well as the bushing studs (16mm)

4.6.6 Raise the transformer main tank from the plinth if applicable, secure the main tank, remove all the rust or any other form of corrosion from the main tank, the rusted area as well as an additional 30mm of the existing paint surrounding the rusted area, degrease the treated effected area, apply one coat NS4 red colour. Clean the tank "degrease" and repaint the outside of the tank with two coats of Noxide "Airless spray or hand brush" as per specification CEE.0045.90. Painting of steel components

of electrical equipment. Fit malthoid 3 layers and lower the main tank back into existing position.

4.7 **THE CONSERVATOIL TANK WITH SUPPORTING BRACKETS:**

4.7.1 Complete refurbishment of the transformer conservator tank. Remove all the rust and or any other form of corrosion, with 30mm of the existing good paint surrounding the rust effected areas, degrease the treated effected area, and apply one coat NS4 red colour. Lift the conservator off its stand and mounting brackets, de-rust and paint these areas and fit a 6mm type 72 packing on this bracket and re secure same.

4.7.2 Clean the tank "degrease" and repaint the inside of the tank with NS4/gliptol and degrease outside of the tank and supporting brackets and paint with 2 coats of Noxide by means of "Airless spray" as per specification CEE 0045.90. Painting of steel components of electrical equipment.

4.7.3 Pressure test the conservator tank to ensure that no oil leaks will appear.

4.7.4 The inside of the conservator tank must be sandblasted and clean and be painted with gliptol or be replace with a 3CR12 S/Steel tank

4.7.5 All the gaskets must be replaced with type TF72 and all the stop valves refurbish and washers, O rings are replaced.

4.7.6 Supply and install new site glasses and site glass housings where required.

4.8 **THE COMPLETE REASSEMBLY OF THE TRANSFORMER:**

4.8.1 Re-gasket the transformer with type TF 72, 10mm thick for the main lid (torque main lid bolts 55Nm) and 6 mm for the rest of the gaskets

4.8.2 Fit the cooling fins to the main transformer complete with new gaskets and torque all bolts and nuts to the minimum specified torque settings for the appropriate bolts.

4.8.3 Install new fin support brackets, hot dip galvanised and painted as per specification CEE 0045 90 two coats. Tension the support bracket rod to ensure an even distribution of the oil fin loads.

4.8.4 Fit the conservator tank with all attachment brackets

4.8.5 Services oil, and winding temperature gauges and Bucholtz relay.

4.8.6 Fill the transformer with the existing oil under a vacuum process.

4.8.7 Top up the transformer with virgin oil " Conservator tank sigh glass indication" and filter the transformer oil a minimum of 3 passes to ensure a 65kV dielectric strength and a water content of less than

4.9 GRENERAL REPAIRS AND REQUIREMENTS.

4.9.1 Allow for the replacement of studs, nuts and bolts with equal quality studs, bolts and nuts as and when required. Welding of stud may be required (Provision)

4.9.2 Secure all cables and pipes

4.9.3 Overlap the gasket joints (Lap joint) to ensure that no oil leaks will appear.

4.9.4 Draw a vacuum. Fill the transformer with the existing transformer oil PCB free under vacuum condition.

4.9.5 Check all gaskets, valves, stop taps for any oil leaks, and repair if leaks are identified.

4.9.6 Filter the transformer oil, a minimum of 4 passes at 70 degree Celsius under a vacuum of 5 Torr. Contractor to supply their own generator and filter plant.

4.9.7 Re-torque all bolts and nuts after a four month period form completion

5. SERVICE CONDITIONS

The transformer must perform to its rated design after testing for continuous operation for a period of 24 hours to ensure no damaged was cause to the transformer during transport.

6. DRYING THE TRANSFORMERS IF REQUIRED

6.1 The following methods of drying out the transformer may be used:
6.1.1 The vapour phase process.
6.1.2 The oven dry process.
6.1.3 The vacuum dry out process

6.2 Tenderers who offer a vapour phase process to clean and dry transformers must ensure that the process does not cause any deterioration on the aged insulation.

6.3 For the vapour phase process the moisture level shall be less than 1, 0 percent.

6.4 The tendered shall indicate what dry-out process is to be implemented and the method used to determine the specified moisture level.

7. INSULATING OIL

7.1 TFR will make the last test results of the transformer oil available to the contractor.

7.2 The contractor shall ensure that the mineral insulating oil used for topping up the requirements specified in SABS 555.1995. and be PCB free. Top up oil to be supplied by contractor. Top up level as indicated by conservator sight level indicator at 21degree C. Use virgin oil.

7.3 TFR will make a test certificate available concerning PCB contamination before the disassembling of the transformer may proceed, to ensure that it is within the maximum allowable specification.

7.4 The contractor shall arrange via the "Contract Manager" to have oil samples taken from the transformer when it is filled and filtered on site. The oil samples shall be taken by the Maintenance Electrical Protection Staff for tests to ensure that the oil complies with the specified requirements of SABS 555.1995 before the transformer is energised and placed on load.

8. TESTS ON REPAIRED TRANSFORMER

8.1 The power transformer shall withstand the routine tests specified in specification IEC 76.1993 or BSS 171.1987 which ever one is applicable. The cost for the tests shall be included in the tender.

8.2 The previous test results will be made available to all Tenderers

8.3 The contractor shall submit test certificates of the test results to the TFR staff witnessing the tests and to the "Contract Manager".

9. INSPECTION

9.1 TFR reserves the right to be present during the transport, repair work and testing and must be timeously advised of the dates of commencement of the repair work and of testing.

9.2 Arrangements must be made timeously via the "Contract Manager" for the TFR protection staff, to witness and authorise the tests for the transformer repaired.

9.3 Each phase of the repair work must be inspected and approved by TFR before the next phase may proceed.

9.4 Calibration certificates less than 12 months old issued by a recognised authority for all instruments to conduct tests on transformers shall be available for inspection, if requested by TFR.

10. CORROSION PROTECTION AND PAINT FINISH

10.1 All exterior metal surfaces of the transformer, and associated apparatus, damaged during the transportation of the transformer and subject to corrosion, shall be prepared for corrosion proofing and painted in accordance with the practice recommended in SABS 064 1979 and as specified in TFR's Specification No. CEE.0045.90

10.2 The transformer base must be inspected for rust and any defects to the metal surface. All the defects detected must be repaired before the placing of the transformer.

10.3 All external surfaces shall be finished with an acceptable outer coat colour to match the existing finish.

11. PACKING

11.1 The transformer fins and conservator tank shall be loaded in such a manner that it shall not sustain damage during handling and transportation, and precautions shall be taken to ensure that moisture cannot enter the equipment.

11.2 The transformer fins and conservator tank transport to the new site, filling with oil under vacuum and filter process must be a continuous operation with no break in the process to ensure that no moisture enters the transformer.

11.3 The contractor will specify the safe method and equipment utilising for raising and lowering of the transformer main lid, fins and conservator tank on to and from the truck. (Safe working statement)

11.4 The rating of the crane and jacks to be used for the lifting and lowering process must be specified in the tender documents and exceed the load of the equipment.

12. GUARANTEE

12.1 The contractor shall guarantee the transformer against faulty workmanship for a period of twelve months from the date the transformer has been energised.

12.2 The "Contract Manager" shall notify the contractor in writing of the date when the transformer shall be energised.

13. CERTIFICATE OF ACCEPTANCE

13.1 The issuing of an inspection certificate will be authorised by the Quality Assurance Section of Transnet Freight Rail after final acceptance of the transformer.

14. QUALITY ASSURANCE

14.1 The Tenderer shall indicate at the tendering stage what steps have been taken to implement a Quality System in terms of ISO 9002 and shall submit a Quality Plan.

15. SAFE WORKING ON TRANSNET FREIGHT RAIL SUBSTATION SITES

15.1 The contractor or his sub-contractor shall be required to work on site in accordance with TFR safety specification E4E of April 1997 and the Occupational Health and Safety Act 85 of 1993.

15.2 The contractor shall be required to work under direct supervision of TFR's appointed "Electrical Officer and Technical officer Contract" on site and shall work only in the area which shall be demarcated by suitable barriers if required.

15.3 The contractor must submit a written safe working statement on the work to be performed including a fall protection plan before any work may commence.

15.4 The contractor must appoint a competent supervisor on site who must always be present during the construction work.

15.5 The contractor must ensure that all the production staff are trained and certified to perform the duties required to execute the work.

15.6 The contractor must ensure that all the staff under his control holds a medical certificates to prove that they are fit to perform the work

15.7 The contractor must ensure that all the sub contractors, riggers and scaffold erectors are certified and that all scaffold work is inspected and certified accordingly by an inspector.

15.8 The contractor must ensure that the correct slings and chains are utilised, and that the equipment inspection sheets and certificates are made available on site in the safety file.

15.9 No work may commence before all the mentioned appointment letters, medical certificates, written safe working statement and all legal documents are submitted in a safety file to the Contract Manager.

15.10 The complete safety file must be made available within three weeks of notification that the contract has been awarded failure to deliver the file in time will let to the cancellation of the contract.

16. RISK AND POSSIBLE HAZARDS CONDITIONS

16.1 Hazardous materials to be properly stored (Petrol, diesel and cleaning materials).

16.2 No work may be done under live conditions.

16.3 The contractor must ensure that all the transformer oil containers are in good order and that no oil spills will occur.

16.4 Transformer oil is highly flammable and no welding may take place that might ignite the transformer oil.

16.5 All the transformer oil containers and the filter plan must be certified PCB free.

16.6 No work may commence during lightning conditions.

16.7 The contractor must arrange his own safety staff to protect his plant and equipment

17. INSURANCE

17.1 The contractor will arrange insurance for all his plant and equipment utilized on site. The contractor will provide liability insurance to cover any incident or claim that may arises during the contract execution period.

17.2 The contract must also arrange for insurance cover for possible oil spills on site and during transport from or to the transformer repair sites.

18. PENALTIES

18.1 The contractor will provide a safety file with all relevant documents namely; appointment letters, written safe working statement, medical certificates, good standing with the compensation commissioner, appointment of competent supervisors, site instruction book, site dairy, fall protection plan etc within 2 weeks of appointment and ensure that their site diary is present at all times..

18.2 Failure to provide the mentioned documentation will automatically led to the cancellation of the contract.

18.3 The following penalties will apply or part thereof for any delays, i.e. R500 per day up to a maximum of 12% of the contract amount according to the scheduled energising date after commissioning at the substation.

Section 5

CERTIFICATE OF ATTENDANCE: INFORMATION BRIEFING SESSION

It is hereby certified that -

1. .....

2. .....

Representative(s) of .....

(name of company)

attended the site inspection / briefing session in respect of the proposed service to be rendered in terms of this RFQ on .....2013.

.....	.....
TRANSNET'S REPRESENTATIVE	RESPONDENT'S REPRESENTATIVE
DATE.....	DATE.....

Section 6

ATTACHMENTS

ANNEXURE A

GENERAL TENDER CONDITIONS – SERVICES
Refer Form CSS5 attached hereto.

ANNEXURE B

SPECIFICATION FOR WORK ON, OVER, UNDER OR ADJACENT TO RAILWAY LINES AND NEAR HIGH VOLTAGE EQUIPMENT
Refer Form E7/1 attached hereto.

ANNEXURE C

SAFETY ARRANGEMENTS AND PROCEDURAL COMPLIANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT; ACT 85 OF 1993 AND REGULATIONS
Refer Form Safety Arrangements attached hereto.

ANNEXURE D

PAINTING OF STEEL COMPONENTS OF ELECTRICAL EQUIPMENT
Refer Form attached hereto

ANNEXURE E

SUPPLIER CODE OF CONDUCT
Refer Form attached hereto

ANNEXURE F
RFQ DECLARATION FORM
Refer Form attached hereto. (Compulsory)

Section 7

ACKNOWLEDGEMENT

By signing this RFQ document, the Respondent is deemed to acknowledge that he/she has made himself/herself thoroughly familiar with all the conditions governing this RFQ, including those contained in any printed form stated to form part hereof and Transnet SOC Ltd will recognise no claim for relief based on an allegation that the Respondent overlooked any such condition or failed to properly take it into account for the purpose of calculating quoted prices or otherwise.

SIGNED at _____ on this _____ day of _____ 20____

.....

SIGNATURE OF RESPONDENT'S AUTHORISED REPRESENTATIVE

NAME: _____

DESIGNATION: _____

REGISTERED NAME OF COMPANY _____

PHYSICAL ADDRESS:

_____

_____

Respondent's contact person: *[Please complete]*

Name	:
Designation	:
Telephone	:
Cell Phone	:
Facsimile	:
Email	:
Website	:

Transnet urges its clients, suppliers and the general public to report any fraud or corruption to TIP-OFFS ANONYMOUS: 0800 003 056