

TRANSNET SOC LTD

Registration Number 1990/000900/30

[hereinafter referred to as **Transnet**]

REQUEST FOR QUOTATION [RFQ] No GSM/15/11/1351

FOR THE PROVISION OF:

**NATCOR OCCUPATIONS OPTIMISATION
EVALUATION FOR A PERIOD OF 12 MONTHS**

FOR DELIVERY TO:

**TENDER BOX 48th FLOOR
TRANSNET CORPORATE CENTRE
CARLTON CENTRE
150 COMMISSIONER STREET
JOHANNESBURG
2001**

ISSUE DATE: 15 January 2016

COMPULSORY BRIEFING SESSION: 21 January 2016

CLOSING DATE: 04 February 2016

CLOSING TIME: 12:00

**NOTE: FOR A COPY OF THE RFQ, PLEASE SEND AN EMAIL REQUEST TO
ABEDNEGO.MAROSANE@TRANSNET.NET**

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 deliver or Postal Address (no-email will be accepted and late tenders will not be accepted)

CLOSING VENUE: The Tender Box, 48th Floor, Transnet Corporate Centre, Carlton Centre,
150 Commissioner Street, Johannesburg, 2001

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. FORMAL BRIEFING

A Compulsory pre-proposal RFQ Briefing Session will be conducted at Transnet Corporate Centre, 8th Floor, Room 809, 150 Commissioner Street, Johannesburg on the **21 January 2016, at 10h00** for a period of **± 2 hours**. [Respondents to provide own transportation and accommodation]. The briefing session will start punctually and information will not be repeated for the benefit of Respondents arriving late.

- 2.1 A Certificate of Attendance in the form set out in Section 5 hereto must be completed and submitted with your Proposal as proof of attendance is required for a **Compulsory** RFQ briefing.
- 2.2 Respondents failing to attend the compulsory RFQ briefing will be disqualified.
- 2.3 Respondents without a valid RFQ document in their possession will not be allowed to attend the RFQ briefing.
- 2.4 Transnet will not be held responsible if any Bidder who did not attend the compulsory session subsequently feels disadvantaged as a result thereof.
- 2.5 Respondents failing to attend the compulsory RFQ briefing will be disqualified.
- 2.6 The briefing session will start punctually at 10:00 and information will not be repeated for the benefit of Respondents arriving late.

3 BROAD-BASED BLACK ECONOMIC EMPOWERMENT [B-BBEE]

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

3.1 B-BBEE Scorecard and Rating

As prescribed in terms of the Preferential Procurement Policy Framework Act (PPPFA), Act 5 of 2000 and its Regulations, Respondents are to note that the following preference point systems are applicable to all bids:

- the 80/20 system for requirements with a Rand value of up to R1 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R1 000 000 (all applicable taxes included).
- Bidders are to note that if the 90/10 preference point system is stipulated in this RFQ and all Bids received are equal to or below R1 000 000.00, the RFQ must be cancelled.

The value of this bid is estimated to exceed R1 000 000 (all applicable taxes included); and therefore the **90/10** system shall be applicable.

When Transnet invites prospective suppliers to submit Proposals for its various expenditure programmes, it requires Respondents to have their B-BBEE status verified in compliance with the Codes of Good Practice issued in terms of the Broad Based Black Economic Empowerment Act No. 53 of 2003.

The Department of Trade and Industry recently revised the Codes of Good Practice on 11 October 2013 [Government Gazette No. 36928]. The Revised Codes will replace the Black Economic Empowerment Codes of Good Practice issued on 9 February 2007. The Revised Codes provide for a one year transitional period starting 11 October 2013. During the transitional period, companies may elect to be measured in terms of the Revised Codes or the 2007 version of the Codes. After the first year of the implementation of the Revised Codes, B-BBEE compliance will be measured in terms of the Revised Codes without any discretion. Companies which are governed by Sector-specific Codes will be measured in terms of those Sector Codes.

As such, Transnet will accept B-BBEE certificates issued based on the Revised Codes. Transnet will also continue to accept B-BBEE certificates issued in terms of the 2007 version of the Codes provided it was issued before 10 October 2014. Thereafter, Transnet will only accept B-BBEE certificates issued based on the Revised Codes.

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.

[Refer clause 19 below for Returnable Documents required]

4 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 **04 February 2016** at 12:00, direct any written enquiries relating to the RFQ to the following Transnet employee:

Name: Abednego Marosane

Email: Abednego.Marosane@transnet.net

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 011 308 3528

Email: TAC.SECRETARIAT@transnet.net

5 Tax Clearance

The Respondent's original and valid Tax Clearance Certificate must accompany the Quotation. Note that no business shall be awarded to any Respondent whose tax matters have not been declared by SARS to be in order.

6 VAT Registration

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

7 Legal Compliance

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

8 Changes to Quotations

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

9 Pricing

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

10 Prices Subject to Confirmation

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

11 Negotiations

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

12 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.

13 Disclaimers

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

- modify the RFQ's goods / service(s) and request Respondents to re-bid on any changes;
- reject any Quotation which does not conform to instructions and specifications which are detailed herein;
- disqualify Quotations submitted after the stated submission deadline;
- not necessarily accept the lowest priced Quotation;

- reject all Quotations, if it so decides;
- place an order in connection with this Quotation at any time after the RFQ’s closing date;
- award only a portion of the proposed goods / 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; or
- make no award at all.

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 lower the threshold for Technical by 10% should no Bidders pass the predetermined minimum threshold in respect of Technical.

14 Transnet’s supplier integrity pact

Transnet’s Integrity Pact requires a commitment from suppliers and Transnet that they will not engage in any corrupt and fraudulent practices, anti-competitive practices; and act in bad faith towards each other. The Integrity Pact also serves to communicate Transnet’s Gift Policy as well as the remedies available to Transnet where a Respondent contravenes any provision of the Integrity Pact.

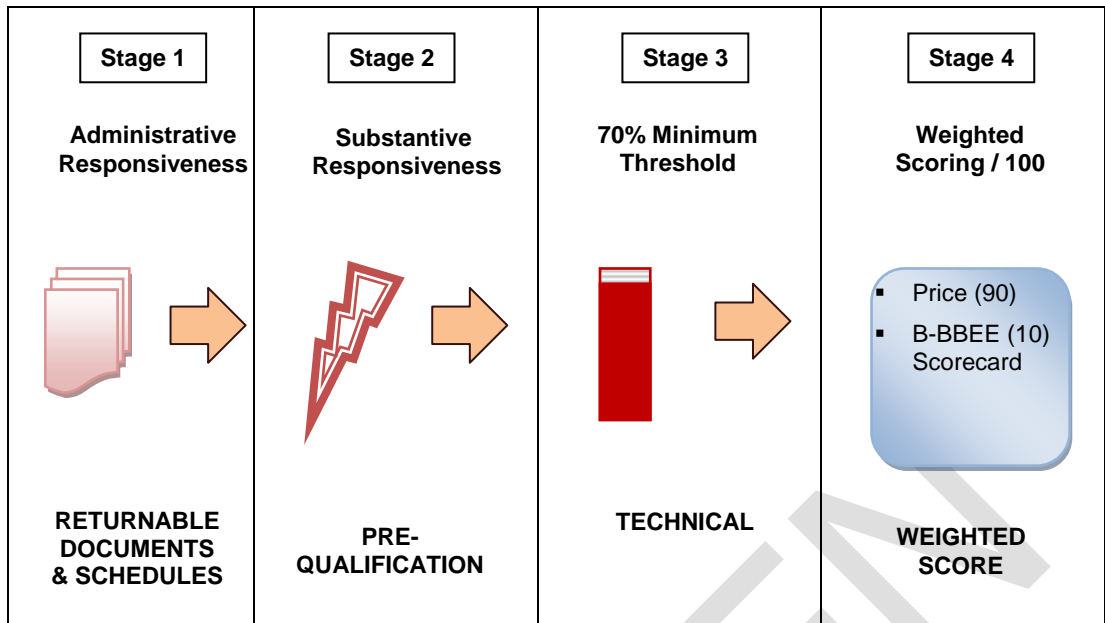
Respondents are required to familiarise themselves with the contents of the Integrity Pact which is available on the Transnet Internet site [www.transnet.net/Tenders/Pages/default.aspx] or on request. Furthermore, Respondents are required to certify that they have acquainted themselves with all the documentation comprising the Transnet Integrity Pact and that they fully comply with all the terms and conditions stipulated in the Transnet Supplier Integrity Pact as follows:

YES		NO	
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Should a Respondent need to declare previous transgressions or a serious breach of law in the preceding 5 years as required by Annexure B to the Integrity Pact, such declaration must accompany the Respondent’s bid submission.

15 Evaluation Criteria

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



STAGE ONE: Test for Administrative Responsiveness

The test for administrative responsiveness will include the following:

Administrative Responsiveness Check
<ul style="list-style-type: none"> • Whether the Bid has been lodged on time
<ul style="list-style-type: none"> • Whether all returnable documents and/or schedules [where applicable] were completed and returned by the closing date and time
<ul style="list-style-type: none"> • Verify the validity of all returnable documents

The test for Administrative Responsiveness [Stage One] must be passed for a Respondent's Proposal to progress to Stage Two for Substantive Responsiveness Check

STAGE TWO: Test for Substantive Responsiveness

The test for substantive responsiveness will include the following:

Check for Substantive Responsiveness
<ul style="list-style-type: none"> • Whether any general pre-qualification criteria set by Transnet, have been met
<ul style="list-style-type: none"> • Whether the Bid contains a priced offer
<ul style="list-style-type: none"> • Whether the Bid materially complies with the scope and/or specification given

The test for Substantive Responsiveness [Stage Two] must be passed for a Respondent's Proposal to progress to Stage Three for Technical Evaluation

STAGE THREE: Minimum Threshold of 70% for Technical Criteria and Functional Requirements

The test for the Technical/Functional threshold will include the following:

Technical Criteria	Scoring Guideline	Weighting
<p>Resources – Competence of Engineers proposed</p> <p><i>Bidder to provide detailed CV's of Engineers proposed and project organogram showing resources allocated. Scoring will be based on average simulation experience of Engineers assigned to the project.</i></p>	<p>0. Non-responsive</p> <p>1. 1 to 3 year's experience in respect of rail simulation projects, and no experience using OpenTrack.</p> <p>2. 1 to 3 years' experience in respect of rail simulation projects, with at least 1 project using OpenTrack.</p> <p>3. 3 to 5 years' experience in respect of rail simulation projects, with at least 2 projects using OpenTrack.</p> <p>4. 5 years' experience in respect of rail simulation projects with more than 2 projects using OpenTrack.</p>	40
<p>Competence of methodology proposed</p> <p><i>Bidder to provide outline of factors to consider when train plan optimisation is done</i></p>	<p>0. Non-responsive</p> <p>1. Proposed methodology provides input on network only.</p> <p>2. Proposed methodology provides input on network and occupation variation inputs.</p> <p>3. Proposed methodology shows how train plan input will be iterated with current capacity constraints.</p> <p>4. Proposed methodology shows how future train plan (with future volume mix and future network design) will be developed iteratively.</p>	20

<p>Previous rail system experience shown through the total number of rail capacity optimisation projects applying simulations, executed by the organisation</p> <p><i>Bidder to provide detail list of previous projects showing relevant project experience. Details to be included:</i></p> <ul style="list-style-type: none"> • <i>Project name</i> • <i>Project description</i> • <i>Client</i> • <i>Project duration</i> • <i>Project Budget</i> • <i>Contact person</i> 	<ol style="list-style-type: none"> 0. No previous projects executed by the organisation. 1. One to three projects executed by the organisation. 2. Four to Six projects executed by organisation. 3. Seven to Ten projects executed by organisation. 4. Over Ten projects executed by organisation. 	40
	Total Points	100
	Minimum Threshold	70%

The minimum threshold of 70% for Technical/Functionality Evaluation [Stage Three] must be met or exceeded for a Respondent's Proposal to progress to Stage Four for Final evaluation (Price and BBBEE)

STAGE FOUR: Evaluation and Final Weighted Scoring

Price Criteria [Weighted score 90 points]:

Evaluation Criteria
<ul style="list-style-type: none"> • Commercial offer

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

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

Where:

Ps = Score for the Bid under consideration

Pt = Price of Bid under consideration

Pmin = Price of lowest acceptable Bid

Broad-Based Black Economic Empowerment criteria [Weighted score 10 points]

- B-BBEE - current scorecard / B-BBEE Preference Points Claims Form [Annexure A]

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 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

Evaluation Criteria	Final Weighted Scores
Price	90
B-BBEE - Scorecard	10
TOTAL SCORE:	100

16 Validity Period

Transnet desires a validity period of 120 [hundred and twenty] days from the closing date of this RFQ.

17 Banking Details

BANK: _____

BRANCH NAME / CODE: _____

ACCOUNT HOLDER: _____

ACCOUNT NUMBER: _____

18 Company Registration

Registration number of company / C.C. _____

Registered name of company / C.C. _____

19 Disclosure of Prices Quoted

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

YES NO

20 Returnable Documents

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

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

Failure to provide all these 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.

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

Mandatory Returnable Documents	Submitted [Yes or No]
SECTION 2 : Quotation Form	
Annexure B: Scope of Work	
Bidder to provide detailed CV's of Engineers proposed and project organogram showing resources allocated.	
Bidder to provide Methodology proposed showing outline of factors to consider when train plan optimisation is done.	
Bidder to provide detail list of previous projects showing relevant project experience <i>Details to be included:</i> <ul style="list-style-type: none"> • <i>Project name</i> • <i>Project description</i> • <i>Client</i> • <i>Project duration</i> • <i>Project Budget</i> • <i>Contact person</i> 	

- 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.

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

Essential Returnable Documents	Submitted [Yes or No]
SECTION 1 : Notice to Bidders	
- Valid and original B-BBEE Verification Certificate or certified copy thereof [Large Enterprises and QSEs] Note: failure to provide a valid B-BBEE Verification Certificate at the closing date and time of the RFQ will result in an automatic score of zero for preference	
- Valid and original B-BBEE certificate/sworn affidavit or certified copy thereof from auditor, accounting officer or SANAS accredited Verification Agency [EMEs] Note: failure to provide a valid B-BBEE Verification Certificate at the closing date and time of the RFQ will result in an automatic score of zero being allocated for preference	
- In the case of Joint Ventures, a copy of the Joint Venture Agreement or written confirmation of the intention to enter into a Joint Venture Agreement	
- Original valid Tax Clearance Certificate [Consortia / Joint Ventures must submit a separate Tax Clearance Certificate for each party]	
SECTION 3 : Standard Terms and Conditions of Contract for the Supply of Services to Transnet	
SECTION 4 : Vendor Application Form	
- Original cancelled cheque or bank verification of banking details	
- Certified copies of IDs of shareholder/directors/members [as applicable]	
- Certified copies of the relevant company registration documents from Companies and Intellectual Property Commission (CIPC)	
- Certified copies of the company's shareholding/director's portfolio	
- Entity's letterhead	
- Certified copy of VAT Registration Certificate [RSA entities only]	
- Certified copy of valid Company Registration Certificate [if applicable]	
- A signed letter from Respondent's auditor or accountant confirming most recent annual turnover figures	
ANNEXURE A – B-BBEE Preference Points Claim Form	

Section 2
QUOTATION FORM

I/We _____

–

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

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

- the Standard Terms and Conditions for the Supply of Goods or Services to Transnet [Section 3 hereof]; 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.

Respondent's Signature

Date & Company Stamp

Price Schedule

I/We quote as follows for the services required, on a "fixed price" basis, excluding VAT:

Items	Description Of Services	Total Cost (excl. VAT)
1	Data gathering and building of model	
2	Running scenarios 1,2 & 3, plus its optimal occupation rules	
3	Running scenarios 4-8, plus its optimal occupation rules	
4	Report & review	
5	Allowance for disbursements	
	TOTAL COST (excl. VAT) for a period of twelve(12) months	
	DISCOUNT(S)	
	GRAND TOTAL (incl. VAT) for a period of twelve(12) months	

Optional Pricing:

Items	Description Of Services	Total Cost (excl. VAT)
A	Updating model for CBTA (Scenario 9) and determining optional occupation rules	
B	High level analysis of the impact on maintenance organisation(scenarios 3 & 6)	
	TOTAL COST (excl. VAT) for a period of twelve(12) months	
	DISCOUNT(S)	
	GRAND TOTAL (incl. VAT) for a period of twelve(12) months	

(Bidders are required to provide a clear breakdown of the professional fees and structure, including disbursements)

Disbursements must be based on estimated costs but must not exceed 10% of the total cost for services proposed. Payment of actual disbursements will be subject to Transnet's policies and/or procedures.

Notes to Pricing:

- a) All Prices must be quoted in South African Rand, exclusive of VAT
- b) To facilitate like-for-like comparison bidders must submit pricing strictly in accordance with this price schedule and not utilise a different format. Deviation from this pricing schedule could result in a bid being disqualified.
- c) Please note that should you have offered a discounted price (s), Transnet will only consider such price discount(s) in the final evaluation stage if offered on an unconditional basis.
- d) Disbursement costs must be in line with Transnet business travel policy.

Respondent's Signature

Date & Company Stamp

Section 3

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

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

1 SOLE AGREEMENT

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

2 CONFORMITY WITH ORDER

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

3 DELIVERY AND TITLE

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

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

3.3 If on delivery, the Goods/Services do not conform to the Order, Transnet may reject the Goods/Services and the Supplier/Service Provider shall promptly rectify any defects or in Transnet's opinion, supply appropriate replacement Goods/Services at the Supplier's/Service Provider's expense within the specified delivery times, without any liability due by Transnet.

4 PRICE AND PAYMENT

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

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

5 PROPRIETARY RIGHTS LIABILITY

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

- a) procure for Transnet the right to continue using the infringing Goods; or
- b) modify or replace the Goods/Services so that they become non-infringing,

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

6 PROPRIETARY INFORMATION

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

7 PUBLICITY

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

8 TERMINATION OF ORDER

- 8.1 Transnet may cancel an Order in whole or in part at any time upon at least 7 [seven] days' written notice to the Supplier/Service Provider, or when there is a change in control of the Supplier/Service Provider or the Supplier/Service Provider commits any serious breach or any repeated or continued material breach of its obligations under these Terms and/or Order or shall have been guilty of conduct tending to bring itself into disrepute, on written notice to the Supplier/Service Provider when such work on the Order shall stop.
- 8.2 Transnet shall pay the Supplier/Service Provider a fair and reasonable price for justified work in progress, where such price reflects only those costs not otherwise recoverable by the Supplier/Service Provider, at the time of termination, and the Supplier/Service Provider shall give Transnet full assistance to check the extent of such work in progress. Payment of such price shall be in full and final satisfaction of any claims arising out of such termination and upon such payment the Supplier/Service Provider shall deliver to Transnet all work, including any materials, completed or in progress. The sum payable to the Supplier/Service Provider under this clause will not in any event exceed the total amount that would have been payable to the Supplier/Service Provider had the Order not been terminated.
- 8.3 In the event of termination the Supplier/Service Provider must submit all claims within 2 [two] months of termination after which time claims will only be met in what Transnet considers exceptional circumstances.
- 8.4 If the Goods or Services are not provided in accordance with an Order, the Order shall be deemed terminated and the Supplier/Service Provider shall compensate Transnet for any costs incurred in obtaining substitute Goods or any damage caused due to the failure or delay in the delivery.

9 ACCESS

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

10 WARRANTY

The Supplier/Service Provider warrants that it is competent to supply the Goods/Services in accordance with these Terms to the reasonable satisfaction of Transnet and that all Goods/Services delivered under the Order: (a) conform and comply in all relevant legislation, standards, directives and orders related to [*inter alia*] the Goods/Services in force at the time of delivery, and to any specifications referred to in the Order; (b) will not cause any deterioration in the functionality of any Transnet equipment; and (c) do not infringe any third party rights of any kind. The Supplier/Service Provider hereby indemnifies Transnet

against all losses, liabilities, costs, claims, damages, expenses and awards of any kinds incurred or made against Transnet in connection with any breach of this warranty.

11 INSOLVENCY

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

12 ASSIGNMENT

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

13 NOTICES

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

14 LAW

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

15 GENERAL

Completion or termination of an Order shall be without prejudice to any Term herein which by its nature would be deemed to continue after completion or termination, including but not limited to clauses 5, 6, 7 and 10. Headings are included herein for convenience only. If any Term herein be held illegal or unenforceable, the validity or enforceability of the remaining Terms shall not be affected. No failure or delay by Transnet to enforce any rights under these Terms will operate as a waiver thereof by Transnet. All rights and remedies available to either party under these Terms shall be in addition to, not to the exclusion of, rights otherwise available at law.

16 COUNTERPARTS

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

SPECIMEN

Respondent's Signature

Date & Company Stamp

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

SIGNED at _____ on this ____ day of _____
20__

.....
SIGNATURE OF RESPONDENT'S AUTHORISED REPRESENTATIVE

NAME: _____

DESIGNATION: _____

REGISTERED NAME OF COMPANY:

PHYSICAL ADDRESS:

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

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

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

Section 4
VENDOR APPLICATION FORM

Respondents are to furnish the following documentation and complete the Vendor Application Form below:

1. **Original** cancelled cheque **OR** letter from the Respondent's bank verifying banking details [**with bank stamp**]
2. **Certified** copy of Identity Document(s) of Shareholders/Directors/Members [where applicable]
3. **Certified copies** of the relevant company registration documents from Companies and Intellectual Property Commission (CIPC)
4. **Certified copies** of the company's shareholding/director's portfolio
5. A letter on the company's letterhead confirm physical and postal addresses
6. **Original** valid SARS Tax Clearance Certificate
7. **Certified copy** of VAT Registration Certificate
8. **A valid and original** B-BBEE Verification Certificate / sworn affidavit **or certified copy** thereof meeting the requirements for B-BBEE compliance as per the B-BBEE Codes of Good Practice
9. **Certified copy** of valid Company Registration Certificate [if applicable]

Vendor Application Form

Company trading name						
Company registered name						
Company Registration Number or ID Number if a Sole Proprietor						
Form of entity [√]	CC	Trust	Pty Ltd	Limited	Partnership	Sole Proprietor
VAT number [if registered]						
Company telephone number						
Company fax number						
Company email address						
Company website address						
Bank name				Branch & Branch code		
Account holder				Bank account number		

Respondent's Signature

Date & Company Stamp

Postal address					
		Code			
Physical Address					
		Code			
Contact person					
Designation					
Telephone					
Email					
Annual turnover range [last financial year]	< R5 m		R5 - 35 m		> R35 m
Does your company provide	Products		Services		Both
Area of delivery	National		Provincial		Local
Is your company a public or private entity	Public			Private	
Does your company have a Tax Directive or IRP30 Certificate	Yes			No	
Main product or services [e.g. Stationery/Consulting]					

Complete B-BBEE Ownership Details:

% Black ownership		% Black women ownership		% Disabled Black ownership		% Youth ownership	
Does your entity have a B-BBEE certificate		Yes			No		
What is your B-BBEE status [Level 1 to 9 / Unknown]							
How many personnel does the entity employ		Permanent			Part time		

If you are an existing Vendor with Transnet please complete the following:

Transnet contact person	
Contact number	
Transnet Operating Division	

Duly authorised to sign for and on behalf of Company / Organisation:

Name		Designation	
Signature		Date	

SPECIMEN

Respondent's Signature

Date & Company Stamp

RFQ FOR THE PROVISION OF NATCOR OCCUPATIONS OPTIMISATION EVALUATION FOR A PERIOD OF 12 MONTHS

Section 5: CERTIFICATE OF ATTENDANCE OF RFQ BRIEFING

It is hereby certified that –

1. _____

2. _____

Representative(s) of _____ *[name of entity]*
attended the RFQ briefing in respect of the proposed Services to be rendered in terms of this RFQ on
_____ 20____

TRANSNET'S REPRESENTATIVE

RESPONDENT'S REPRESENTATIVE

DATE _____

DATE _____

EMAIL _____

**RFQ FOR THE PROVISION OF NATCOR OCCUPATIONS OPTIMISATION EVALUATION FOR A PERIOD
OF 12 MONTHS**

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 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;

- 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 **"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;
- 2.15 **"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;
- 2.16 **"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;
- 2.17 **"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
- 2.18 **"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 1 of the RFQ 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.

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

- 4.1 In terms of Regulation 5(2) and 6(2) 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

Note: Refer to Section 1 of the RFQ document for further information in terms of B-BBEE ratings.

- 4.2 Bidders who qualify as EMEs in terms of the B-BBEE Act 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 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.
- 4.4 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.
- 4.5 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.
- 4.6 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.
- 4.7 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.
- 4.8 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.

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 an Accounting Officer as contemplated in the Close Corporation Act.

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
 - Partnership/Joint Venture/Consortium
 - One person business/sole propriety
 - Close Corporations
 - Company (Pty) Ltd
 [TICK APPLICABLE BOX]

- (v) Describe Principal Business Activities

.....

.....

.....
.....
(vi) Company Classification

Manufacturer

Supplier

Professional Service Provider

Other Service Providers, e.g. Transporter, etc.

[TICK APPLICABLE BOX]

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

SPECIMEN

Respondent's Signature

Date & Company Stamp

RFQ FOR THE PROVISION OF NATCOR OCCUPATIONS OPTIMISATION EVALUATION**ANNEXURE B: PURPOSE, BACKGROUND AND SCOPE OF WORK****1. PURPOSE**

The purpose of this document is to provide the scope of work and project deliverables to determine the optimal rules for the planning of occupations on the Natcor, with the intent to maximise the available slot capacity. The aim is to maximise line capacity whilst still performing all the maintenance required.

2. BACKGROUND

Natcor is the Transnet Freight Rail GFB (General Freight Business) corridor between Gauteng and Durban that has been identified as a major growth corridor. A concept study was done to determine what capacity needs to be created to ensure that the predicted volume demand increases can be met. The corridor is expected to see growth from the current (2014) levels of 27 Mt p.a. to 105 Mt p.a. by 2043. As part of the study, various interventions were suggested to support this growth. First of these was to ensure current operations are running efficiently before injecting expansion capital.

One of the items identified for improvement was the availability of the rail network. Calculations from simulations showed that the practical capacity is not fully achieving the UIC guideline of 65% of theoretical capacity. Planned maintenance occupations play a major role in reducing line capacity, followed by temporary speed restrictions and technical/operational failures. Currently there is no clear guideline for the optimal implementation of track occupations in order to maximise the line slot capacity.

The intention is to evaluate various scenarios to assist in the optimising of maintenance planning with regards to its operational impact, but without reducing or changing the actual maintenance performed.

3. SCOPE AND DELIVERABLES

The scope for the provision of the "Natcor Occupation Optimisation Evaluation" will comprise of the following areas:

3.1 BASELINE SCOPE OF WORK

3.1.1 Build a complete reference model of the current Natcor corridor network (from City Deep to Booth).

- Use the model to establish a base case – the slot capacity without any occupations or disruptions, to determine maximum theoretical/design capacity and throughput times.
- Determine status quo slot capacity, considering existing infrastructure (intended design as well as current condition), operational and maintenance regimes, temporary speed restrictions and operational performance (network & rolling stock failures).

3.1.2 For all simulations, OpenTrack software shall be used, to ensure compatibility with Transnet Freight Rail's existing simulation models. The network parameters and occupation history for the model will be supplied. The network from approximately Rooikop to Booth has already

been modelled in OpenTrack and must be verified/refined as part of this project. The section from Rooikop to City Deep must be modelled as part of the project.

3.1.3 All trains are to be included, not just through-trains (i.e. trains joining to or departing from Natcor, or terminating/ originating partially though the corridor must be included). The Transnet Transportation Model (or TTM) must be used as input for the freight demand along the route. The supplier shall adjust the schedule as required in order to determine the maximum slot capacity on the Natcor.

3.1.4 Model the effect of removing or introducing pre-defined temporary speed restrictions (TSRs).

3.1.5 Model various options that would improve the annual rail network capacity, including:

- Not having all occupations start at the same time in daytime (i.e. some short time-duration occupations to start early and some to start much later);
- Having certain occupations at night when permissible;
- Moving some occupations from weekdays to weekends;
- A combination of the above, including the effect of pre-defined TSRs;
- Other options, including the effect of monthly and annual line shutdowns

3.1.6 These options must be tested with

1. the current train length regime.
2. the 75-wagon container train regime
3. the eventual 150-wagon /100-wagon regime of the LTPF (Long-Term Planning Framework).

3.1.7 Currently, the Northern Natcor (Rooikop – Newcastle) is constrained by the electrical power available, leading to a 20 min headway limitation in that section only. This will be the first option under which the scenarios will be tested. An expanded version of the existing train plan shall be used.

3.1.8 This major electrical constraint will be eliminated in ± 3 years' time with existing CAPEX projects. The model must then as a second scenario, be tested with an optimal train plan that only considers signalling headway limitations. This will be developed in an iterative manner, based on the demand growth as per the TTM.

3.1.9 The installation of block splits and/or crossovers to reduce headway is one of the planned interventions. The effect of this on the occupation impact must be tested as well. The locations proposed by Transnet for block split installation must be tested, and the results analysed and suggestions made. An analysis of bottlenecks will be required here. Any other subsequent sites where block split installation will increase slot capacity must then also be tested.

The table below summarises the scenarios that must be tested with the various options as per 3.1.5:

NO	Scenario	Scenario options			
		20 min headway limitation Rooskop- Newcastle	No electrical limitation	With TSR	Without TSR
1	Design: Current design train lengths without TSR, occupations or failures – theoretical/ideal case	X	X		X
2	As-is: Current as-is train lengths; existing maintenance & operational performance	X	X	X	X
3	Operational design (to-be): Current design train lengths, sample TSR & operational performance	X	X	X	
4	Block splits only: Current design train lengths with block splits	X	X	X	
5	75-wagon: Current design train lengths, but container trains @ 75 wagons	X	X	X	
6	Block splits & 75-wagon: Current design train lengths with block splits and container trains @ 75 wagons	x	X	X	
7	Block splits & 150-wagon: Current design train lengths with block splits and container trains @ 150 wagons		X	X	
8	All long trains: All trains with DP (i.e. 150-wagon container trains & 100-wagon general freight trains) and block splits		X	X	
9	CBTA (optional): Communication-Based Train Authorisation (or in-cab signalling) with reduced headways, 50-wagon trains (current design)		X	X	

- 3.1.1 The effect of longer trains on throughput and the impact of occupations thereon must also be tested, due to the longer time taken to clear the section.
- 3.1.2 In all cases, current & forecast PRASA (Metro and Shosholoza Meyl) schedules shall be used. The TFR schedules shall be optimised around this. For scenarios 6-8, the projected PRASA trains in 2040 shall be used.
- 3.1.3 For all solutions, the average daily throughput and run-time distribution of trains shall be the major output. A graphical (train diagram) view of the daily plans must be produced.
- 3.1.4 The optimised input files and results as well as any data preparation spreadsheets shall be provided to Transnet in such a manner that it can be used it with their own OpenTrack software.
- 3.1.5 Train power and speed profiles must be produced.

3.2 OPTIONAL SCOPE OF WORK

- 3.2.1 Building of network with CBTA and scenario analysis (Scenario 9 above).
- 3.2.2 High-level analysis of impact on maintenance organisation, including overtime, and recommendations. This must be done on scenario 3 (to-be design with new occupation rules) and scenario 6 (75-wagon container trains and extra block split signals) only

3.3 STUDY LIMITS

The study shall include the Natcor only. For this exercise, Natcor is defined as from City Deep to Booth. Traffic that enters into or departs from the Natcor must be included in the model.

3.4 DELIVERABLES

The following deliverables are required:

- 3.4.1 Verified and refined network model
- 3.4.2 Baseline report on Scenarios 1, 2 & 3, including the optimal occupation regime/rules
- 3.4.3 Report on scenarios 4 – 8, including the optimal occupation regime/rules
- 3.4.4 **Optional** deliverables:
 - 1. Build model for and run scenario 9 (CBTA), including the optimal occupation regime/rules
 - 2. A high level analysis on the impact of the proposed occupation rule changes on the maintenance organisation, including overtime effects (for scenarios 3 & 6).
- 3.4.5 Final report as well as presentation slides
- 3.4.6 Report and review, including at least five briefing sessions with stakeholders

3.4.7 For all deliverables, the following is required:

1. The various capacity and run-time results from the scenarios must be compared in a graphic format.
2. A train diagram view of each scenario shall be presented.
3. The input files for each scenario shall be provided in electronic format
4. As part of 3.4.5 (Review & acceptance), a report and set of presentations shall be provided. It will include the reasoning and assumptions made when optimising or de-bottlenecking various aspects of the system to arrive at an optimum plan for the various scenarios.
5. Updated input files where network changes were made. Together with 2 above, it must allow Transnet to use these files with OpenTrack as a base for further in-house exploration of options.
6. Interim results must be provided after scenario 1, in order for Transnet to validate the results from the model built.
7. The prime desired output from this study is a set of Rules to be developed for use in future occupation planning on the Natcor in order to optimise available capacity while all required maintenance is still performed.

4 DURATION

All deliverables should be completed within 6 months, where after a 3 month review period will follow, and a subsequent 3 month close-out period, giving a 12 month total project period.