

REQUEST FOR QUOTATION

SUPPLY AND DELIVERY OF SIGNALLING EQUIPMENT

Transnet Freight Rail, a Division of Transnet SOC Limited, invites all interested parties to respond to a request for quotation (RFQ) as indicated below:

All RFQ's should be submitted on the appropriate RFQ forms and should be deposited in the tender box before 10h00 on the closing date of the tender/s.

If delivered by hand, the Tender submissions must be addressed to Main Reception Area, Transnet Freight Rail RME, Cnr Jetpark and Northreef Roads.

RFQ documents may be obtained on and after **12 MAY 2016** from Nico Forteins, e-mail address nico.forteins@transnet.net, contact number: 011 878 7028 and will **only be** available until **15h00** on **18 WEDNESDAY MAY 2016, free of charge per set of document.**

For enquiries regarding obtaining of documents, contact Nico Forteins, telephone No. 011 878 7028. RFQ documents may be viewed from the website by clicking on the RFQ number that is highlighted in red on the website: <http://www.transnetfreightrail-tfr.net/Supplier/Pages/Tenders.aspx>

RFQ NUMBER: CRAC-ELF-21395

REQUIRED AT: ELANDSFONTEIN

CLOSING DATE OF RFQ: THURSDAY 19 MAY (12h00)

Respondents, who do not comply with all of the above, will be disqualified immediately on site.

For tender enquiries contact:

Cecilia Mosolodi
011 878 7078

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TRANSNET FREIGHT RAIL a division of

TRANSNET SOC LTD

Registration Number 1990/000900/30

[Hereinafter referred to as **Transnet**]

REQUEST FOR QUOTATION [RFQ] No: CRAC-ELF -21395

FOR THE SUPPLY/PROVISION OF: SIGNALLING EQUIPMENT

FOR DELIVERY TO: ELANDSFONTEIN DEPOT

ISSUE DATE : 12 MAY 2016

CLOSING DATE: 19 MAY 2016

CLOSING TIME: 12:00

Section 1 NOTICE TO BIDDERS

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

METHOD: HAND DELIVERY/ COURIER
CLOSING VENUE: Main Reception Area
Transnet Freight Rail
Elandsfontein
Cnr. Jet Park and North Reef Road
1406

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.

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. As described in more detail in the attached B-BBEE Claim Form Transnet will allow a "preference" to companies who provide a valid B-BBEE Verification Certificate.

The value of this bid is estimated to be over R1 000 000 000; and therefore the **90/10** system shall be applicable.

Respondents are required to complete Annexure A [the B-BBEE Preference Point Claim Form] and submit it together with proof of their B-BBEE Status as stipulated in the Claim Form in order to obtain preference points for their B-BBEE status.

Note: Failure to submit a valid and original B-BBEE certificate or a certified copy thereof at the Closing Date of this RFQ will result in a score of zero being allocated for B-BBEE.

3 Communication

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.

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

Name: Cecilia Mosolodi

Email: Cecilia.mosolodi@transnet.net

Telephone: 011 878 7078

Respondents may also, at any time after the closing date of the RFQ, communicate with the Secretariat of the Transnet Acquisition Council on any matter relating to its RFQ response:

Telephone 011 878 7045

Email: Tlalane.mokiba@transnet.net

4 **Legal Compliance**

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

5 **Changes to Quotations**

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

6 **Pricing**

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

7 **Prices Subject to Confirmation**

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

8 **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.

9 **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 or an alternative bid;
- 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 / service/s which are reflected in the scope of this RFQ;
- split the award of the order/s between more than one Supplier/Service Provider should it at Transnet's discretion be more advantageous in terms of, amongst others, cost or developmental considerations ;
or
- Make no award at all.

Should a contract be awarded on the strength of information furnished by the Respondent, which after conclusion of the contract, is proved to have been incorrect, Transnet reserves the right to cancel the contract.

Transnet reserves the right to award business to the highest scoring bidder/s unless objective criteria justify the award to another bidder.

Transnet reserves the right to conduct Post Tender Negotiations (PTN) with selected Respondents or any number of short-listed Respondents, such PTN to include, at Transnet's discretion, any evaluation criteria listed in the RFQ document.

Should the preferred bidder fail to sign or commence with the contract within a reasonable period after being requested to do so, Transnet reserves the right to award the business to the next highest ranked bidder, provided that he/she is still prepared to provide the required goods at the quoted price.

10 Specification/Scope of Work

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

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RFQ FOR THE PROVISION/SUPPLY OF: SIGNALLING EQUIPMENT
CLOSING VENUE: Main reception Area, Elandsfontein Depot
CLOSING DATE & TIME: 19 MAY 2016 (12:00)
VALIDITY PERIOD: 90 Business Days

SECTION 2

1 EVALUATION CRITERIA

2 TRANSNET WILL UTILISE THE FOLLOWING CRITERIA [NOT NECESSARILY IN THIS ORDER] IN CHOOSING A SUPPLIER/SERVICE PROVIDER, IF SO REQUIRED:

Criterion/Criteria	Explanation
Administrative responsiveness	Completeness of response and returnable documents
Final weighted evaluation based on 80/20 preference point	<ul style="list-style-type: none">• Pricing and price basis [firm]• 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 indicated in Annexure A: B-BBEE Claim Form.

3 Validity Period

Transnet desires a validity period of 90 [ninety] Business Days from the closing date of this RFQ. This RFQ is valid until 26 SEPTEMBER 2016.

4 Disclosure of Prices Quoted

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

YES NO

5 Returnable Documents

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

All Returnable Sections, as indicated in the header and footer of the relevant pages, must be signed, stamped and dated by the Respondent.

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

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

Please confirm submission of these mandatory Returnable Documents by so indicating [Yes or No] in the tables below:

Mandatory Returnable Documents	Submitted [Yes or No]
SECTION 3 : Quotation Form	

- b) In addition to the requirements of section (a) above, Respondents are further required to submit with their Quotations the following **essential Returnable Documents** as detailed below.

Failure to provide all these Returnable Documents may result in a Respondent's disqualification. Respondents are therefore urged to ensure that all these documents are returned with their Quotations.

Essential Returnable Documents	Submitted [Yes or No]
- SECTION 4 : RFQ Declaration and Breach of Law Form	
- Valid and original, or a certified copy, of your entity's B-BBEE Verification Certification as per the requirements stipulated in Annexure A: B-BBEE Claims Form Note: failure to provide these required documents at the closing date and time of the RFQ will result in an automatic score of zero being allocated for preference	
- Original valid Tax Clearance Certificate [Consortia / Joint Ventures must submit a separate Tax Clearance Certificate for each party]	
ANNEXURE A – B-BBEE Preference Points Claim Form	

CONTINUED VALIDITY OF RETURNABLE DOCUMENTS

The successful Respondent will be required to ensure the validity of all returnable documents, including but not limited to its Tax Clearance Certificate and valid B-BBEE Verification Certificate, for the duration of any contract emanating from this RFQ. Should the Respondent be awarded the contract [**the Agreement**] and fail to present Transnet with such renewals as and when they become due, Transnet shall be entitled, in addition to any other rights and remedies that it may have in terms of the eventual Agreement, to terminate such Agreement forthwith without any liability and without prejudice to any claims which Transnet may have for damages against the Respondent.

SECTION 3 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 RFQ Terms and Conditions for the Supply of Goods or Services to Transnet; 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

I/We quote as follows for the goods required, on a "delivered nominated destination" basis, excluding VAT:

Item Req No	Description of Goods /Services	Unit of Measure	Quantity	Unit Price (ZAR)	Total Price (ZAR)
10522077	1*20kva MP 100 range stand-alone unit with integral maintenance bypass (mbs) 380v/380v 3 phase 50hz built Transnet Specifications	EA	1		
10522081	Power distribution cubicle 20kva complete as per Transnet specification (C/W WITH ALL POWER)	EA	1		
10522082	400v Battery VRLA 32 block (cbs 12v*32) 26A/H with design life of 5 Years c/w cable and battery terminals, 1*ubc0005 battery cabinet.	EA	1		
	TOTAL				

Delivery Lead-Time from date of purchase order: _____ **[days/weeks]**

Respondent's Signature

Date & Company Stamp

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.

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.

By signing this Quotation Form the Respondent is deemed to acknowledge that he/she has made himself/herself thoroughly familiar, and agrees, with all the conditions governing this RFQ, including those contained in any printed form stated to form part hereof, including but not limited to the documents stated below and Transnet SOC Ltd will recognise no claim for relief based on an allegation that the Respondent overlooked any such condition or failed properly to take it into account for the purpose of calculating tendered prices or otherwise:

- 1. Specifications and drawings included in this RFQ - if applicable; and
- 2. The following documents all of which are available on Transnet's website or upon request:
 - 2.1. General Bid Conditions;
 - 2.2. Standard RFQ Terms and Conditions for the Supply of Goods or Services to Transnet;
 - 2.3. Supplier Integrity Pact;
 - 2.4. Non-disclosure Agreement; and
 - 2.5. Vendor Application Form and all supporting documents (first time vendors only)Alternatively, for all existing vendors, please provide vendor number(s) here:

Transnet Operating Division	Unique Vendor Number	Yes / No
Transnet Group		
TFR, etc.		

In the Yes/No column above, please confirm that all the information e.g. company address and contact details, banking details etc. are still correct as at the time of allocation of the vendor number(s). Alternatively, Respondents are required to provide the updated information with their bid submission.

SIGNED at _____ on this _____ day of _____ 20____

SIGNATURE OF WITNESSES

ADDRESS OF WITNESSES

1 _____
Name _____

2 _____
Name _____

SIGNATURE OF RESPONDENT'S AUTHORISED REPRESENTATIVE: _____

NAME: _____

DESIGNATION: _____

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SECTION 4

RFQ DECLARATION AND BREACH OF LAW FORM

NAME OF ENTITY: _____

We _____ do hereby certify that:

1. Transnet has supplied and we have received appropriate responses to any/all questions [as applicable] which were submitted by ourselves for RFQ Clarification purposes;
2. we have received all information we deemed necessary for the completion of this Request for Quotation [RFQ];
3. We have been provided with sufficient access to the existing Transnet facilities/sites and any and all relevant information relevant to the Supply of the Goods as well as Transnet information and Employees, and has had sufficient time in which to conduct and perform a thorough due diligence of Transnet's operations and business requirements and assets used by Transnet. Transnet will therefore not consider or permit any pre- or post-contract verification or any related adjustment to pricing, service levels or any other provisions/conditions based on any incorrect assumptions made by the Respondent in arriving at his Bid Price.
4. at no stage have we received additional information relating to the subject matter of this RFQ from Transnet sources, other than information formally received from the designated Transnet contact(s) as nominated in the RFQ documents;
5. we are satisfied, insofar as our entity is concerned, that the processes and procedures adopted by Transnet in issuing this RFQ and the requirements requested from Bidders in responding to this RFQ have been conducted in a fair and transparent manner; and
6. furthermore, we declare that a family, business and/or social relationship **exists / does not exist** [delete as applicable] between an owner / member / director / partner / shareholder of our entity and an employee or board member of the Transnet Group including any person who may be involved in the evaluation and/or adjudication of this Bid.
7. In addition, we declare that an owner / member / director / partner / shareholder of our entity **is / is not** [delete as applicable] an employee or board member of the Transnet Group.
8. If such a relationship as indicated in paragraph 6 and/or 7 exists, the Respondent is to complete the following section:

Respondent's Signature

Date & Company Stamp

FULL NAME OF OWNER/MEMBER/DIRECTOR/
PARTNER/SHAREHOLDER:

ADDRESS:

Indicate nature of relationship with Transnet:

[Failure to furnish complete and accurate information in this regard will lead to the disqualification of a response and may preclude a Respondent from doing future business with Transnet.]

9. We declare, to the extent that we are aware or become aware of any relationship between ourselves and Transnet [other than any existing and appropriate business relationship with Transnet] which could unfairly advantage our entity in the forthcoming adjudication process, we shall notify Transnet immediately in writing of such circumstances.

BREACH OF LAW

10. We further hereby certify that I/we **have/have not been** [delete as applicable] 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. This includes the imposition of an administrative fine or penalty.

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.

SIGNED at _____ on this ____ day of _____ 20__

For and on behalf of _____ duly authorised hereto	AS WITNESS:
Name:	Name:
Position:	Position:
Signature:	Signature:
Date:	Registration No of Company/CC _____
Place:	Registration Name of Company/CC _____
Company contact details:	
Email address :	

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Respondent's Signature

Date & Company Stamp

RFQ FOR THE SUPPLY AND DELIVERY OF SIGNALLING EQUIPMENT

ANNEXURE A: B-BBEE PREFERENCE POINTS CLAIM FORM

This preference form contains general information and serves as a claim for preference points for Broad-Based Black Economic Empowerment [**B-BBEE**] Status Level of Contribution.

1. INTRODUCTION

- 1.1 A total of 10 (Ten) preference points shall be awarded for B-BBEE Status Level of Contribution.
- 1.2 Failure on the part of a Bidder to fill in and/or to sign this form and submit a B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System [**SANAS**] or a Registered Auditor approved by the Independent Regulatory Board of Auditors [**IRBA**] or an Accounting Officer as contemplated in the Close Corporation Act [**CCA**] together with the bid will be interpreted to mean that preference points for B-BBEE Status Level of Contribution are not claimed.
- 1.3 Transnet reserves the right to require of a Bidder, either before a Bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by Transnet.

2. GENERAL DEFINITIONS

- 2.1 "**all applicable taxes**" include value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;
- 2.2 "**B-BBEE**" means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- 2.3 "**B-BBEE status of contributor**" means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- 2.4 "**Bid**" means a written offer in a prescribed or stipulated form in response to an invitation by Transnet for the provision of goods, works or services;
- 2.5 "**Broad-Based Black Economic Empowerment Act**" means the Broad-Based Black Economic Empowerment Act, 2003 [Act No. 53 of 2003];
- 2.6 "**comparative price**" means the price after the factors of a non-firm price and all unconditional discounts that can be utilised have been taken into consideration;
- 2.7 "**consortium or joint venture**" means an association of persons for the purpose of combining their expertise, property, capital, efforts, skills and knowledge in an activity for the execution of a contract;
- 2.8 "**contract**" means the agreement that results from the acceptance of a bid by Transnet;
- 2.9 "**EME**" means any enterprise with an annual total revenue of R5 [five] million or less as per the

2007 version of the B-BBEE Codes of Good Practice and means any enterprise with an annual total revenue of R10 [ten] million or less as per the Revised Codes of Good Practice issued on 11 October 2013 in terms of Government Gazette No. 36928;

- 2.10 **"firm price"** means the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs and excise duty and any other duty, levy, or tax, which, in terms of the law or regulation, is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;
- 2.11 **"functionality"** means the measurement according to predetermined norms, as set out in the bid documents, of a service or commodity that is designed to be practical and useful, working or operating, taking into account, among other factors, the quality, reliability, viability and durability of a service and the technical capacity and ability of a bidder;
- 2.12 **"non-firm prices"** means all prices other than "firm" prices;
- 2.13 **"person"** includes reference to a juristic person;
- 2.14 **"QSE"** means any enterprise with an annual total revenue between R5 [five] million and R35 [thirty five] million as per the 2007 version of the B-BBEE Codes of Good Practice and means any enterprise with an annual total revenue of between R10 [ten] million and R50 [fifty] million as per the Revised Codes of Good Practice issued on 11 October 2013 in terms of Government Gazette No. 36928
- 2.15 **"rand value"** means the total estimated value of a contract in South African currency, calculated at the time of bid invitations, and includes all applicable taxes and excise duties;
- 2.16 **"subcontract"** means the primary contractor's assigning or leasing or making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract;
- 2.17 **"total revenue"** bears the same meaning assigned to this expression in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Empowerment Act and promulgated in the Government Gazette on 9 February 2007;
- 2.18 **"trust"** means the arrangement through which the property of one person is made over or bequeathed to a trustee to administer such property for the benefit of another person; and
- 2.19 **"trustee"** means any person, including the founder of a trust, to whom property is bequeathed in order for such property to be administered for the benefit of another person.

3. ADJUDICATION USING A POINT SYSTEM

- 3.1 The Bidder obtaining the highest number of total points for the evaluation criteria as enumerated in Section 2 of the RFP will be awarded the contract, unless objective criteria justifies the award to another bidder.
- 3.2 Preference points shall be calculated after prices have been brought to a comparative basis taking into account all factors of non-firm prices and all unconditional discounts.
- 3.3 Points scored will be rounded off to 2 [two] decimal places.
- 3.4 In the event of equal points scored, the Bid will be awarded to the Bidder scoring the highest

number of preference points for B-BBEE.

- 3.5 However, when functionality is part of the evaluation process and two or more Bids have scored equal points including equal preference points for B-BBEE, the successful Bid will be the one scoring the highest score for functionality.
- 3.6 Should two or more Bids be equal in all respect, the award shall be decided by the drawing of lots.

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4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTION

- 4.1 In terms of the Preferential Procurement Regulations, 2011, preference points shall 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 [Maximum 10]
1	10
2	9
3	8
4	5
5	4
6	3
7	2
8	1
Non-compliant contributor	0

- 4.2 Bidders who qualify as EMEs in terms of the 2007 version of the Codes of Good Practice must submit a certificate issued by an Accounting Officer as contemplated in the CCA or a Verification Agency accredited by SANAS or a Registered Auditor. Registered auditors do not need to meet the prerequisite for IRBA's approval for the purpose of conducting verification and issuing EME's with B-BBEE Status Level Certificates.
- 4.3 Bidders who qualify as EMEs in terms of the Revised Codes of Good Practice issued on 11 October 2013 in terms of Government Gazette No. 36928 are only required to obtain a sworn affidavit on an annual basis confirming that the entity has an Annual Total Revenue of R10 million or less and the entity's Level of Black ownership.
- 4.4 In terms of the 2007 version of the Codes of Good Practice, Bidders other than EMEs must submit their original and valid B-BBEE status level verification certificate or a certified copy thereof, substantiating their B-BBEE rating issued by a Registered Auditor approved by IRBA or a Verification Agency accredited by SANAS.
- 4.5 In terms of the Revised Codes of Good Practice issued on 11 October 2013 in terms of Government Gazette No. 36928, Bidders who qualify as QSEs are only required to obtain a sworn affidavit on an annual basis confirming that the entity has an Annual Total Revenue of R50 million or less and the entity's Level of Black ownership. Large enterprises must submit their original and valid B-BBEE status level verification certificate or a certified copy thereof, substantiating their B-BBEE rating issued by a Registered Auditor approved by IRBA or a Verification Agency accredited by SANAS.
- 4.6 A trust, consortium or joint venture will qualify for points for its B-BBEE status level as a legal entity, provided that the entity submits its B-BBEE status level certificate.
- 4.7 A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated entity, provided that the entity submits their consolidated B-BBEE scorecard as if they were a group structure and that such a consolidated B-BBEE scorecard is prepared for every separate bid.
- 4.8 Tertiary institutions and public entities will be required to submit their B-BBEE status level

certificates in terms of the specialised scorecard contained in the B-BBEE Codes of Good Practice.

- 4.9 A person will not be awarded points for B-BBEE status level if it is indicated in the Bid documents that such a Bidder intends subcontracting more than 25% [twenty-five per cent] of the value of the contract to any other enterprise that does not qualify for at least the same number of points that such a Bidder qualifies for, unless the intended subcontractor is an EME that has the capability and ability to execute the subcontract.
- 4.10 A person awarded a contract may not subcontract more than 25% [twenty-five per cent] of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is subcontracted to an EME that has the capability and ability to execute the subcontract.
- 4.11 Bidders are to note that in terms of paragraph 2.6 of Statement 000 of the Revised Codes of Good Practice issued on 11 October 2013 in terms of Government Gazette No. 36928, any representation made by an entity about its B-BBEE compliance must be supported by suitable evidence or documentation. As such, Transnet reserves the right to request such evidence or documentation from Bidders in order to verify any B-BBEE recognition claimed.

5. B-BBEE STATUS AND SUBCONTRACTING

- 5.1 **Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:**

B-BBEE Status Level of Contributor _____ = _____ [maximum of 10 points]

Note: Points claimed in respect of this paragraph 5.1 must be in accordance with the table reflected in paragraph 4.1 above and must be substantiated by means of a B-BBEE certificate issued by a Verification Agency accredited by SANAS or a Registered Auditor approved by IRBA or a sworn affidavit in the case of an EME or QSE.

- 5.2 **Subcontracting:**

Will any portion of the contract be subcontracted? YES/NO [delete which is not applicable]

If YES, indicate:

- (i) What percentage of the contract will be subcontracted?%
- (ii) The name of the subcontractor
- (iii) The B-BBEE status level of the subcontractor
- (iv) Is the subcontractor an EME? YES/NO

- 5.3 Declaration with regard to Company/Firm

- (i) Name of Company/Firm.....
- (ii) VAT registration number.....
- (iii) Company registration number.....
- (iv) Type of Company / Firm [TICK APPLICABLE BOX]

Partnership/Joint Venture/Consortium

One person business/sole propriety

Close Corporations

Company (Pty) Ltd

(v) Describe Principal Business Activities

.....
.....
.....

(vi) Company Classification [TICK APPLICABLE BOX]

Manufacturer

Supplier

Professional Service Provider

Other Service Providers, e.g Transporter, etc

(vii) Total number of years the company/firm has been in business.....

BID DECLARATION

I/we, the undersigned, who warrants that he/she is duly authorised to do so on behalf of the company/firm, certify that points claimed, based on the B-BBEE status level of contribution indicated in paragraph 4 above, qualifies the company/firm for the preference(s) shown and I / we acknowledge that:

- (i) The information furnished is true and correct.
- (ii) In the event of a contract being awarded as a result of points claimed as shown in paragraph 6 above, the contractor may be required to furnish documentary proof to the satisfaction of Transnet that the claims are correct.
- (iii) If the B-BBEE status level of contribution has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, Transnet may, in addition to any other remedy it may have:
 - (a) disqualify the person from the bidding process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) restrict the Bidder or contractor, its shareholders and directors, and/or associated entities, or only the shareholders and directors who acted in a fraudulent manner, from obtaining business from Transnet for a period not exceeding 10 years, after the *audi alteram partem* [hear the other side] rule has been applied; and/or
 - (e) forward the matter for criminal prosecution.

WITNESSES:

1.

2.

SIGNATURE OF BIDDER

DATE:.....

COMPANY NAME:

ADDRESS:.....

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TRANSNET
freight rail

A Division of Transnet SOC Limited


TECHNOLOGY MANAGEMENT

SPECIFICATION

3 PHASE STATIC UNINTERRUPTIBLE POWER SUPPLY 10 TO 125kVA

Author: Chief Engineering Technician
Rail Network

P Doorewaard




Approved: Senior Engineer
Technology Management

R.A. Langley



Authorised: Principal Engineer
Technology Management

J.G. Kannemeyer



Date: July 2013

Circulation Restricted To:

Transnet and Relevant Third Parties

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1.0 SCOPE

This specification describes a three phase continuous duty, on line double conversion solid state transistorised uninterruptible power system hereafter referred to as the UPS. The UPS shall operate with the existing electrical system to provide power conditioning, backup and distribution for critical electrical loads.

2.0 STANDARDS AND PUBLICATIONS

2.1 SOUTH AFRICAN NATIONAL STANDARDS

SABS 1474	Uninterruptible power systems
SABS EN 50091-1	Uninterruptible power systems. General safety requirements
SABS IEC 146 1-5	Semiconductor converters.
SANS 10142-1	Installation specification.

3.0 DEFINITIONS

For purpose of the specification the following definitions shall apply

3.1 Uninterruptable power supply (UPS)

The uninterruptable power supply shall denote all the complete power converter modules with associated controls, remote alarm panels, communication and batteries required by the design.

3.2 Rectifier

Shall denote that portion of the power converter module containing the equipment and controls to convert the incoming power to regulated DC power required by the inverter.

3.3 Battery charger

Shall denote that portion of the power converter module containing the equipment and controls to float charge the battery and in the event of a power failure to recharge the battery when the main power supply becomes available.

The battery charger shall allow an adjustable or pre-configured continuous battery charging rate calculated from 10% up to 67% of the nominal VA rating of the UPS. This is required to allow faster recharging of large battery banks where a longer standby time is a requirement

3.4 Inverter

Shall denote that portion of the power converter module, which converts the DC power to precisely regulated AC power required by the critical load.

3.3 Static Transfer Switch.

Is defined as a switch, which can perform an automatic transfer of the critical load from the UPS to the bypass circuit, or from the bypass circuit to the UPS.

3.4 Critical load bus.

Denotes the load as presented to the UPS by computers, controllers or other critical load and associated circuits.

3.5 Successful Transfer

Is defined as an automatic and uninterrupted transfer of the critical load from, or to the UPS without causing degradation of the critical bus voltage beyond the specified limits.

3.6 Maintenance bypass switching

Shall denote the capability of manually bypassing the total UPS and powering the critical load from the bypass source. The bypass switching shall not cause any interruption of the power to the critical load.

3.7 Online topology operation

Is defined as the isolation of critical loads from the irregularities of the mains supply, without interruption and supplied from the UPS.

3.8 UPS COLD START

The UPS shall start under normal conditions from the AC main supply. In case the AC main supply is not available the UPS shall be capable of starting from the batteries.

4.0 SERVICE CONDITIONS**4.1 ATMOSPHERIC CONDITIONS**

Altitude	:	0 to 1800m above sea level.
Ambient temperature	:	-5 to +40 °C Without derating UPS.
Relative humidity	:	As high as 90 percent.
Lightning Conditions	:	12 ground flashes per square kilometre per annum. [10/350us 5kA surge]

4.2 ELECTRICAL CONDITIONS

Input Voltage Range	:	400V AC, 3phase plus15%and minus 20%
Quality of supply	:	See Appendix B
Frequency	:	48 to 52 Hz

5.0 SYSTEM OPERATION DESCRIPTION

5.1 The UPS shall provide high quality AC power for electronic equipment loads and shall offer the following features: -

- Increased Power Quality.
- Improved Noise Rejection.
- Compatibility with all types of loads.
- Power blackout protection.
- Full battery care.

5.2 The UPS shall consist of the following main components:-

- Transformer, choke, impulse protection input stage.
- Controlled rectifier.
- Three phase inverter with filtering to produce a sine wave output.
- Static transfer switch and manual maintenance bypass switch.
- Matching battery cubicle (Optional).
- Microprocessor control and diagnostics.
- Double wound Inverter output isolation transformer for galvanic isolation.

5.3 The operation and control shall be provided through use of microprocessor logic. Indications, measurements and alarms, together with power indications and battery status shall be shown on a clearly illuminated display. Light emitting displays for battery status are also acceptable.

5.4 Normal mode

- 5.4.1 In the normal mode the critical load is continuously supplied by the UPS. The rectifier converts the AC source into DC power while the battery charger maintains the battery in a fully charged operational condition. The inverter converts the DC power into clean and related AC power, which is supplied to the critical load through a static switch.
- 5.4.2 In the event of a transfer to the reserve supply, the static switch shall monitor and ensure that the inverter tracks the reserve supply frequency to ensure synchronisation.
- 5.4.3 The synchronisation shall ensure that any automatic transfer to the reserve supply due to an overload or voltage deviation etc. is frequency synchronised and does not cause an interruption to the critical load.
- 5.4.4 The UPS shall be provided with a soft start ramp to reduce inrush current on switch on.

5.5 Overload.

In the event of an inverter overload, manual stop or failure, the static switch shall automatically transfer the critical load to the reserve supply without interruption. The transfer time when synchronised shall be not more than 500 microseconds. The transfer time without synchronisation shall be not more than 30 milliseconds.

5.6 Emergency conditions

If the AC main supply fails or reduces to a value outside the limits of the input voltage to the UPS, the critical load shall be supplied without any switching, by the inverter drawing its power from the battery supply. There shall be no interruption to the critical load upon failure, reduction or restoration of the AC main supply.

5.7 Recharge

When the AC main source is restored, the battery charger shall automatically restart and recharge the battery and shall cause no interruption to the critical load.

5.8 Maintenance bypass switch

The UPS shall be fitted with a manual service bypass switch with which the power section can be disconnected and bypassed for servicing purposes on the UPS. The bypass switch shall be overrated by a minimum of 10% of the rated UPS rating. The UPS shall have clear indication when in manual service bypass mode.

5.9 Operation without battery

If the battery is taken out of service for maintenance it shall be disconnected from the battery charger by means of a circuit breaker or fused isolator. The UPS shall continue to operate and meet the performance criteria specified except for the standby period. The UPS shall be capable of starting up without any battery connected.

5.10 Monitoring

The UPS shall have the capability to be monitored from a remote location. Even during a complete shutdown of the UPS the information relating to the operating parameters shall not be lost and stored for a minimum period of 6 months. RS 232 using D type connectors shall be employed but other communication such as RS 485 and Ethernet may also be used in addition to the RS 232.

5.11 Redundant functions

To ensure maximum reliability the key operating electrical parameters shall be controlled to ensure the safety of the load and the UPS batteries.

The parameters controlled on the load side for protection purposes shall be:

- Voltage Amplitude
- Frequency

The parameters controlled on the battery side shall be:

- Voltage Regulation
- AC current ripple
- AC Voltage ripple

6.0 **ELECTRONIC MODULES AND COMPONENTS**

All active electronic devices shall be of solid-state construction and shall not exceed the manufacturers recommended operating parameters for maximum reliability.

7.0 **NEUTRAL CONNECTION AND EARTHING**

The UPS output AC neutral, shall be isolated, except for RFI filters, from the UPS chassis.

8.0 **EMC AND SURGE PROTECTION**

- 8.2.1 Electromagnetic effects shall be minimised to ensure computer and other electronic systems shall not be affected by the UPS.
- 8.2.2 The UPS shall be fully protected against transients and surges.
- 8.2.3 The UPS shall meet the requirements SABS en 50091-1.

9.0 **BATTERY CHARGER**

- 9.1 The battery shall be protected by a fused isolator.
- 9.2 The battery charger shall be able to operate with the following types of batteries, dependant on system requirements.
- Sealed Lead Acid
 - Lead Acid (Tubular or Flat plate)
- The UPS shall manage the selection of the charging method.
- 9.3 The battery charger output voltage shall not deviate more than + 2,5% under the following conditions.
- No load to 100% load variation
 - Primary input voltage and frequency variations with the stated limits voltage $\pm 5\%$.
 - The steady state regulation shall not exceed 1% nor shall the voltage ripple exceed 2% peak to peak.
- 9.4 The maximum peak-to-peak ripple current to the battery shall not exceed 10% of the battery A/H rating when charging and 5% when in float charge. The peak-to-peak ripple voltage shall be less than 0.5% of the float voltage.
- 9.5 The UPS battery shall be sized by the client. The battery charger shall be rated to charge this battery as described in clause 3.3.

10.0 POWER FACTOR

The UPS shall have an input power factor of 0,85 or higher with nominal load, nominal input voltage and in the automatic float charge state.

11.0 OVER VOLTAGE PROTECTION

The rectifier and battery charger shall be automatically switched off if the DC voltage exceeds a maximum preset value.

12.0 PWM, IGBT INVERTER**12.1 Steady state output**

The inverter steady-state output voltage shall not deviate by more than 1% in a steady state condition for input voltage and load variation within the quoted limits.

12.2 Transient voltage recovery response

The output voltage shall return within $\pm 2\%$ of nominal voltage within 5 milliseconds after a load step of 100%.

12.3 Output frequency.

The inverter output frequency shall be controlled at $50\text{Hz} \pm 1\%$.

12.4 Total output voltage harmonic distortion. (Linear and non-linear loads)

The inverter shall provide harmonic filtering and neutralising to limit the total harmonic distortion on the voltage to less than 3% with a linear load. For a non-linear load with a crest factor (V_p/V_{rms}) of 3:1 the total harmonic distortion shall be limited to less than 5%.

12.5 Phase displacement

The phase angle displacements between the 3 phase voltages shall not be worse than:

- Balanced linear loads ± 1 degree from nominal 120 Degrees.
- Unbalanced linear loads ± 3 degrees from average phase voltage for 100% load unbalanced.

12.6 Output voltage symmetry

The inverter shall guarantee the symmetry of the output voltages at $\pm 2\%$ for balanced loads and $\pm 3\%$ for 100% unbalanced loads.

12.7 Neutral conductor dimensioning.

The sizing of the inverter neutral shall be minimum of 1,7 times that of the line cable in order to be able to cope with harmonics when driving linear loads.

12.8 Overload

The inverter shall be capable of supplying:

- Up to 60 seconds $1,25 \times I$ nominal
- Up to 30 seconds $1,50 \times I$ nominal

12.9 Inverter shut down

The inverter output shall be protected by electronic circuitry and fast acting fuses in the inverter circuit. If an internal failure occurs in the inverter, the electronic control shall instantaneously remove the critical load and transfer to the stand by reserve supply if the supply is within limits.

12.10 Output isolation transformer.

A dry type double wound isolation transformer shall be provided for the inverter AC output. The insulation shall be class H and the temperature limit of the insulation class shall not be exceeded when operated at full load within ambient temperature limits. The transformer shall be continuously rated and shall have the same or larger rating than the UPS. The transformer shall withstand a minimum test voltage of 2000V AC between windings, and windings to core without damage.

13.0 ELECTRONIC STATIC BYPASS SWITCH

- 13.1 The electronic static switch shall be rated for continuous duty operation and protected by either a suitably rated circuit breaker or high speed fuses.
- 13.2 The peak inverse voltage rating of the static bypass switch components shall be at least 3 times the peak value of the reserve supply voltage. (400 Volts, 3 phase, 50 Hz).
- 13.3 An uninterrupted transfer to bypass shall automatically take place under the following conditions:
- Output overload
 - DC voltage out of limits
 - Inverter failure
 - Equipment Over temperature
- 13.4 An uninterrupted transfer from bypass shall automatically take place whenever the inverter is capable of assuming the load.
- 13.5 The automatic transfer/retransfer under uninterrupted conditions shall be inhibited under the following conditions:
- UPS overload
 - Failure of the inverter static switch
 - Manual transfer to bypass via the maintenance switch.
- 13.6 No break transfers and retransfer shall be inhibited by the following:
- Voltage of inverter or reserve supply out of limits.
 - Frequency synchronisation out of limits.
- 13.7 The no break transfer time to bypass and visa versa shall be less than 500 microseconds when synchronised. The system shall be stable and operating normally before permitting of transfer of the load back to the inverter. The transfer time when out of synchronisation shall be 20 milliseconds to prevent damage to the load by phase reversal.
- 13.8 The static switch shall be rated to 10% higher than the KVA rating of the machine.
- 13.9 The switch shall have an overload capability of 150% continuous 1000% for 10 Milliseconds
- 14.0 MAINTENANCE BYPASS SWITCH**
- 14.1 If the UPS has to undergo maintenance or repairs it shall be provided with a maintenance bypass switch, which will enable no interruption in power to the critical load when switched to bypass.
- 14.2 Provisions for testing the UPS operation without affecting or disconnecting the critical load shall be provided.

15.0 CONTROL AND INDICATOR PANEL

- 15.1 A clearly laid out control and indicator panel shall be provided. The panel shall incorporate the necessary control instruments and indicators to allow for the monitoring of the system status and performance.
- 15.2 The UPS shall have a mimic panel with indication to indicate the condition of the sub assemblies, modules and supplies.
- The state of the mains supply.
 - The state of the UPS unit and battery, as well as the rectifier and charger.
 - The UPS load.
- 15.3 Warnings and alarms shall be enunciated by red for fault, orange for warning, and green for normal operation.

16.0 ALARMS AND CONTROLS

- 16.1 The UPS shall be equipped with a minimum of two 9-pin D-type RS232 connectors. The first connector shall be used to connect a computer in order to monitor settings. The second connector shall provide interfacing by means of potential free contacts between the UPS and remote control equipment.
- 16.2 The following signals should be monitored.
- Mains on/available/fail
 - Load on inverter.
 - Load on bypass
 - Battery low
 - Charger fail
 - Sync fail

17.0 INPUT HARMONIC MITIGATION (INDUSTRIAL APPLICATION)

The power equipment shall not be adversely affected by odd voltage harmonics between the 3rd and 13th harmonics of which can reach the amplitudes as shown in Appendix A.
The power equipment shall not be subject to degradation when exposed to the voltage dips with deviations of the magnitude of -50% on all phases.

18.0 MECHANICAL REQUIREMENTS.

- 18.1 The UPS shall be housed in a freestanding modular enclosure with removable panels and protection rating IP20 as standard. The enclosures shall be designed for industrial room applications in accordance with environmental requirements.
- 18.2 Redundant forced cooling shall be provided to ensure that all components are operated within specification with air entry in the base and exit at the top.
- 18.3 Cable entry shall be from the bottom or side of cabinet. Top cable entry shall be available as an option.
- 18.4 The UPS module shall require not more than 1 metre access space.

APPENDIX A: VOLTAGE WAVEFORM.

The total harmonic distortion (THD), which can be expected in most Railway applications. See paragraph 17

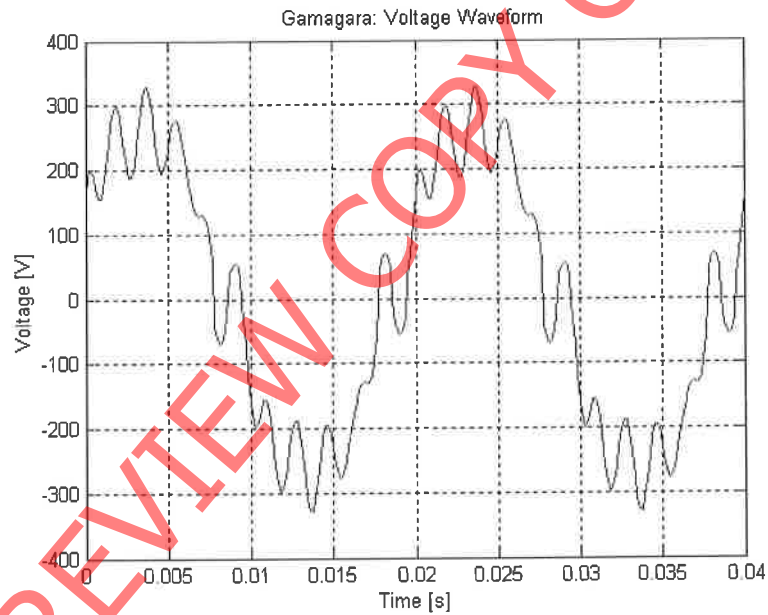


Fig 1: Voltage waveform

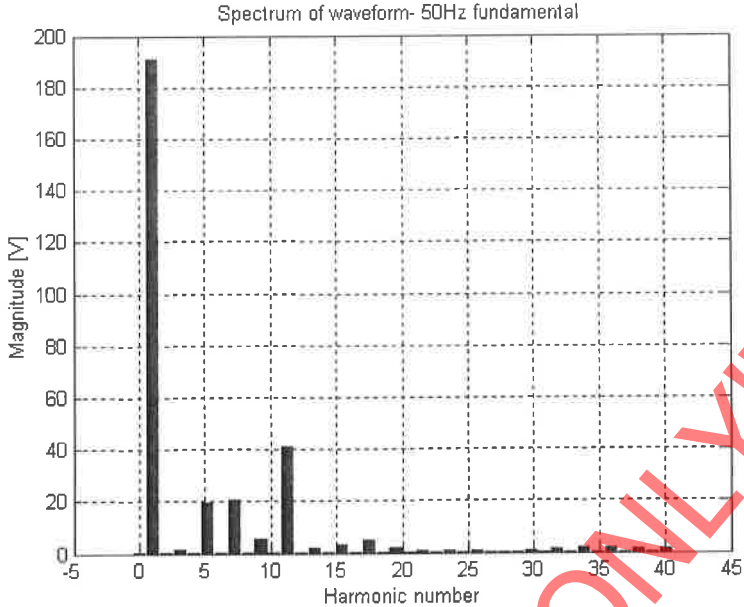


Fig 2: Frequency spectrum of Supply Voltage.

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TRANSNET
freight rail

A Division of Transnet SOC Limited

TECHNOLOGY MANAGEMENT

SPECIFICATION

POWER DISTRIBUTION CUBICLES FOR SIGNAL INSTALLATIONS

Author: Chief Engineering Technician
Infrastructure Technical P Doorewaard

Approved: Senior Engineer
Technology Management RA Langley

Authorised: Principal Engineer
Technology Management J Kannemeyer







Date: May 2013

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1. SCOPE

This document serves as a specification for Power Distribution Cubicles used in Signal installations to establish performance and test requirements and as basis for the procurement thereof.

2. APPLICABLE DOCUMENTS

2.1 Transnet Documents

2.1.1

2.1 SANS 1973-1	Low-voltage switchgear and control gear ASSEMBLIES Part 1: Type-tested ASSEMBLIES with stated deviations and a rated short-circuit withstand strength above 10kA
2.2 SANS 156	Moulded-case circuit breakers
2.3 SANS 10142-1	The wiring of premises Part 1: Low voltage installations
2.4 SANS 60439-1	Low voltage switchgear and control gear assemblies. Part 1: Type tested and partially type-tested assemblies
2.5 SANS 60947-1	Low voltage switchgear and control gear Part 1: General rules
2.6 SANS 60947-2	Low voltage switchgear and control gear Part 2: Circuit breakers
2.7 SANS 60947-3	Low voltage switchgear and control gear Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units
2.8 SANS 60947-4-1	Low voltage switchgear and control gear Part 4-1: Contactors and motor starters - electromechanical contactors and motor starters
2.9 SANS 60947-5-1	Low voltage switchgear and control gear Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices
2.10 SANS 60947-7-1	Low voltage switchgear and control gear Part 7-1: Ancillary equipment – Terminal blocks for copper conductors
2.11 SANS 60529	Degrees of protection provided by enclosures (IP Code)
2.12 SANS 1274	Coatings applied by the powder-coating process
2.13 IEC 60664-1	Insulation coordination for equipment within low voltage systems – Part 1: Principles, requirements and tests.
2.14 SANS 1195	Busbars
2.15 SANS 1574	Electric flexible cores, cords and cables with solid extruded dielectric insulation

3. REQUIREMENTS

3.1 Physical characteristics

- 3.1.1 The cubicle size shall be approved by Transnet Freight Rail.
- 3.1.2 The cubicle layout shall be approved by Transnet Freight Rail.
- 3.1.3 The enclosure shall be constructed of 2,0mm mild steel plate unless otherwise specified.
- 3.1.4 The cubicle shall be sufficiently strengthened to prevent deformation during transport, delivery and installation.
- 3.1.5 The layout of equipment inside the cubicle shall be of such a nature that it is easily accessible for fault finding and replacements.
- 3.1.6 All equipment shall be clearly labelled by means of durable markings to enable ease of identification.

3.2 Environmental conditions

- 3.2.1 Natural convection cooling is required.
- 3.2.2 The equipment must be capable of operation to specification under the following conditions:

Ambient temperatures between -5°C and + 50°C
Maximum relative humidity of 95% (non condensing);
Dusty and corrosive conditions;
Altitude from 0 – 1800m.

- 3.2.3 The protection degree shall be IP4X according to 2.11 – Protected against objects greater than 1mm.

3.3 Metal treatment

- 3.3.1 As per 2.12.

3.4 Final paint finish

- 3.4.1 As per 2.12. The final paint coat shall be applied to produce a uniform dry film thickness of not less than 90 microns.
- 3.4.2 The final paint coat shall be tested for uniform thickness.
- 3.4.3 The colour of the paint shall be structured "light grey" RAL 7032.

3.5 Plating specification

- 3.5.1 All sheet metal parts, which are identified for plating, shall be zinc-plated to a minimum thickness of 8 microns.
- 3.5.2 All copper bus bars, which are identified for plating shall be tin-plated to a minimum thickness of 8 microns.

3.6 Bus bars

- 3.6.1 All bus bars, where specified, shall be insulated by means of heat shrink or air shrink sleeves. Connection points shall not be sleeved.

3.7 Access to cubicle

- 3.7.1 The cubicle shall be fitted with hinged doors at the front. The rear shall be closed off by a "lift out" type panel with approved vent size at the top.
- 3.7.2 The doors shall be adjusted to ensure an even gap between doors and between doors and side frames.

3.8 Electrical

- 3.8.1 Power conductors shall be single flex type 600/1000 volts (par 2.15) and sized to rated load plus 20%.
- 3.8.2 Control wiring shall be panel flex type 300/500 volts (par 2.15) with a minimum cross section area of 1,5mm².
- 3.8.3 Control wires shall be numbered at both ends in accordance with the relevant wiring diagram.
- 3.8.4 Power conductors shall be numbered at both ends in accordance with the relevant wiring diagram.
- 3.8.5 Terminal blocks shall be of sufficient size to accommodate wiring and shall be DIN rail mounted.
- 3.8.6 Not more than one wire may be crimped or soldered into any one lug. A maximum of three wires may be connected to a bolt type terminal.
- 3.8.7 The wiring shall be neatly treed in a total access U channel with clip-on cover.
- 3.8.8 Terminal blocks shall be suitably numbered.

3.9 Ergonomics

- 3.9.1 Analogue meters shall be flush mounted on the front door for displaying voltage and current.
- 3.9.2 In case of three phase cubicles, switches for displaying voltage and current per phase shall be mounted on the front door.
- 3.9.3 The on/off main supply switch shall be mounted on the front door.
- 3.9.4 All circuit breakers and related switching equipment shall be mounted inside the cubicle.

4. **DOCUMENTATION**

- 4.1 Drawings shall show the following:
- Front view of cubicle with equipment mounted and numbered for reference purposes.
 - Equipment layout inside cubicle and numbered for reference purposes.
 - Detailed wiring diagram numbered for purpose of reference and fault finding.
 - Parts list referencing the quantity, description, rating and manufacturer part number.

5. **QUALITY ASSURANCE**

- 5.1 Manufacturers shall have a quality management program in place. (ISO standards)
- 5.2 A final test certificate shall be provided and signed off by the responsible person/s of each test as required below:
- Dimensional inspection
 - Identification inspection
 - Paint thickness inspection
 - Component inspection
 - Mechanical assembly inspection
 - Insulation tests
 - Electrical and functional test

END OF SPECIFICATION

10522082

BBG1027 Version 1



TRANSNET
freight rail

A Division of Transnet SOC Limited

TECHNOLOGY MANAGEMENT

SPECIFICATION

VALVE REGULATED LEAD ACID BATTERIES FOR USE IN SIGNAL INSTALLATIONS

Author: Chief Engineering Technician
Rail Network P Doorewaard

Approved: Senior Engineer
Technology Management RA Langley

Authorised: Principal Engineer
Technology Management J kannemeyer

Date: September 2013

Circulation Restricted To:

Transnet and Relevant Third Parties

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1. SCOPE

1.1 Identification.

12V Valve regulated lead acid (AGM) front terminal 10 year + design life batteries.

1.2 Item overview.

The valve regulated lead acid (VRLA) batteries are required to provide standby power to Signal relay rooms for a minimum of 10 hours. Size of battery shall be specified by Transnet Freight Rail.

1.3 Document overview.

The VRLA batteries within Transnet Freight Rail (Train Authorisation Systems) shall comply with the requirements as set out in this document. This document may therefore be used for item purchasing and approval.

2. REQUIREMENTS

The requirements as set out below must be complied with. It is required that a statement be issued stating compliance per clause as well as the actual guaranteed technical data of the equipment offered. Failure to submit a statement of compliance shall automatically disqualify the tenderer.

Offers which include deviations of a minor nature from the terms of this specification will be considered at the discretion of Transnet Freight Rail (Train Authorisation systems).

3. BATTERY FEATURES

3.1 The battery shall be of the Absorbent Glass Mat (AGM) type technology for efficient gas recombination and freedom from electrolyte maintenance or water adding.

3.2 The battery shall be of the front terminal type.

3.3 Minimum 10 year design life guaranteed under float conditions at a constant 25 deg. Celsius.

3.4 The battery must be suitable for long discharge periods, typically 10 hours and recharge of C/8.

3.5 Batteries shall have internationally recognised certification.

3.6 The battery shall have a UL 94 VO rated flame retardant casing.

3.7 The battery manufacturer shall be registered to ISO9001 and ISO14001.

3.8 The battery must be compliant with SANS 60896.

4. DOCUMENTATION

4.1 Complete documentation including detailed Material safety data sheet shall be submitted

4.2 Documents to record regular test measurements shall be provided.

5. PRE DELIVERY PREPARATION

5.1 Batteries shall undergo a refresher charge upon arrival at the premises of the distributor. Thereafter the batteries shall be discharged to 1.8vpc over a period of 2 - 3 hours to eliminate any potential bad battery. Regular voltage measurements per block shall be taken when discharging.

5.2 Batteries shall be recharged at 10% of AH rating at voltage 2.4vpc. The batteries shall be connected in parallel (Battery string of 32 blocks may be split into 2 x 16 blocks) to ensure proper equalisation.

5.3 Pallets shall be marked to ensure that battery strings as charged are not mixed.

5.4 Transnet Freight Rail reserves the right to witness the preparation process.

6. Warranty

6.1 Transnet Freight Rail requires a 3 year warranty period against faulty workmanship.

END OF SPECIFICATION



TRANSNET
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TECHNOLOGY MANAGEMENT

SPECIFICATION

3 PHASE STATIC UNINTERRUPTIBLE POWER SUPPLY 10 TO 125kVA

Author: Chief Engineering Technician
Rail Network P Doorewaard

Approved: Senior Engineer
Technology Management R.A. Langley

Authorised: Principal Engineer
Technology Management J.G. Kannemeyer

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SANS 10142-1	Installation specification.

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Shall denote the capability of manually bypassing the total UPS and powering the critical load from the bypass source. The bypass switching shall not cause any interruption of the power to the critical load.

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Altitude	:	0 to 1800m above sea level.
Ambient temperature	:	-5 to +40 °C Without derating UPS.
Relative humidity	:	As high as 90 percent.
Lightning Conditions	:	12 ground flashes per square kilometre per annum. [10/350us 5kA surge]

4.2 ELECTRICAL CONDITIONS

Input Voltage Range	:	400V AC, 3phase plus15%and minus 20%
Quality of supply	:	See Appendix B
Frequency	:	48 to 52 Hz

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5.1 The UPS shall provide high quality AC power for electronic equipment loads and shall offer the following features: -

- Increased Power Quality.
- Improved Noise Rejection.
- Compatibility with all types of loads.
- Power blackout protection.
- Full battery care.

5.2 The UPS shall consist of the following main components:-

- Transformer, choke, impulse protection input stage.
- Controlled rectifier.
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- Matching battery cubicle (Optional).
- Microprocessor control and diagnostics.
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5.4 Normal mode

5.4.1 In the normal mode the critical load is continuously supplied by the UPS. The rectifier converts the AC source into DC power while the battery charger maintains the battery in a fully charged operational condition. The inverter converts the DC power into clean and related AC power, which is supplied to the critical load through a static switch.

5.4.2 In the event of a transfer to the reserve supply, the static switch shall monitor and ensure that the inverter tracks the reserve supply frequency to ensure synchronisation.

5.4.3 The synchronisation shall ensure that any automatic transfer to the reserve supply due to an overload or voltage deviation etc. is frequency synchronised and does not cause an interruption to the critical load.

5.4.4 The UPS shall be provided with a soft start ramp to reduce inrush current on switch on.

5.5 Overload.

In the event of an inverter overload, manual stop or failure, the static switch shall automatically transfer the critical load to the reserve supply without interruption. The transfer time when synchronised shall be not more than 500 microseconds. The transfer time without synchronisation shall be not more than 30 milliseconds.

5.6 Emergency conditions

If the AC main supply fails or reduces to a value outside the limits of the input voltage to the UPS, the critical load shall be supplied without any switching, by the inverter drawing its power from the battery supply. There shall be no interruption to the critical load upon failure, reduction or restoration of the AC main supply.

5.7 Recharge

When the AC main source is restored, the battery charger shall automatically restart and recharge the battery and shall cause no interruption to the critical load.

5.8 Maintenance bypass switch

The UPS shall be fitted with a manual service bypass switch with which the power section can be disconnected and bypassed for servicing purposes on the UPS. The bypass switch shall be overrated by a minimum of 10% of the rated UPS rating. The UPS shall have clear indication when in manual service bypass mode.

5.9 Operation without battery

If the battery is taken out of service for maintenance it shall be disconnected from the battery charger by means of a circuit breaker or fused isolator. The UPS shall continue to operate and meet the performance criteria specified except for the standby period. The UPS shall be capable of starting up without any battery connected.

5.10 Monitoring

The UPS shall have the capability to be monitored from a remote location. Even during a complete shutdown of the UPS the information relating to the operating parameters shall not be lost and stored for a minimum period of 6 months. RS 232 using D type connectors shall be employed but other communication such as RS 485 and Ethernet may also be used in addition to the RS 232.

5.11 Redundant functions

To ensure maximum reliability the key operating electrical parameters shall be controlled to ensure the safety of the load and the UPS batteries.

The parameters controlled on the load side for protection purposes shall be:

- Voltage Amplitude
- Frequency

The parameters controlled on the battery side shall be:

- Voltage Regulation
- AC current ripple
- AC Voltage ripple

6.0 **ELECTRONIC MODULES AND COMPONENTS**

All active electronic devices shall be of solid-state construction and shall not exceed the manufacturers recommended operating parameters for maximum reliability.

7.0 **NEUTRAL CONNECTION AND EARTHING**

The UPS output AC neutral, shall be isolated, except for RFI filters, from the UPS chassis.

8.0 **EMC AND SURGE PROTECTION**

8.2.1 Electromagnetic effects shall be minimised to ensure computer and other electronic systems shall not be affected by the UPS.

8.2.2 The UPS shall be fully protected against transients and surges.

8.2.3 The UPS shall meet the requirements SABS en 50091-1.

9.0 **BATTERY CHARGER**

9.1 The battery shall be protected by a fused isolator.

9.2 The battery charger shall be able to operate with the following types of batteries, dependant on system requirements.

- Sealed Lead Acid
- Lead Acid (Tubular or Flat plate)

The UPS shall manage the selection of the charging method.

9.3 The battery charger output voltage shall not deviate more than + 2,5% under the following conditions.

- No load to 100% load variation
- Primary input voltage and frequency variations with the stated limits voltage $\pm 5\%$.
- The steady state regulation shall not exceed 1% nor shall the voltage ripple exceed 2% peak to peak.

9.4 The maximum peak-to-peak ripple current to the battery shall not exceed 10% of the battery A/H rating when charging and 5% when in float charge. The peak-to-peak ripple voltage shall be less than 0.5% of the float voltage.

9.5 The UPS battery shall be sized by the client. The battery charger shall be rated to charge this battery as described in clause 3.3.

10.0 POWER FACTOR

The UPS shall have an input power factor of 0,85 or higher with nominal load, nominal input voltage and in the automatic float charge state.

11.0 OVER VOLTAGE PROTECTION

The rectifier and battery charger shall be automatically switched off if the DC voltage exceeds a maximum preset value.

12.0 PWM, IGBT INVERTER**12.1 Steady state output**

The inverter steady-state output voltage shall not deviate by more than 1% in a steady state condition for input voltage and load variation within the quoted limits.

12.2 Transient voltage recovery response

The output voltage shall return within $\pm 2\%$ of nominal voltage within 5 milliseconds after a load step of 100%.

12.3 Output frequency.

The inverter output frequency shall be controlled at $50\text{Hz} \pm 1\%$.

12.4 Total output voltage harmonic distortion. (Linear and non-linear loads)

The inverter shall provide harmonic filtering and neutralising to limit the total harmonic distortion on the voltage to less than 3% with a linear load. For a non-linear load with a crest factor (V_p/V_{rms}) of 3:1 the total harmonic distortion shall be limited to less than 5%.

12.5 Phase displacement

The phase angle displacements between the 3 phase voltages shall not be worse than:

- Balanced linear loads ± 1 degree from nominal 120 Degrees.
- Unbalanced linear loads ± 3 degrees from average phase voltage for 100% load unbalanced.

12.6 Output voltage symmetry

The inverter shall guarantee the symmetry of the output voltages at $\pm 2\%$ for balanced loads and $\pm 3\%$ for 100% unbalanced loads.

12.7 Neutral conductor dimensioning.

The sizing of the inverter neutral shall be minimum of 1,7 times that of the line cable in order to be able to cope with harmonics when driving linear loads.

12.8 Overload

The inverter shall be capable of supplying:

- Up to 60 seconds $1,25 \times I$ nominal
- Up to 30 seconds $1,50 \times I$ nominal

12.9 Inverter shut down

The inverter output shall be protected by electronic circuitry and fast acting fuses in the inverter circuit. If an internal failure occurs in the inverter, the electronic control shall instantaneously remove the critical load and transfer to the stand by reserve supply if the supply is within limits.

12.10 Output isolation transformer.

A dry type double wound isolation transformer shall be provided for the inverter AC output. The insulation shall be class H and the temperature limit of the insulation class shall not be exceeded when operated at full load within ambient temperature limits. The transformer shall be continuously rated and shall have the same or larger rating than the UPS. The transformer shall withstand a minimum test voltage of 2000V AC between windings, and windings to core without damage.

13.0 ELECTRONIC STATIC BYPASS SWITCH

- 13.1 The electronic static switch shall be rated for continuous duty operation and protected by either a suitably rated circuit breaker or high speed fuses.
- 13.2 The peak inverse voltage rating of the static bypass switch components shall be at least 3 times the peak value of the reserve supply voltage. (400 Volts, 3 phase, 50 Hz).
- 13.3 An uninterrupted transfer to bypass shall automatically take place under the following conditions:
- Output overload
 - DC voltage out of limits
 - Inverter failure
 - Equipment Over temperature
- 13.4 An uninterrupted transfer from bypass shall automatically take place whenever the inverter is capable of assuming the load.
- 13.5 The automatic transfer/retransfer under uninterrupted conditions shall be inhibited under the following conditions:
- UPS overload
 - Failure of the inverter static switch
 - Manual transfer to bypass via the maintenance switch.
- 13.6 No break transfers and retransfer shall be inhibited by the following:
- Voltage of inverter or reserve supply out of limits.
 - Frequency synchronisation out of limits.
- 13.7 The no break transfer time to bypass and visa versa shall be less than 500 microseconds when synchronised. The system shall be stable and operating normally before permitting of transfer of the load back to the inverter. The transfer time when out of synchronisation shall be 20 milliseconds to prevent damage to the load by phase reversal.
- 13.8 The static switch shall be rated to 10% higher than the KVA rating of the machine.
- 13.9 The switch shall have an overload capability of 150% continuous 1000% for 10 Milliseconds
- 14.0 MAINTENANCE BYPASS SWITCH**
- 14.1 If the UPS has to undergo maintenance or repairs it shall be provided with a maintenance bypass switch, which will enable no interruption in power to the critical load when switched to bypass.
- 14.2 Provisions for testing the UPS operation without affecting or disconnecting the critical load shall be provided.

15.0 CONTROL AND INDICATOR PANEL

- 15.1 A clearly laid out control and indicator panel shall be provided. The panel shall incorporate the necessary control instruments and indicators to allow for the monitoring of the system status and performance.
- 15.2 The UPS shall have a mimic panel with indication to indicate the condition of the sub assemblies, modules and supplies.
- The state of the mains supply.
 - The state of the UPS unit and battery, as well as the rectifier and charger.
 - The UPS load.
- 15.3 Warnings and alarms shall be enunciated by red for fault, orange for warning, and green for normal operation.

16.0 ALARMS AND CONTROLS

- 16.1 The UPS shall be equipped with a minimum of two 9-pin D-type RS232 connectors. The first connector shall be used to connect a computer in order to monitor settings. The second connector shall provide interfacing by means of potential free contacts between the UPS and remote control equipment.
- 16.2 The following signals should be monitored.
- Mains on/available/fail
 - Load on inverter.
 - Load on bypass
 - Battery low
 - Charger fail
 - Sync fail

17.0 INPUT HARMONIC MITIGATION (INDUSTRIAL APPLICATION)

The power equipment shall not be adversely affected by odd voltage harmonics between the 3rd and 13th harmonics of which can reach the amplitudes as shown in Appendix A. The power equipment shall not be subject to degradation when exposed to the voltage dips with deviations of the magnitude of -50% on all phases.

18.0 MECHANICAL REQUIREMENTS.

- 18.1 The UPS shall be housed in a freestanding modular enclosure with removable panels and protection rating IP20 as standard. The enclosures shall be designed for industrial room applications in accordance with environmental requirements.
- 18.2 Redundant forced cooling shall be provided to ensure that all components are operated within specification with air entry in the base and exit at the top.
- 18.3 Cable entry shall be from the bottom or side of cabinet. Top cable entry shall be available as an option.
- 18.4 The UPS module shall require not more than 1 metre access space.

APPENDIX A: VOLTAGE WAVEFORM.

The total harmonic distortion (THD), which can be expected in most Railway applications. See paragraph 17

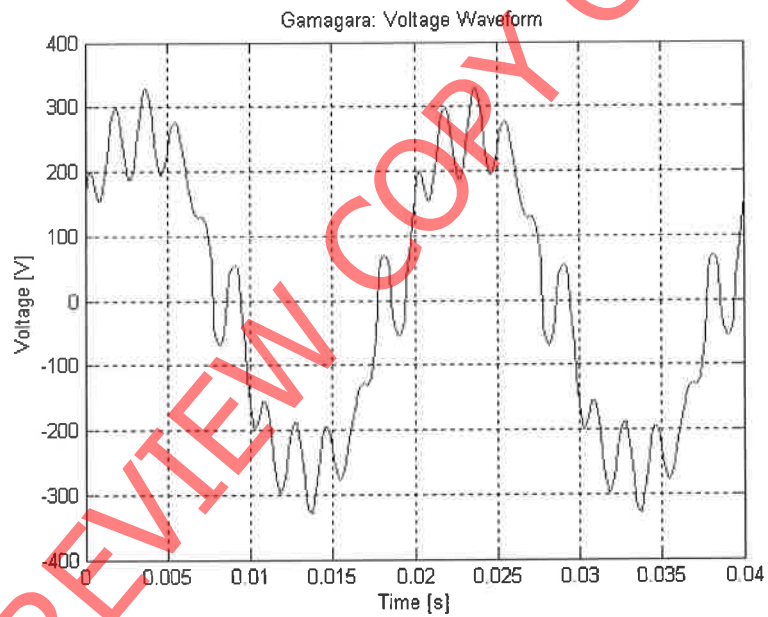


Fig 1: Voltage waveform

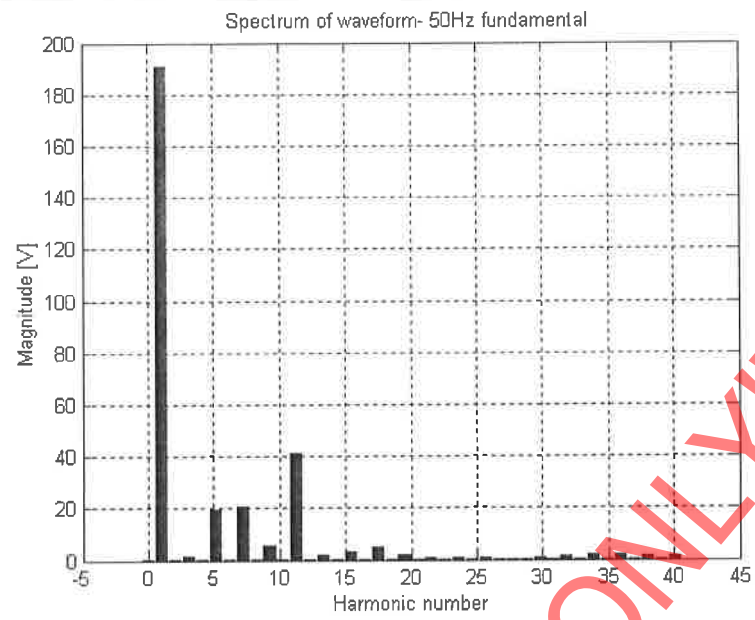


Fig 2: Frequency spectrum of Supply Voltage.

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Appendix (III)

NON DISCLOSURE AGREEMENT - SERVICES

[January 2014]

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THIS AGREEMENT is made between

Transnet SOC Ltd [Transnet] [Registration No. 1990/000900/30]

whose registered office is at 49th Floor, Carlton Centre, 150 Commissioner Street, Johannesburg 2001,

and

the Company as indicated in the RFP bid response hereto

WHEREAS

Transnet and the Company wish to exchange Information [as defined below] and it is envisaged that each party may from time to time receive Information relating to the other in respect thereof. In consideration of each party making available to the other such Information, the parties jointly agree that any dealings between them shall be subject to the terms and conditions of this Agreement which themselves will be subject to the parameters of the Bid Document.

IT IS HEREBY AGREED

1. INTERPRETATION

In this Agreement:

- 1.1 **Agents** mean directors, officers, employees, agents, professional advisers, contractors or sub-contractors, or any Group member;
- 1.2 **Bid or Bid Document** means Transnet's Request for Information [RFI] Request for Proposal [RFP] or Request for Quotation [RFQ], as the case may be;
- 1.3 **Confidential Information** means any information or other data relating to one party [the Disclosing Party] and/or the business carried on or proposed or intended to be carried on by that party and which is made available for the purposes of the Bid to the other party [the Receiving Party] or its Agents by the Disclosing Party or its Agents or recorded in agreed minutes following oral disclosure and any other information otherwise made available by the Disclosing Party or its Agents to the Receiving Party or its Agents, whether before, on or after the date of this Agreement, and whether in writing or otherwise, including any information, analysis or specifications derived from, containing or reflecting such information but excluding information which:
 - a) is publicly available at the time of its disclosure or becomes publicly available [other than as a result of disclosure by the Receiving Party or any of its Agents contrary to the terms of this Agreement]; or
 - b) was lawfully in the possession of the Receiving Party or its Agents [as can be demonstrated by its written records or other reasonable evidence] free of any restriction as to its use or disclosure prior to its being so disclosed; or

- c) following such disclosure, becomes available to the Receiving Party or its Agents [as can be demonstrated by its written records or other reasonable evidence] from a source other than the Disclosing Party or its Agents, which source is not bound by any duty of confidentiality owed, directly or indirectly, to the Disclosing Party in relation to such information;

1.4 **Group** means any subsidiary, any holding company and any subsidiary of any holding company of either party; and

1.5 **Information** means all information in whatever form including, without limitation, any information relating to systems, operations, plans, intentions, market opportunities, know-how, trade secrets and business affairs whether in writing, conveyed orally or by machine-readable medium.

2. CONFIDENTIAL INFORMATION

2.1 All Confidential Information given by one party to this Agreement [the Disclosing Party] to the other party [the Receiving Party] will be treated by the Receiving Party as secret and confidential and will not, without the Disclosing Party's written consent, directly or indirectly communicate or disclose [whether in writing or orally or in any other manner] Confidential Information to any other person other than in accordance with the terms of this Agreement.

2.2 The Receiving Party will only use the Confidential Information for the sole purpose of technical and commercial discussions between the parties in relation to the Bid or for the subsequent performance of any contract between the parties in relation to the Bid.

2.3 Notwithstanding clause 2.1 above, the Receiving Party may disclose Confidential Information:

- a) to those of its Agents who strictly need to know the Confidential Information for the sole purpose set out in clause 2.2 above, provided that the Receiving Party shall ensure that such Agents are made aware prior to the disclosure of any part of the Confidential Information that the same is confidential and that they owe a duty of confidence to the Disclosing Party. The Receiving Party shall at all times remain liable for any actions of such Agents that would constitute a breach of this Agreement; or
- b) to the extent required by law or the rules of any applicable regulatory authority, subject to clause 2.4 below.

2.4 In the event that the Receiving Party is required to disclose any Confidential Information in accordance with clause 2.3 b) above, it shall promptly notify the Disclosing Party and cooperate with the Disclosing Party regarding the form, nature, content and purpose of such disclosure or any action which the Disclosing Party may reasonably take to challenge the validity of such requirement.

2.5 In the event that any Confidential Information shall be copied, disclosed or used otherwise than as permitted under this Agreement then, upon becoming aware of the same, without prejudice to any rights or remedies of the Disclosing Party, the Receiving Party shall as soon as practicable notify the Disclosing Party of such event and if requested take such steps [including the institution of legal proceedings] as shall be necessary to remedy [if capable of remedy] the default and/or to prevent further unauthorised copying, disclosure or use.

2.6 All Confidential Information shall remain the property of the Disclosing Party and its disclosure shall not confer on the Receiving Party any rights, including intellectual property rights over the Confidential Information whatsoever, beyond those contained in this Agreement.

3. RECORDS AND RETURN OF INFORMATION

- 3.1 The Receiving Party agrees to ensure proper and secure storage of all Information and any copies thereof.
- 3.2 The Receiving Party shall keep a written record, to be supplied to the Disclosing Party upon request, of the Confidential Information provided and any copies made thereof and, so far as is reasonably practicable, of the location of such Confidential Information and any copies thereof.
- 3.3 The Company shall, within 7 [seven] days of receipt of a written demand from Transnet:
- a) return all written Confidential Information [including all copies]; and
 - b) expunge or destroy any Confidential Information from any computer, word processor or other device whatsoever into which it was copied, read or programmed by the Company or on its behalf.
- 3.4 The Company shall on request supply a certificate signed by a director as to its full compliance with the requirements of clause 3.3 b) above.

4. ANNOUNCEMENTS

- 4.1 Neither party will make or permit to be made any announcement or disclosure of its prospective interest in the Bid without the prior written consent of the other party.
- 4.2 Neither party shall make use of the other party's name or any information acquired through its dealings with the other party for publicity or marketing purposes without the prior written consent of the other party.

5. DURATION

The obligations of each party and its Agents under this Agreement shall survive the termination of any discussions or negotiations between the parties regarding the Bid and continue thereafter for a period of 5 [five] years.

6. PRINCIPAL

Each party confirms that it is acting as principal and not as nominee, agent or broker for any other person and that it will be responsible for any costs incurred by it or its advisers in considering or pursuing the Bid and in complying with the terms of this Agreement.

7. ADEQUACY OF DAMAGES

Nothing contained in this Agreement shall be construed as prohibiting the Disclosing Party from pursuing any other remedies available to it, either at law or in equity, for any such threatened or actual breach of this Agreement, including specific performance, recovery of damages or otherwise.

8. PRIVACY AND DATA PROTECTION

- 8.1 The Receiving Party undertakes to comply with South Africa's general privacy protection in terms Section 14 of the Bill of Rights in connection with this Bid and shall procure that its personnel shall observe the provisions of such Act [as applicable] or any amendments and re-enactments thereof and any regulations made pursuant thereto.
- 8.2 The Receiving Party warrants that it and its Agents have the appropriate technical and organisational measures in place against unauthorised or unlawful processing of data relating to the Bid and against accidental loss or destruction of, or damage to such data held or processed by them.

9. GENERAL

- 9.1 Neither party may assign the benefit of this Agreement, or any interest hereunder, except with the prior written consent of the other, save that Transnet may assign this Agreement at any time to any member of the Transnet Group.
- 9.2 No failure or delay in exercising any right, power or privilege under this Agreement will operate as a waiver of it, nor will any single or partial exercise of it preclude any further exercise or the exercise of any right, power or privilege under this Agreement or otherwise.
- 9.3 The provisions of this Agreement shall be severable in the event that any of its provisions are held by a court of competent jurisdiction or other applicable authority to be invalid, void or otherwise unenforceable, and the remaining provisions shall remain enforceable to the fullest extent permitted by law.
- 9.4 This Agreement may only be modified by a written agreement duly signed by persons authorised on behalf of each party.
- 9.5 Nothing in this Agreement shall constitute the creation of a partnership, joint venture or agency between the parties.
- 9.6 This Agreement will be governed by and construed in accordance with South African law and the parties irrevocably submit to the exclusive jurisdiction of the South African courts.

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GENERAL BID CONDITIONS - GOODS

[February 2015]

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1 DEFINITIONS

Where the following words or phrases are used in this Agreement, such words or phrases shall have the meaning assigned thereto in this clause, except where the context clearly requires otherwise:

- 1.1 **Bid** shall mean a Respondent's tendered response / proposal to a Transnet RFP or RFQ;
- 1.2 **Bid Document(s)** shall mean a reference to a Request for Proposal or Request for Quotation;
- 1.3 **Business Day** shall mean any day other than a Saturday, Sunday or public holiday;
- 1.4 **Goods** shall mean the goods required by Transnet as specified in its Bid Document;
- 1.5 **Respondent(s)** shall mean a respondent/bidder to a Bid Document;
- 1.6 **RFP** shall mean Request for Proposal;
- 1.7 **RFQ** shall mean Request for Quotation;
- 1.8 **RFX** shall mean RFP or RFQ, as the case may be;
- 1.9 **Supplier** shall mean the successful Respondent;
- 1.10 **Tax Invoice** shall mean the document as required by Section 20 of the Value-Added Tax Act, 89 of 1991, as may be amended from time to time;
- 1.11 **Transnet** shall mean Transnet SOC Ltd, a State Owned Company; and
- 1.12 **VAT** shall mean Value-Added Tax in terms of the Value-Added Tax Act, 89 of 1991, as may be amended from time to time.

2 GENERAL

All Bid Documents and subsequent contracts and orders shall be subject to the following general conditions as laid down by Transnet and are to be strictly adhered to by any Respondent to this RFX.

3 SUBMITTING OF BID DOCUMENTS

- 3.1 A Bid, which shall hereinafter include reference to an RFP or RFQ, shall be submitted to Transnet no later than the closing date and time specified in accordance with the directions issued in the Bid Documents. Late Bids will not be considered.
- 3.2 Bids shall be delivered in a sealed envelope in accordance with the instructions indicated in the Bid Documents with the Bid number and subject marked on the front of the envelope.
- 3.3 The Respondent's return address must be stated on the reverse side of the sealed envelope.

4 USE OF BID FORMS

- 4.1 Where special forms and/or formats are issued by Transnet for the submission of Bids, Respondents are required to submit their Bids by completion of the appropriate sections on such official forms and/or formats and not in other forms and/or formats or documents bearing their own terms and conditions of contract. Non-compliance with this condition may result in the rejection of a Bid.
- 4.2 Respondents must note that the original Bid forms and/or formats must be completed for submission and not a reprocessed copy or other format thereof.
- 4.3 Only if insufficient space has been allocated to a particular response may a Respondent submit additional information under separate cover using the Company's letterhead. This must be duly cross-referenced in the RFX.

5 BID FEES

- 5.1 A non-refundable fee may be charged for Bid Documents, depending on the administrative cost of preparing and issuing the Bid Document.
- 5.2 Where necessary, only Respondents that have paid the Bid fee and provided proof of payment when submitting their proposal will be considered.

6 VALIDITY PERIOD

- 6.1 The Respondents must hold their Bid valid for acceptance by Transnet at any time within the requested validity period after the closing date of the bid.
- 6.2 Respondents may be requested to extend their validity period for a specified additional period. In such instances, Respondents will not be allowed to change any aspect of their Bid, unless they are able to demonstrate that the proposed change/s is as a direct and unavoidable consequence of Transnet's extension of the validity period.

7 SITE VISITS / BRIEFING SESSIONS

Respondents may be requested to attend a site visit or briefing session where it is necessary to view the site in order to prepare their Bids, or where Transnet deems it necessary to provide Respondents with further information to allow them to complete their Bids properly. Where such visits or sessions are indicated as compulsory in the RFX Document, Respondents are obliged to attend these meetings as failure to do so will result in their disqualification.

8 CLARIFICATION BEFORE THE CLOSING DATE

Should clarification be required on any aspect of the Bid before the closing date, the Respondent must direct such queries to the contact person listed in the RFX Document in the stipulated manner.

9 COMMUNICATION AFTER THE CLOSING DATE

After the closing date of a Bid (i.e. during the evaluation period) the Respondent may only communicate with the Chairperson or the Secretary of the relevant Acquisition Council.

10 UNAUTHORISED COMMUNICATION ABOUT BIDS

Where Bids are submitted to the Secretary of an Acquisition Council, Respondents may at any time communicate with the Secretary on any matter relating to its Bid but, in the absence of written authority from the Secretary, no communication on a question affecting the subject of a Bid shall take place between Respondents or other potential service providers or any member of the Acquisition Council or official of Transnet during the period between the closing date for the receipt of the Bid and the date of the notification of the successful Respondent(s). A Bid, in respect of which any such unauthorised communication has occurred, may be disqualified.

11 POST TENDER NEGOTIATIONS

Transnet reserves the right to conduct post tender negotiations with the preferred bidder or a shortlist of preferred bidders. Should Transnet decide to conduct post tender negotiations, bidders will be requested to provide their best and final offers to Transnet based on such negotiations. A final evaluation will be conducted in terms of 80/20 or 90/10 (whichever is applicable) and the contract will be negotiated and awarded to the successful bidder(s).

12 RETURNABLE DOCUMENTS

All returnable documents listed in the RFX Documents must be submitted with Respondent's Bid. Failure to submit mandatory returnable schedules / documents will result in disqualification. Failure to submit other schedules / documents may result in disqualification.

13 DEFAULTS BY RESPONDENTS

If the Respondent, after it has been notified of the acceptance of its Bid fails to:

- 13.1 enter into a formal contract when called upon to do so within such period as Transnet may specify; or
- 13.2 accept an order in terms of the Bid;
- 13.3 furnish satisfactory security when called upon to do so for the fulfilment of the contract; or
- 13.4 comply with any condition imposed by Transnet,

Transnet may, in any such case, without prejudice to any other legal remedy which it may have, proceed to accept any other Bid or, if it is necessary to do so, call for Bids afresh, and may recover from the defaulting Respondent any additional expense incurred by Transnet in calling for new offers or in accepting a less favourable offer.

14 CURRENCY

All monetary amounts referred to in a Bid response must be in Rand, the currency of the Republic of South Africa [ZAR], save to the extent specifically permitted in the RFP.

15 PRICES SUBJECT TO CONFIRMATION

- 15.1 Prices which are quoted subject to confirmation will not be considered.
- 15.2 Firm prices quoted for the duration of any resulting order and/or contract will receive precedence over prices which are subject to fluctuation if this is in Transnet's best interests.

16 ALTERATIONS MADE BY THE RESPONDENT TO BID PRICES

All alterations made by the Respondent to its Bid price(s) prior to the submission of its Bid Documents must be done by deleting the incorrect figures and words where required and by inserting the correct figures and words against the items concerned. All such alterations must be initialled by the person who signs the Bid Documents. Failure to observe this requirement may result in the particular item(s) concerned being excluded in the matter of the award of the business.

17 EXCHANGE AND REMITTANCE

- 17.1 The Respondent should note that where the whole or a portion of the contract or order value is to be remitted overseas, Transnet shall, if requested to do so by the Supplier, effect payment overseas directly to the foreign principal or manufacturer of such percentage of the contract or order value as may be stipulated by the Respondent in its Bid Documents.
- 17.2 It is Transnet's preference to enter into Rand-based agreements. Transnet would request, therefore, that the Respondent give favourable consideration to obtaining forward exchange cover on the foreign currency portion of the Agreement at a cost that is acceptable to Transnet to protect itself against any currency rate fluctuation risks for the duration of any resulting contract or order.

- 17.3 The Respondent who desires to avail itself of the aforementioned facility must at the time of bidding furnish the information called for in the Exchange and Remittance section of the Bid Documents and also furnish full details of the principals or manufacturer to whom payment is to be made.
- 17.4 The South African Reserve Bank's approval is required before any foreign currency payments can be made to or on behalf of Respondents.
- 17.5 Transnet will not recognise any claim for adjustment of the order and/or contract price if the increase in price arises after the date on which the Goods were to be delivered, as set out in the order and/or contract, or any subsequent agreement between the parties.
- 17.6 Transnet reserves the right to request a pro-forma invoice/tax invoice in order to ensure compliance with the contract and Value-Added Tax Act no. 89 of 1991 [VAT Act].

18 ACCEPTANCE OF BID

- 18.1 Transnet does not bind itself to accept the lowest priced or any Bid.
- 18.2 Transnet reserves the right to accept any Bid in whole or in part.
- 18.3 Upon the acceptance of a Bid by Transnet, the parties shall be bound by these General Bid Conditions and any contractual terms and/or any schedule of "Special Conditions" or otherwise which form part of the Bid Documents.
- 18.4 Where the Respondent has been informed by Transnet of the acceptance of its Bid, the acknowledgement of receipt transmitted shall be regarded as proof of delivery to the Respondent.

19 NOTICE TO UNSUCCESSFUL RESPONDENTS

- 19.1 Unsuccessful Respondents shall be advised in writing that their Bids have not been accepted as soon as possible after the closing date of the Bid. On award of business to the successful Respondent all unsuccessful Respondents must be informed of the name of the successful Respondent and of the reason as to why their Bids had been unsuccessful.

20 TERMS AND CONDITIONS OF CONTRACT

- 20.1 The Supplier shall adhere to the Terms and Conditions of Contract issued with the Bid Documents, together with any schedule of "Special Conditions" or otherwise which form part of the Bid Documents.
- 20.2 Should the Respondent find any conditions unacceptable, it should indicate which conditions are unacceptable and offer amendments/ alternatives by written submission on a company letterhead. Any such submission shall be subject to review by Transnet's Legal Counsel who shall determine whether the proposed amendments /alternative(s) are acceptable or otherwise, as the case may be.

21 CONTRACT DOCUMENTS

- 21.1 The contract documents will comprise these General Bid Conditions, the Terms and Conditions of Contract and any schedule of "Special Conditions" which form part of the Bid Documents.
- 21.2 The abovementioned documents together with the Respondent's Bid response will constitute the contract between the parties upon receipt by the Respondent of Transnet's letter of acceptance / intent, subject to all additional amendments and/or special conditions thereto as agreed to by the parties.

21.3 Should Transnet inform the Respondent that a formal contract will be signed, the abovementioned documents together with the Respondent's Bid response [and, if any, its covering letter and any subsequent exchange of correspondence] as well as Transnet's Letter of Acceptance/Intent, shall constitute a binding contract until the final contract is signed.

22 LAW GOVERNING CONTRACT

The law of the Republic of South Africa shall govern the contract created by the acceptance of a Bid. The *domicilium citandi et executandi* shall be a place in the Republic of South Africa to be specified by the Respondent in its Bid at which all legal documents may be served on the Respondent who shall agree to submit to the jurisdiction of the courts of the Republic of South Africa. A foreign Respondent shall, therefore, state in its Bid the name of its authorised representative in the Republic of South Africa who is empowered to sign any contract which may be entered into in the event of its Bid being accepted and to act on its behalf in all matters relating to the contract.

23 IDENTIFICATION

If the Respondent is a company, the full names of the directors shall be stated in the Bid. If the Respondent is a close corporation, the full names of the members shall be stated in the Bid. If the Respondent is a partnership or an individual trading under a trade name, the full names of the partners or of such individual, as the case may be, shall be furnished.

24 RESPONDENT'S SAMPLES

- 24.1 If samples are required from Respondents, such samples shall be suitably marked with the Respondent's name and address, the Bid number and the Bid item number and must be despatched in time to reach the addressee as stipulated in the Bid Documents on or before the closing date of the Bid. Failure to submit samples by the due date may result in the rejection of a Bid.
- 24.2 Transnet reserves the right to retain samples furnished by Respondents in compliance with Bid conditions.
- 24.3 Payment will not be made for a successful Respondent's samples that may be retained by Transnet for the purpose of checking the quality and workmanship of Goods delivered in execution of a contract.
- 24.4 If Transnet does not wish to retain unsuccessful Respondents' samples and the Respondents require their return, such samples may be collected by the Respondents at their own risk and cost.

25 SECURITIES

- 25.1 The successful Respondent, when called upon to do so, shall provide security to the satisfaction of Transnet for the due fulfilment of a contract or order. Such security shall be in the form of a Deed of Suretyship [Deed of Suretyship] furnished by an approved bank, building society, insurance or guarantee corporation carrying on business in South Africa.
- 25.2 The security may be applied in whole or part at the discretion of Transnet to make good any loss or damage which Transnet may incur in consequence of a breach of the contract or any part thereof.
- 25.3 Such security, if required, shall be an amount which will be stipulated in the Bid Documents.
- 25.4 For the purpose of clause 25.125.1 above, Transnet will supply a Deed of Suretyship form to the successful Respondent for completion and no guarantee in any other form will be accepted. A copy

of such form will be supplied to Respondents on request. For this purpose a Deed of Suretyship form will be provided which shall be completed and returned to Transnet or a designated official by the successful Respondent within 30 [thirty] calendar days from the date of the letter of acceptance. No payment will be made until the form, duly completed, is delivered to Transnet. Failure to return the Deed of Suretyship within the prescribed time shall, save where prior extension has been granted, entitle Transnet without notice to the Supplier to cancel the contract with immediate effect.

25.5 Additional costs incurred by Transnet necessitated by reason of default on the part of the Supplier in relation to the conditions of this clause 25 will be for the account of the Supplier.

26 PRICE AND DELIVERY BASIS FOR GOODS

26.1 Unless otherwise specified in the Bid Documents, the prices quoted for Goods must be on a Delivered Duty Paid [ICC Incoterms 2010] price basis in accordance with the terms and at the delivery point or points specified in Transnet's Bid Documents. Bids for supply on any other basis of delivery are liable to disqualification. The lead time for delivery stated by the Respondent must be inclusive of all non-working days or holidays, and of periods occupied in stocktaking or in effecting repairs to or overhauling plant, which would ordinarily occur within the delivery period given by the Respondent.

26.2 Respondents must furnish their Bid prices in the Price Schedule of the Bid Documents on the following basis:

- a) Local Supplies - Prices for Goods to be manufactured, produced or assembled in the Republic of South Africa, or imported supplies held in South Africa, to be quoted on a Delivered RSA named destination basis.
- b) Imported Supplies - Prices for Goods to be imported from all sources to be quoted on a Delivered Duty Paid [ICC Incoterms 2010] basis, to end destination in South Africa, unless otherwise specified in the Bid Price Schedule.

27 EXPORT LICENCE

The award of a Bid for Goods to be imported may be subject to the issue of an export licence in the country of origin or supply. If required, the Supplier's manufacturer or forwarding agent shall be required to apply for such licence.

28 QUALITY OF MATERIAL

Unless otherwise stipulated, the Goods offered shall be NEW i.e. in unused condition, neither second-hand nor reconditioned.

29 DELETION OF ITEMS EXCLUDED FROM BID

The Respondent must delete items for which it has not tendered or for which the price has been included elsewhere in its Bid.

30 VALUE-ADDED TAX

30.1 In respect of local supplies, i.e. Goods to be manufactured, produced or assembled in the Republic of South Africa, or imported supplies held or already in transit to South Africa, the prices quoted by the Respondent are to be exclusive of VAT which must be shown separately at the standard rate on the Tax Invoice.

31 IMPORTANT NOTICE TO RESPONDENTS REGARDING PAYMENT

31.1 Method of Payment

- a) The attention of the Respondent is directed to the Terms and Conditions of Contract which set out the conditions of payment on which Bid price(s) shall be based.
- b) However, in addition to the foregoing the Respondent is invited to submit offers based on alternative methods of payment and/or financing proposals.
- c) The Respondent is required to give full particulars of the terms that will be applicable to its alternative offer(s) and the financial merits thereof will be evaluated and taken into consideration when the Bid is adjudicated.
- d) The Respondent must, therefore, in the first instance, tender strictly in accordance with clause 31.1 (a) above. Failure to comply with clause 31.1 (a) above may preclude a Bid from further consideration.

NOTE: The successful Respondent [the **Supplier**] shall, where applicable, be required to furnish a guarantee covering any advance payments.

31.2 Conditional Discount

Respondents offering prices which are subject to a conditional discount applicable for payment within a specific period are to note that the conditional period will be calculated as from the date of receipt by Transnet of the Supplier's month-end statement reflecting the relevant Tax Invoice(s) for payment purposes, provided the conditions of the order or contract have been fulfilled and the Tax Invoice is correct in all respects as referred to in the contract or order. Incomplete and/or incorrect Tax Invoices shall be returned and the conditional period will be recalculated from the date of receipt of the correct documentation.

32 CONTRACT QUANTITIES AND DELIVERY REQUIREMENTS

32.1 Contract Quantities

- a) It must be clearly understood that although Transnet does not bind itself to purchase a definitive quantity under any contract which may be entered into pursuant to this Bid, the successful Respondent nevertheless undertakes to supply against the contract such quantities as may be ordered against the contract, which orders are posted or delivered by hand or transmitted electronically on or before the expiry date of such contract.
- b) It is furthermore a condition that Transnet will not accept liability for any material/stocks specially ordered or carried by the Respondent with a view to meeting the requirements under any such contract.
- c) The estimated planned quantities likely to be ordered by Transnet per annum are furnished in relevant section of the Bid Documents. For avoidance of doubt the estimated quantities are estimates and Transnet reserves the right to order only those quantities sufficient for its operational requirements.

32.2 Delivery Period

- a) **Period Contracts and Fixed Quantity Requirements**
It will be a condition of any resulting contract/order that the delivery period embodied therein will be governed by the provisions of the Terms and Conditions of Contract.

b) Progress Reports

The Supplier may be required to submit periodical progress reports with regard to the delivery of the Goods.

c) Emergency Demands as and when required

If, due to unforeseen circumstances, supplies of the Goods covered by the Bid are required at short notice for immediate delivery, the Supplier will be given first right of refusal for such business. If it is unable to meet the desired critical delivery period, Transnet reserves the right to purchase such supplies as may be required to meet the emergency outside the contract if immediate delivery can be offered from any other source. The *Total or Partial Failure to Perform the Scope of Supply* section in the Terms and Conditions of Contract will not be applicable in these circumstances.

33 PLANS, DRAWINGS, DIAGRAMS, SPECIFICATIONS AND DOCUMENTS

33.1 Copyright

33.2 Copyright in plans, drawings, diagrams, specifications and documents compiled by the Supplier for the purpose of contract work shall be governed by the Intellectual Property Rights section in the Terms and Conditions of Contract.

33.3 Drawings and specifications

33.4 In addition to what may be stated in any Bid Document, the Respondent should note that, unless notified to the contrary by Transnet or a designated official by means of an official amendment to the Bid Documents, it is required to tender for Goods strictly in accordance with the drawings and/or specifications supplied by Transnet, notwithstanding that it may be aware that alterations or amendments to such drawings or specifications are contemplated by Transnet.

33.5 Respondent's drawings

33.6 Drawings required to be submitted by the Respondent must be furnished before the closing time and date of the Bid. The non-receipt of such drawings by the appointed time may disqualify the Bid.

33.7 Foreign specifications

33.8 The Respondent quoting for Goods in accordance with foreign specifications, other than British and American standards, is to submit translated copies of such specifications with the Bid. In the event of any departures or variations between the foreign specification(s) quoted in the Bid Documents, full details regarding such departures or variations must be furnished by the Respondent in a covering letter attached to the Bid. Non-compliance with this condition may result in disqualification.

34 BIDS BY OR ON BEHALF OF FOREIGN RESPONDENTS

34.1 Bids submitted by foreign principals may be forwarded directly by the principals or by its South African representative or agent to the Secretary of the Acquisition Council or to a designated official of Transnet according to whichever officer is specified in the Bid Documents.

34.2 In the case of a representative or agent, written proof must be submitted to the effect that such representative or agent has been duly authorised to act in that capacity by the principal. Failure to submit such authorisation by the representative or agent shall disqualify the Bid.

- 34.3 When legally authorised to prepare and submit Bids on behalf of their principals not domiciled in the Republic of South Africa, representatives or agents must compile the Bids in the names of such principals and sign them on behalf of the latter.
- 34.4 South African representatives or agents of a successful foreign Respondent must when so required enter into a formal contract in the name of their principals and must sign such contract on behalf of the latter. In every such case a legal Power of Attorney from their principals must be furnished to Transnet by the South African representative or agents authorising them to enter into and sign such contract.
- a) Such Power of Attorney must comply with Rule 63 (Authentication of documents executed outside the Republic for use within the Republic) of the Uniform Rules of Court: Rules regulating the conduct of the proceedings of the several provincial and local divisions of the Supreme Court of South Africa.
 - b) The Power of Attorney must be signed by the principal under the same title as used in the Bid Documents.
 - c) If a Power of Attorney held by the South African representative or agent includes matters of a general nature besides provision for the entering into and signing of a contract with Transnet, a certified copy thereof should be furnished.
 - d) The Power of Attorney must authorise the South African representative or agent to choose the *domicilium citandi et executandi*.
- 34.5 If payment is to be made in South Africa, the foreign Supplier [i.e. the principal, or its South African agent or representative], must notify Transnet in writing whether, for payment by electronic funds transfer [EFT]:
- a) funds are to be transferred to the credit of the foreign Supplier's account at a bank in South Africa, in which case the name and branch of such bank shall be furnished; or
 - b) funds are to be transferred to the credit of its South African agent or representative, in which case the name and branch of such bank shall be furnished.
- 34.6 The attention of the Respondent is directed to clause 25 above [Securities] regarding the provision of security for the fulfilment of contracts and orders and the manner and form in which such security is to be furnished.

35 CONFLICT WITH ISSUED RFX DOCUMENT

- 35.1 Should a conflict arise between these General Bid Conditions and the issued RFX document, the conditions stated in the RFX document shall prevail.

36 TRANSNET'S LIST OF EXCLUDED TENDERERS (BLACKLIST)

- 36.1 All the stipulations around Transnet's blacklisting process as laid down in Transnet's Supply Chain Policy and Procurement Procedures Manual are included herein by way of reference. Below follows a condensed summary of this blacklisting procedure.
- 36.2 Blacklisting is a mechanism used to exclude a company/person from future business with Transnet for a specified period. The decision to blacklist is based on one of the grounds for blacklisting. The standard of proof to commence the blacklisting process is whether a "*prima facie*" (i.e. on the face of it) case has been established.

- 36.3 Depending on the seriousness of the misconduct and the strategic importance of the Goods/Services, in addition to blacklisting a company/person from future business, Transnet may decide to terminate some or all existing contracts with the company/person as well.
- 36.4 A supplier or contractor to Transnet may not subcontract any portion of the contract to a blacklisted company.
- 36.5 Grounds for blacklisting include: If any person/Enterprise which has submitted a Bid, concluded a contract, or, in the capacity of agent or subcontractor, has been associated with such Bid or contract:
- a) Has, in bad faith, withdrawn such Bid after the advertised closing date and time for the receipt of Bids;
 - b) has, after being notified of the acceptance of his Bid, failed or refused to sign a contract when called upon to do so in terms of any condition forming part of the bid documents;
 - c) has carried out any contract resulting from such bid in an unsatisfactory manner or has breached any condition of the contract;
 - d) has offered, promised or given a bribe in relation to the obtaining or execution of the contract;
 - e) has acted in a fraudulent or improper manner or in bad faith towards Transnet or any Government Department or towards any public body, Enterprise or person;
 - f) has made any incorrect statement in a certificate or other communication with regard to the Local Content of his Goods or his B-BBEE status and is unable to prove to the satisfaction of Transnet that:
 - (i) he made the statement in good faith honestly believing it to be correct; and
 - (ii) before making such statement he took all reasonable steps to satisfy himself of its correctness;
 - g) caused Transnet damage, or to incur costs in order to meet the contractor's requirements and which could not be recovered from the contractor;
 - h) has litigated against Transnet in bad faith.
- 36.6 Transnet recognizes that trust and good faith are pivotal to its relationship with its suppliers. When a dispute arises between Transnet and its supplier, the parties should use their best endeavours to resolve the dispute in an amicable manner, whenever possible. Litigation in bad faith negates the principles of trust and good faith on which commercial relationships are based. Accordingly, Transnet will not do business with a company that litigates against it in bad faith or is involved in any action that reflects bad faith on its part. Litigation in bad faith includes, but is not limited to the following instances:
- a) Vexatious proceedings. These are frivolous proceedings which have been instituted without proper grounds;
 - b) Perjury. Where a supplier commits perjury either in giving evidence or on affidavit;

- c) Scurrilous allegations. Where a supplier makes allegations regarding a senior Transnet employee which are without a proper foundation, scandalous, abusive or defamatory.
 - d) Abuse of court process. When a supplier abuses the court process in order to gain a competitive advantage during a bid process.
- 36.7 Where any person or Enterprise has been found guilty by a court of law, tribunal or other administrative body of a serious breach of any law, during the preceding 5 Years, such person/Enterprise may also be blacklisted. Serious breaches of the law would include but are not limited to corruption, fraud, theft, extortion, or contraventions of the Competition Act 89 of 1998 (e.g. collusive tendering). This process excludes minor convictions such as traffic offences or personal disagreements between parties which have no bearing on the business operations of the person or Enterprise.
- 36.8 Grounds for blacklisting include a company/person recorded as being a company or person prohibited from doing business with the public sector on National Treasury's database of Restricted Suppliers or Register of Tender Defaulters.
- 36.9 Companies associated with the person/s guilty of misconduct (i.e. entities owned, controlled or managed by such persons), any companies subsequently formed by the person(s) guilty of the misconduct and/or an existing company where such person(s) acquires a controlling stake may be considered for blacklisting. The decision to extend the blacklist to associated companies will be at the sole discretion of Transnet.
- 36.10 Any person or enterprise or company against whom a decision to blacklist has been taken, may make representations to the Chief Financial Officer of Transnet SOC Ltd, whose decision shall be final.

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Important Note: All potential bidders must read this document and certify in the RFX Declaration Form that have acquainted themselves with, and agree with the content. The contract with the successful bidder will automatically incorporate this Integrity Pact as part of the final concluded contract.

INTEGRITY PACT

Between

TRANSNET SOC LTD

Registration Number: 1990/000900/30

("Transnet")

and

The Bidder / Supplier/ Service Provider / Contractor (hereinafter referred to as the "Bidder / Supplier")

"PREVIEW COPY ONLY"

PREAMBLE

Transnet values full compliance with all relevant laws and regulations, ethical standards and the principles of economical use of resources, fairness and transparency in its relations with its Bidders / Suppliers.

In order to achieve these goals, Transnet and the Bidder / Supplier hereby enter into this agreement hereinafter referred to as the "Integrity Pact" which will form part of the Bidder's / Supplier's application for registration with Transnet as a vendor.

The general purpose of this Integrity Pact is to agree on avoiding all forms of dishonesty, fraud and corruption by following a system that is fair, transparent and free from any undue influence prior to, during and subsequent to the currency of any procurement and / or reverse logistics event and any further contract to be entered into between the Parties, relating to such event.

All Bidders / Suppliers will be required to sign and comply with undertakings contained in this Integrity Pact, should they want to be registered as a Transnet vendor.

1 OBJECTIVES

- 1.1 Transnet and the Bidder / Supplier agree to enter into this Integrity Pact, to avoid all forms of dishonesty, fraud and corruption including practices that are anti-competitive in nature, negotiations made in bad faith and under-pricing by following a system that is fair, transparent and free from any influence / unprejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:
 - a) Enable Transnet to obtain the desired contract at a reasonable and competitive price in conformity to the defined specifications of the works, goods and services; and
 - b) Enable Bidders / Suppliers to abstain from bribing or participating in any corrupt practice in order to secure the contract.

2 COMMITMENTS OF TRANSNET

Transnet commits to take all measures necessary to prevent dishonesty, fraud and corruption and to observe the following principles:

- 2.1 Transnet hereby undertakes that no employee of Transnet connected directly or indirectly with the sourcing event and ensuing contract, will demand, take a promise for or accept directly or through intermediaries any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the Bidder, either for themselves or for any person, organisation or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to any contract.
- 2.2 Transnet will, during the registration and bidding process treat all Bidders / Suppliers with equity, transparency and fairness. Transnet will in particular, before and during the registration process, provide to all Bidders / Suppliers the same information and will not provide to any Bidders / Suppliers confidential / additional information through which the Bidders / Suppliers could obtain an advantage in relation to any bidding process.
- 2.3 Transnet further confirms that its employees will not favour any prospective bidder in any form that could afford an undue advantage to a particular bidder during the tendering stage, and will further treat all Bidders / Supplier participating in the bidding process.
- 2.4 Transnet will exclude from the bidding process such employees who have any personal interest in the Bidders / Suppliers participating in the bidding process.

3 OBLIGATIONS OF THE BIDDER / SUPPLIER

- 3.1 The Bidder / Supplier commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any ensuing contract stage in order to secure the contract or in furtherance to secure it and in particular the Bidder / Supplier commits to the following:
- a) The Bidder / Supplier will not, directly or through any other person or firm, offer, promise or give to Transnet or to any of Transnet's employees involved in the bidding process or to any third person any material or other benefit or payment, in order to obtain in exchange an advantage during the bidding process; and
 - b) The Bidder / Supplier will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any employee of Transnet, connected directly or indirectly with the bidding process, or to any person, organisation or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 3.2 The acceptance and giving of gifts may be permitted provided that:
- a) the gift does not exceed R1 000 (one thousand Rand) in retail value;
 - b) many low retail value gifts do not exceed R 1 000 within a 12 month period;
 - c) hospitality packages do not exceed R5 000 in value or many low value hospitality packages do not cumulatively exceed R5 000;
 - d) a Bidder / Supplier does not give a Transnet employee more than 2 (two) gifts within a 12 (twelve) month period, irrespective of value;
 - e) a Bidder / Supplier does not accept more than 1 (one) gift in excess of R750 (seven hundred and fifty Rand) from a Transnet employee within a 12 (twelve) month period, irrespective of value;
 - f) a Bidder / Supplier may under no circumstances, accept from or give to, a Transnet employee any gift, business courtesy, including an invitation to a business meal and /or drinks, or hospitality package, irrespective of value, during any bid evaluation process, including a period of 12 (twelve) months after such tender has been awarded, as it may be perceived as undue and improper influence on the evaluation process or reward for the contract that has been awarded; and
 - g) a Bidder / Supplier may not offer gifts, goods or services to a Transnet employee at artificially low prices, which are not available to the public at those prices.
- 3.3 The Bidder / Supplier will not collude with other parties interested in the contract to preclude a competitive bid price, impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract. The Bidder / Supplier further commits itself to delivering against all agreed upon conditions as stipulated within the contract.
- 3.4 The Bidder / Supplier will not enter into any illegal or dishonest agreement or understanding, whether formal or informal with other Bidders / Suppliers. This applies in particular to certifications, submissions or non-submission of documents or actions that are restrictive or to introduce cartels into the bidding process.
- 3.5 The Bidder / Supplier will not commit any criminal offence under the relevant anti-corruption laws of South Africa or any other country. Furthermore, the Bidder /Supplier will not use for illegitimate purposes or for restrictive purposes or personal gain, or pass on to others, any information provided by Transnet as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

- 3.6 A Bidder / Supplier of foreign origin shall disclose the name and address of its agents or representatives in South Africa, if any, involved directly or indirectly in the registration or bidding process. Similarly, the Bidder / Supplier of South African nationality shall furnish the name and address of the foreign principals, if any, involved directly or indirectly in the registration or bidding process.
- 3.7 The Bidder / Supplier will not misrepresent facts or furnish false or forged documents or information in order to influence the bidding process to the advantage of the Bidder / Supplier or detriment of Transnet or other competitors.
- 3.8 The Bidder / Supplier shall furnish Transnet with a copy of its code of conduct, which code of conduct shall reject the use of bribes and other dishonest and unethical conduct, as well as compliance programme for the implementation of the code of conduct.
- 3.9 The Bidder / Supplier will not instigate third persons to commit offences outlined above or be an accessory to such offences.

4 INDEPENDENT BIDDING

- 4.1 For the purposes of that Certificate in relation to any submitted Bid, the Bidder declares to fully understand that the word "competitor" shall include any individual or organisation, other than the Bidder, whether or not affiliated with the Bidder, who:
- a) has been requested to submit a Bid in response to this Bid invitation;
 - b) could potentially submit a Bid in response to this Bid invitation, based on their qualifications, abilities or experience; and
 - c) provides the same Goods and Services as the Bidder and/or is in the same line of business as the Bidder.
- 4.2 The Bidder has arrived at his submitted Bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium will not be construed as collusive bidding.
- 4.3 In particular, without limiting the generality of paragraph 5 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
- a) prices;
 - b) geographical area where Goods or Services will be rendered [market allocation];
 - c) methods, factors or formulas used to calculate prices;
 - d) the intention or decision to submit or not to submit, a Bid;
 - e) the submission of a Bid which does not meet the specifications and conditions of the RFP;
 - or
 - f) bidding with the intention of not winning the Bid.
- 4.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the Goods or Services to which his/her Bid relates.
- 4.5 The terms of the Bid as submitted have not been, and will not be, disclosed by the Bidder, directly or indirectly, to any competitor, prior to the date and time of the official Bid opening or of the awarding of the contract.
- 4.6 Bidders are aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, Bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in

terms of section 59 of the Competition Act No 89 of 1998 and/or may be reported to the National Prosecuting Authority [NPA] for criminal investigation and/or may be restricted from conducting business with the public sector for a period not exceeding 10 [ten] years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

- 4.7 Should the Bidder find any terms or conditions stipulated in any of the relevant documents quoted in the RFP unacceptable, it should indicate which conditions are unacceptable and offer alternatives by written submission on its company letterhead, attached to its submitted Bid. Any such submission shall be subject to review by Transnet's Legal Counsel who shall determine whether the proposed alternative(s) are acceptable or otherwise, as the case may be.

5 DISQUALIFICATION FROM BIDDING PROCESS

- 5.1 If the Bidder / Supplier has committed a transgression through a violation of section 3 of this Integrity Pact or in any other form such as to put its reliability or credibility as a Bidder / Supplier into question, Transnet may reject the Bidder's / Supplier's application from the registration or bidding process and remove the Bidder / Supplier from its database, if already registered.
- 5.2 If the Bidder / Supplier has committed a transgression through a violation of section 3, or any material violation, such as to put its reliability or credibility into question. Transnet may after following due procedures and at its own discretion also exclude the Bidder / Supplier from future bidding processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the circumstances of the case, which will include amongst others the number of transgressions, the position of the transgressors within the company hierarchy of the Bidder / Supplier and the amount of the damage. The exclusion will be imposed for up to a maximum of 10 (ten) years. However, Transnet reserves the right to impose a longer period of exclusion, depending on the gravity of the misconduct.
- 5.3 If the Bidder / Supplier can prove that it has restored the damage caused by it and has installed a suitable corruption prevention system, or taken other remedial measures as the circumstances of the case may require, Transnet may at its own discretion revoke the exclusion or suspend the imposed penalty.

6 TRANSNET'S LIST OF EXCLUDED TENDERERS (BLACKLIST)

- 6.1 All the stipulations around Transnet's blacklisting process as laid down in Transnet's Supply Chain Policy and Procurement Procedures Manual are included herein by way of reference. Below follows a condensed summary of this blacklisting procedure.
- 6.2 Blacklisting is a mechanism used to exclude a company/person from future business with Transnet for a specified period. The decision to blacklist is based on one of the grounds for blacklisting. The standard of proof to commence the blacklisting process is whether a "*prima facie*" (i.e. on the face of it) case has been established.
- 6.3 Depending on the seriousness of the misconduct and the strategic importance of the Goods/Services, in addition to blacklisting a company/person from future business, Transnet may decide to terminate some or all existing contracts with the company/person as well.
- 6.4 A supplier or contractor to Transnet may not subcontract any portion of the contract to a blacklisted company.
- 6.5 Grounds for blacklisting include: If any person/Enterprise which has submitted a Bid, concluded a contract, or, in the capacity of agent or subcontractor, has been associated with such Bid or contract:

- a) Has, in bad faith, withdrawn such Bid after the advertised closing date and time for the receipt of Bids;
- b) has, after being notified of the acceptance of his Bid, failed or refused to sign a contract when called upon to do so in terms of any condition forming part of the bid documents;
- c) has carried out any contract resulting from such bid in an unsatisfactory manner or has breached any condition of the contract;
- d) has offered, promised or given a bribe in relation to the obtaining or execution of the contract;
- e) has acted in a fraudulent or improper manner or in bad faith towards Transnet or any Government Department or towards any public body, Enterprise or person;
- f) has made any incorrect statement in a certificate or other communication with regard to the Local Content of his Goods or his B-BBEE status and is unable to prove to the satisfaction of Transnet that:
 - (i) he made the statement in good faith honestly believing it to be correct; and
 - (ii) before making such statement he took all reasonable steps to satisfy himself of its correctness;
- g) caused Transnet damage, or to incur costs in order to meet the contractor's requirements and which could not be recovered from the contractor;
- h) has litigated against Transnet in bad faith.

6.6 Grounds for blacklisting include a company/person recorded as being a company or person prohibited from doing business with the public sector on National Treasury's database of Restricted Suppliers or Register of Tender Defaulters.

6.7 Companies associated with the person/s guilty of misconduct (i.e. entities owned, controlled or managed by such persons), any companies subsequently formed by the person(s) guilty of the misconduct and/or an existing company where such person(s) acquires a controlling stake may be considered for blacklisting. The decision to extend the blacklist to associated companies will be at the sole discretion of Transnet.

7 PREVIOUS TRANSGRESSIONS

7.1 The Bidder / Supplier hereby declares that no previous transgressions resulting in a serious breach of any law, including but not limited to, corruption, fraud, theft, extortion and contraventions of the Competition Act 89 of 1998, which occurred in the last 5 (five) years with any other public sector undertaking, government department or private sector company that could justify its exclusion from its registration on the Bidder's / Supplier's database or any bidding process.

7.2 If it is found to be that the Bidder / Supplier made an incorrect statement on this subject, the Bidder / Supplier can be rejected from the registration process or removed from the Bidder / Supplier database, if already registered, for such reason (refer to the Breach of Law Form contained in the applicable RFX document.)

8 SANCTIONS FOR VIOLATIONS

8.1 Transnet shall also take all or any one of the following actions, wherever required to:

- a) Immediately exclude the Bidder / Supplier from the bidding process or call off the pre-contract negotiations without giving any compensation the Bidder / Supplier. However, the proceedings with the other Bidders / Suppliers may continue;
- b) Immediately cancel the contract, if already awarded or signed, without giving any compensation to the Bidder / Supplier;
- c) Recover all sums already paid by Transnet;
- d) Encash the advance bank guarantee and performance bond or warranty bond, if furnished by the Bidder / Supplier, in order to recover the payments, already made by Transnet, along with interest;
- e) Cancel all or any other contracts with the Bidder / Supplier; and
- f) Exclude the Bidder / Supplier from entering into any bid with Transnet in future.

9 CONFLICTS OF INTEREST

- 9.1 A conflict of interest includes, inter alia, a situation in which:
- a) A Transnet employee has a personal financial interest in a bidding / supplying entity; and
 - b) A Transnet employee has private interests or personal considerations or has an affiliation or a relationship which affects, or may affect, or may be perceived to affect his / her judgment in action in the best interest of Transnet, or could affect the employee's motivations for acting in a particular manner, or which could result in, or be perceived as favouritism or nepotism.
- 9.2 A Transnet employee uses his / her position, or privileges or information obtained while acting in the capacity as an employee for:
- a) Private gain or advancement; or
 - b) The expectation of private gain, or advancement, or any other advantage accruing to the employee must be declared in a prescribed form.
- Thus, conflicts of interest of any bid committee member or any person involved in the sourcing process must be declared in a prescribed form.
- 9.3 If a Bidder / Supplier has or becomes aware of a conflict of interest i.e. a family, business and / or social relationship between its owner(s) / member(s) / director(s) / partner(s) / shareholder(s) and a Transnet employee / member of Transnet's Board of Directors in respect of a bid which will be considered for the bid process, the Bidder / Supplier:
- a) must disclose the interest and its general nature, in the Request for Proposal ("RFX") declaration form; or
 - b) must notify Transnet immediately in writing once the circumstances has arisen.
- 9.4 The Bidder / Supplier shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any committee member or any person involved in the sourcing process, where this is done, Transnet shall be entitled forthwith to rescind the contract and all other contracts with the Bidder / Supplier.

10 MONITORING

- 10.1 Transnet will be responsible for appointing an independent Monitor to:
- a) Conduct random monitoring of compliance to the provisions of this Integrity Pact for contracts entered into between Transnet and the Bidder / Supplier for less than R100,000.000 (one hundred million Rand) in value;
 - b) Monitor compliance to the provisions of this Integrity Pact for contracts entered into between Transnet and the Bidder / Supplier for greater than R100,000.000 (one hundred million Rand) in value; and
 - c) Investigate any allegation of violation of any provisions of this Integrity Pact for contracts entered into between Transnet and the Bidder / Supplier, irrespective of value.
- 10.2 The Monitor will be subjected to Transnet's Terms of Conditions of Contract for the Provision of Services to Transnet, as well as to Transnet's Supplier Code of Conduct.

11 EXAMINATION OF FINANCIAL RECORDS, DOCUMENTATION AND/OR ELECTRONIC DATA

For the purpose of Monitoring, as stipulated above, the Monitor shall be entitled to:

- a) Examine the financial records, documentation and or electronic data of the Bidder / Supplier / Transnet. The Bidder / Supplier / Transnet shall provide all requested information / documentation / data to the Monitor and shall extend all help possible for the purpose of such examination.

12 DISPUTE RESOLUTION

12.1 Transnet recognises that trust and good faith are pivotal to its relationship with its Bidders / Suppliers. When a dispute arises between Transnet and its Bidder / Supplier, the parties should use their best endeavours to resolve the dispute in an amicable manner, whenever possible. Litigation in bad faith negates the principles of trust and good faith on which commercial relationships are based. Accordingly, following a blacklisting process as mentioned in paragraph 6 above, Transnet will not do business with a company that litigates against it in bad faith or is involved in any action that reflects bad faith on its part. Litigation in bad faith includes, but is not limited to the following instances:

- a) **Vexatious proceedings:** these are frivolous proceedings which have been instituted without proper grounds;
- b) **Perjury:** where a supplier makes a false statement either in giving evidence or on an affidavit;
- c) **Scurrilous allegations:** where a supplier makes allegations regarding a senior Transnet employee which are without proper foundation, scandalous, abusive or defamatory; and
- d) **Abuse of court process:** when a supplier abuses the court process in order to gain a competitive advantage during a bid process.

13 GENERAL

- 13.1 This Integrity Pact is governed by and interpreted in accordance with the laws of the Republic of South Africa.
- 13.2 The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the law relating to any civil or criminal proceedings.
- 13.3 The validity of this Integrity Pact shall cover all the bidding processes and will be valid for an indefinite period unless cancelled by either Party.
- 13.4 Should one or several provisions of this Integrity Pact turn out to be invalid the remainder of this Integrity Pact remains valid.
- 13.5 Should a Bidder / Supplier be confronted with dishonest, fraudulent or corruptive behaviour of one or more Transnet employees, Transnet expects its Bidders / Suppliers to report this behaviour directly to a senior Transnet official / employee or alternatively by using Transnet's "Tip-Off Anonymous" hotline number 0800 003 056, whereby your confidentiality is guaranteed.

The Parties hereby declare that each of them has read and understood the clauses of this Integrity Pact and shall abide by it. To the best of the Parties' knowledge and belief, the information provided in this Integrity Pact is true and correct.

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"PREVIEW COPY ONLY"