

**Transnet Freight Rail**

an Operating Division of **TRANSNET SOC LTD**

[hereinafter referred to as **Transnet**]

Registration Number 1990/000900/30

**REQUEST FOR QUOTATION [RFQ] No ERACKM-FDT-36334**

**FOR THE PROVISION OF: OVERVAAL TUNNEL STRUCTURAL HEALTH MONITORING AT  
ERMELO DEPOT FOR A PERIOD OF SIX (06) MONTHS**

**FOR DELIVERY TO: ERMELO**

**ISSUE DATE: 18 JANUARY 2022**

**BRIEFING DATE: 01 FEBRUARY 2022**

**BRIEFING VENUE: BOARDROOM 37  
22 INDUSTRIA AVENUE  
ERMELO  
2351**

**BRIEFING TIME: 11:00 AM**

**CLOSING DATE: 10 FEBRUARY 2022**

**CLOSING TIME: 10:00 AM**

**VALIDITY: 30 JUNE 2022 (90 WORKING DAYS)**

**SECTION 1: SBD1 FORM****PART A****INVITATION TO BID**

<b>YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF TRANSNET FREIGHT RAIL, A DIVISION TRANSNET SOC LTD</b>							
BID NUMBER:	<b>ERACKM-FDT-36334</b>	ISSUE DATE:	<b>18 JAN 2022</b>	CLOSING DATE:	<b>10 FEB 2022</b>	CLOSING TIME:	<b>10:00 AM</b>
DESCRIPTION	<b>FOR THE PROVISION OF: OVERVAAL TUNNEL STRUCTURAL HEALTH MONITORING AT ERMELO DEPOT FOR A PERIOD OF SIX (06) MONTHS</b>						
<b>BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)</b>							
THE SECRETARIAT							
TRANSNET ACQUISITION COUNCIL							
GROUND FLOOR (FOYER),							
NZASM BUILDING,							
CORNER OF PAUL KRUGER AND MINNAAR STREET							
PRETORIA, 0001							
<b>BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO</b>				<b>TECHNICAL ENQUIRIES MAY BE DIRECTED TO:</b>			
CONTACT PERSON	<b>Makabelo Motoko</b>			CONTACT PERSON	<b>Thula Khathi</b>		
TELEPHONE NUMBER	<b>012 315 4123</b>			TELEPHONE NUMBER	<b>017 801 2174</b>		
FACSIMILE NUMBER	<b>N/a</b>			FACSIMILE NUMBER	<b>N/a</b>		
E-MAIL ADDRESS	<a href="mailto:Makabelo.Motoko@transnet.net">Makabelo.Motoko@transnet.net</a>			E-MAIL ADDRESS	<a href="mailto:Thula.Khathi@transnet.net">Thula.Khathi@transnet.net</a>		
<b>SUPPLIER INFORMATION</b>							
NAME OF BIDDER							
POSTAL ADDRESS							
STREET ADDRESS							
TELEPHONE NUMBER	CODE				NUMBER		
CELLPHONE NUMBER							
FACSIMILE NUMBER	CODE				NUMBER		
E-MAIL ADDRESS							
VAT REGISTRATION NUMBER							
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		<b>OR</b>	CENTRAL SUPPLIER DATABASE	UNIQUE REGISTRATION REFERENCE NUMBER: MAAA		
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT		[TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No		
<b>[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES &amp; QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]</b>							

<p><b>1</b> ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?</p> <p><input type="checkbox"/>Yes <input type="checkbox"/>No</p> <p>[IF YES ENCLOSE PROOF]</p>		<p><b>2</b> ARE YOU A FOREIGN BASED SUPPLIER FOR <b>THE GOODS /SERVICES /WORKS OFFERED?</b></p> <p><input type="checkbox"/>Yes <input type="checkbox"/>No</p> <p>[IF YES, ANSWER QUESTIONNAIRE BELOW]</p>	
---	--	---	--

**QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS**

IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?  YES  NO

DOES THE ENTITY HAVE A BRANCH IN THE RSA?  YES  NO

DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?  
 YES  NO

DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?  
 NO  YES  NO

IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?  YES  NO

**IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 1.3 BELOW.**

## PART B TERMS AND CONDITIONS FOR BIDDING

1. TAX COMPLIANCE REQUIREMENTS	
1.1	BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
1.2	BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
1.3	APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
1.4	BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
1.5	IN BIDS WHERE UNINCORPORATED CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
1.6	WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.

**NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.**

SIGNATURE OF BIDDER: .....

CAPACITY UNDER WHICH THIS BID IS SIGNED: .....

(Proof of authority must be submitted e.g. company resolution)

DATE: \_\_\_\_\_

## SECTION 2: NOTICE TO BIDDERS

### 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.

<b>DESCRIPTION</b>	For the Provision of Overvaal Tunnel Structural Health Monitoring at Ermelo Depot for a Period of Six (06) Months
<b>RFQ DOWNLOADING</b>	<p>This RFQ may be downloaded directly from National Treasury's e-Tender Publication Portal at <a href="mailto:etenders@treasury.gov.za">etenders@treasury.gov.za</a> free of charge.</p> <p>To download RFQ and Annexures:</p> <ul style="list-style-type: none"> <li>• Click on "Tender Opportunities";</li> <li>• Select "Advertised Tenders";</li> <li>• In the "Department" box, select Transnet SOC Ltd;</li> </ul> <p>Once the tender has been located in the list, click on the "Tender documents" tab and process to download all uploaded documents.</p> <p>Alternatively, this bid may be downloaded directly from the Transnet Freight Rail website at (<a href="http://www.transnetfreightrail-tfr.net/Supplier/Pages/Tenders.aspx">http://www.transnetfreightrail-tfr.net/Supplier/Pages/Tenders.aspx</a>) free of charge.</p> <p>Alternatively, this RFQ may be purchased at R100 (inclusive of VAT) per set for those bidders that require a hard copy from Transnet.</p> <p>Payment is to be made as follows:  Account Name: Transnet Freight Rail  Account: Standard Bank  Account number: 203158598  Branch code: 004805  Reference: ERACKM-FDT-36334</p> <p>NOTE – This amount is not refundable. A receipt for such payment made must be presented when collecting the RFQ documents and submitted thereafter with your Proposal.</p>
<b>COMMUNICATION</b>	<p>Any addenda to the RFQ or clarifications will be published on the e-tender portal. Bidders are required to check the e-tender portal prior to finalising their bid submissions for any changes or clarifications to the RFQ.</p> <p>Transnet will not be held liable if Bidders do not receive the latest information regarding this RFQ with the possible consequence of either being disadvantaged or disqualified as a result thereof.</p>
<b>ISSUE AND COLLECTION DATE DEADLINE</b>	<p>Bidders are to note that the RFQ documents will be available for download from <b>18 January 2022</b> or may be collected between 09:00 am and 03:00 pm from <b>18 January 2022</b> until <b>31 January 2022</b></p> <p>Bidders wishing to collect a CD, USB or hard copy of such RFQ documents from the Transnet issuing office, are required to inform that office at the contact details indicated below on the day before collection in order to allow for timeous reproduction of the documentation.</p> <p>Name: Dudu Mkhwebane  The Secretariat  Transnet Acquisition Council  Ground Floor (Foyer),  Nzasm Building,  Corner of Paul Kruger and Minnaar Street  Pretoria, 0001</p>
<b>BRIEFING SESSION</b>	Compulsory

## 2 Formal Briefing

A compulsory pre-proposal site meeting and/or RFQ briefing will be conducted at **Boardroom 37, 22 Industria Avenue, Ermelo, 2351** on the **01 February 2022**, at **11:00 AM** for a period of  $\pm$  1 hour. [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 9** hereto must be completed and submitted with your Proposal as proof of attendance is required for a **compulsory** site meeting and/or RFQ briefing.*
- 2.2 Respondents failing to attend the compulsory RFQ briefing will be disqualified.
- 2.3 Respondents are encouraged to bring a copy of the RFQ to the site meeting and/or RFQ briefing.
- 2.4 Bidders are required to confirm their attendance and to send their contact details including the number of representatives (where applicable) to the following address: [Makabelo.Motokoa@transnet.net](mailto:Makabelo.Motokoa@transnet.net). This is to ensure that Transnet may make the necessary arrangements for the briefing session.

N.B: DUE TO THE RESTRICTIONS THAT HAVE BEEN PUT IN PLACE BY THE SOUTH AFRICAN GOVERNMENT WITH REGARDS TO COVID-19 PANDEMIC TRANSNET FREIGHT RAIL WILL ENSURE THAT THE FOLLOWING RESTRICTIONS ARE ADHERED TO:

- MAXIMUM OF 50 PEOPLE PER GATHERING (WHERE MORE THAN 50 PEOPLE ATTENDING, TWO SESSIONS WILL)
- WEARING OF MASK (every person entering TFR premises must have a mask on)
- WEARING OF PPE (every person who will be attending the briefing session must have their own PPE)
- SCREENING (every person entering TFR premises will be screened)
- PRACTICING SOCIAL DISTANCING

## 3 Communication

- 3.1 Specific queries relating to this RFQ before the closing date of the RFQ should be submitted to **Makabelo Motokoa** before **15:00 pm on 04 February 2022**. In the interest of fairness and transparency Transnet's response to such a query will then be made available to other bidders.
- 3.2 It is prohibited for Respondents to attempt, either directly or indirectly, to canvass any officer or employee of Transnet in respect of this RFQ between the closing date and the date of the award of the business.
- 3.3 Respondents found to be in collusion with one another will be automatically disqualified and restricted from doing business with organs of state for a specified period.
- 3.4 Respondents may also, at any time after the closing date of the RFQ, communicate with the name of delegated individual on any matter relating to its RFQ response:

Telephone (0027) 11 584 0821

Email: [Prudence.Nkabinde@transnet.net](mailto:Prudence.Nkabinde@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 Employment Equity Act

Respondents must comply with the requirements of the Employment Equity Act 55 of 1998 applicable to it including (but not limited to) Section 53 of the Employment Equity Act.

## 6 Changes to Quotations

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

## 7 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.

## 8 Disclaimers

8.1 Respondents are hereby advised that 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;
- place an order in connection with this Quotation at any time after the RFQ's closing date;
- award only a portion of the proposed goods / services which are reflected in the scope of this RFQ;
- split the award of the order/s between more than one Supplier/Service Provider should it at Transnet's discretion be more advantageous in terms of, amongst others, cost or developmental considerations;
- cancel the quotation process;
- validate any information submitted by Respondents in response to this bid. This would include, but is not limited to, requesting the Respondents to provide supporting evidence. By submitting a bid, Respondents hereby irrevocably grant the necessary consent to Transnet to do so;
- request audited financial statements or other documentation for the purposes of a due diligence exercise;
- not accept any changes or purported changes by the Respondent to the bid rates after the closing date and/or after the award of the business, unless the contract specifically provides for it;
- to cancel the contract and/request that National Treasury place the Respondent on its Database of Restricted Suppliers for a period not exceeding 10 years, on the basis that a contract was awarded on the strength of incorrect information furnished by the Respondent or on any other basis recognised in law;
- award the business to the next ranked bidder, provided that he/she is still prepared to provide the required Goods/Services at the quoted price, should the preferred bidder fail to sign or commence with the contract within a reasonable period after being requested to do so. Under such circumstances, the validity of the bids of the next ranked bidder(s) will be deemed to remain valid, irrespective of whether the next ranked bidder(s) were issued with a Letter of Regret. Bidders may therefore be requested to advise whether they would still be prepared to provide the required Goods/Services at their quoted price, even after they have been issued with a Letter of Regret.

## **9 Specification/Scope of Work**

**Refer to Annexure A and Appendix A, B & C**

## **10 Legal review**

A Proposal 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.

## **11 Security clearance**

Acceptance of this bid could be subject to the condition that the Successful Respondent, its personnel providing the goods and its subcontractor(s) must obtain security clearance from the appropriate authorities to the level of CONFIDENTIAL/ SECRET/TOP SECRET. Obtaining the required clearance is the responsibility of the Successful Respondent. Acceptance of the bid is also subject to the condition that the Successful Respondent will implement all such security measures as the safe performance of the contract may require.

## **12 National Treasury's Central Supplier Database**

Respondents are required to self-register on National Treasury's Central Supplier Database (CSD) which has been established to centrally administer supplier information for all organs of state and facilitate the verification of certain key supplier information. Transnet is required to ensure that price quotations are invited and accepted from prospective bidders listed on the CSD. Business may not be awarded to a respondent who has failed to register on the CSD. Only foreign suppliers with no local registered entity need not register on the CSD. The CSD can be accessed at <https://secure.csd.gov.za/>.

**For this purpose, the attached SBD 1 Form must be completed and submitted as a mandatory returnable document by the closing date and time of the bid.**

## **13 Tax Compliance**

Respondents must be compliant when submitting a proposal to Transnet and remain compliant for the entire contract term with all applicable tax legislation, including but not limited to the Income Tax Act, 1962 (Act No. 58 of 1962) and Value Added Tax Act, 1991 (Act No. 89 of 1991).

It is a condition of this bid that the tax matters of the successful Respondents be in order, or that satisfactory arrangements have been made with South African Revenue Service (SARS) to meet the Respondents tax obligations.

The Tax Compliance status requirements are also applicable to foreign Respondents/ individuals who wish to submit bids.

Where Consortia / Joint Ventures / Sub-contractors are involved, each party must be registered on the Central Supplier Database and their tax compliance status will be verified through the Central Supplier Database.

**Transnet urges its clients, suppliers and the general public to report any fraud or corruption to**

**TIP-OFFS ANONYMOUS:**

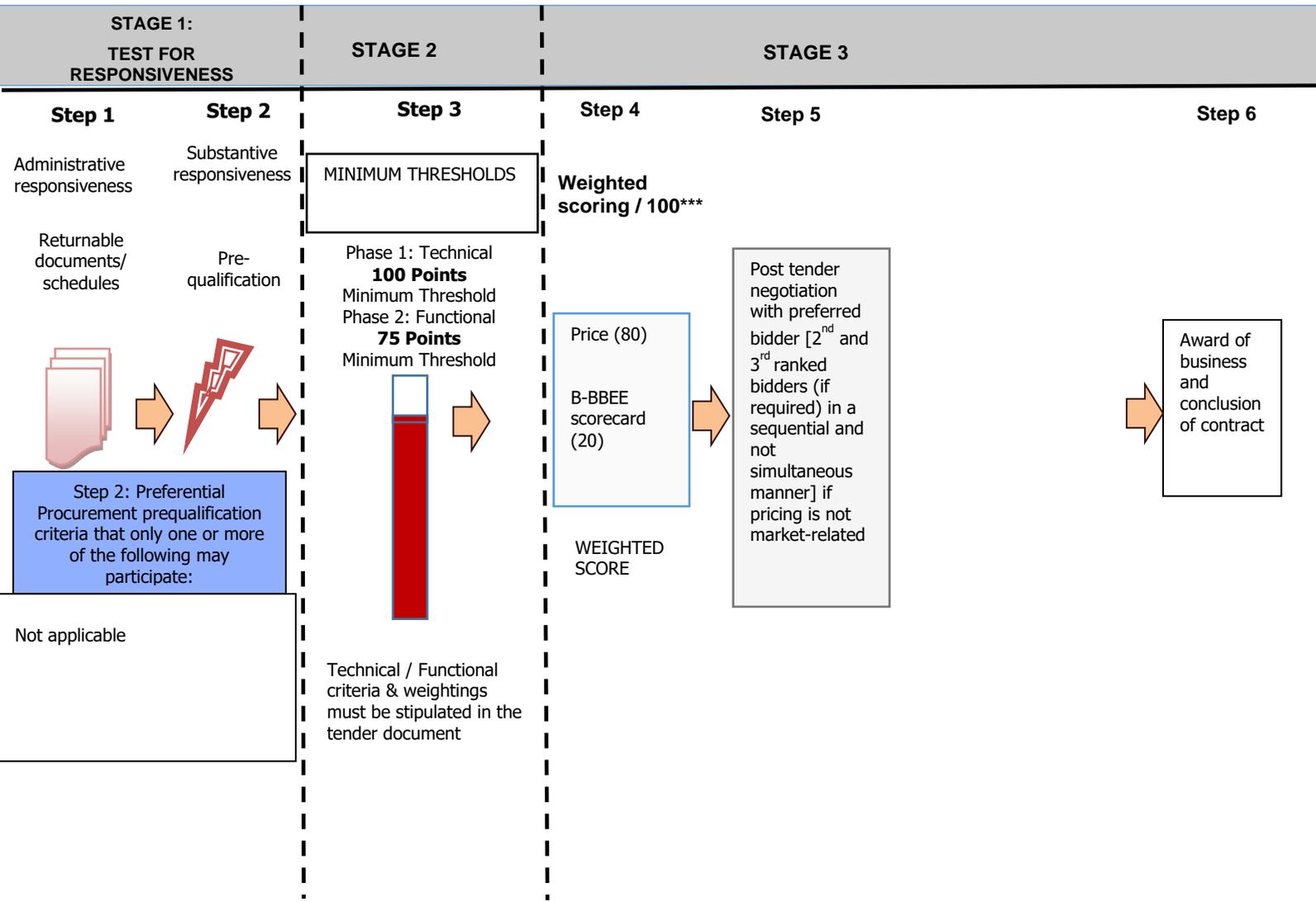
  
**You can choose to be Anonymous or Non-Anonymous on ANY of the platforms**  
**PLEASE RETAIN YOUR REFERENCE NUMBER**

				
	<p><b>AI Voice Bot "Jack"</b> Speak to our AI Voice Chat Bot "JACK", you converse with him like chatting to a human, with the option to record a message and speak to an agent at anytime.</p>	<p><b>What's App</b> Speak to an Agent via What's App.</p>	<p><b>Speak to an Agent</b> Speak to an Agent via the platform with no call or data charge</p>	<p><b>Telegram</b> Speak to an Agent via Telegram</p>
 <b>0800 003 056</b>	 <b>086 551 4153</b>	 <b>reportit@ethicshelpdesk.com</b>	 <b>*120*0785980808#</b>	

## SECTION 3 EVALUATION METHODOLOGY, CRITERIA AND RETURNABLE DOCUMENTS

### 1 Evaluation Criteria

Transnet will utilise the following methodology and criteria in selecting a preferred Supplier/Service provider:



**1.1 STEP ONE: Test for Administrative Responsiveness**

The test for administrative responsiveness will include the following:

<b>Administrative responsiveness check</b>	<b>RFQ Reference</b>
<ul style="list-style-type: none"> <li>Whether the Bid has been lodged on time</li> </ul>	
<ul style="list-style-type: none"> <li>Whether all Returnable Documents and/or schedules [where applicable] were completed and returned by the closing date and time</li> </ul>	<i>Section 3</i>
<ul style="list-style-type: none"> <li>Verify the validity of all returnable documents</li> </ul>	<i>Section 3</i>
<ul style="list-style-type: none"> <li>Verify if the Bid document has been duly signed by the authorised respondent</li> </ul>	<i>All sections</i>

***The test for administrative responsiveness [Step One] must be passed for a Respondent's Proposal to progress to Step Two for further pre-qualification***

**1.2 STEP TWO: Test for Substantive Responsiveness to RFQ**

The test for substantive responsiveness to this RFQ will include the following:

<b>Check for substantive responsiveness</b>	<b>RFQ Reference</b>
<ul style="list-style-type: none"> <li>Whether the Bid contains a priced offer, fully completed quotation form</li> </ul>	<i>Section 4 - Quotation Form</i>
<ul style="list-style-type: none"> <li>SBD1 Form</li> </ul>	
<ul style="list-style-type: none"> <li>Proof of CSD</li> </ul>	
<ul style="list-style-type: none"> <li>Proof of Attendance of Compulsory Briefing Session (signed certificate and/or attendance register)</li> </ul>	

***The test for substantive responsiveness [Step Two] must be passed for a Respondent's proposal to progress to Step Three for further evaluation***

**1.3 STEP THREE:****Phase 1: Minimum Threshold 100 points for Technical Criteria – Annexure B**

The test for the Technical threshold will include the following: - respondents must complete and submit documents as per **Annexure B**.

<b>Technical Evaluation Criteria</b>	<b>Points Weightings</b>	<b>Scoring guideline (0 to 5) Refer annexure B</b>
100 % completed clause by clause and is compliant to project specification – Annexure A	100	
<b>Total Weighting:</b>	<b>100</b>	
<b>Minimum qualifying score required:</b>	100	

**Phase 2: Minimum Threshold 75 points for Functional Criteria – Annexure B**

The test for the Function all thresholds will include the following: - respondents must complete and submit documents as per **Annexure B**.

Technical Evaluation Criteria	Points Weightings	Scoring guideline (0 to 5) Refer Annexure B
Delivery lead times	25	
Experience in Structural Condition Assessment and Monitoring,	15	
Management Arrangements and CV's	10	
Method Statement	15	
Quality Plan	15	
Risk Management Plan	10	
Health and Safety Plan	10	
<b>Total Weighting:</b>	<b>100</b>	
<b>Minimum qualifying score required:</b>	75	

Respondents are to note that Transnet will round off final technical scores to the nearest 2 (two) decimal places for the purposes of determining whether the technical threshold has been met.

***The minimum threshold for technical/functionality [Step Three] must be met or exceeded for a Respondent's Proposal to progress to Step Four for final evaluation***

**1.4 STEP FOUR: Evaluation and Final Weighted Scoring**

a) **Price Criteria** [Weighted score 80 points]:

Evaluation Criteria	RFQ Reference
• Commercial offer	Section 4

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

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

Where:

- $P_s$  = Score for the Bid under consideration  
 $P_t$  = Price of Bid under consideration  
 $P_{\min}$  = Price of lowest acceptable Bid

- b) **Broad-Based Black Economic Empowerment criteria** [Weighted score 20 points]
- B-BBEE - current scorecard / B-BBEE Preference Points Claims Form
  - Preference points will be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table indicated in Section 7.4.1 of the B-BBEE Preference Points Claim Form.

### **1.5 STEP FIVE: Post Tender Negotiations (if applicable)**

- Respondents are to note that Transnet may not award a contract if the price offered is not market-related. In this regard, Transnet reserves the right to engage in PTN with the view to achieving a market-related price or to cancel the tender. Negotiations will be done in a sequential manner i.e.:
  - first negotiate with the highest ranked bidder or cancel the bid, should such negotiations fail,
  - negotiate with the 2nd and 3rd ranked bidders (if required) in a sequential manner.
- In the event of any Respondent being notified of such short-listed/preferred bidder status, his/her bid, as well as any subsequent negotiated best and final offers (BAFO), will automatically be deemed to remain valid during the negotiation period and until the ultimate award of business.
- Should Transnet conduct post tender negotiations, Respondents will be requested to provide their best and final offers to Transnet based on such negotiations. Where a market related price has been achieved through negotiation, the contract will be awarded to the successful Respondent(s).

### **1.6 STEP SIX: Award of business and conclusion of contract**

- Immediately after approval to award the contract has been received, the successful or preferred bidder(s) will be informed of the acceptance of his/their Quotation by way of a Letter of Award. Thereafter the final contract will be concluded with the successful Respondent(s).
- Otherwise, a final contract will be concluded and entered into with the successful Bidder at the acceptance of a letter of award by the Respondent.

## **2 Validity Period**

Transnet requires a validity period of 90 [ninety] Business Days [**30 June 2022**] from the closing date of this RFQ, excluding the first day and including the last day.

Bidders are to note that they may be requested to extend the validity period of their bid, on the same terms and conditions, if the internal evaluation process has not been finalised within the validity period. However, once the adjudication body has approved the process and award of the business to the successful bidder(s), the validity of the successful bidder(s)' bid will be deemed to remain valid until a final contract has been concluded.

## **3 Disclosure of contract information**

### **Prices Quoted**

Respondents are to note that, on award of business, Transnet is required to publish the tendered prices and preferences claimed of the successful and unsuccessful Respondents *inter alia* on the National Treasury e-Tender Publication Portal, ([www.etenders.gov.za](http://www.etenders.gov.za)), as required per National Treasury Instruction Note 01 of 2015/2016.

**Johannesburg Stock Exchange Debt Listing Requirements**

Transnet may also be required to disclose information relating to the subsequent contract i.e. the name of the company, goods/services provided by the company, the value and duration of the contract, etc. in compliance with the Johannesburg Stock Exchange (JSE) Debt Listing Requirements.

**Domestic Prominent Influential Persons (DPIP) OR Foreign Prominent Public Officials (FPPO)**

Transnet is free to procure the services of any person within or outside the Republic of South Africa in accordance with applicable legislation. Transnet shall not conduct or conclude business transactions, with any Respondents without having:

- Considered relevant governance protocols;
- Determined the DPIP or FPPO status of that counterparty; and
- Conducted a risk assessment and due diligence to assess the potential risks that may be posed by the business relationship.

As per the Transnet Domestic Prominent Influential Persons (DPIP) and Foreign Prominent Public Officials (FPPO) and Related Individuals Policy available on Transnet website <https://www.transnet.net/search/pages/results.aspx?k=FPIDP#k=DPIP>, Respondents are required to disclose any commercial relationship with a DPIP or FPPO (as defined in the Policy) by completing the following section:

The below form contains personal information as defined in the Protection of Personal Information Act, 2013 (the "Act"). By completing the form, the signatory consents to the processing of her/his personal information in accordance with the requirements of the Act. Consent cannot unreasonably be withheld.						
<b>Is the Respondent</b> (Complete with a "Yes" or "No")						
<b>A DPIP/FPPO</b>		<b>Closely Related to a DPIP/FPPO</b>		<b>Closely Associated to a DPIP/FPPO</b>		
<b>List all known business interests, in which a DPIP/FPPO may have a direct/indirect interest or significant participation or involvement.</b>						
No	Name of Entity / Business	Role in the Entity / Business (Nature of interest/ Participation)	Shareholding %	Registration Number	Status (Mark the applicable option with an X)	
					Active	Non-Active
1						
2						
3						

Respondents declaring a commercial relationship with a DPIP or FPPO are to note that Transnet is required to annually publish on its website a list of all business contracts entered into with DPIP or FPPO. This list will include successful Respondents, if applicable.

**4 Returnable Documents**

**Returnable Documents** means all the documents, Sections and Annexures, as listed in the tables below. There are three types of returnable documents as indicated below and Respondents are urged to ensure that these documents are returned with their bids based on the consequences of non-submission as indicated below:

Mandatory Returnable Documents	<b><i>Failure to provide all these Mandatory Returnable Documents at the Closing Date and time of this RFQ <u>will</u> result in a Respondent’s disqualification.</i></b>
Returnable Documents Used for Scoring	<b><i>Failure to provide all Returnable Documents used for purposes of scoring a bid, by the closing date and time of this bid will not result in a Respondent’s disqualification. However, Bidders will receive an automatic score of zero for the applicable evaluation criterion.</i></b>
Essential Returnable Documents	<b><i>Failure to provide essential Returnable Documents <u>will</u> result in Transnet affording Respondents a further opportunity to submit by a set deadline. Should a Respondent thereafter fail to submit the requested documents, this may result in a Respondent’s disqualification.</i></b>

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

**a) Mandatory Returnable Documents**

Respondents are required to submit with their bid submissions the following **Mandatory Returnable Documents**, and also to confirm submission of these documents by so indicating [Yes or No] in the tables below:

<b>Mandatory Returnable Documents</b>	<b>Submitted [Yes or No]</b>
SECTION 1: SBD1 Form	
SECTION 4: Quotation Form	
Proof of CSD	
SECTION 9: Certificate of attendance of compulsory Site Meeting / RFQ Briefing (Proof)	

**b) Returnable Documents Used for Scoring**

In addition to the requirements of section (a) above, Respondents are further required to submit with their Proposals the following **Returnable Documents Used for Scoring** and also to confirm submission of these documents by so indicating [Yes or No] in the table below:

<b>RETURNABLE DOCUMENTS USED FOR SCORING</b>		<b>SUBMITTED [Yes or No]</b>
Valid proof of Respondent's compliance to B-BBEE requirements stipulated in Section 7 of this RFQ.		
100 % completed clause by clause and is compliant to project specification – Annexure A		
Technical Responsiveness	Timeframe required for the tunnel Condition Assessment and Monitoring	
	Experience in Structural Condition Assessment and Monitoring	
	Management Arrangements and CV's of key person	
	Method Statement	
	Quality Plan	
	Risk Management Plan	
	Health and Safety Plan	

**c) Essential Returnable Documents:**

Over and the above the requirements of section (a) and (b) mentioned above, Respondents are further required to submit with their Proposals the following **Essential Returnable Documents** and also to confirm submission of these documents by so indicating [Yes or No] in the table below:

<b>ESSENTIAL RETURNABLE DOCUMENTS &amp; SCHEDULES</b>	<b>SUBMITTED [Yes or No]</b>
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	
SECTION 5: Certificate of Acquaintance with RFQ Documents	
SECTION 6: RFQ Declaration and Breach of Law Form	
SECTION 7: B-BBEE Preference Claim Form	
SECTION 8: SBD 9 - Certificate Of Independent Bid Determination	
SECTION 10: Protection of Personal Information	

**5 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 valid proof of B-BBEE status, 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 immediately without any liability and without prejudice to any claims which Transnet may have for damages against the Respondent.

## **SECTION 4**

### **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 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/services required, on a "delivered nominated destination" basis, including VAT:

Item No	Description of Item	Unit	Quantity	Rate	TOTAL PRICE OF ITEM [ZAR]	
1	ShapeArray Data Acquisition Systems	Each	2	R	R	
2	Printed circuit board	Each	22	R	R	
3	MCP3008-I/P converter	Each	22	R	R	
4	<b>Condition Monitoring:</b>	Monthly report	Months	6	R	R
		Weather monitoring	Months	6	R	R
		Vibration monitoring	Months	6	R	R
		Tunnel convergence measurement	Months	6	R	R
		Fissuro-logger	Months	6	R	R
		Levelling	Months	6	R	R
5	SHAPE/ARCH DEFORMATION, Tunnel section continuous monitoring on specific profile (SAAF)	Months	6	R	R	
6	"SLAB TRACK MOVEMENT, long range measurement"	Months	6	R	R	
<b>TOTAL PRICE, exclusive of VAT:</b>					<b>R</b>	
<b>VAT 15% (if applicable)</b>					<b>R</b>	
<b>Unconditional Discount(s)</b>					<b>R</b>	
<b>Total Inclusive of VAT (where applicable)</b>					<b>R</b>	

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

*Respondents are to note that Transnet will round off final pricing scores to the nearest 2 (two) decimal places.*

**Notes to Pricing:**

- a) Respondents are to note that if the price offered by the highest scoring bidder is not market-related, Transnet may not award the contract to that Respondent. Transnet may-
- (i) negotiate a market-related price with the Respondent scoring the highest points or cancel the RFQ;
  - (ii) if that Respondent does not agree to a market-related price, negotiate a market-related price with the Respondent scoring the second highest points or cancel the RFQ;
  - (iii) if the Respondent scoring the second highest points does not agree to a market-related price, negotiate a market-related price with the Respondent scoring the third highest points or cancel the RFQ.

If a market-related price is not agreed with the Respondent scoring the third highest points, Transnet must cancel the RFQ.

- b) All Prices must be quoted in South African Rand, inclusive of VAT
- c) Any disbursement not specifically priced for will not be considered/accepted by Transnet.
- d) 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 will result in a bid being disqualified.
- e) 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.

**SECTION 5  
CERTIFICATE OF ACQUAINTANCE WITH RFQ DOCUMENTS**

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

1. Transnet's General Bid Conditions
2. Standard RFQ Terms and Conditions for the supply of Goods or Services to Transnet
3. Transnet's Supplier Integrity Pact
4. Non-disclosure Agreement

**Note:** Should a Respondent be successful and awarded the bid, they will be required to complete a Supplier Declaration Form for registration as a vendor onto the Transnet vendor master database.

Should the Bidder find any terms or conditions stipulated in any of the relevant documents quoted in the RFQ 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. A material deviation from the Standard terms or conditions could result in disqualification.

Bidders accept that an obligation rests on them to clarify any uncertainties regarding any bid to which they intend to respond, before submitting the bid. The Bidder agrees that he/she will have no claim or cause of action based on an allegation that any aspect of this RFQ was unclear but in respect of which he/she failed to obtain clarity.

The bidder understands that his/her Bid will be disqualified if this Certificate of Acquaintance with RFQ documents included in the RFQ as a returnable document, is found not to be true and/ or complete in every respect.

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: \_\_\_\_\_

**SECTION 6****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 all relevant information relevant to the Supply of the Goods as well as Transnet information and Employees, and have 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 have complied with all obligations of the Bidder/Supplier as indicated in the Transnet Supplier Integrity Pact which includes but are not limited to ensuring that we take all measures necessary to prevent corrupt practices, unfairness and illegal activities in order to secure or in furtherance to secure a contract with Transnet;
6. 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;
7. 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 Transnet including any person who may be involved in the evaluation and/or adjudication of this Bid;
8. 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;
9. In addition, we declare that an owner / member / director / partner / shareholder/employee of our entity **has / has not been** [delete as applicable] a former employee or board member of Transnet in the past 10 years. I further declare that if they were a former employee or board member of Transnet in the past 10 years that they **were/were not** involved in the bid preparation or had access to the information related to this RFQ; and
10. If such a relationship as indicated in paragraph 7, 8 and/or 9 exists, the Respondent is to complete the following section:

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

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]. Information provided in the declarations may be used by Transnet and/or its affiliates to verify the correctness of the information provided.***

11. 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.

**DECLARATION OF INTEREST REGARDING PERSONS EMPLOYED BY THE STATE (SBD4)**

12. Any legal person, including persons employed by the state<sup>1</sup>, or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid (includes a price quotation, advertised competitive bid, limited bid or proposal). In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority where-

- the bidder is employed by the state; and/or
- the legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the bid(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.

**13. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid:**

13.1. Full Name of bidder or his or her representative: .....

13.2. Identity Number: .....

<sup>1</sup> "State" means –

- (a) any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);
- (b) any municipality or municipal entity;
- (c) provincial legislature;
- (d) national Assembly or the national Council of provinces; or
- (e) Parliament.

13.3. Position occupied in the Company (director, trustee, shareholder<sup>2</sup>): .....

13.4. Company Registration Number: .....

13.5. Tax Reference Number: .....

13.6. VAT Registration Number: .....

13.7. Are you or any person connected with the bidder presently employed by the state?	<b>YES / NO</b>
13.7.1. If so, furnish the following particulars:	
Name of person / director / trustee / shareholder/ member:	.....
Name of state institution at which you or the person connected to the bidder is employed :	.....
Position occupied in the state institution:	.....
Any other particulars:	.....
13.8. If you are presently employed by the state, did you obtain the appropriate authority to undertake remunerative work outside employment in the public sector?	<b>YES / NO</b>
13.8.1. If yes, did you attached proof of such authority to the bid document? (Note: Failure to submit proof of such authority, where applicable, may result in the disqualification of the bid.	<b>YES / NO</b>
13.8.2. If no, furnish reasons for non-submission of such proof:	.....
13.9. Did you or your spouse, or any of the company's directors / trustees / shareholders / members or their spouses conduct business with the state in the previous twelve months?	<b>YES / NO</b>
13.9.1. If so, furnish particulars:	.....
13.10. Do you, or any person connected with the bidder, have any relationship (family, friend, other) with a person employed by the state and who may be involved with the evaluation and or adjudication of this bid?	<b>YES / NO</b>
13.10.1. If so, furnish particulars:	.....
13.11. Are you, or any person connected with the bidder, aware of any relationship (family, friend, other) between any other bidder and any person employed by the state who may be involved with the evaluation and or adjudication of this bid?	<b>YES / NO</b>
13.11.1. If so, furnish particulars:	.....
13.12. Do you or any of the directors / trustees / shareholders / members of	<b>YES / NO</b>

<sup>2</sup> "Shareholder" means a person who owns shares in the company and is actively involved in the management of the enterprise or business and exercises control over the enterprise.

the company have any interest in any other related companies whether or not they are bidding for this contract?	
13.12.1. If so, furnish particulars:	.....

The names of all directors / trustees / shareholders / members, their individual identity numbers, tax reference numbers and, if applicable, employee / persal numbers must be indicated in paragraph 14 below.

**14. Full details of directors / trustees / members / shareholders.**

Full Name	Identity Number	Personal Tax Reference Number	State Employee Number / Persal Number

**BREACH OF LAW**

15. 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 _____

\_\_\_\_\_  
Respondent's Signature

\_\_\_\_\_  
Date & Company Stamp

**SECTION 7****B-BBEE PREFERENCE POINTS CLAIM FORM**

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

Transnet will award preference points to companies who provide valid proof of their B-BBEE status using either the latest version of the generic Codes of Good Practice or Sector Specific Codes (if applicable).

**NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.**

**1. GENERAL CONDITIONS**

1.1 The following preference point systems are applicable to all bids:

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

1.2 The value of this bid is estimated to **exceed** R50 000 000 (all applicable taxes included) and therefore the 80/20 preference point system shall be applicable. Despite the stipulated preference point system, Transnet shall use the lowest acceptable bid to determine the applicable preference point system in a situation where all received acceptable bids are received outside the stated preference point system.

1.3 Either the 80/20 preference point system will be applicable to this tender.

1.4 Preference points for this bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contribution.

1.5 The maximum points for this bid are allocated as follows:

	<b>POINTS</b>
<b>PRICE</b>	<b>80</b>
<b>B-BBEE STATUS LEVEL OF CONTRIBUTOR</b>	<b>20</b>
<b>Total points for Price and B-BBEE must not exceed</b>	<b>100</b>

1.6 Failure on the part of a bidder to submit proof of B-BBEE status level of contributor together with the bid will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

1.7 The purchaser 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 the purchaser.

**2. DEFINITIONS**

- (a) **"all applicable taxes"** includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;
- (b) **"B-BBEE"** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (c) **"B-BBEE status level 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;

- (d) **"bid"** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the supply/provision of services, works or goods, through price quotations, advertised competitive bidding processes or proposals;
- (e) **"Broad-Based Black Economic Empowerment Act"** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (f) **"EME"** means an Exempted Micro Enterprise as defines by Codes of Good Practice under section 9 (1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (g) **"functionality"** means the ability of a bidder to provide goods or services in accordance with specification as set out in the bid documents;
- (h) **"Price"** includes all applicable taxes less all unconditional discounts.
- (i) **"Proof of B-BBEE Status Level of Contributor"** means:
- 1) B-BBBEE status level certificate issued by an unauthorised body or person;
  - 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
  - 3) Any other requirement prescribed in terms of the B-BBEE Act.
- (j) **"QSE"** means a Qualifying Small EEnterprise in terms of a Codes of Good Practice under section 9 (1) of the Broad-Based Black Economic Empowerment Act, 2003 ( Act No. 53 of 2003);
- (k) **"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.

### 3. POINTS AWARDED FOR PRICE

#### 3.1 THE 80/20 PREFERENCE POINT SYSTEMS

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

**80/20**

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

Where

- Ps = Points scored for comparative price of bid under consideration
- Pt = Comparative price of bid under consideration
- Pmin = Comparative price of lowest acceptable bid

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

- 4.1 In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations, preference points must 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 (80/20 system)
1	20
2	18
3	14
4	12
5	8
6	6
7	4
8	2
Non-compliant contributor	0

- 4.2 The table below indicates the required proof of B-BBEE status depending on the category of enterprises:

Enterprise	B-BBEE Certificate & Sworn Affidavit
<b>Large</b>	Certificate issued by SANAS accredited verification agency
<b>QSE</b>	Certificate issued by SANAS accredited verification agency Sworn Affidavit signed by the authorised QSE representative and attested by a Commissioner of Oaths confirming annual turnover and black ownership (only black-owned QSEs - 51% to 100% Black owned) [Sworn affidavits must substantially comply with the format that can be obtained on the DTI's website at <a href="http://www.dti.gov.za/economic_empowerment/bee_codes.jsp">www.dti.gov.za/economic_empowerment/bee_codes.jsp</a> .]
<b>EME<sup>3</sup></b>	Sworn Affidavit signed by the authorised EME representative and attested by a Commissioner of Oaths confirming annual turnover and black ownership Certificate issued by CIPC (formerly CIPRO) confirming annual turnover and black ownership Certificate issued by SANAS accredited verification agency only if the EME is being measured on the QSE scorecard

- 4.3 A trust, consortium or joint venture (including unincorporated consortia and joint ventures) must submit a consolidated B-BBEE Status Level verification certificate for every separate bid.
- 4.4 Tertiary Institutions and Public Entities will be required to submit their B-BBEE status level certificates in terms of the specialized scorecard contained in the B-BBEE Codes of Good Practice.
- 4.5 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 sub-contracting more than 25% of the value of the contract to any other enterprise that does not qualify for at least the points that such a bidder qualifies for, unless the intended sub-contractor is an EME that has the capability and ability to execute the sub-contract.
- 4.6 A person awarded a contract may not sub-contract more than 25% 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,

<sup>3</sup> In terms of the Implementation Guide: Preferential Procurement Regulations, 2017, Version 2, paragraph 11.11 provides that in the Transport Sector, EMEs can provide a letter from accounting officer or get verified and be issued with a B-BBEE certificate by SANAS accredited professional or agency as the Transport Sector Code has not been aligned to the generic Codes. EMEs in the Transport Sector are not allowed to provide a Sworn Affidavit as the generic codes are not applicable to them.

unless the contract is sub-contracted to an EME that has the capability and ability to execute the sub-contract.

4.7 Bidders are to note that the rules pertaining to B-BBEE verification and other B-BBEE requirements may be changed from time to time by regulatory bodies such as National Treasury or the DTI. It is the Bidder's responsibility to ensure that his/her bid complies fully with all B-BBEE requirements at the time of the submission of the bid.

**5. BID DECLARATION**

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

**6. B-BBEE STATUS LEVEL OF CONTRIBUTION CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 6.1**

6.1 B-BBEE Status Level of Contribution: . = .....(maximum of 20 points)

(Points claimed in respect of paragraph 6.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

**7. SUB-CONTRACTING**

7.1 Will any portion of the contract be sub-contracted?

*(Tick applicable box)*

YES		NO	
-----	--	----	--

7.1.1 If yes, indicate:

- i) What percentage of the contract will be subcontracted.....%
- ii) The name of the sub-contractor.....
- iii) The B-BBEE status level of the sub-contractor.....
- iv) Whether the sub-contractor is an EME or QSE

*(Tick applicable box)*

YES		NO	
-----	--	----	--

v) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations,2017:

<b>Designated Group: An EME or QSE which is at last 51% owned by:</b>	<b>EME √</b>	<b>QSE √</b>
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
<b>OR</b>		
Any EME		
Any QSE		

**8. DECLARATION WITH REGARD TO COMPANY/FIRM**

8.1 Name of company/firm:.....

8.2 VAT registration number:.....

8.3 Company registration number:.....

**8.4 TYPE OF COMPANY/ FIRM**

Partnership/Joint Venture / Consortium

- One person business/sole propriety
- Close corporation
- Company
- (Pty) Limited

[TICK APPLICABLE BOX]

**8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES**

.....  
.....

**8.6 COMPANY CLASSIFICATION**

- Manufacturer
- Supplier
- Professional service provider
- Other service providers, e.g. transporter, etc.

[ TICK APPLICABLE BOX]

8.7 Total number of years the company/firm has been in business:.....

8.8 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBEE status level of contribution indicated in paragraphs 4.1 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraph 4.1 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser 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) if the successful bidder subcontracted a portion of the bid to another person without disclosing it, Transnet reserves the right to penalise the bidder up to 10 percent of the value of the contract;
  - (e) recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
  - (f) forward the matter for criminal prosecution.

**WITNESSES**

1. ....

2. ....

.....  
**SIGNATURE(S) OF BIDDERS(S)**

**DATE:** .....

**ADDRESS** .....

.....

**SECTION 8****SBD 9- CERTIFICATE OF INDEPENDENT BID DETERMINATION**

1. Section 4(1)(b)(iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging). Collusive bidding is a per se prohibition meaning that it cannot be justified under any grounds. Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.
2. Transnet will take all reasonable steps to prevent abuse of the supply chain management system and to:
  - a. disregard the bid of any bidder if that bidder, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
  - b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.
3. This SBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
4. In order to give effect to the above, the following certificate of Bid Determination (SBD 9) must be completed and submitted with the bid:

**CERTIFICATE OF INDEPENDENT BID DETERMINATION**

I, the undersigned, in submitting the accompanying bid:

\_\_\_\_\_

(Bid Number and Description)

in response to the invitation for the bid made by:

\_\_\_\_\_

(Name of Institution)

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: \_\_\_\_\_ that:

(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, 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
6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium<sup>4</sup> will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
  - a. prices;
  - b. geographical area where product or service 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;

\_\_\_\_\_

<sup>4</sup> Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract

- e. the submission of a bid which does not meet the specifications and conditions of the bid; or
  - f. bidding with the intention not to win the bid.
8. 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 products or services to which this bid invitation relates.
  9. The terms of the accompanying bid 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.
  10. I am 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 ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

.....

Signature

.....

Date

.....

Position

.....

Name of Bidder

**SECTION 9**

**CERTIFICATE OF ATTENDANCE OF COMPULSORY SITE MEETING / RFQ BRIEFING**

It is hereby certified that –

1. \_\_\_\_\_

2. \_\_\_\_\_

Representative(s) of \_\_\_\_\_ *[name of entity]*

attended the site meeting / RFQ briefing in respect of the proposed Goods/Services to be rendered in terms of this RFQ on \_\_\_\_\_ 20\_\_

\_\_\_\_\_  
TRANSNET'S REPRESENTATIVE

\_\_\_\_\_  
RESPONDENT'S REPRESENTATIVE

DATE \_\_\_\_\_

DATE \_\_\_\_\_

**NOTE:**

This certificate of attendance must be filled in duplicate, one copy to be kept by Transnet and the other copy to be kept by the bidder.

## **SECTION 10**

### **PROTECTION OF PERSONAL INFORMATION**

1. The following terms shall bear the same meaning as contemplated in Section 1 of the Protection of Person information act, No.4 of 2013.("POPIA"):

consent; data subject; electronic communication; information officer; operator; person; personal information; processing; record; Regulator; responsible party; special information; as well as any terms derived from these terms.

2. Transnet will process all information by the Respondent in terms of the requirements contemplated in Section 4(1) of the POPIA:

Accountability; Processing limitation; Purpose specification; Further processing limitation; Information quality; Openness; Security safeguards and Data subject participation.

3. The Parties acknowledge and agree that, in relation to personal information that will be processed pursuant to this RFQ, the Responsible party is "Transnet" and the Data subject is the "Respondent". Transnet will process personal information only with the knowledge and authorisation of the Respondent and will treat personal information which comes to its knowledge as confidential and will not disclose it, unless so required by law or subject to the exceptions contained in the POPIA.
4. Transnet reserves all the rights afforded to it by the POPIA in the processing of any of its information as contained in this RFQ and the Respondent is required to comply with all prescripts as detailed in the POPIA relating to all information concerning Transnet.
5. In responding to this bid, Transnet acknowledges that it will obtain and have access to personal information of the Respondent. Transnet agrees that it shall only process the information disclosed by Respondent in their response to this bid for the purpose of evaluating and subsequent award of business and in accordance with any applicable law.
6. Transnet further agrees that in submitting any information or documentation requested in this RFQ, the Respondent is consenting to the further processing of their personal information for the purpose of, but not limited to, risk assessment, assurances, contract award, contract management, auditing, legal opinions/litigations, investigations (if applicable), document storage for the legislatively required period, destruction, de-identification and publishing of personal information by Transnet and/or its authorised appointed third parties.
7. Furthermore, Transnet will not otherwise modify, amend or alter any personal data submitted by the Respondent or disclose or permit the disclosure of any personal data to any third party without the prior written consent from the Respondent. Similarly, Transnet requires the Respondent to process any personal information disclosed by Transnet in the bidding process in the same manner.
8. Transnet shall, at all times, ensure compliance with any applicable laws put in place and maintain sufficient measures, policies and systems to manage and secure against all forms of risks to any information that may be

shared or accessed pursuant to this RFQ (physically, through a computer or any other form of electronic communication).

- 9. Transnet shall notify the Respondent in writing of any unauthorised access to information, cybercrimes or suspected cybercrimes, in its knowledge and report such crimes or suspected crimes to the relevant authorities in accordance with applicable laws, after becoming aware of such crimes or suspected crime. The Respondent must take all necessary remedial steps to mitigate the extent of the loss or compromise of personal information and to restore the integrity of the affected personal information as quickly as is possible.
- 10. The Respondent may, in writing, request Transnet to confirm and/or make available any personal information in its possession in relation to the Respondent and if such personal information has been accessed by third parties and the identity thereof in terms of the POPIA. The Respondent may further request that Transnet correct (excluding critical/mandatory or evaluation information), delete, destroy, withdraw consent or object to the processing of any personal information relating to the Respondent in Transnet’s possession in terms of the provision of the POPIA and utilizing Form 2 of the POPIA Regulations.
- 11. In submitting any information or documentation requested in this RFQ, the Respondent is hereby consenting to the processing of their personal information for the purpose of this RFQ and further confirming that they are aware of their rights in terms of Section 5 of POPIA

**Respondents are required to provide consent below:**

<b>YES</b>	<b>NO</b>
------------	-----------

- 12. Further, the Respondent declares that they have obtained all consents pertaining to other data subject’s personal information included in its submission and thereby indemnifying Transnet against any civil or criminal action, administrative fines or other penalty or loss that may arise as a result of the processing of any personal information that the Respondent submitted.
- 13. The Respondent declares that the personal information submitted for the purpose of this RFQ is complete, accurate, not misleading, is up to date and may be updated where applicable.

Signature of Respondent’s authorised representative: \_\_\_\_\_

Should a Respondent have any complaints or objections to processing of its personal information, by Transnet, the Respondent can submit a complaint to the Information Regulator on <https://www.justice.gov.za/inforeg/>, click on contact us, click on complaints.IR@justice.gov.za

**SECTION 11:****100 % CLAUSE BY CLAUSE COMPLIANCE TO SPECIFICATION**

**[Failure to fully complete (100%) to specification and submit, will result in a score of zero]**

Please write yes/comply for compliance to specification in full in the second column, **or** if you do not comply write no/do not comply in the third column and the fourth column give comment/reasons for non-compliance.

<b>Clause No.</b>	<b>Write in full Yes/comply. (Positive compliance)</b>	<b>Write in full No/ do not comply. (Negative compliance)</b>	<b>Reasons / Comments for non-compliance to Project Specification.</b>
<b>2. Project Description</b>			
<b>3. Background</b>			
<b>4. Employer's Objective</b>			
<b>5. Scope of work</b>			
<b>5.1 Structural Condition Monitoring</b>			
<b>5.2 Training</b>			
<b>5.3 Reports</b>			
<b>6. Schedule</b>			
<b>7. Organisation, Responsibilities and Resources</b>			
<b>7.1 Project Organisation</b>			
<b>7.2 Key Roles and Responsibilities</b>			
<b>7.3 Management System</b>			
<b>7.3.1 Scope Management</b>			
<b>7.3.2 Risk Management</b>			
<b>7.3.3 Issue Management</b>			
<b>7.3.4 Change Management</b>			
<b>7.4 Project Communication</b>			
<b>7.4.1 Project Steering Committee Meetings</b>			
<b>7.4.2 Sponsor Review</b>			
<b>7.4.3 Project Managers Meeting</b>			
<b>7.4.4 Sub-Project Managers Meeting</b>			
<b>Appendix A ~ Provision for the supply of ShapeArray Data Acquisition Systems (DAS)</b>			

<p><b>5.2 The ShapeArray DAS consists of: an enclosure, a charge regulator, a battery with fuse, a ShaeArray interface, an LED power supply wiring for the connection of these components and a USB cable for the connection of the ShapeArray interface with a portable computer</b></p>			
<p><b>Appendix B ~ Provision for the supply of printed circuit board (PCB)</b></p>			
<p><b>5.2 The circuit boards can be 3D printed. The printed circuit board (PCB) shall be a 2.54 mm single side phenolic circuit board. It shall have the dimensions of 72 x 47 x 1.6 mm with 417 Holes</b></p>			
<p><b>Appendix C ~ Provision for the supply of the MCP3008-I/P converter dip analog to digital microchip</b></p>			
<p><b>5.2 The microchip shall have 10 bit Serial ADC, Differential input, 16-Pin PDIP. It shall operate on a single supply operation ranging from 2.7V to 5.5V. The microchip shall have an industrial temp range of -40°C to +85°C.</b></p>			

# **ANNEXURE A**

# **SPECIFICATION**

# **ANNEXURE A**

**Transnet Freight Rail**  
**Overvaal Tunnel Condition Monitoring**  
**Scope of Works**

## Table of Contents

<b>Abbreviations.....</b>	<b>4</b>
<b>1. Introduction.....</b>	<b>5</b>
<b>2. Project Description .....</b>	<b>5</b>
<b>3. Background .....</b>	<b>6</b>
<b>4. Employer’s Objective .....</b>	<b>7</b>
<b>5. Scope of Works .....</b>	<b>8</b>
5.1 Structural Condition Monitoring .....	8
5.2 Training .....	9
5.3 Reports.....	9
<b>6. Schedule.....</b>	<b>10</b>
<b>7. Organisation, Responsibilities and Resources .....</b>	<b>10</b>
7.1 Project Organisation.....	10
7.2 Key Roles and Responsibilities.....	11
7.3 Management System.....	12
7.3.1 Scope Management .....	12
7.3.2 Risk Management.....	12
7.3.3 Issue Management .....	12
7.3.4 Change Management.....	13
7.4 Project Communication.....	13
7.4.1 Project Steering Committee Meetings.....	13
7.4.2 Sponsor Review .....	14
7.4.3 Project Managers Meeting .....	14
7.4.4 Sub-Project Managers Meeting .....	14

**Tables**

Table 1: Abbreviations..... 4

**Figures**

Figure 1: Project location ..... 6  
Figure 2: Location of Affected Structures..... 7

## Abbreviations

The following abbreviations and definitions are applicable to this document.

**Table 1: Abbreviations**

<b>Abbreviation</b>	<b>Description</b>
DB	Drill & Blast
FEL	Front End Loading
km/h	Kilometer per hour
mtpa	million tons per annum
OHTE	Overhead Traction Equipment
ORS	Owner Requirement Specification
SOW	Scope of Works
TBM	Tunnel Boring Machine
TFR	Transnet Freight Rail
TRANSNET	Transnet SOC Limited

## **1. Introduction**

The South African Coal railway line is a double track line that currently has a capacity of transporting 81mtpa of coal annually from Ermelo in Mpumalanga to Richards Bay. The section from Ermelo to Richards Bay is primarily a double track railway line excluding a 4km section along the line which constitutes the Overvaal tunnel that only has a single track.

The Overvaal tunnel creates a bottleneck in the section due to the 4km single track which decreases the capacity of the line, increases operational risk and creates maintenance difficulties. Transnet Freight Rail developed a solution to this problem by increasing the future capacity of the section through the design of a new second 4km tunnel. The new tunnel will be placed parallel to the existing tunnel and will consist of two track lines. The construction of the new tunnel will require a tunnelling of the earth formation utilizing either the Drill and Blast (DB) method or Tunnel Boring Machine (TBM). Either method of construction will cause vibrations on the adjacent tunnel as well as other surrounding structures in the same vicinity as the tunnel construction.

This document is the *Monitoring Scope of Works* for the *Second Overvaal Tunnel Project*. This scope of works details the *works* that the *Contractor* is to perform in order to provide a base line against which structures affected by the tunnel construction can be monitored. This document should be read in conjunction with the *Owner Requirements Specification (ORS)* for the *Second Overvaal Tunnel Condition Monitoring*.

## **2. Project Description**

The Coal line between Ermelo and Richards Bay is a double line, except for a portion through the Overvaal tunnel (*Figure 1*) which has a single track going through it. This existing tunnel requires regular maintenance in order to reduce the potential risks such as derailments, OHTE hook-ups, or further deterioration of the tunnels parlous condition. To overcome the operational risks, it was proposed and subsequently agreed upon that a second Overvaal tunnel be built. The approved method of construction will be through DB or TBM.

***Scope of Works***

**14 June 2021**

The methods of construction will produce vibrations that will have an impact on the adjacent tunnel as well other surrounding structures in the same vicinity as the construction site. The affected structures include the existing tunnel, Vodacom tower, silos and houses.

The affected infrastructure will have to be carefully monitored to mitigate any possible extreme negative impacts from the construction activities. The monitoring will be done through the assessment of the conditions of the affected infrastructure before, during and after construction.



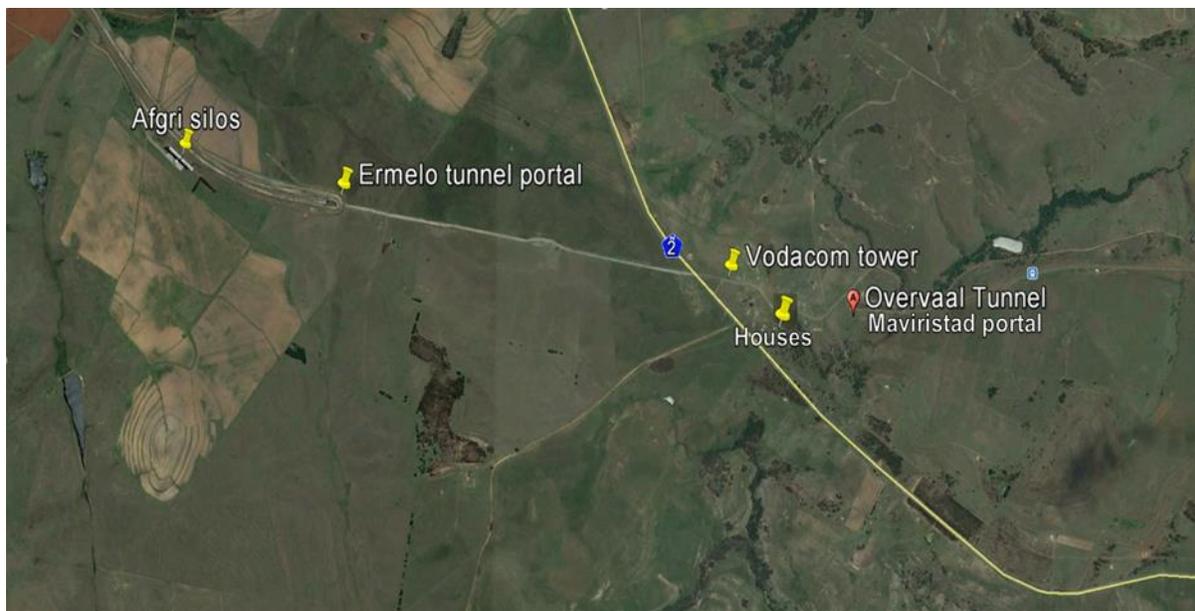
*Figure 1: Project location*

### **3. Background**

Due Diligence Report for FEL- 3, Feasibility Development for the Second Overvaal Tunnel, established that blasting can cause ground movement and stresses that could cause structural failures to surrounding structures. The continuous drilling of the TBM is also of concern and would require monitoring. The identified structures (*Figure 2*) that will be affected are;

- The existing Overvaal tunnel
- AFGRI silos
- Vodacom network tower, and
- Houses close to the construction site

Structural assessment and condition monitoring of the above mentioned structures was completed in December 2019, where a baseline condition monitoring data was collected over a period of 13 months. Transnet is intending to continue with the monitoring of the Overvaal Tunnel only, for a period of 6 months.



*Figure 2: Location of affected structures*

#### **4. Employer's Objective**

The objectives of the *Employer* are to;

- Provide a detailed structural integrity assessment of the existing Overvaal tunnel in its current state.
- Identify possible weaknesses within the tunnel that could deteriorate further due to current operations and the proposed construction of the new tunnel
- Monitor the tunnel in real-time, daily over a 6 (six) month period, use the data collected to develop strategies to move on to predictive maintenance regime and predict structural failures of the tunnel's structural components.

- Collect data to protect Transnet from possible disputes that can arise from the proposed tunnel construction.

## **5. Scope of Works**

The *Works* that the *Contractor* is to undertake entails but is not limited to;

### **5.1 Structural Condition Monitoring**

Condition monitoring assessment will entail monitoring the Overvaal tunnel in real-time, daily over a 6 (six) month period. Before condition monitoring of the tunnel commences, the *Contractor* will;

- Ensure that the remaining corrective measures identified, such as :
  - Unclogging of weep holes; and
  - Grouting of the track slab, are implemented
- Supply and install the following equipment that is required to automate the existing monitoring system:
  - ShapeArray Data Acquisition System (DAS) (see **Appendix A - Provision For the supply of ShapeArray Data Acquisition Systems (DAS)**, for specifications)
  - The prototype board (see **Appendix B - Provision for the supply of printed circuit board (PCB)**, for specifications)
  - The analog to digital microchip converter (see **Appendix C - Provision for the supply of the MCP3008-I/P converter dip analog to digital microchip**, for specifications); and

The coal line is an integral part of the Transnet network. If regular occupations are needed to capture results from apparatus within the tunnel, this will severely impact on the coal revenue. Where reasonably practicable, the *Contractor* should select measuring apparatus or measuring tool/s that can be remotely accessed to obtain the required data.

During the 6 month condition monitoring period, the *Contractor* will;

***Scope of Works***

**14 June 2021**

- Monitor the tunnel daily, using the existing monitoring system and method of analysis, to observe how the various weak areas identified behave under normal conditions and, if the mitigation measures implemented are effective
- Provide a monthly synopsis, in form of a report, of the results gathered during the daily monitoring of the tunnel
- Based on the daily observations, additional corrective measures can be prescribed, implemented and included in the daily monitoring regime
- Consolidate all reports prepared during the 6 month period and summarise findings

## **5.2 Training**

The *Contractor* will also be required to commit to training Transnet staff that will be seconded to this project on a full time basis. The Transnet staff allocated to the project for training will work with the *Contractor's* team on a daily basis. It is expected that these staff members will be active participants in the study and will work as part of the *Contractor's* team and even taking responsibility for certain work packages where deemed appropriate by the service provider. The *Contractor* is required to accommodate up to 5 (five) Transnet employees at their premises and on site to assist with tasks, join strategy sessions and work as part of the team.

## **5.3 Reports**

The *Contractor* is required to provide reports for;

- Provide a report on the corrective measures implemented, including the exact location of the said repair work
- Provide a monthly synopsis, in form of a report, of the results gathered during the daily monitoring of the tunnel during the 6 (six) month period
- Consolidate report at the end of the 6 (six) month monitoring period summarising findings

## 6. Schedule

The *Works* outlined above will be conducted in two phases;

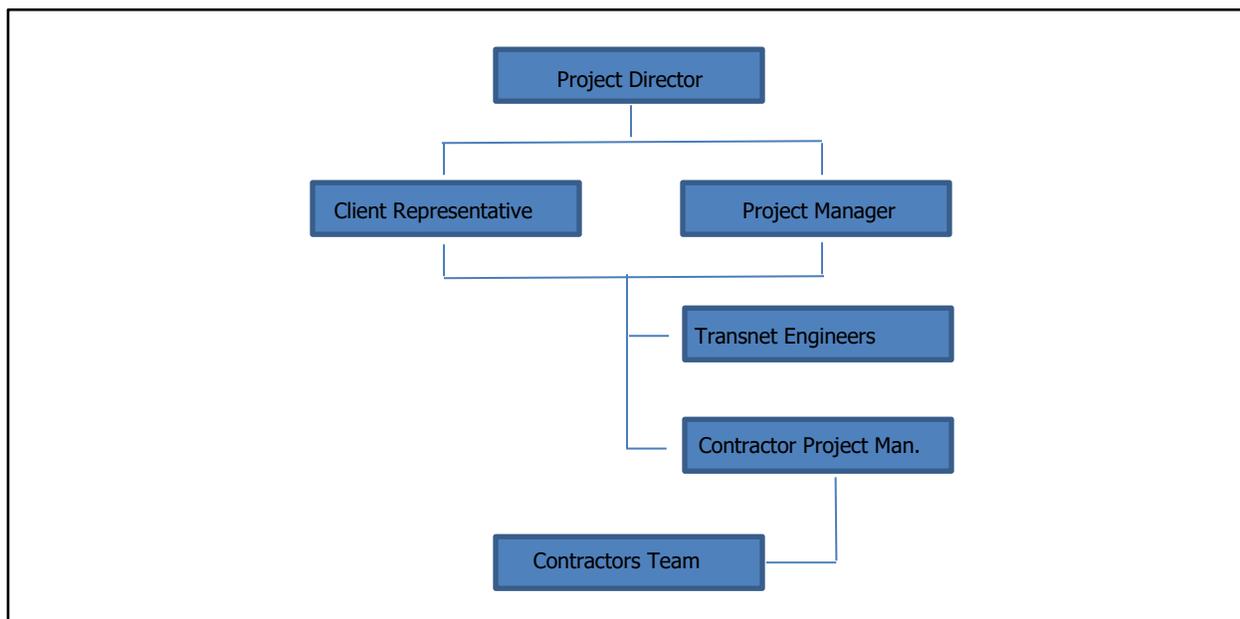
Condition Monitoring Assessment

It is expected that the *Contractor* will require 1 (one) month from the appointment to establish necessary resources for the project. Thereafter, the condition monitoring will commence and be completed in 6 (six) months from establishing necessary resources. Once the remaining equipment is integrated with the current monitoring system, monthly reports will be provided documenting how the structures behave under normal conditions. Once the 6 (six) month monitoring period is over, a final report will be submitted. This report should summarising the monthly reports.

## 7. Organisation, Responsibilities and Resources

### 7.1 Project Organisation

The organisation defines the reporting structure for the project and also identifies key participants and how they relate. It defines responsibilities, roles, relationships and channels of communication so that all participants know who is responsible for completing tasks, making decisions and with whom to communicate. This as illustrated below:



*Figure 3: Project reporting structure*

## **7.2 Key Roles and Responsibilities**

Corporate governance requirements will extend to the elements relevant to the execution of the FEL-2 study. This will entail conformance to the established programme procedures and controls relevant to studies, resource planning for the study, document configuration controls, etc.

A steering committee is envisaged that will monitor and guide the programme management team for the duration of the study. The committee will play the main role in setting the programme controls, information flows and reporting requirements.

Each cluster will be led by a cluster head, appointed by Transnet, that will be integrated by the programme director. The focus for this scope of works (SOW) is the Technical Cluster as this is envisaged to lead the direction of this programme. The Technical Cluster entails the following work streams:

- Capacity Planning
- Engineering
- Environment and Sustainability
- Land Planning and Acquisition
- Operating Plan

The Business Cluster and Programme Assurance, Management & Support Services Cluster functions will be provided by Transnet. Regular progress reports in the format and at the frequency as directed will be provided. Reports shall include appropriate issues for resolution, programme challenges and risks together with mitigation actions proposed. Updated programme schedules will indicate critical path items and updated cash flow requirements.

## **7.3 Management System**

The management system is the total system used to manage the project. This includes risk management, issue management, change management, progress reviewing and tracking as well as time recording.

### **7.3.1 Scope Management**

The process to manage scope should contain the following activities;

- Defining each deliverable and assigning an owner to each deliverable
- Raising a scope change for any increase or decrease in the scope of work as required and as defined by the cost, schedule and quality requirements
- Notifying all senior stakeholders (e.g. Project Sponsor). The notification will include a description of the change, the required approval date and an estimate of the cost and schedule impact.

### **7.3.2 Risk Management**

The process to manage risks should contain the following activities;

- Identifying and recording all potential risks to the project during the structural assessment study period. The risks identified should have mitigation measures to be implemented and monitored during the execution phase of the project. Risks may be identified at all levels (from the project sponsor downwards), and the reports will need to be consolidated
- The Contractor to have a detailed report on risks at the end of the study to be carried over to the project risks
- Assessing the likelihood of each risk occurring and the cost to the project (in terms of lost benefits or of corrective action) should the risk occur
- Agreeing an action plan to minimize the likelihood or cost of each risk. Actions should include avoiding, containing, and monitoring the risk, as appropriate
- Regularly reviewing and verifying all risks with the associated assessment and actions, and incorporating new risks.

### **7.3.3 Issue Management**

The process to track and control issues to their resolution must include;

- Identifying and capturing each issue.
- Appointing a person responsible for getting the issue resolved.
- Logging and reviewing of all outstanding issues, and maintaining a status report.

### **7.3.4 Change Management**

The process to manage change needs to include the following;

- Directing all requests for change to one central point, where they are logged.
- Specifying unambiguously, in writing, each change request on a standard form.
- Distributing all change requests to Sub-Project Managers for comment.
- Assessing the consequences of implementing each change for input into the decision-making process.
- Deciding whether or not to accept the change or defer it, and defining processes to handle dissent.
- Communication of the decision to all sub-project managers and anyone else who has the need to know.

Each of the above will be handled through various levels of meetings, which will typically include:

- Steering Committee meetings
- Project Team meetings
- Owners meetings

## **7.4 Project Communication**

### **7.4.1 Project Steering Committee Meetings**

The Project Steering Committee will meet monthly and the project sponsor will chair the meeting. Other people may be invited as and when necessary. The project manager will present project progress to the committee. Any significant issues and/or risks will be discussed. This meeting will also deal with any scope changes that might occur. Formal minutes will be used to document the meeting.

#### **7.4.2 Sponsor Review**

The project manager will meet fortnightly with the project sponsor to discuss project progress as well as any other issues. The meeting is informal and no minutes are produced.

#### **7.4.3 Project Managers Meeting**

The project manager will meet weekly with the sub-project managers to discuss project progress against milestones and review risks, issues and changes. Formal minutes will be used to document the meeting.

#### **7.4.4 Sub-Project Managers Meeting**

The sub-project managers will meet weekly with their respective project teams. The meetings will cover status and progress of the sub-projects and any issues, risks or change requests that may have arisen. Actions for the coming week will be agreed and documented.

# **APPENDIX A**

# APPENDIX A

---



## RAIL NETWORK

### PROCUREMENT SPECIFICATION

---

#### Provision For the supply of ShapeArray Data Acquisition Systems (DAS)

---

Authors:	Charles Kubeka Mechanical Engineer Design Office	
Approved:	Sboniso Ngubane Project Engineer Design Office	
Authorised:	Senior Engineer Design Office	
		Date
		18 January 2022

Circulation Restricted To:

Transnet Freight Rail – Rail network  
Approved Third Parties

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

# APPENDIX A

---

## CONTENTS

1. Scope.....	3
2. Environmental Conditions.....	3
3. Qualifications.....	3
4. Performance.....	3
5. Technical Requirements.....	3
5.1 General Description .....	3
5.2 ShapeArray Data Acquisition System Components .....	4
5.2.1 ShapeArray DAS Enclosure.....	4
5.2.2 Charge Regulator .....	4
5.2.3 Battery with Fuse.....	4
5.2.4 ShapeArray Interface.....	4
5.2.5 LED Power Supply.....	5
5.2.6 USB Cable.....	5
5.2.7 Miscellaneous Wiring.....	5
5.2.8 Additional Power Requirements.....	5
6. References.....	6
7. Quality control .....	6
8. Legal and Operational .....	6

# APPENDIX A

---

## 1. Scope

- 1.1 This specification covers the requirements for the supply of ShapeArray Data Acquisition Systems (DAS) and their associated components for the collection of ShapeArray data.

## 2. Environmental Conditions

The equipment must be able to function properly under the following environmental conditions:

- 2.1 Weather conditions at altitudes varying from sea level to 2000m above sea level, relative humidity 10% to 90% and atmospheric conditions which varies from heavily saline to dry and dusty.
- 2.2 Ambient temperature between -5°C to 50°C.

## 3. Qualifications

- 3.1 The design of the components as per user requirements is to be that of the manufacturer, but must be of robust construction in order to meet sustained operational duty demands, yet they must be easy to be used safely.
- 3.2 The tools and components will be acceptable in standard factory production finish and colour. Details to be furnished in the operators manual and in the technical data sheets supplied by the manufacturer.

## 4. Performance

- 4.1 The actual design of all components shall have the capacities as stated in this specification.
- 4.2 The components are to be easily and economically maintained/calibrated with standard workshop tools and equipment when necessary.

## 5. Technical Requirements

### 5.1 General Description

- 5.1.1 Transnet Freight Rail requires ShapeArray Data Acquisition Systems (DAS) for measuring, converting, and logging electrical output signals from ShapeArrays used in the structural condition monitoring of civil structures.
- 5.1.2 The equipment shall conform to the requirements as laid down in this specification and the relevant SANS and international standards.

# APPENDIX A

---

## 5.2 ShapeArray Data Acquisition System Components

The ShapeArray DAS consists of: an enclosure, a charge regulator, a battery with fuse, a ShapeArray interface, an LED power supply, wiring for the connection of these components, and a USB cable for the connection of the ShapeArray interface with a portable computer. Note that a datalogger must not be included as part of the ShapeArray DAS. All the components shall meet the requirements as specified below:

### 5.2.1 ShapeArray DAS Enclosure

- The enclosure shall be NEMA 4 rated.
- The dimensions of the enclosure shall be no less than 500mm x 400mm x 250mm (LxBxH).

### 5.2.2 Charge Regulator

The charge regulator shall meet the requirements set out below:

Specification	Value
Charge Rating	10 amps
Open Circuit Voltage (Voc)	30 volts
Nominal Battery Voltage	12V
Minimum Battery Voltage	6V
Voltage Accuracy	±25mV
Operating Temperature Range	-40 to +60 °C

### 5.2.3 Battery with Fuse

- The battery shall be sealed AGM, deep cycle, and non-spillable, with the following requirements:

Specification	Value
Capacity	9Ah
Nominal Voltage	12V
Terminal Type	T1
Operating Temperature Range	0 to 40 , -15 to 50

- The Fuse shall be auto mini blade with 10A normal operating current.

### 5.2.4 ShapeArray Interface

The interface must connect a single ShapeArray to a single COM port on a data logger, and must meet the following requirements:

# APPENDIX A

---

Specification	Value
Dimensions	30 mm x 121 mm x 51 mm
Power Requirements	9.5 V to 16 V
Output Power	13.5 V
Standby Current Consumption	< 2 mA
Serial Protocol	RS232 to RS485
Data Rate	38.4 kbps

## 5.2.5 LED Power Supply

The LED power supply shall meet the following requirements:

- Universal AC input / Full range.
- Adjustable output voltage and current level.
- Built-in constant current limiting circuit.

	Specification	Value
<b>OUTPUT</b>	DC Voltage	15V
	LED Operation Voltage	3~15V
	Rated Current	2A
	Current Range	0~2A
	Rated Power	30W
<b>INPUT</b>	Voltage Range	90 ~ 264VAC 127~370VDC
	Frequency Range	47~63Hz
	AC Current	0.4A/115VAC 0.2A/230VAC
	Leakage Current	<0.5mA / 240VAC

## 5.2.6 USB Cable

- The USB cable must enable the connection of the ShapeArray interface with a portable PC, via USB input to allow for the collection of ShapeArray data.

## 5.2.7 Miscellaneous Wiring

- Suitable wiring must be included for the electrical connection of the components inside the ShapeArray DAS (Including earth wiring), and must also include a 4-pin circular connector (female) mounted on the ShapeArray DAS enclosure to allow for connection with a 4-pin circular connector (male) from the ShapeArray.

## 5.2.8 Additional Power Requirements

# APPENDIX A

---

- The ShapeArray DAS shall be able to be powered from a standard South African AC wall socket.

## 6. References

- 6.1 ISO 9000 to ISO 9004 – Quality.

## 7. Quality control

- 7.1 All equipment required in this specification must be manufactured in an environment that complies to ISO. 9000 to 9004 or similar quality control standards.

## 8. Legal and Operational

- 8.1 All equipment to comply with the requirements of the related SANS, Safety and Environmental standards in force at the time of tendering.
- 8.2 The information as requested by the various clauses in this specification is to be supplied in form of technical data, pamphlets and/or drawings. If this is not complied with, offers may be overlooked.
- 8.3 All equipment is to be guaranteed for a minimum period of 24 months against faulty material and poor workmanship - fair wear and tear excluded. Full details of guarantee are to be submitted.

**END OF SPECIFICATION**

# **APPENDIX B**

## Appendix B

---



A division of Transnet SOC Limited

---

## RAIL NETWORK

## PROCUREMENT SPECIFICATION

---

### Provision for the supply of printed circuit board (PCB).

---

Authors:	Thato Mahlatji Mechanical Engineer Design Office	
Approved:	Sboniso Ngubane Project Engineer Design Office	
Authorised:		
		Date 18 January 2022

Circulation Restricted To:

Transnet Freight Rail  
Approved third parties

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

---

## Appendix B

---

### Contents

1. Scope.....	3
2. Environmental Conditions.....	3
3. Qualifications .....	3
4. Performance .....	3
5. Technical Requirements.....	3
5.1. General Description .....	3
5.2. Prototyping printed circuit board (PCB).....	3
6. Quality Control.....	4
7. Legal and Operational .....	4
8. References .....	4

---

## Appendix B

---

### 1. Scope

- 1.1. This specification outlines the requirements for the supply of prototyping printed circuit board for the purpose of interfacing *single board computers with analog sensors* used in structural health monitoring systems.

### 2. Environmental Conditions

- 2.1. The equipment will be used in all weather conditions having altitudes varying from sea level to 1850m above sea level, relative humidity 0% to 90% and atmospheric conditions which vary from heavily saline to dry and dusty.
- 2.2. Ambient air temperatures ranging from minus 10° C to 50° C.

### 3. Qualifications

- 3.1. The design of the components as per user requirements is to be that of the manufacturer, but must be of robust construction in order to meet sustained operational duty demands, yet they must be easy to be used safely.
- 3.2. The tools and components will be acceptable in standard factory production finish and colour. Details to be furnished in the operators manual and in the technical data sheets supplied by the manufacturer.

### 4. Performance

- 4.1. The actual design of all components shall have the capacities as stated in this specification.
- 4.2. The components are to be easily and economically maintained/calibrated with standard workshop tools and equipment when necessary.

## 5. Technical Requirements

### 5.1. General Description

- 5.1.1. The equipment shall conform to the requirements as laid down in this specification and the relevant SANS and international standards.

### 5.2. Prototyping printed circuit board (PCB)

- 5.2.1. The circuit boards can be 3D printed. The printed circuit board (PCB) shall be a 2.54mm single side phenolic circuit board.
- 5.2.2. The printed circuit board (PCB) shall have the dimensions 72 X 47 X 1.6mm with 417 HOLES.

---

## **Appendix B**

---

### **6. Quality Control**

- 6.1. All equipment as required by various clauses of this specification must be manufactured in an environment that complies to the latest SANS ISO 9000 to ISO 9004 or similar quality control standards. Details must be furnished.

### **7. Legal and Operational**

- 7.1. All equipment to comply with the requirements of the related SANS, Safety and Environmental standards in force at the time of tendering.
- 7.2. The information as requested by the various clauses in this specification is to be supplied in form of technical data, pamphlets and/or drawings. If this is not complied with, offers may be overlooked.
- 7.3. All equipment is to be guaranteed for a minimum period of 24 months against faulty material and poor workmanship - fair wear and tear excluded. Full details of guarantee are to be submitted.

### **8. References**

- 8.1. SANS ISO 9000 to ISO 9004: 2015 – Quality Management

# **APPENDIX C**

## Appendix C

---



A division of Transnet SOC Limited

---

## RAIL NETWORK

## PROCUREMENT SPECIFICATION

---

### Provision for the supply of the MCP3008-I/P converter dip analog to digital microchip.

---

Authors:	Thato Mahlatji Mechanical Engineer Design Office	
Approved:	Sboniso Ngubane Project Engineer Design Office	
Authorised:		
		Date
		18 January 2022

Circulation Restricted To:

Transnet Freight Rail  
Approved third parties

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

# Appendix C

---

## Contents

1. Scope.....	3
2. Environmental Conditions.....	3
3. Qualifications .....	3
4. Performance .....	3
5. Technical Requirements.....	3
5.1. General Description .....	3
5.2. MCP3008-I/P converter dip analog to digital microchip .....	3
6. Quality Control.....	4
7. Legal and Operational .....	4
8. References.....	4

# Appendix C

---

## 1. Scope

- 1.1. This specification outlines the requirements for the supply of the MCP3008-I/P converter dip analog to digital microchip for the purpose of interfacing *single board computers with analog sensors* used in structural health monitoring systems.

## 2. Environmental Conditions

- 2.1. The equipment will be used in all weather conditions having altitudes varying from sea level to 1850m above sea level, relative humidity 0% to 90% and atmospheric conditions which vary from heavily saline to dry and dusty.
- 2.2. Ambient air temperatures ranging from minus 10° C to 50° C.

## 3. Qualifications

- 3.1. The design of the components as per user requirements is to be that of the manufacturer, but must be of robust construction in order to meet sustained operational duty demands, yet they must be easy to be used safely.
- 3.2. The tools and components will be acceptable in standard factory production finish and colour. Details to be furnished in the operators manual and in the technical data sheets supplied by the manufacturer.

## 4. Performance

- 4.1. The actual design of all components shall have the capacities as stated in this specification.
- 4.2. The components are to be easily and economically maintained/calibrated with standard workshop tools and equipment when necessary.

## 5. Technical Requirements

### 5.1. General Description

- 5.1.1. The equipment shall conform to the requirements as laid down in this specification and the relevant SANS and international standards.

### 5.2. MCP3008-I/P converter dip analog to digital microchip

- 5.2.1. The microchip shall have 10 bit Serial ADC, Differential Input, 16-Pin PDIP
- 5.2.2. The microchip shall have operate on a single supply operation ranging from 2.7V to 5.5V.
- 5.2.3. The microchip shall have an Industrial temp range of -40°C to +85°C.

## **Appendix C**

---

### **6. Quality Control**

- 6.1. All equipment as required by various clauses of this specification must be manufactured in an environment that complies to the latest SANS ISO 9000 to ISO 9004 or similar quality control standards. Details must be furnished.

### **7. Legal and Operational**

- 7.1. All equipment to comply with the requirements of the related SANS, Safety and Environmental standards in force at the time of tendering.
- 7.2. The information as requested by the various clauses in this specification is to be supplied in form of technical data, pamphlets and/or drawings. If this is not complied with, offers may be overlooked.
- 7.3. All equipment is to be guaranteed for a minimum period of 24 months against faulty material and poor workmanship - fair wear and tear excluded. Full details of guarantee are to be submitted.

### **8. References**

- 8.1. SANS ISO 9000 to ISO 9004: 2015 – Quality Management

**ANNEXURE B**  
**TECHNICAL**

**ANNEXURE B: TECHNICAL/FUNCTIONAL SUBMISSION QUESTIONNAIRE**

**NAME OF BIDDER:** \_\_\_\_\_

**RFQ: ERACKM-FDT-36334**

**Description of Works:** For the provision of Overvaal tunnel structural Health Monitoring at Ermelo depot for a period of six (6) months

---

For the provision of Overvaal tunnel structural Health Monitoring at Ermelo depot for a period of six (6) months	<b>THRESHOLD</b>
<b>PHASE 1: TECHNICAL EVALUATION</b>	<b>100 %</b>
<b>PHASE 2: FUNCTIONAL EVALUATION</b>	<b>75 %</b>

**Phase 1: Technical Evaluation**

Quality Criteria	Weightings	Scoring Guideline (0-5)
<b>Technical Capability:</b>		
100 % completed clause by clause and is compliant to project specification – Annexure A	<b>100%</b>	5 (100 %) – Clause by clause is completed and is compliant to specification  0 (0%) – Clause by clause is not completed or non-compliance to specification

**What evidence is submitted:**

**Where, in your Tender file, is the evidence located:**

**PHASE 2: Functional Evaluation**

The minimum threshold for functionality must be met or exceed for a Respondent to progress to the next step of evaluation.

Quality Criteria	Weightings	Scoring Guideline (0-5)
<b>Technical Capability:</b>		
<p><b>Delivery lead times / Timelines</b></p> <p>Timeframe required for the tunnel Condition Assessment and Monitoring and submission of reports</p> <p><b>What evidence is submitted:</b></p> <p>_____</p> <p>_____</p> <p><b>Where in your Tender file, is the evidence located:</b></p> <p>_____</p> <p>_____</p>	<p><b>25%</b></p>	<p>5 (25 %) - Final report submitted within <math>\leq</math> 1 week</p> <p>4 (20 %) - Final report submitted <math>&gt;</math> 1 week <math>\leq</math> 2 weeks</p> <p>3 (15 %) - Final report submitted <math>&gt;</math> 2 weeks <math>\leq</math> 3 weeks</p> <p>2 (10 %) - Final report submitted <math>&gt;</math> 3 weeks <math>\leq</math> 4 weeks</p> <p>1 (5 %) - Final report submitted <math>&gt;</math> 4 weeks <math>\leq</math> 5 weeks</p> <p>0 (0 %) – No report submitted/Final report submitted <math>&gt;</math> 5 weeks</p>
<p><b>Experience</b> in Structural Condition Assessment and Monitoring,                      Work done in the last 5 years in asset management, structural analysis and condition assessment is required</p> <p>Submit a list of similar completed projects</p> <p><b>What evidence is submitted:</b></p> <p>_____</p> <p>_____</p> <p><b>Where in your Tender file, is the evidence located:</b></p> <p>_____</p> <p>_____</p>	<p><b>15%</b></p>	<p>5 (15 %) - 5 Structural Condition Assessment and Monitoring projects done in the past five years (buildings, tunnels and bridges) List submitted</p> <p>4 (12 %) – 4 Structural Condition Assessment and Monitoring projects done in the past five years (buildings, tunnels and bridges) List submitted</p> <p>3 (9 %) - 3 Structural Condition Assessment and Monitoring projects done in the past five years (buildings, tunnels and bridges) List submitted</p> <p>2 (6 %) - 2 Structural Condition Assessment and Monitoring projects done in the past five years (buildings, tunnels and bridges) List submitted</p> <p>1 (3 %) - 1 Structural Condition Assessment and Monitoring project done in the past five years (buildings, tunnels and bridges) List submitted</p> <p>0 (0 %) - No structures condition monitoring experience. List not provided</p>

<p><b>Management Arrangements and CV's</b> of at least 2 key persons who will be involved in the project (including copies of all qualifications and certifications). Key personnel should have professional ECSA registration</p> <p><b>What evidence is submitted:</b></p> <hr/> <hr/> <p><b>Where in your Tender file, is the evidence located:</b></p> <hr/> <hr/>	<p><b>10%</b></p>	<p>5 (10 %) – A comprehensive organogram submitted and showing all stages and the structures</p> <p>All key personnel submitted copies of all qualifications and certificates</p> <p>All key personnel submitted proof of ECSA professional registration</p> <p>4 (8 %) – Organogram only showing parts of the structure and key personnel submitted and not showing all 3 stages</p> <p>All key personnel submitted copies of all qualifications and certificates</p> <p>All key personnel submitted proof of ECSA professional registration</p> <p>3 (6 %)- Organogram only showing parts of the structure and key personnel submitted and not showing all 3 stages</p> <p>All of key personnel submitted copies of all qualifications and certificates, but no proof of ECSA professional registration</p> <p>2 (4 %) – Poor organogram submitted not showing all 3 stages</p> <p>All of key personnel submitted copies of all qualifications and certificates, but no proof of ECSA professional registration</p> <p>1 (2 %) – Poor organogram submitted not showing all 3 stages</p> <p>Not all key personnel submitted copies of all qualifications, certificates and proof of ECSA professional registration</p> <p>0 (0 %) – No organogram submitted</p> <p>No key personnel submitted copies of all qualifications, certificates and proof of ECSA professional registration</p>
<p><b>Method Statement</b></p>	<p><b>15%</b></p>	

<p>Does the method statement cover all aspects of the project including:</p> <ul style="list-style-type: none"> <li>○ Structural Condition Assessment</li> <li>○ Condition Monitoring Techniques</li> <li>○ Periodic or continuous monitoring and data transmission</li> <li>○ Show if methodology will require line occupations (train stoppages) to obtain data</li> </ul> <p>All output must be covered with detailed information as to how each output will be achieved</p> <p><b>What evidence is submitted:</b></p> <hr/> <hr/> <p><b>Where in your Tender file, is the evidence located:</b></p> <hr/> <hr/>		<p>5 (15 %) - A comprehensive method statement clearly shows the sequence of activities and it covers</p> <ul style="list-style-type: none"> <li>- Structural Condition Assessment</li> <li>- Condition Monitoring Techniques</li> <li>- Continuous monitoring and data transmission</li> <li>- Shows requirement for line occupation</li> </ul> <p>4 (12 %) - Method statement submitted with only 3 aspects covered</p> <p>3 (9 %) - Method statement submitted with only 2 aspects covered</p> <p>2 (6 %) - Method statement submitted with only 1 aspect covered</p> <p>1 (3 %) - Method statement submitted but does not cover any aspects</p> <p>0 (0 %) - No method statement submitted</p>
---	--	--

<p><b>Quality Plan</b></p> <p>Is there a realistic and executable quality assurance plan including results verification and machine calibration?</p> <p>Give details on External interfaces, frequency of audits/checks, Quality management policy included with details of how the QA plan will be executed</p> <p><b>What evidence is submitted:</b></p> <hr/> <hr/> <p><b>Where in your Tender file, is the evidence located:</b></p> <hr/> <hr/>	<p><b>15%</b></p>	<p>5 (15 %) Detailed quality assurance plan.                  Showing how quality standards will be maintained.                  Containing details on: external interfaces, frequency of audits/ checks                  Details of how the QA plan will be executed</p> <p>4 (12 %) - Detailed quality assurance plan.                  Showing how quality standards will be maintained.                  Containing details on: external interfaces, frequency of audits/ checks</p> <p>Did not mention the QA plan</p> <p>3 (9 %) - Quality management policy submitted with detail on external interfaces but no plan for how to implement</p> <p>2 (6 %) - Quality management policy submitted but no plan for how to implement</p> <p>No quality standards mentioned</p> <p>1 (3 %) - QA plan submitted is a generic document and not project specific</p> <p>0 (0 %) - No QA plan submitted</p>
--	-------------------	--

<p><b>Risk Management Plan</b></p> <p>Is there a realistic, adequate and executable risk management plan for working in a tunnel?</p> <p>Risks that must be covered include:</p> <ul style="list-style-type: none"> <li>○ Working in confined spaces</li> <li>○ Working in low lighting</li> <li>○ Working in a cutting</li> <li>○ Working with dust</li> <li>○ Working at heights</li> </ul> <p>Comprehensive risk management plan showing processes and all resources required to identify and control all the risks</p> <p><b>What evidence is submitted:</b></p> <hr/> <hr/> <p><b>Where in your Tender file, is the evidence located:</b></p> <hr/> <hr/>	<p><b>10%</b></p>	<p>5 (10 %) Risk management policy and Risk management plan showing process to be followed, resources required and how it will be executed</p> <p>All risks covered</p> <p>4 (8 %) - Risk management policy and Risk management plan showing process to be followed, resources required and how it will be executed</p> <p>Only 4 risks covered</p> <p>3 (6 %) - Risk management policy and Risk management plan showing process to be followed, resources required and how it will be executed</p> <p>Only 1-3 risks covered</p> <p>2 (4 %) - Risk management plan showing some of the process to be followed, resources required and how it will be executed</p> <p>Not all risks management policy covered</p> <p>No quality standards mentioned</p> <p>1 (2 %) - QA plan submitted is a generic document and not project specific</p> <p>0 (0 %) - No QA plan submitted</p>
<p><b>Health and Safety Plan</b></p> <p>Does the H&amp;S plan adhere to Transnet E4E document</p> <p>Contractor must show satisfactory adherence to clauses 8 to 25 of the E4E Document</p> <p><b>What evidence is submitted:</b></p> <hr/> <hr/>	<p><b>10%</b></p>	<p>5 (10 %) Plan submitted is 91-100% compliant to clauses 8-25</p> <p>4 (8 %) - Plan submitted is 81-90% compliant to clauses 8-25 and requires correction</p>

<p><b>Where in your Tender file, is the evidence located:</b></p> <hr/> <hr/>	<p>3 (6 %) - Plan submitted is 51-80% compliant to clauses 8-25 compliant and requires correction</p> <p>2 (4 %) - Plan submitted is 0-50% compliant to clauses 8-25 and requires correction</p> <p>1 (2 %) - Plan submitted is generic and does not comply to E4E document</p> <p>0 (0 %) - No Health and Safety plan submitted</p>
---	--

<p><b>Total Weighting:</b></p>	<p><b>100</b></p>
<p><b>Minimum qualifying score required:</b></p>	<p>75</p>