



TRANSNET LIMITED
(REGISTRATION NO 1990/000900/30)
trading as TRANSNET ENGINEERING
(hereinafter referred to as TE)

TECHNICAL SPECIFICATION
TE SRX/LOCOS SLD/Upgrade of 80T Cranes Diesel Locos

Project Name: Upgrade of 80T Cranes in Diesel Workshop

Scope of Work Title: Technical specification for the upgrade of various cranes in the TE diesel locomotive workshop at Salkor Plant, Saldanha.

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Document Reviewers and Approvals

	Name	Designation	Signature	Date
Prepared By:	Sibonelo Msizazwe	Project Manager		18/05/2023
Reviewed by:	Anton van Blerk	Maintenance Supervisor: PEMM		19/05/2023
Reviewed by:	Ndafika Baleni	Risk Manager		19 May 2023
Reviewed and Approved by:	Timothy Jonas	Local Business Manager: Locos SLD		19 May 2023

Amendment History

Issue	Date	Author	Reason
1	18/06/2019	Peter Nolan	Draft Issue
2	09/07/2019	Peter Nolan	Addition of clause B2.2 (2.2.5 a – d) (pg.10)
			Amendment of clause 2.3.2.21 (pg. 12)
			Amendment of clause 2.3.3.10 (pg. 13)
			Amendment of clause 2.3.4.8 (pg. 14)
			Amendment of clause 2.3.5.8 (pg. 15)

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PART A

GENERAL & SPECIAL CONDITIONS

A1. Introduction

The Locomotive Business – Saldanha, provides a 24/7 maintenance support function to TFR on the Iron-Ore corridor locomotive fleet for both Class 43 diesel and Class 15E electrical locos. It is imperative that the stringent reliability and availability targets for TE are met at all times to achieve overall Transnet tonnage movement targets.

There are 2 x 80-ton overhead hoist cranes installed at the Diesel Locomotive workshop spanning roads 17, 18 and 19. The cranes provide the Locomotive business with the required capacity to conduct tandem daily lifting operations of locomotive bodies, to conduct bogie and wheel change outs to the locomotive fleet, and various other lifting operations.

The workshop is also equipped with 2 x 20/5-ton cranes (spanning roads 19A and 19B) and 1 x 70/10ton crane (spanning roads 17,18,19), which are used for general lifting requirements of components from locomotives.

A2. Problem Definition

2 x 80 Ton Cranes:

The cranes are in daily operation and are in critical need of upgrading to extend the lifespan of the equipment. Tandem lifting operations has become problematic for the business as result of faulty electrical units. This adversely affects the speeds of the cranes when hoisting/lowering, causing the load to move unevenly and is a serious safety hazard.

There is also evidence of surface rust formations on the main girders. Left unattended, such rust formation can further penetrate the steel leading to the deterioration of structural integrity with potential disastrous consequences.

Long Travel Tracks:

The alignment of long travels tracks in these workshops need to be laser aligned checked and re-aligned as required to ensure accurate alignment with allowed tolerances.

The cranes in this environment are in daily operation. In recent years the cranes are frequently requiring maintenance repairs due to breakdowns. Such breakdowns negatively impact on production efficiencies and poses safety risks to both employees and Transnet assets.

A3. Site location

This site where the cranes are located is at TE's Locomotive Business, Diesel Workshop at Salkor Plant. Orex Road, between Vredenburg and Saldanha, Western Cape Province.

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A4. Definitions

TE	Transnet Engineering
Manager	The responsible person appointed by TE manage the contract in the capacity of Project Manager
Project Manager	The responsible person appointed by TE manage the contract in the capacity of Project Manager
Tenderer	The entity preparing and submitting a tender to TE
Contractor	The entity awarded the business by TE to perform the defined scope of work
Employer	Transnet Engineering

A5. Guarantee

All workmanship and material shall be guaranteed for a period of 12 (twelve) months, from the date of completion of work.

A6. Inspection of works

- a) No work shall be covered up or put out of view without the approval of the Project Manager. The Contractor shall afford full opportunity for the Project Manager to examine and measure any work.
- b) The Contractor shall give due notice to the Project Manager whenever any such work of formations is or are ready or about to be ready for examination. The Project Manager shall, without unreasonable delay, unless he considers it necessary and advises the Contractor accordingly, examine and or measuring such work as required.

A7. Site records:

- a) The Contractor shall provide to the Project Manager a detail plan of how he intends to do the work and this plan must be to the requirements of the operation of Transnet workshop with minor disruptions as no delays must be allowed in this regard.
- b) The programme must be agreed to (in the site instruction book) before any work will be allowed to commence on the workshops, per se. The programme can be in a form of a Gantt (bar) chart and will be used as a guide to measure progress of the work.

A8. Access to site

The areas are restricted and the contractor must ensure he complies with the regulations of Transnet in every way. The Contractor and/or any sub-contractors shall be required to apply for permission to enter the restricted area in writing. A list of workmen shall be given to the Project Manager to arrange for the necessary permits. 48 Hours minimum notice is necessary for the processing these permits. This includes changes to staff during the contract period.

A9. Materials found on site

No material that is lying on the site (other than that as specified in this document) or any of Transnet's property may be removed or used (even if deemed as scrap) by the contractor.

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A10. Working outside normal working hours

The normal working hours are between 07:00 and 15:30 Mondays to Fridays. If it is required to work outside the stated normal working hours the Contractor must obtain written permission at least 48 hours before such work needs to be undertaken. Transnet will not unreasonably withhold permission; however, the Contractor may have to pay for Transnet's supervisory personnel, should this be required.

A11. Escalation

The contract concluded with the successful tenderer will not make provision for compensation in respect of increased costs. The tenderer must allow in his fixed price for any increased costs, which he may encounter during the contract period or such extended period as agreed upon by both parties.

A12. Payment

Payment shall be made in accordance with the contractual payment terms, and in accordance with the Schedule of Rates and Prices as detailed in the Transnet procurement documentation as approved and issued to market. Only work successfully completed should be reviewed for payment approval or as otherwise contractually agreed to and approved in accordance with Transnet's Procurement Policies and Procedures.

A13. Safety Precautions

(a) OHS Act 85 of 1993

The contractor shall comply with the Occupational Health & Safety Act, 1993 (Act 85 of 1993). The Health and Safety requirements as set out by TRE and attached to this specification must be adhered to.

(b) Environment

The Contractor shall, at all times, comply with the statutes that prohibit pollution of any kind. These statutes are enacted in the following legislation.

- The National Environmental Management Act, 107/1998;
- The Environmental Conservation Act, 73/1989; and
- The National Water Act, 36/1998.

The Contractor shall appoint a responsible person to ensure that no incident shall occur on site that could cause pollution. Where the Contractor was negligent and caused any form of pollution the damage shall be rectified at the Contractors cost.

A14. CIDB (Construction Industry Development Board) and Other Requirements:

It is a requirement that only suitably experienced contractors be engaged to execute the scope of work who are:

- a) Registered with the CIDB with a **minimum grading of SME** (mechanical engineering)
- b) Companies with specific experience in crane lifting equipment
- c) Are able to provide a list of similar works performed with contactable references
- d) Have a valid TAX clearance certificate
- e) Are registered for COID

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A15. Health and Safety Requirements

- a) All work to be performed shall be done in accordance with OHS ACT 85 of 1993 (as updated).
- b) Contractors are to adhere to Transnet's OCCUPATIONAL HEALTH, SAFETY AND ENVIRONMENTAL SPECIFICATIONS (refer to Annexure A).
- c) An 'Agreement with Mandatary' (Section 37 Agreement) will be concluded with the appointed Contractor.
- d) Prior to on works, it will be a requirement that the Contractor is to submit a complete health and safety file, specific to the work to be performed on site, to TE's Risk Manager for review and acceptance.
- e) Upon approval and acceptance by TE of the health and safety file, all on site Contractor staff must undergo safety induction training as arranged by TE. Such induction training will take approximately 1 - 2 hours and Contractor is to allow for this in his programme. All Contractors' staff who will be performing work on the site will be required to attend. Any additional persons brought onto site after initial safety induction was conducted, will also first have to undergo the aforesaid safety induction training.
- f) All sub-contractors appointed by the Contractor, will also have to submit their own health and safety files for review and acceptance as per procedure detailed in clauses (d) and (c) above.

A16. SANS and Regulatory Requirements

All design, construction and any associated works are to be done in strict accordance with relevant SANS specifications and any other regulatory requirements as may be applicable to the type and nature of the work to be performed in executing the scope of works.

A17. To be supplied by the contractor

The appointed contractor / supplier is responsible to provide for all design, fabrication, manufacturing, labour, transport, equipment, materials as is required to effectively provide the specified deliverables.

A18. Attendance to progress and technical meetings:

The appointed contractor / supplier shall be called upon to attend meetings on the site and/or at TE's offices in Salt River to discuss the progress and technical aspects of the WORKS with the Transnet's representatives. Allowance for such meetings is to be made in tender pricing as no additional claims or variations will be entertained in this regard for payment.

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A19. Technical Evaluation Criteria of Tender Submissions

Technical Evaluation Criteria	Weighting [Points]	Scoring Guide
1. Fully compliance to specification (Kindly initial each page of the specification and sign where required) including Completing the Specification Compliance Matrix by selecting "Yes/No" Fully Compliant = 10 Not compliant = 0	10	Fully compliant = The Bidder should initial each page of the specification as an acceptance of the contents and selected "yes" to all questions on the compliance matrix = 10 points Not Compliant = The Bidder did not initial each page of the specification as an acceptance of the contents or selected "no" to any question on the compliance matrix = 0 points Please note: If the supplier indicates a "No" to any item listed in the specification compliance matrix they will score 0% and will score 0
2. Proposed delivery project plan that is clear with detailed breakdown of activities with completion time period of 6 months lead time or less Delivery project plan must consist of the following List of Key Activities: • Kick off meeting/Site Handover, • SHE File Submission and Approvals, • Project Execution Plan Workshop & Approval, • Risk Assessment Workshop, • Crane solution designs and Issue of Construction Drawings, • Site Establishment, • Upgrade of crane, • Commissioning and testing, • Completion and handover • Project Closeout	20	The Bidder should submit a delivery project plan in MS Project or Excel format 'failure of which will lead to a scoring of "0" • Proposed delivery project plan that is clear with detailed breakdown of activities with completion period of 6 months or less lead time = 20 • Proposed delivery project plan that is clear with detailed breakdown of activities with completion period of more than 6 to 7 months lead time = 10 • Proposed delivery project plan that is clear with detailed breakdown of activities with completion period of more than 7 months lead time = 0

3. The methodology, standards and working procedures that will be used in the execution of the project. The Supplier should explain their understanding of the objectives of the assignment and Transnet Engineering stated requirements, highlight the issues of importance, and explain the technical approach they would adopt to address them. The Supplier should also explain the methodologies which they proposes to adopt, demonstrate the compatibility of those methodologies with the proposed approach (for instance, the methods of interpreting available information, carrying out investigations, analyses, and design solutions). The approach should also include a quality plan and assurance methods.	30	Submit the Technical approach paper. Technical approach paper which responds to the proposed scope of work/project design and outlines proposed Methodology that will be used in the execution the project. Fully Compliant= submission of Technical approach paper which responds to the proposed scope of work/project design and outlines proposed Methodology that will be used in the execution the project. =30 Partial or No Technical Approach paper submitted = 0
4. Previous experience on upgrade, installation and refurbishment of cranes (The projects listed/submitted must include the high-level scope of work i.e. crane installation, refurbishment, upgrade of various components etc). Signed Reference letters that contain clients letter head, with contact details.	30	• Experience of similar projects covering crane installation and upgrade work (11 years or more experience) = 30 • Experience of similar projects covering crane installation and upgrade work (5 to 10 years experience) = 15 • Experience of similar projects covering crane installation and upgrade work (Less than 5 years) = 5 • No Experience of similar projects covering crane installation and upgrade work submitted = 0
5. Summary of the SHE Plan The tenderer must provide a detailed SHE Management Plan relating to the scope of work encompassing the following but not limited to: The Bidder should submit the following documents: 5.1 SHE Management Plan, 5.2 Safety Health Environmental risks / aspects or challenges envisaged for the project and how they will be addressed and overcome (this should include Covid - 19 related risks and controls), 5.3 Safety, Health & Environmental	10	• Safety Health Environmental risks / aspects or challenges envisaged for the project and how they will be addressed and overcome (this should include Covid 19 related risks and controls), • Safety, Health & Environmental Policy(s), • Valid Letter of Good Standing. • Fully Complaint = the

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Policy(s), 5.4 Valid Letter of Good Standing 5.5 Company's registration as LME with the Department of Labour. (Certificate with LME Number). 5.6 Certificate of the company's registered LMI. (Certificate from ECSA). 5.7 The company should possess the required engineering capacity (qualifications and Certification) to carry out this project including the qualified technicians/engineers and artisans.		bidder submitted 5.1 SHE Management Plan, 5.2 Safety Health Environmental risks / aspects or challenges envisaged for the project and how they will be addressed and overcome (this should include Covid - 19 related risks and controls), 5.3 Safety, Health & Environmental Policy(s), 5.4 Valid Letter of Good Standing = 10 - Bidder submitted partial or did not submit any of the requirements listed under 5.1,5.2, 5.3 and 5.4 of the evaluation criteria = 0
Total Weighting:		100%
Minimum qualifying score required:		70%
		Result (Pass / Fail)

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PART B

TECHNICAL SPECIFICATIONS

Note:

1. For further descriptions of materials to be used and methods to be adopted, the Contractor is referred to the various Codes and Standards, where relevant, and this shall be deemed to form part of the descriptions of any items in the following Specification. Except where any specification provision in a description in this specification is at variance with the above, in which case the specific provision in this Specification description shall apply.
2. Where trade names and catalogue references have been used in these Specifications to specify a product, Tenderers must tender on that particular product specified. In addition, Tenderers must tender on the required and scope of work specified and must adhere to at least the minimum specific requirements stated. The accepted tenderer (i.e. Contractor) may, after obtaining written authority from the Project Manager, use an alternative product or design.
3. Where such written authority is given by the Project Manager at the request of the Contractor, for the contractor's convenience, all additional costs involved will be done for the Contractor's account. In the event of a less expensive product or design being used, a variation order reflecting the saving in cost will be issued.

B1. SPECIFICATIONS

This section must be read in conjunction with all other issued documentation in this regard, the General Conditions of Contract, General & Special Conditions (Part A), the drawings and bill of quantities in order to derive at a contract price as asked for in the Schedule of Rates and Prices.

B2. SCOPE OF WORK:

The work shall be carried out in accordance with this defined scope of work and specific requirements stated.

B2.1 Identification of cranes to be upgraded:

	Crane Description	Type	Asset No.	Qty
1	80/10-ton overhead gantry	ABUS	28039835	1
2	80/10-ton overhead gantry	ABUS	28039836	1

B2.2 General:

2.2.1 The method of upgrade will be final calculated and confirmed prior to the upgrade and signed-off and certified by a Professional Engineer, as appointed by the service provider.

2.2.2 The defined scope of works and technical specifications are general guidelines to be adhered to in finalizing calculations and designs for the upgrade. It is to be noted that specific and final design values and calculations are to be determined by the appointed service provider and necessary adjustments made to suit ensuring the final installation is complete and fully functional for the intended use.

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2.2.3 The specified scope of work is to include for all design, manufacture, fabrication, supply, deliver, install, commissioning, labour, transport and any other item required to execute the works. All material and equipment items required, whether expressly defined or not, but required to make upgrade complete is deemed to be included in scope and pricing. Scope of work also includes for site establishment, de-establishment, delivery and off-loading works on site. Works also includes for all removal of existing items on cranes to be removed in order to execute the required upgrade works, and stockpiling of stripped items to the PEMM yard located at Salkor Plant (approximately 1km from site).

2.2.4 Liaison with other parties:

Scope of works will include for liaison works required between supplier and TE representatives, including attendance of technical and progress meetings as deemed necessary by TE during the execution of the scope of works.

2.2.5 Test Weights:

(a) TE have the following weights available at it maintenance workshop, located approximately 1km from the work site:

Weight Size	Qty
Ten (10) ton	4
Five (5) ton	2
Two (2) ton	2
One (1) ton	1
Five hundred (500) kg	1
Two hundred & Fifty (250) kg	1
Fifty (50) kg	2
Twenty (20) kg	9

- (b) The appointed contractor will have access the use the available weights.
- (c) The transport from the storage site to the worksite will be the responsibility of the appointed contractor.
- (d) Any shortfall in weights required by contractor to successfully conduct required load and proof load testing must be provided by the appointed contractor.

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B2.3 Scope of work definition:

B2.3.1 Steel Girders Corrosion Treatment – Two (2) x 80/10 ton ABUS Cranes

Note: The following defined scope is to be applied to two (2) cranes.

Technical Requirements – Steel Girders and Crab Units Corrosion Treatment for two (2) x 80 ton ABUS cranes	
2.3.1.1	Inspect steel girders for current condition and provide report with photographic evidence to TE on findings and proposed remedial actions, corrosion protective measures to be implemented and paint specifications for final paint coatings to be applied. Proposed corrosive protection and paint to be applicable to West Coast environment being in proximity of less than 5km from the sea.
2.3.1.2	Disconnect, Remove and Paint Crab Units
2.3.1.3	Sandblast and/or wire brush clean and prepare steel girders for repair and respray.
2.3.1.4	Repair and respray steel girders with suitable corrosion protective coatings and final paint coatings.
2.3.1.5	Corrosive protection and paint types to be applied to be approved by TE Plant Engineer before spray work commences. Proposed applications to be in accordance with relevant SANS specifications for corrosion protection and paint work to cranes.
2.3.1.6	Application of corrosive protection and paint coats to be inspected and approved by Contractor's Quality Officer for each coat application and proof of application sign-off presented to TE as part of document handover pack.
2.3.1.7	Guarantee for corrosive protection and paint applications to be provided.
2.3.1.8	Contractor to determine whether works can be done in-situ or off-site and pricing to allow for determined option accordingly. Pricing to include for all plant and/or scaffolding as required by contractor to conduct the works. Priced option to be clearly specified in pricing.

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B2.3.2 80/10-ton ABUS (Asset no. 28039835 & 28039836 / ABUS cranes)

Note: The following defined scope is to be applied to two (2) cranes.

Technical Requirements – Two (2) x 80/10-ton cranes	
2.3.2.1	Compile upgrade design c/w engineering calculations and certification by Professional Engineer
2.3.2.2	New Panel Enclosures complete as well as glands & accessories
2.3.2.3	Main Hoist VSD with Braking Unit & Braking Resistor
2.3.2.4	Auxiliary Hoist VSD with Braking Unit & Resistor
2.3.2.5	Synchronization Device and Radio Link
2.3.2.6	Long Travel VSD with Braking Unit & Resistor
2.3.2.7	Cross Travel VSD with braking resistor
2.3.2.8	Connect and commission all crane motors, brakes, electrics and safety devices
2.3.2.9	Main protection Panel complete with CTX, CB's, OL's and Main Contactor
2.3.2.10	Main control panel C/W interphase relays, panel accessories and all glands
2.3.2.11	Joystick radio remote controller with tandem operation for all crane functions
2.3.2.12	Four (4) x 200W High bay LED Lights equal to old 400W HPS Lights per Crane
2.3.2.13	Protected Power Supply for High Bay Lights
2.3.2.14	Lay Panels out, mount components & wire panels including panel accessories, numbers etc
2.3.2.15	Mark Cables, Disconnect & Strip out exiting electrical panels and lower to ground
2.3.2.16	Rig New Panels to crane and mount panels suite cable connections / positions
2.3.2.17	Wire and connect new panels to cables including terminals, terminations and lugs
2.3.2.18	Commission crane and test all functions, safety devices, limits and directions
2.3.2.19	Supply and install new data plates, SWL signs and information as per statutory requirements
2.3.2.20	Provide one (1) set electronic and three (3) sets hard copies of wiring diagrams, manuals and certificates
2.3.2.21	- Carry out load testing and proof load test with test weights. Test weights available from TE are defined in clause 'B2.2 (2.2.5)'. - Transport requirements of weights from storage area to work site and return to storage upon completion is responsibility of appointed contractor. - Any shortfall in weights required to conduct testing to be provided by appointed contractor as part of scope of works.
2.3.2.22	Issuing of crane test certification as per statutory requirements

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PART C

SCHEDULE OF RATES AND QUANTITIES

C1. PRE-AMBLE

- (a) This part must be completed in black-ink, in full, by the contractor and submitted with the Tender Form.
- (b) The Schedule of Rates hereunder for material, plant and labour for the tender is to be priced, extended and totalled and carried to the tender form – excluding VAT.
- (c) Value Added Tax (VAT) is excluded (price without VAT). The net total (Exclusive of VAT) shall be transferred to the Tender Form.
- (d) It is to be understood that the Works as executed will be measured for payment in accordance with the method described in the contract and under the item as therein set forth notwithstanding any custom to the contrary. The net measurement of the finished work in place will always be taken except where otherwise specified.
- (e) **N.B.:** In the case of any error in the extensions of the unit rates, the unit rates will be accepted as correct, regardless of the extended total amounts entered in the Schedule of Quantities. In their own interest Tenderers should make doubly sure about the correctness of their schedule rates (and the extension) and the tender price.

The following itemized Sections are to be completed with pricing. Tenderers are to ensure that all pages are filled in accurately, totalled at the bottom of each page in the space provided and carried forward to the following page, where applicable. Final totals per Section to be transferred to Part D of this document.

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C2. SCHEDULE OF RATES

The Tenderer must complete this part in black ink.

Schedule of rates herein under for above-mentioned work form part of the tender and is to be priced, extended and totalled and carried to the tender document. The Tenderer is required to insert rates for the following:

Item	Spec. Ref.	Description	UOM	QTY	AMOUNT
C2.1	B2.2	Preliminary and General costs including health and safety requirements	Sum	1	
C2.2	B2.2	Site Establishment	Sum	1	
C2.3	B2.3.1	Steel Girders and Crab units Corrosion Treatment and Painting of 80ton cranes	Sum	2	
C2.4	B2.3.2	Upgrade 80/10-ton ABUS (Asset no's. 28039835 & 28039836 / ABUS cranes)	Sum	2	
C2.8	B2.3.6	Gantry Alignment Locomotive Bay Gantry	Sum	1	
TOTAL (Excluding VAT) (Total to be transferred to RFQ/Tender document)					

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ANNEXURE A

OCCUPATIONAL HEALTH, SAFETY and ENVIRONMENTAL SPECIFICATIONS SALDANHA

1. INTRODUCTION

This is a generic SHE Specification, which shall apply for all contract work within Transnet Engineering (TE) Saldanha.

Transnet Engineering requires/demands a high Safety Standard from its employees and expects that this standard be maintained by outside Contractors working within Transnet Engineering.

This specification shall form part of the tender document specification and must be read and used in conjunction with the technical and tender specifications. All requirements contained in this document must be adhered to at all times while executing the work.

These safety rules are not intended to restrict the duties of the Contractor or to relieve them of their legal obligations to ensure safe working.

2. ENTRY TO THE PREMISES

On arrival at Transnet Engineering, the Contractor's employees must report to security. Ensure all employees have valid Permit cards. Before any contract work is started, the contractor's employees must attend SHE induction presented by TE Safety and Risk Department. The contractor must report daily to the contract manager for the specific contract before work commences.

3. STATUTORY OBLIGATION

The Contractor will ensure that all work is carried out in accordance with:

- The Occupational Health and Safety Act 85 of 1993.
- The Compensation for occupational injury and Disease Act 135 of 1993
- The South African National Standard for the wiring of premises. (SANS 10142-1: 2003)
- Specific acceptance of these rules implies that the Contractor guarantees that the Company has
no liability in terms of Chapter 9 of the COID Act.
- Any other applicable legislation

4. SHE File

Before any work can commence a SHE File must be presented. It remains the responsibility of each contractor to ensure compliance with all relevant Occupational Health and Safety Legislation. The following is a guideline (but not restricted to) of the contents (not all items are applicable to all contractors) of a SHE file to be presented to TE before work may commence:

a. Risk Assessment

The Risk Assessment must include all hazards, risks and control measures for the contractor's activities and should separately specify:

- Contractors activities
- TRE Activities

TRE risks that should be considered (but not limited too):

1	Crossing of railway lines	7	Overhead crane movement
2	Working in-between rails	8	Overhead High Voltage electrical lines
3	Using ladders	9	Commodities inside wagons
4	Forklift movement	10	Snakes, ticks etc.
5	Noise	11	Welding, cutting and other hot work in workshops
6	Shunting & other movements on railway lines	12	Working at heights (contractors may only work on heights after all legal requirements are met and TE gave permission)

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- b. Letter of good standing by COID Commissioner
- c. Work Procedures
- d. Safe Operation Procedures (SOP) for all operational activities
- Fall protection plan (if applicable)
 - SOP' for all activities
 - SOP for rail protection (in conjunction with TE)
- e. SHE Plan that explains how the following risks will be managed (must include but not limited to):

1	Lock out procedures	
2	Machinery guards, protecting and fencing	
3	Scaffolding, ladders, tools etc.	
4	Cranes, vehicles and lifting gear	
5	Confinement to working areas	
6	Inspection registers	
7	Excavations	
8	Working at heights	
9	Transport on site	• No contractors to be transported in back of LDV's • No overloading of passenger areas of LDV's
10	Services and operating processes	• Where any work to be done by Contractors is connected with or likely to affect any operating process or machinery, or any services to same, the written permission of the responsible person must be obtained before such work is commenced. • The contractor shall not couple up to any service i.e. LP Gas, without previous arrangement having been made by the responsible person. • Permission must be obtained from the responsible person before equipment is connected to the electricity supply.
11	Sub-Contractors	• List of subcontractors • SHE files of all sub-contractors • Induction by TE of all sub-contractors
12	Roads and Thoroughfares	• The Contractor's employees shall use the recognized roads and walkways within Transnet Rail Engineering • Traffic signs must be obeyed, and no vehicle shall be driven at a speed exceeding 30 km/h. The contractor must take cognizance of road rail crossings and shunting activities.
13	Accident/incident reporting and investigation	
14	First Aid	
15	Fire Prevention/Storage of Flammable Substances	
16	Occupational Health and Hygiene on site	
17	Housekeeping	
18	Rail safety	
19	Waste and environmental management	
20	Internal training and safety talks	

21	The following Medicals according to risks (but not limited too):	• Vision screening • Hearing test • Lung function test • Fit to work on heights • Drivers medical • Lifting equipment medicals • Asbestos (X-Rays) – if applicable • Biological Monitoring (If applicable)
22	Intoxication	Nobody – being in a state of intoxication or any other condition resulting in his incapacity to control himself or persons under command is or will be allowed on the premises of the company.
23	PPE	• PPE required on TE sites at all times: ○ Reflective vests ○ Safety Boots ○ Hearing protection (if applicable) ○ Fall protection equipment (if applicable) ○ Respirators (if applicable) • PPE required by contractor: ○ The contractor must assess PPE requirements according to Risk Assessment to protect employees for specific operational risks of the contractor's activities

5. Other documents to be completed on award of contract:

- Section 37 (2) agreement

Bidder's signature: _____