

Transnet Freight Rail

an Operating Division of TRANSNET SOC LTD

[hereinafter referred to as **Transnet**]

[Registration No. 1990/000900/30]

REQUEST FOR PROPOSAL [RFP] [GOODS/SERVICES]

FOR THE FRAMING OF AN APPROVED LIST FOR THE SUPPLY OF ALUMINOTHERMIC/THERMITE WELDING AND CONSUMABLES

– THE PROCUREMENT EVENT WILL MAKE PROVISION FOR:

- **FRAMING OF AN APPROVED LIST OF SUPPLIERS OF ALUMINOTHERMIC/THERMITE WELDING AND CONSUMABLES COMPOSED OF SUPPLIERS THAT HAVE BEEN PREVIOUSLY TESTED AND TECHNICALLY APPROVED BY TRANSNET**
- **SUBMISSION OF PROPOSALS BY NEW POTENTIAL MARKET ENTRANTS TO BE TESTED FOR APPROVAL BY TFR WITH THE AIM OF ADDING THEM TO THE FRAMED APPROVED LIST**

RFP NUMBER:	HOAC – HO - 34585
ISSUE DATE:	18 MAY 2022
CLOSING DATE:	17 JUNE 2022
CLOSING TIME:	10:00 AM
BID VALIDITY PERIOD:	180 Business Days from Closing Date (10.03.2023)

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RFP FOR THE FRAMING OF AN APPROVED LIST FOR THE ALUMINOTHERMC / THERMITE WELDING AND CONSUMABLES**SECTION 1: SBD1 FORM****PART A****INVITATION TO BID**

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF TRANSNET FREIGHT RAIL, A DIVISION TRANSNET SOC LTD							
BID NUMBER:	HOAC – HO - 34585	ISSUE DATE:	18.05.2022	CLOSING DATE:	17.06.2022	CLOSING TIME:	10:00 AM
DESCRIPTION	RFP FOR THE FRAMING OF AN APPROVED LIST FOR THE ALUMINOTHERMC / THERMITE WELDING AND CONSUMABLES						
BID RESPONSE DOCUMENTS SUBMISSION							
RESPONDENTS ARE TO UPLOAD THEIR BID RESPONSE PROPOSALS ONTO THE TRANSNET SYSTEM AGAINST EACH TENDER SELECTED (please refer to section 2, paragraph 3 for a detailed process on how to upload submissions): https://www.transnet.net							
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO							
CONTACT PERSON	Khayakazi Magopheni						
TELEPHONE NUMBER	011 584 0578						
E-MAIL ADDRESS	Khayakazi.magopheni@transnet.net						
SUPPLIER INFORMATION							
NAME OF BIDDER							
CONTACT PERSON							
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:		AND	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		

Respondent's Signature

Date & Company Stamp

[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED FOR PURPOSES OF COMPLIANCE WITH THE B-BBEE ACT]

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

IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES THE ENTITY HAVE A BRANCH IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?	<input type="checkbox"/> YES <input type="checkbox"/> 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 INVITATION TO BID**

Responses to this RFP [hereinafter referred to as a **Bid** or a **Proposal**] are requested from persons, companies, close corporations or enterprises [hereinafter referred to as an **entity, Respondent** or **Bidder**].

DESCRIPTION	RFP FOR THE FRAMING OF AN APPROVED LIST FOR THE ALUMINOTHERMC / THERMITE WELDING AND CONSUMABLES
TENDER ADVERT	All Transnet tenders are advertised on the National Treasury's e-Tender Publication Portal and the Transnet website. Should one of these media (i.e. National Treasury's e-Tender Publication Portal or Transnet website) not be available, bidders are advised to check on the other media for advertised tenders.
RFP DOWNLOADING	<p>This RFP may be downloaded directly from National Treasury's e-Tender Publication Portal at www.etenders.gov.za free of charge.</p> <p>To download RFP and Annexures:</p> <ul style="list-style-type: none"> • Click on "Tender Opportunities"; • Select "Advertised Tenders"; • In the "Department" box, select Transnet SOC Ltd. <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>The RFP may also be downloaded from the Transnet website at www.transnet.net free of charge. To access the Transnet eTender portal, please click here (refer to section 2, paragraph 3 below for detailed steps)</p>
COMMUNICATION	<p>Any addenda to the RFP or clarifications will be published on the e-tender portal and Transnet website. Bidders are required to check the e-tender portal or Transnet website prior to finalising their bid submissions for any changes or clarifications to the RFP.</p> <p>Transnet will not be held liable if Bidders do not receive the latest information regarding this RFP with the possible consequence of either being disadvantaged or disqualified as a result thereof.</p>
BRIEFING SESSION	<p>Yes – Compulsory</p> <p>Bidders are required to confirm their participation by sending an email with their contact details to the following email details including the number of representatives (where applicable) to the following address: Lerato.Morillane@transnet.net.</p> <p>Refer to paragraph 2 for details.</p>
CLOSING DATE	<p>10:00 am on Friday 17 June 2022</p> <p>Bidders must ensure that bids are uploaded timeously onto the system.</p> <p>As a general rule, if a bid is late, it will not be accepted for consideration.</p>
VALIDITY PERIOD	<p>180 Business Days from Closing Date (10.03.2023)</p> <p>Bidders are to note that they may be requested to extend the validity period of their bid, at 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.</p> <p>With regard to the validity period of next highest ranked bidders, please refer to Section 2, paragraph 11.12</p>

Any additional information or clarification will be published on the e-Tender portal and Transnet website, if necessary.

2 FORMAL BRIEFING

A compulsory formal briefing session will be held electronically via Microsoft Teams on Thursday 26 May 2022@ 11:00 AM. Respondents are required to confirm their participation by sending an email with their contact details to the following email address: Khayakazi.magopheni@transnet.net on or before Wednesday 25 May 2022@ 15:30. to be connected.

2.1 *An email from the administrator will follow the meeting, confirming attendance. This email is to be included as part of the bid submission as proof that the bidder attended the meeting.*

3 PROPOSAL SUBMISSION

Transnet has implemented a new electronic tender submission system, the e-Tender Submission Portal, in line with the overall Transnet digitalization strategy where suppliers can view advertised tenders, register their information, log their intent to respond to bids and upload their bid proposals/responses on to the system.

a) The Transnet e-Tender Submission Portal can be accessed as follows:

- Log on to the Transnet eTender management platform website (<https://www.transnet.net>);
- Click on "TENDERS";
- Scroll towards the bottom right hand side of the page;
- On the blue window click on "register on our new eTender Portal";
- Click on "ADVERTISED TENDERS" to view advertised tenders;
- Click on "SIGN IN/REGISTER – for bidder to register their information (must fill in all mandatory information);
- Click on "SIGN IN/REGISTER" - to sign in if already registered;
- Toggle (click to switch) the "Log an Intent" button to submit a bid;
- Submit bid documents by uploading them into the system against each tender selected.

4 RFP INSTRUCTIONS

4.1 Please sign documents [sign, stamp and date the bottom of each page] before uploading them on the system. The person or persons signing the submission must be legally authorised by the respondent to do so.

4.2 **All returnable documents tabled in the Proposal Form [Section 5] must be returned with proposals.**

4.3 Unless otherwise expressly stated, all Proposals furnished pursuant to this RFP shall be deemed to be offers. Any exceptions to this statement must be clearly and specifically indicated.

4.4 Any additional conditions must be embodied in an accompanying letter. Subject only to clause 15 [Alterations made by the Respondent to Bid Prices] of the General Bid Conditions, paragraph 13 below (Legal Review) and Section 6 of the RFP, alterations, additions or deletions must not be made by the Respondent to the actual RFP documents.

5 JOINT VENTURES OR CONSORTIUMS

Respondents who would wish to respond to this RFP as a Joint Venture [JV] or consortium with B-BBEE entities, must state their intention to do so in their RFP submission. Such Respondents must also submit a signed JV or consortium agreement between the parties clearly stating the percentage [%] split of business and the associated responsibilities of each party. If at the time of the bid submission such a JV or consortium agreement

has not been concluded, the partners must submit confirmation in writing of their intention to enter into a JV or consortium agreement should they be awarded business by Transnet through this RFP process. This written confirmation must clearly indicate the percentage [%] split of business and the responsibilities of each party. In such cases, award of business will only take place once a signed copy of a JV or consortium agreement is submitted to Transnet.

6 COMMUNICATION

- 6.1 For specific queries relating to this RFP, an RFP Clarification Request Form should be submitted onto the system and to [Khayakazi Magopheni] before **14:00 pm on 09 June 2022**, substantially in the form set out in Section 7 hereto. In the interest of fairness and transparency, Transnet's response to such a query will be published on the e-tender portal and Transnet website.
- 6.2 After the closing date of the RFP, a Respondent may only communicate with the Secretariat of the Divisional Bid Adjudication Committee (DBAC), at telephone number 011-584 0821, email prudence.nkabinde@transnet.net on any matter relating to its RFP Proposal.
- 6.3 Respondents are to note that changes to its submission will not be considered after the closing date.
- 6.4 It is prohibited for Respondents to attempt, either directly or indirectly, to canvass any officer or employee of Transnet in respect of this RFP between the closing date and the date of the award of the business.
- 6.5 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.

7 CONFIDENTIALITY

All information related to this RFP is to be treated with strict confidence. In this regard Respondents are required to certify that they have acquainted themselves with the Non-Disclosure Agreement. All information related to a subsequent contract, both during and after completion thereof, will be treated with strict confidence. Should the need however arise to divulge any information related to this RFP or the subsequent contract, written approval must be obtained from Transnet.

8 COMPLIANCE

The successful Respondent [hereinafter referred to as the **Supplier/Service provider**] shall be in full and complete compliance with any and all applicable laws and regulations.

9 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.

10 DISCLAIMERS

Respondents are hereby advised that Transnet is not committed to any course of action as a result of its issuance of this RFP and/or its receipt of Proposals. In particular, please note that Transnet reserves the right to:

- 10.1 modify the RFP's Goods/Services and request Respondents to re-bid on any such changes;
- 10.2 reject any Proposal which does not conform to instructions and specifications which are detailed herein;
- 10.3 disqualify Proposals submitted after the stated submission deadline [closing date];

- 10.4 cancel the bid process;
- 10.5 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;
- 10.6 request audited financial statements or other documentation for the purposes of a due diligence exercise;
- 10.7 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 provided for it;
- 10.8 to cancel the 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;

Note that Transnet will not reimburse any Respondent for any preparatory costs or other work performed in connection with its Proposal, whether or not the Respondent is awarded a contract.

11 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. A material deviation from the Standard terms or conditions could result in disqualification.

12 SECURITY CLEARANCE

Acceptance of this bid could be subject to the condition that the Successful Respondent, its personnel providing the Goods/Services 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.

13 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. Respondents must register on the CSD prior to submitting their bids. 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.

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.

14 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:

 **Ethics Helpdesk** (Pty) Ltd.
Ethics Management System™

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

				
	AI Voice Bot "Jack" 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.	What's App Speak to an Agent via What's App.	Speak to an Agent Speak to an Agent via the platform with no call or data charge	Telegram Speak to an Agent via Telegram
 0800 003 056	 086 551 4153	 reportit@ethicshelpdesk.com	 *120*0785980808#	

SECTION 3: BACKGROUND, OVERVIEW AND SCOPE OF REQUIREMENTS

1 BACKGROUND

Thermite welding is a casting process that uses ferrous metallic oxides which produces a highly exothermic reaction when ignited. The heat produced by the reaction produces molten metal which fills a mould forming a weld. The thermite or aluminothermic welding process has been used on the rail network to join new rails on site or for maintenances purposes such as the joining of broken rails.

Welding of rails is crucial for business continuity on the rail network as a continuous guideway is necessary for trains to pass. The weld serves the following functions on the track:

- It provides sufficient strength and stiffness as the parent metal.
- Holds both rail ends in their precise location in the horizontal and vertical planes thus providing continuity of the track.
- Provide an adequate extension gap for free expansion and contraction caused by a temperature gradient;
- And flexibility for easy replacement of rails and low initial and maintenance costs.

In order for the welded joints to fulfil the aforementioned functions, welds need to be of good quality and suitable for the rail types. Thermite welding processes and consumables are non-standard items and cannot be sourced from non-approved suppliers. To ensure processes and consumables are suitable for Transnet freight rail infrastructure testing has to be conducted.

Transnet Freight Rail currently uses two approved aluminothermic rail welding processes, that is, SKV and QP process.

2 EXECUTIVE OVERVIEW

Through this open tender advertisement, Transnet Freight Rail, in accordance with National Treasury guidelines, intends to frame an approved list of approved products or processes for the supply of Aluminothermic / thermite welding and consumables, intended for the construction and maintenance of Transnet Freight Rail's own rail infrastructure.

The open tender process is prescribed to allow existing and potential new market entrants/suppliers to present a proposal to Transnet, requesting to be considered for such a list.

The selected Service provider(s) must share in the mission and business objectives of Transnet. These mutual goals will be met by meeting contractual requirements and new challenges in an environment of teamwork, joint participation, flexibility, innovation and open communications. In this spirit of partnership, Transnet and its Supplier/Service provider(s) will study the current ways they do business to enhance current practices and support processes and systems. Such a partnership will allow Transnet to reach higher levels of quality, service and profitability.

3 SCOPE OF REQUIREMENTS

3.1 Technical Specification

The 'Testing Requirements for the Approval of Aluminothermic Welding Processes of Rails (BBH 3441)' specification accentuates the requirements for testing and approval of aluminothermic rail welding processes for joining rails. The specification shall be used to approve the technical requirements of the product/process provided by the manufacturer/ supplier to Transnet Freight Rail.

Framing an approved list of technically approved thermite welding processes suitable for use for track welding at Transnet Freight Rail.

3.2 The Requirements

The fundamental requirement for this procurement event is to **conduct a technical evaluation and approve aluminothermic or thermite rail welding processes.**

It is mandatory for all bidders to comply with the requirements of the technical specification 'Testing Requirements for the Approval of Aluminothermic Welding Processes of Rails (BBH 3441)'. Non-compliance or alternatives to a specific requirement in the specification document must be clearly indicated.

The bidders must complete and return submission documents for the specification in the tender. Each completed submission document shall be supported by the **Technical Data Sheet, reports and/ or letters** and any other relevant supporting documents as required by various clauses in the technical specification.

Bidders are to submit their product manuals and relevant metallurgical quality analysis reports of their products/process as per **TFR technical BBH 3441** and BS EN 14730-1:2017.

The technical evaluation consists of a paper exercise (assessing returnable documents), evaluation of metallurgical quality analysis test reports obtained from an ISO 17025 accredited (or equivalent standard) laboratory or facility for the required quality analysis test methods.

3.3 Performance Requirements

The bidders shall ensure that all required metallurgical quality analysis tests are carried out in an independent ISO 17025 accredited (or equivalent standard) laboratory. The required tests are depicted in the attached **TFR technical specification BBH 3441**. See attached specifications to this document.

3.4 Testing process

Testing for the framing of an Approved List is to be issued with a particular aim of opening up the market for new market entrants. Bidders who have a memorandum of understanding (MOU) with a company whose product or process was previously approved by TFR, the process or product will be treated as an approved process or product however the company must also complete a technical proposal. Bidders that have not been previously approved by TFR but own the product or process must provide a letter stating that they're the Original Equipment Manufacturer (OEM), and bidder who are not OEMs should provide an MOU.

Thermite welding consumables are technically sensitive for TFR, as such they must all be approved prior deployment onto the rail network. Bidders will need to demonstrate that their products or processes do comply with Transnet's Technical specifications (Annexure C) in order to qualify for inclusion on the approved list.

During the technical evaluation of the respective suppliers, timelines will be agreed upon to ensure that suppliers provide the appropriate documentation/samples for test and evaluation.

3.5 Testing Requirements

The bidder(s) must cast a **minimum of four** rail samples welded using the proposed aluminothermic process for the demonstration.

The rail profiles and the respective rail grade required for this approval process can be seen on Table 2. Two types of tests will be conducted on the samples. No other rail profiles or grades will be accepted.

Table 1: Rail Profile and Rail Grade testing Requirements

Rail profile/grade	SAMPLES REQUIRED		Number of samples
	Quality Analysis	Bend Test	
60E1-R350LHT	1	1	2
SAR57-R260 or SAR48-R260	1	1	2
TOTAL			4
*For the R260 rails, the same rail profile shall be tested (quality analysis and bend test) i.e., if bidder chooses to test SAR57 both samples must be SAR57, same case for the SAR48. Transnet reserves the rights to request additional tests to be conducted.			

The required sample for bend test shall be a minimum of 600 mm in length on either side of the weld. It is the duty of the bidder to ensure that symmetry is achieved on sample as mandated by BS EN 14730-1:2017 Annex E.

The sample for metallurgical quality analysis tests (i.e., microscopic examination, macroscopic examination, running surface hardness test, micro Vicker's hardness profile and chemical composition) as per **TFR technical specification BBH 3441** and/or BS EN 14730-1:2017 shall be a minimum length of 200 mm on either side of the weld.

Demonstrations of the bidder's process/products will be required for conditionally approved/shortlisted bidders for testing. The demonstrations shall be done in the presence of TFR appointed technical officers. The locations will be communicated to the shortlisted bidder(s).

For the demonstrations, the bidder(s) will be required to weld in accordance to clause 5.11.2 of BBH 3441. Radiographic examination will then be conducted to ascertain the internal quality of the weld and quality analysis will be conducted on cast welds at an independent ISO 17025 accredited (or equivalent standard) laboratory.

Bidders with previously approved products must provide recent metallurgical quality report of weld cast using process for R350LHT – 60E1. Tests shall include microscopic examination, macroscopic examination, running surface hardness tests, micro Vicker's hardness profile, chemical composition and bend test. All tests done in accordance with BS EN 14730-1:2017 (Reports not older than 5 years).

The bidder shall provide detailed information or provide a list of all the tools and ancillary equipment required to execute aluminothermic welds including post weld heat treatment tools where applicable.

The bidder(s) shall carry all the necessary costs (not mentioned on paragraph 3.6) incurred during the entire procurement process.

3.6 Cost Implications or Budget Requirements

The cost implications during the tendering process shall be as follows:

The bidder shall be liable for all costs related to providing welded samples, this is inclusive of but not limited to the following:

- The sourcing rail samples to be used for testing
- Welding of samples
- Testing of samples prior to submission
- Cost incurred for demonstration of welding process inclusive of radiographic testing of cast welds,
- Laboratory testing of samples for final approval (Applicable to bidders who have been successfully shortlisted for testing)

4 GREEN ECONOMY / CARBON FOOTPRINT

Transnet wishes to have an understanding of your company's position with regard to environmental commitments, including key environmental characteristics such as waste disposal, recycling and energy conservation. *Please submit details of your entity's policies in this regard.*

5 GENERAL SERVICE PROVIDER OBLIGATIONS

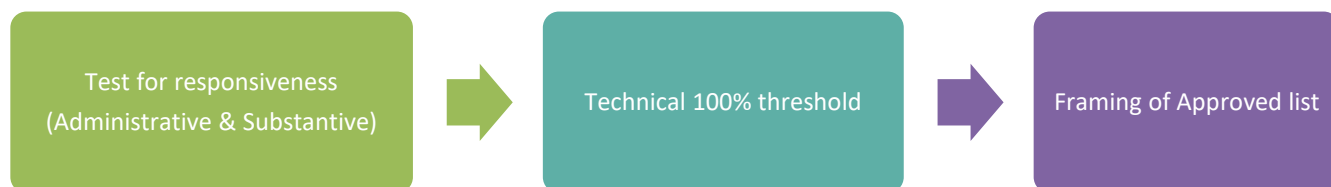
5.1 The Service provider(s) shall be fully responsible to Transnet for the acts and omissions of persons directly or indirectly employed by them.

5.2 The Service provider(s) must comply with the requirements stated in this RFP.

6 EVALUATION METHODOLOGY

Transnet will utilise the following methodology and criteria in framing the approved list:

The approved list shall be framed on the basis of administrative, substantive and technical evaluation, then when the list is utilised, qualifying members of the approved list will be invited to submit bids to be evaluated on all applicable criterion (Administrative, Substantive, Functionality and the price & preference).



6.1 STEP ONE: Test for Administrative Responsiveness

The test for administrative responsiveness will include the following:

Administrative responsiveness check	RFP Reference
• Whether the Bid has been lodged on time	<i>Section 1 paragraph 3</i>
• Whether all Returnable Documents and/or schedules [where applicable] were completed and returned by the closing date and time	<i>Section 5</i>
• Verify the validity of all returnable documents	<i>Section 5</i>
• Verify if the Bid document has been duly signed by the authorised respondent	<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

6.2 STEP TWO: Test for Substantive Responsiveness to RFP

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

Check for substantive responsiveness	RFP Reference
• Whether any general and legislation qualification criteria set by Transnet, have been met	<i>All sections</i>
• Whether the Bid materially complies with the scope and/or specification given	<i>All Sections</i>

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

6.3 STEP THREE: Minimum Threshold 100 points for Technical Criteria

Failure to achieve the 100 points thresholds will lead to disqualification. The test for the Technical and Functional threshold will include the following:

Annexure A Clause – by clause: Bidders with processes or products that have been previously approved by TFR shall be required to complete the clause – by – clause questionnaire. As well as bidders who have an MOU with suppliers whose product/process has been previously approved shall also complete this annexure.

Annexure B Technical proposal: Bidders offering unapproved products or processes shall be required to complete the technical proposal questionnaire.

Bidders who have been previously approved for a certain process and would like to propose a different welding process (unapproved by TFR) shall complete both annexure A and annexure B.

*Respondents must complete and submit the relevant annexure (either annexure A: clause – by - clause or annexure B: technical proposal) for Technical Evaluation. A Respondent's compliance with the minimum technical threshold will be measured by their responses to the relevant **Annexure**.*

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

6.4 STEP FOUR: Framing of Approved suppliers

- **Annexure A** - Upon receipt of bid submissions (including compliance to technical requirements for approved process or products and confirmation of the stated approval status of process or products), the approved process or products will be recommended for inclusion to an approved list.
- **Annexure B** - Bidders who have passed the technical evaluation for process or products not yet approved shall be informed that they have been shortlisted to enter the phases of their approval process and that they have to make their submissions as outlined in the Request for Proposal (RFP). These suppliers and their products shall be added onto the framed approved list as and when they are conditionally or fully approved and will then be eligible to participate in future tenders that will be issued against the approved list.

*All bidders, those that were previously tested and those with unapproved products will be subjected to the same testing requirements, as testing requirement for previous contract and technical specification to be included in current Approval List are both established from BS EN 14730-1 'Railway applications — Track— Aluminothermic welding of rails Part 1: Approval of welding processes'.

7 SUBMISSION OF TECHNICAL INFORMATION AND SAMPLES

- Bidders offering non approved products shall be requested to submit technical information, prototypes and samples of their products for testing.
- The exact requirements and submission timelines and logistical details will be communicated to potential suppliers in writing on conclusion of this event and will be in accordance with the specification.
- The sample(s) must be clearly marked with the reference number of this RFP and the names and addresses of both the bidder and the manufacturer.

8 MANUFACTURERS

The Respondents must state hereunder the actual manufacturer(s) of the Goods tendered for:

8.1 Local Manufacturer(s):

RFP ITEM NO.	NAME	BUSINESS ADDRESS

8.2 Foreign Manufacturer(s):

RFP ITEM NO.	NAME	BUSINESS ADDRESS

9 INSPECTION DETAILS

The Respondents must state the actual name(s) and address/addresses of the suppliers of the Goods for inspection purposes only:

9.1 Local Manufacturer(s)

RFP ITEM NO.	NAME	BUSINESS ADDRESS

9.2 Foreign Manufacturer(s):

RFP ITEM NO.	NAME	BUSINESS ADDRESS

10 IMPORTED CONTENT

The Respondents must state hereunder the value and percentage of the imported content as well as the country of origin in respect of each item tendered for:

RFP ITEM NO / DESCRIPTION.	VALUE	% COST	COUNTRY OF ORIGIN

Note: Where more than one country is applicable to one item, the Respondents must furnish this information separately.

11 NATIONAL RAILWAY SAFETY REGULATOR ACT

In compliance with the National Railway Safety Regulator Act, 16 of 2002, the successful Respondent [**the Supplier**] shall ensure that the Goods to be supplied to Transnet, under the terms and conditions of a contract between the parties, comply fully with the specifications as set out in **Annexure A1 [Specifications]** of this RFP, and shall also adhere to railway safety requirements and/or regulations [as applicable]. Permission for the engagement of a subcontractor by the Supplier, as applicable, both initially and during the course of a contract, shall be subject to a review of the capability of the proposed subcontractor to comply with the specified railway safety requirements and/or regulations. The Supplier

and/or its subcontractor shall grant Transnet access, during the term of the contract, to review any safety-related activities, including the coordination of such activities across all parts of the organisation.

Accepted:

YES	
------------	--

NO	
-----------	--

12 RISK

Respondents must elaborate on the control measures put in place by their entity, which would mitigate the risk to Transnet pertaining to potential non-performance by the Respondent, in relation to:

12.1 Quality and specification of Goods/Services delivered:

12.2 Continuity of supply:

12.3 Compliance with the Occupational Health and Safety Act, 85 of 1993:

12.4 Compliance with the National Railway Safety Regulator Act, 16 of 2002:

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: _____

Respondent's Signature

Date & Company Stamp

SECTION 4: PROPOSAL FORM AND LIST OF RETURNABLE DOCUMENTS

I/We _____

[name of entity, company, close corporation or partnership] of [full address]

carrying on business trading/operating as

represented by _____

in my capacity as _____

being duly authorised thereto by a Resolution of the Board of Directors or Members or Certificate of Partners, dated _____ to enter into, sign execute and complete any documents relating to this proposal and any subsequent Agreement. The following list of persons are hereby authorised to negotiate on behalf of the abovementioned entity, should Transnet decide to enter into Post Tender Negotiations with highest ranked bidder(s).

FULL NAME(S)	CAPACITY	SIGNATURE
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

I/We hereby offer to supply/provide the abovementioned Goods/Services in accordance with the terms set forth in the documents listed in the accompanying schedule of RFP documents.

I/We accept that unless Transnet should otherwise decide and so inform me/us in the letter of award, this Proposal [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 Proposal, and fail to provide the provision of Goods/Services within the agreed period thereafter, Transnet may, without prejudice to any other legal remedy which it may have, recover from me/us any expense to which it may have been put in calling for Proposals afresh and/or having to accept any less favourable Proposal.

Furthermore, I/we agree to a penalty clause/s which will allow Transnet to invoke a penalty against us for non-compliance with material terms of this RFP including the delayed delivery of the Goods/Services due to non-performance by ourselves, , etc.

I/we agree that non-compliance with any of the material terms of this RFP, including those mentioned above, will constitute a material breach of contract and provide Transnet with cause for cancellation.

ADDRESS FOR NOTICES_____
Respondent's Signature_____
Date & Company Stamp

The law of the Republic of South Africa shall govern any contract created by the acceptance of this RFP. The *domicilium citandi et executandi* shall be a place in the Republic of South Africa to be specified by the Respondent hereunder, at which all legal documents may be served on the Respondent who shall agree to submit to the jurisdiction of the courts of the Republic of South Africa. Foreign Respondents shall, therefore, state hereunder the name of their authorised representative in the Republic of South Africa who has the power of attorney to sign any contract which may have to be entered into in the event of their Proposal being accepted and to act on their behalf in all matters relating to such contract.

Respondent to indicate the details of its *domicilium citandi et executandi* hereunder:

Name of Entity:

Facsimile: _____

Address: _____

NOTIFICATION OF AWARD OF RFP

As soon as possible after approval to award the contract(s), the successful Respondent [**the Supplier/Service provider**] will be informed of the acceptance of its Proposal. Unsuccessful Respondents will be advised in writing of the name of the successful Supplier/Service provider and the reason as to why their Proposals have been unsuccessful, for example, in the category of price, delivery period, quality, B-BBEE status or for any other reason.

VALIDITY PERIOD

Transnet requires a validity period of 180 Business Days (10.03.2023) [from closing date] against this RFP, excluding the first day and including the last day.

NAME(S) AND ADDRESS / ADDRESSES OF DIRECTOR(S) OR MEMBER(S)

The Respondent must disclose hereunder the full name(s) and address(s) of the director(s) or members of the company or close corporation [**C.C.**] on whose behalf the RFP is submitted.

(i) Registration number of company / C.C. _____

(ii) Registered name of company / C.C. _____

(iii) Full name(s) of director/member(s) Address/Addresses ID Number(s)

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	<i>Failure to provide all these Mandatory Returnable Documents at the Closing Date and time of this RFP <u>will</u> result in a Respondent's disqualification.</i>
--------------------------------	---

Respondent's Signature

Date & Company Stamp

Returnable Documents Used for Scoring	<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>
Essential Returnable Documents	<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>

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:

MANDATORY RETURNABLE DOCUMENTS	SUBMITTED [Yes or No]
Section 1: SBD	

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:

RETURNABLE DOCUMENTS USED FOR SCORING	SUBMITTED [Yes or No]
ANNEXURE A: Clause – by - Clause	
ANNEXURE B: Technical proposal	

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:

CONTINUED VALIDITY OF RETURNABLE DOCUMENTS

ESSENTIAL RETURNABLE DOCUMENTS & SCHEDULES	SUBMITTED [Yes /No / N/A]
An Approval letter by TFR from bidders whose product or process has been previously approved by TFR and a Metallurgical quality report not older than 5 years	
An Memorandum of Understanding (MOU) between the Bidder and the Original Equipment Manufacturer (OEM) whether previously approved or nonapproved, authorising the bidder to offer the product or process to Transnet.	
Bidders that have not been previously approved by TFR but own the product or process must provide a letter stating that they're the OEM	
SECTION 4: Proposal Form and List of Returnable documents	
SECTION 5: Certificate Of Acquaintance with RFP, Terms & Conditions & Applicable Documents	
SECTION 6: RFP Declaration and Breach of Law Form	
SECTION 8: B-BBEE Preference Claim Form	
SECTION 9: Protection of Personal Information	

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 RFP. 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.

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: _____

Respondent's Signature

Date & Company Stamp

SECTION 5: CERTIFICATE OF ACQUAINTANCE WITH RFP, MASTER AGREEMENT & APPLICABLE 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 RFP. 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 SOC Ltd 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 for the purpose of calculating tendered prices or any other purpose:

1	Specifications and drawings attached to this RFP
----------	--

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

Bidders accept that an obligation rests on them to clarify any uncertainties regarding any bid to which they intend to respond on, 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 RFP was unclear but in respect of which he/she failed to obtain clarity.**

The bidder understands that his/her Bid will be disqualified if the Certificate of Acquaintance with RFP documents included in the RFP as a returnable document, is found not to be true and 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: _____

Respondent's Signature

Date & Company Stamp

SECTION 6: RFP 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 RFP Clarification purposes;
2. We have received all information we deemed necessary for the completion of this Request for Proposal [**RFP**];
3. We have been provided with sufficient access to the existing Transnet facilities/sites and any and all relevant information relevant to the Goods/Services 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 RFP from Transnet sources, other than information formally received from the designated Transnet contact(s) as nominated in the RFP documents;
5. We are satisfied, insofar as our entity is concerned, that the processes and procedures adopted by Transnet in issuing this RFP and the requirements requested from Bidders in responding to this RFP have been conducted in a fair and transparent manner;
6. We have complied with all obligations of the Bidder/Supplier as indicated in the Transnet Supplier Integrity 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;
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 the Transnet Group 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 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 RFP; 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.

BIDDER'S DISCLOSURE (SBD4)

12 PURPOSE OF THE FORM

12.1 Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

12.2 Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

13 Bidder's declaration

13.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state?

YES/NO

13.1.1. If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

¹ the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

13.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution?

YES/NO

13.2.1. If so, furnish particulars:

.....

13.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract?

YES/NO

13.3.1. If so, furnish particulars:

.....

14 DECLARATION

I, the undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

14.1 I have read and I understand the contents of this disclosure;

14.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;

14.3 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 consortium² will not be construed as collusive bidding.

14.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.

² 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.

14.5 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.

14.6 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.

14.7 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.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 12, 13 and 14 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

BREACH OF LAW

We further hereby certify that *I/we* (the bidding entity and/or any of its directors, members or partners) ***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 _____	AS WITNESS:
duly authorised hereto	
Name:	Name:
Position:	Position:
Signature:	Signature:
Date:	Registration No of Company/CC
Place:	Registration Name of Company/CC

Respondent's Signature_____
Date & Company Stamp

Date & Company Stamp

SECTION 8: 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.

Although not relevant for the framing of an approved list, 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 when the RFP for awarding the contract is issued.

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.

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
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 Either the 80/20 or 90/10 preference point system will apply **[This clause is to be used where it is unclear as to which preference point system will be applicable]**

1.3 Preference points for this bid shall be awarded for:

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

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

	POINTS
PRICE	80/90
B-BBEE STATUS LEVEL OF CONTRIBUTION	20/10
Total points for Price and B-BBEE must not exceed	100

1.5 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.

1.6 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"**
 - i) the B-BBEE status level certificate issued by an authorised body or person;
 - ii) a sworn affidavit as prescribed by the B-BBEE Codes of Good Practice; or
 - iii) any other requirement prescribed in terms of the B-BBEE Act.
- (j) **"QSE"** means a Qualifying Small 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);
- (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 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

$$P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right) \quad \text{or} \quad P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where

P_s = Points scored for comparative price of bid under consideration

P_t = Comparative price of bid under consideration

P_{\min} = Comparative price of lowest acceptable bid

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

- 4.1 In terms 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 (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	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
Large	Certificate issued by SANAS accredited verification agency
QSE	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 www.dti.gov.za/economic_empowerment/bee_codes.jsp .]
EME ³	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, 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 10 or 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*)

³ In terms of the Implementation Guide: Preferential Procurement Regulations, 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.

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 is to the below designated groups:

Designated Group: An EME or QSE which is at last 51% owned by:	EME ✓	QSE ✓
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		
OR		
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 Supplier/Service provider
- ☐ Other Suppliers/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-BBE status level of contribution indicated in paragraphs 1.4 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 1.4 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 a bidder submitted false information regarding its B-BBEE status level of contributor or any other matter required, which will affect or has affected the evaluation of a bid, or where a bidder has failed to declare any subcontracting arrangements 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 9: 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 RFP, 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 RFP 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 RFP, 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 RFP (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 RFP, the Respondent is hereby consenting to the processing of their personal information for the purpose of this RFP and further confirming that they are aware of their rights in terms of Section 5 of POPIA

Respondents are required to provide consent below:

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

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 RFP 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

ANNEXURE A

CLAUSE BY CLAUSE

Bidders with previously approved processes/products or bidders who have an MOU with suppliers who have been previously approved by Transnet Freight Rail are required to complete the clause by clause (Annexure A) checklist.

Mandatory requirements have been denoted by (*) failure to respond to requirement will disqualify bidder. All responses and supporting documents must be in English.

TECHNICAL EVALUATION FORM FOR THE FRAMING OF ALUMINOTHERMIC WELDING CONSUMABLES (PREVIOUSLY APPROVED PROCESSES & CONSUMABLES)							
Quality analysis reports included may not be older than 5 years.							
No.	Clause	Requirements	Requirement	Conforms		Type of proof to be submitted	Location / Page no. of Proof in file
				Yes	No		
1	Clause 5.2 in BS EN 14730-1:2017	Provide Process Name and Description	*			Report/ Process Manual including process description	
2		Provide proof of approval for previously tested processes and products for welding rails (For all the processes/products)	*			Approval letter(s) for each process/product from Transnet Freight Rail	
3	Clause 7.1.1 of the EN 14730_1:2017 specification	As-cast weld collar surface is visually sound and complies to visual surface examination.	*			Provide quality analysis report including visual examination.	
4	Clause 7.2 of the EN 14730_1:2017 specification	Running surface hardness measurements are within specified range.	*			Provide quality analysis report including running surface hardness test.	
5	Clause 7.3 of BS EN 14730_1:2006	Slow Bend test done in accordance to specification. Breaking load and deflection within specified range	*			Provide quality analysis report including slow bend test.	
6	Clause 7.6 of BS EN 14730_1:2017	Chemical Analysis done in accordance to the specification and within the specified range for rail type.	*			Provide quality analysis report including chemical analysis.	
7	Clause 7.4.4 of BS EN 14730_1:20117	Hardness distribution done in accordance to clause and within specified range.	*			Provide quality analysis report including hardness distribution examination.	
8	clause 1.4.4 in Technical Specification BBH 3441	The microstructure is pearlitic and the heat affected zone (HAZ) does not contain any bainite or martensite at x100 magnification.	*			Provide quality analysis report including microscopic examination.	
9	Clause 1.3.2 of Technical Specification BBH 3441.	Include ISO 17025 (or equivalent standard) certificate for laboratory used for Fatigue test. (If fatigue test is conducted)				Provide copy of valid certificate.	

ANNEXURE B

TECHNICAL PROPOSAL

Bidders with unapproved products are required to submit a technical proposal providing the details of their processes/products as part of their offering to Transnet Freight Rail. The evaluation criteria of the technical proposals have been Tabulated below.

Mandatory requirements have been denoted by (*) failure to respond to requirement will disqualify bidder. All responses and supporting document must be in English.

	Requirement	Mandatory Requirement	Clause	Conforms		Type of Proof Required	Location/Page no of Proof in File
				Yes	No		
1	Provide Process Name and Description	*	Clause 5.2 in BS EN 14730-1:2017			Report/ Process Manual including process description	
2	Provide a drawing of the pouring system and characteristic geometry of the weld collar	*	Clause 5.2 and 5.4 in BS EN 14730-1:2017			Labelled drawing with dimensions in SI units	
3	Provide product manual and welding procedure	*	Clause 1.2.4 of Technical Specification BBH3441			Product Manual and welding procedure	
4	Are the aluminothermic welding products and consumables compatible with the rail profiles and grades used at TFR.	*	Clause 1.2.2 & 1.2.7 of Technical Specification BBH3441.			Statement of Compliance including list rail profile and grades compatible with the product/process.	
5	Provide a detailed list of tools and ancillary equipment required to execute aluminothermic welds including post weld heat treated tools (if applicable)	*	-			List of tools and Ancillary Equipment	
6	Is the product/process used in more than one intentionally recognized railway?		-			Response in Writing	
7	Will the bidder be able to guarantee TFR with supply of product/process immediately after approval?		-			Response in Writing	
8	Does the supplier recognize that TFR reserves the right to arrange further testing of products?	*	-			Response in Writing	
9	What is the maximum difference in rail height and side wear that can be accommodated in normal practice?	*	Clause 9.2 of BS EN 13674-1:2011			Indicate maximum difference in rail height and side wear	
10	Radiography tests for welds cast will be conducted by a certified NDT organization.	*	Clause 1.3.2 of Technical			Statement of Compliance	





			Specification BBH 3441.				
	Requirement	Mandatory Requirement	Clause	Conforms		Type of Proof Required	Location/Page no of Proof in File
11	As-cast weld collar surface is visually sound and complies to visual surface examination.	*	Clause 7.1.1 of the EN 14730_1:2017 specification			Statement of Compliance	
12	Running surface hardness measurements are within specified range.	*	Clause 7.2 of the EN 14730_1:2017 specification			Statement of Compliance	
13	Slow Bend test done in accordance to specification. Breaking load and deflection within specified range	*	Clause 7.3 of BS EN 14730_1:2006			Statement of Compliance	
14	Chemical Analysis done in accordance to the specification and within the specified range for rail type.	*	Clause 7.6 of BS EN 14730_1:2017			Statement of Compliance	
15	Hardness distribution done in accordance to clause and within specified range.	*	Clause 7.4.4 of BS EN 14730_1:20117			Statement of Compliance	
16	The microstructure is pearlitic and the heat affected zone (HAZ) does not contain any bainite or martensite at x100 magnification.	*	clause 1.4.4 in Technical Specification BBH 3441			Statement of Compliance	
17	Provide quality analysis reports of welds cast using process/products tested against BS EN 14730-1 (if available)		Clause 1.2.5 in Technical Specification BBH 3441			Quality Reports from ISO 170	



A division of Transnet SOC Limited

RAIL NETWORK – TECHNICAL (WELDING)

TESTING REQUIREMENTS FOR THE APPROVAL OF ALUMINOTHERMIC WELDING PROCESSES OF RAILS

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	Kgabo Lekota Engineer Technology Management – Track Technology		
Authorised:	Siboniso Vilakazi Principal Engineer Rail Network - Technical		
		Date	02/12/2021

Circulation Restricted To:

Transnet Freight Rail
Approved third parties

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Foreword

This document details the technical requirements for the testing and approval of aluminothermic or exothermic welding procedures and processes for railway rails used by Transnet Freight Rail. All references to clauses, figures, tables and annexures refer to BS EN 14730-1:2017 , unless otherwise stated. The acceptance criteria will be as stipulated in BS EN 14730-1:2017 , any deviation shall be stated otherwise.

1.0 Introduction

- 1.0.1 This document provides guidelines for the technical testing requirements for approval of aluminothermic welding procedures and processes for new rails under laboratory conditions.
- 1.0.2 The guidelines detail the approval of rails by testing conducted on joints cast from new rail sections of the same rail grade with no difference in profile and wear.
- 1.0.3 The guidelines herein cover the requirements for initial compliance testing of welding processes and procedures.

1.1 Railway Authority

- 1.1.1 Transnet Freight Rail (TFR) as the railway authority uses exothermic welding to join two rails in track in accordance to the Track Welding Manual (**BBB8341_latest version**).
- 1.1.2 TFR currently has the following types of rails installed in track as per EN 13674-1:2011 specification;
 - 1.1.2.1 R260 / Grade 900 rail grade with SAR 48 and SAR 57 profiles. **See attached annexure.**
 - 1.1.2.2 R350LHT rail grade with 60E1 rail profiles, equivalent rail profiles of UIC60 and S-60-SAR shall be used for 60E1. **See attached annexure.**
- 1.1.3 Radiographic Evaluation on Transnet Freight Rail Lines **BBB8375_Revision 2**.
- 1.1.4 Other maintenance procedures conducted for rails and other track components are in accordance with the Manual for Track Maintenance (**BBB0481_latest version**).

1.2 General Requirements

- 1.2.1 The supplier shall provide TFR with an aluminothermic welding procedure and process that follows a single execution which allows for single use set up of all consumables , the processes' shall be approved in accordance with the specification BS EN 14730-1:2017.
- 1.2.2 The aluminothermic welding products, apparatus and consumables shall be compatible for satisfactory welding of the rail profile/rail grade combinations as stipulated in Table 1.

Table 1: Rail Profile and Rail Grade requirements

Rail Profile	Grade
60 E1	R350LHT
SAR57	R260
SAR48	R260

- 1.2.3 The welding process proposed by the bidder shall be capable of being carried out successfully on new rails , worn rails and combinations of such rails once it has been approved.
- 1.2.4 The supplier shall submit all documents that are specific to the welding process as listed in **clause 5.4 of BS EN 14730-1:2017 including a technical report or product manual.**
- 1.2.5 The supplier shall submit a comprehensive metallurgical report detailing all the results of the tests **in clause 1.3.2)** of this document excluding ultrasonic testing of this document.
- 1.2.6 The process shall be identified according to **clause 5.2 of BS EN 14730-1:2017.**
- 1.2.7 It shall be capable of being carried out in track, at or near a trackside or in a workshop.
- 1.2.8 The pre-heating process shall achieve the required welding temperature of 950° C as stipulated in the **Track Welding Manual (BBB8341_latest version)**. The process shall not result in excessively large austenite grains that weaken the heat affected zone.
- 1.2.9 The crucible shall tap automatically and shall be designed in a manner as to avoid spattering in accordance with **clause 5.3 in BS EN 14730-1:2017.**
- 1.2.10 Riser removal shall be done in such a manner that the resultant surface is flush or red.
- 1.2.11 The entire welding process shall not damage the rail.

1.3 Metallurgical Compliance Requirements

The bidder is required to provide quality analysis report(s) which includes a minimum of **four** aluminothermic welded samples tested by a third party (external) ISO 17025 accredited laboratory. Two types of tests will be conducted for the welded rails, that is, bend test and other quality tests such as chemical analysis, hardness (Vicker's), macroscopic examination and microscopic examination.

- 1.3.1 Compliance shall be achieved by undertaking the tests specified in category 3 of Table 2, **clause 5.5 in BS EN 14730-1:2017** specification exclusive of ultrasonic inspection. Tests will be conducted using R350LHT and R260 steel grade for 60E1, SAR57 and SAR48 rail profiles respectively.
- 1.3.2 The tests in Table 2 shall be conducted in accordance **with clause 7 of BS EN 14730-1:2017** using the steps listed in Annex A in the same standard. An ISO 17025 (or equivalent standard) accredited laboratory shall be used for testing, unless otherwise special permission is granted by a Principal Engineer of Rail Network Technical.
- 1.3.3 **Radiographic Testing (RT)** shall be conducted on all the samples as an additional non-destructive testing requirement. The x-ray film results shall be examined by a certified NDT organisation and will be evaluated in accordance to **Radiographic Evaluation on Transnet Freight Rail Lines BBB8375 Revision 2.**
- 1.3.4 Preparation and allocation test welds shall be done according to clause 5.7 of BS EN 14730-1:2017.

- 1.3.5 Approval shall be granted upon full compliance of the requirements of this document and specification **BS EN 14730-1:2017**.
- 1.3.6 **Re-approval following any change in the process after initial approval shall be conducted in accordance with clause 6 of BS EN 14730-1:2017.**

NB all references to tables and figures mentioned herein are in the BS EN 14730-1:2017 specification*

1.4 Additional Requirements

- 1.4.1 Vickers hardness test load 30kg shall be used for clause 1.3.2 of this document and any conversions from various loads must be stated clearly in the report.
- 1.4.2 Hardness profile measurements shall be made on a smooth ground surface in “as cast” condition. The hardness shall include the heat softened zone extending to both sides of rail until 20 mm of the unaffected parent rail (see Annex I in BS EN 14730-1:2017). Indents shall be taken longitudinally between 3 and 5 mm from the running surface of the rail crown at 2 mm intervals.
- 1.4.3 Hardness measurements for hardness profile shall graphically be represent as shown in Annex I2 in BS EN 14730-1:2017.
- 1.4.4 Samples for microscopic examination shall be taken and prepared in accordance to Annex H in BS EN 14730-1:2017. The microstructure shall be pearlite. The visible heat affected zone shall not contain any bainite or martensite examined at x100 magnification.
- 1.4.5 Cold etching shall be done to reveal the fusion zone of weld. The fusion zone shall exhibit a nominally symmetrical shape about the weld.
- 1.4.6 TFR shall request additional electronic images of the microstructures from the microscopic examination and of the visible heat affected zone if necessary.
- 1.4.7 TFR representatives shall witness all the welding tests including surface visual examination, slow bend test and radiographic testing.

1.5 Reference

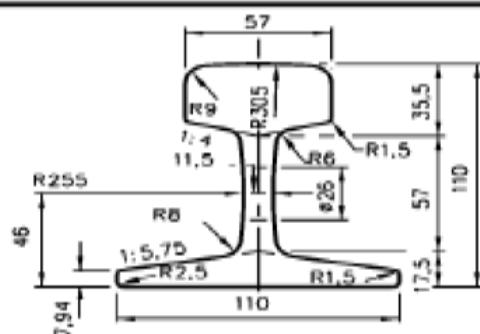
EN 14730-1:2017, Railway Applications-Track-Aluminothermic welding of rails-Part 1: Approval of welding processes.

BS EN 13674-1:2011, Railway Applications-Track-Rail-Part 1: Vignole railway rails 46kg/m and above

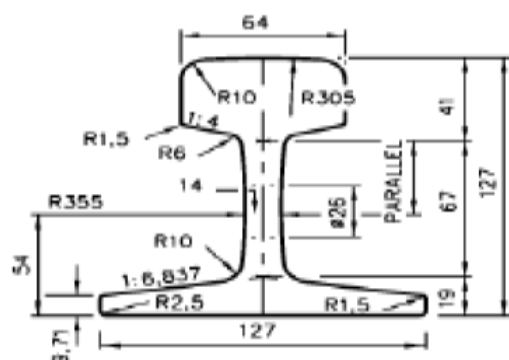
1.6 Annexures

- 1.6.1 The rails profiles below are as per annexure 14 of Transnet Freight Rail Manual for Track Maintenance (latest version). Other rail profiles not in this Annexure shall be found in BS EN 13674-1:2011 specification.

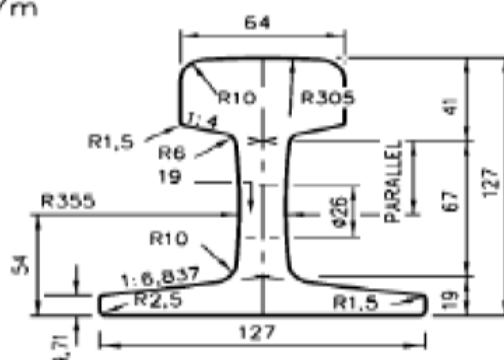
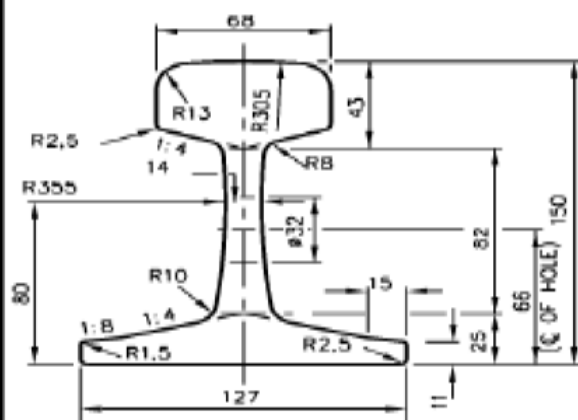
RAIL PROFILES

ANNEXURE 14
SHEET 1 of 6

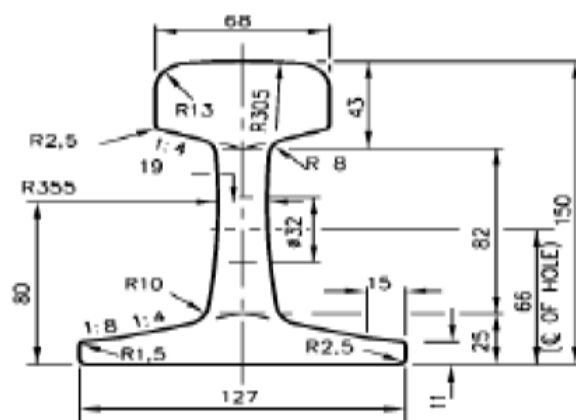
30kg/m



40kg/m

43kg/m
(HARBOUR AREAS)

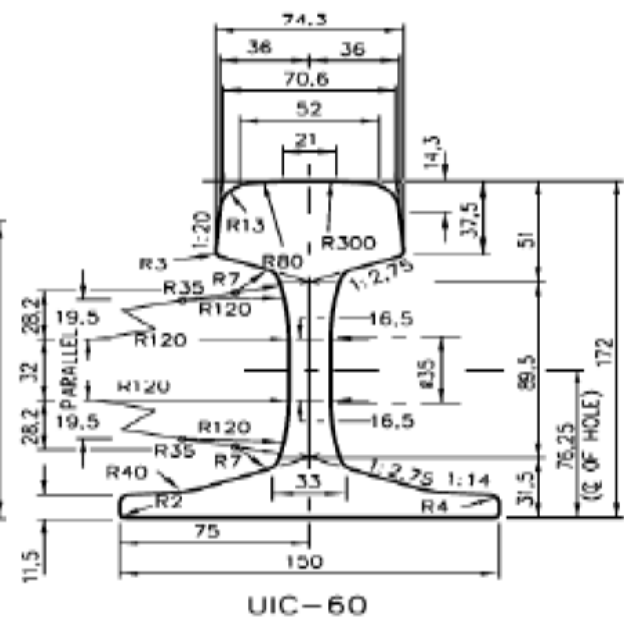
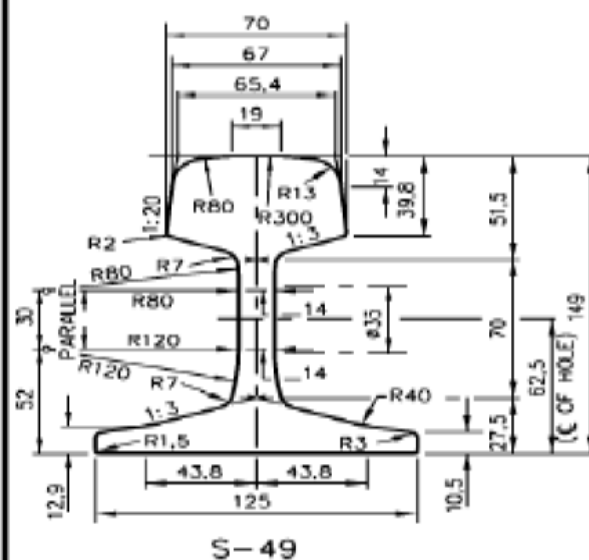
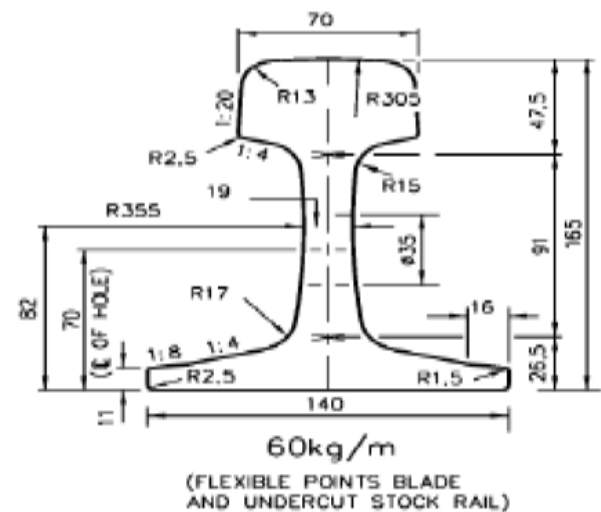
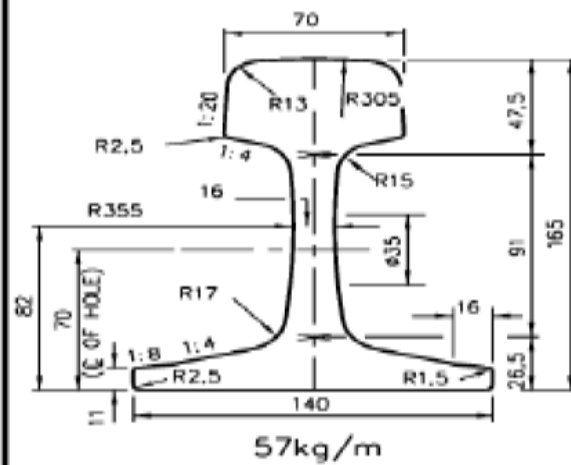
48kg/m

51kg/m
(FLEXIBLE POINTS BLADE
AND UNDERCUT STOCK RAIL)

REMARKS :
1. FOR PROPERTIES AND ROLL MARKS SEE
ANNEXURE 14 SHEETS 4 TO 6

BE 97-14 Sht 1 Version 2

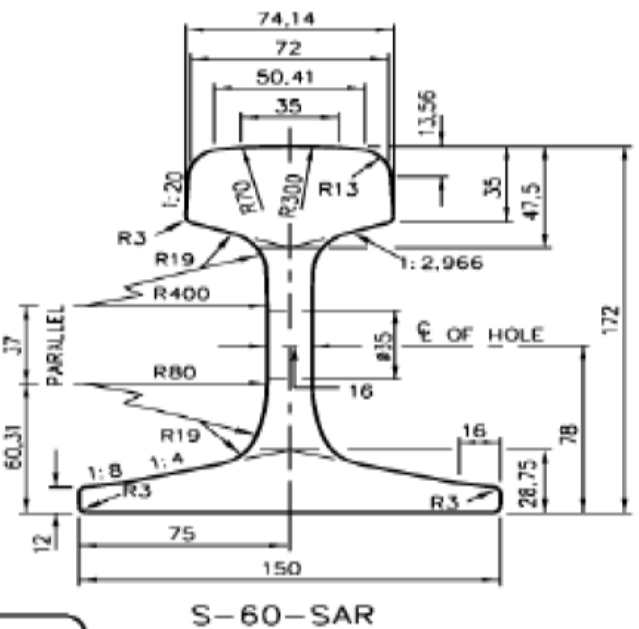
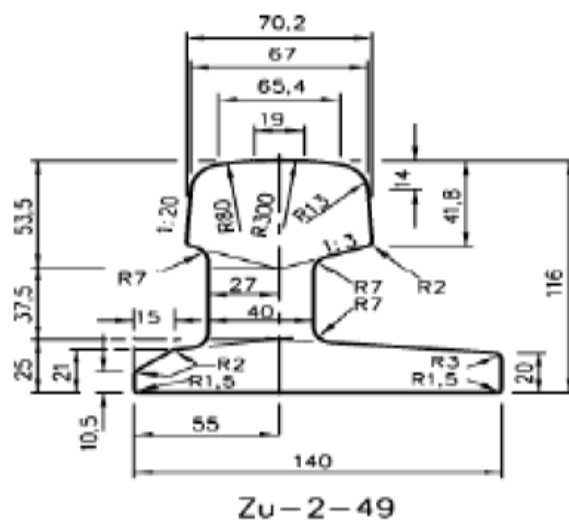
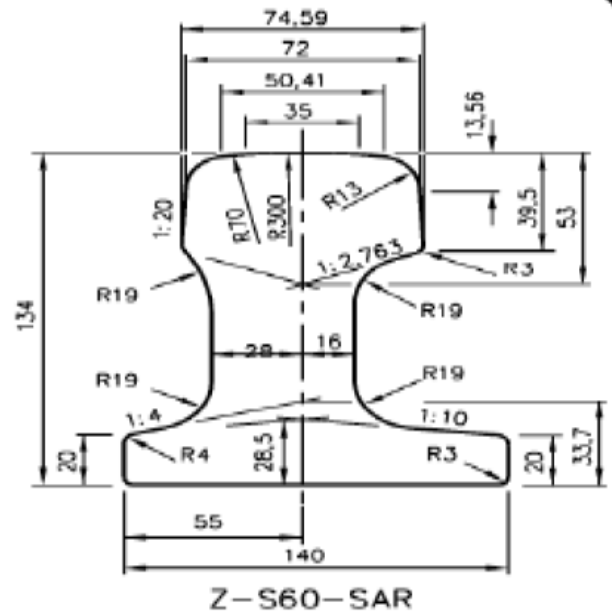
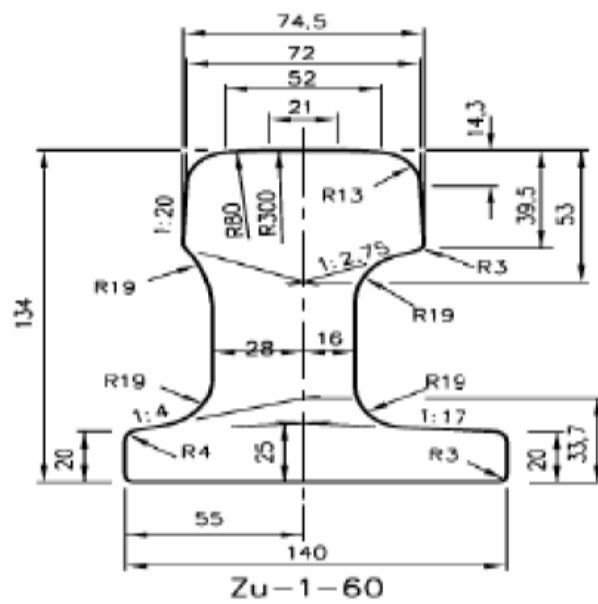
RAIL PROFILES

ANNEXURE 14
SHEET 2 of 6

REMARKS :
1. FOR PROPERTIES AND ROLL MARKS SEE
ANNEXURE 14 SHEETS 4 TO 6

BE 97-14 Sht 2 Version 2

RAIL PROFILES

ANNEXURE 14
SHEET 3 of 6

REMARKS :
1. FOR PROPERTIES AND ROLL MARKS SEE
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