TRANSNET NATIONAL PORT AUTHORITY

an Operating Division of TRANSNET SOC LTD

[hereinafter referred to as **Transnet**]

Registration Number 1990/000900/30

REQUEST FOR QUOTATION [RFQ] No TNPA/2025/09/0025/105839/RFQ

FOR THE PROVISION OF: INSPECTIONS AND LOAD TESTING OF LIFTING

EQUIPMENT AT THE PORT OF EAST LONDON FOR A

PERIOD OF THIRTY-SIX (36) MONTHS

ISSUE DATE: 09 SEPTEMBER 2025

COMPULSORY TENDER BRIEFING DATE: 16 SEPTEMBER 2025; 11H00 AM

ADDRESS: TRANSNET NATIONAL PORT AUTHORITY

EMD BUILDING

01 Dr ZAHN & NUFIELD ROAD

WESTBAK, EAST LONDON, 5200

CLOSING DATE 23 SEPTEMBER 2025

CLOSING TIME: 16H00

Note to the bidders:

Bidders are required to ensure that electronic bid submissions are done at least a day before the closing date to prevent issues which they may encounter due to their internet speed, bandwidth or the size of the number of uploads they are submitting. Transnet will not be held liable for any challenges experienced by bidders as a result of the technical challenges. Please do not wait for the last hour to submit. A Bidder can upload 30mb per upload and multiple uploads are permitted.

SECTION 1: SBD1 FORM

PART A

INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF INSPECTIONS AND LOAD TESTING OF LIFTING EQUIPMENT AT THE PORT OF EAST LONDON FOR A PERIOD OF THIRTY-SIX (36) MONTHS, A DIVISION TRANSNET SOC LTD							
BID NUMBER:	BID NUMBER: TNPA/2025/09/0025/105839/RFQ ISSUE DATE: 09/09/2025 CLOSING DATE: 23/09/2025 CLOSING TIME: 16H00						
DESCRIPTION INSPECTIONS AND LOAD TESTING OF LIFTING EQUIPMENT AT THE PORT OF EAST LONDON FOR A PERIOD OF THIRTY-SIX (36) MONTHS							
BID RESPONSE	DOCUMENTS 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.

RESPONDENTS ARE TO UPLOAD THEIR BID RESPONSE PROPOSALS ONTO THE TRANSNET SYSTEM AGAINST EACH TENDER/RFQ SELECTED.

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

- Log on to the Transnet eTenders management platform website/Portal (<u>transnetetenders.azurewebsites.net</u>) (please use
 Google Chrome to access Transnet link/site free of charge);
- 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.
- No late submissions will be accepted. The bidder guide can be found on the Transnet Portal transnetetenders.azurewebsites.net
- a) Each company must register its profile using its company details and use the corresponding registered profile to log an intent to bid as well as submitting any bid.
- b) Transnet will not accept a bid or will disqualify a bidder who submits a bid in the Transnet e-tender submission through another bidders'/Company's profile. In other words, each bidder must register the intent to bid and submit its bid through its own profile under the same company name that will eventually bid for the tender. No company shall submit a bid on behalf of another company regardless of the company being a subsidiary or holding company.
- c) In case of a Joint Venture, any of the parties/companies to the Joint Venture may use its registered profile to submit a bid on behalf of the Joint Venture.

BIDDING PROCEDURE ENQUIRIES	MAY BE DIRECTED TO	TECHNICAL ENQUIRIES MAY BE DIRECTED TO:			
CONTACT PERSON	Zamikhaya Ngumbela	CONTACT P	ERSON	N/A	
TELEPHONE NUMBER	N/A		TELEPHONE	NUMBER	N/A
FACSIMILE NUMBER	N/A		FACSIMILE N	NUMBER	N/A
E-MAIL ADDRESS	TNPAPOELBelow@transnet.net		E-MAIL ADDI	RESS	N/A
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE			NUMBER	
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE			NUMBER	
E-MAIL ADDRESS					

VAT REGISTRATION NUMBER								
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE	-	QUE REGISTR FERENCE NUMBEI AA		
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	TICK APPLICABL	E BOX]	B-BBEE STA' SWORN AFF			[TICK APPLICA BOX]	BLE	
	☐ Yes	□ No				☐ Yes No		
[A B-BBEE STATUS LEVE PURPOSES OF COMPLIANCE			RN AFFIDA	VIT MUST	Г ВЕ	SUBMITTED	FOR	
1 ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	BASED SUPF	BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS [IF YES, ANSWEI			□No			
QUESTIONNAIRE TO BIDDING FO	REIGN SUPPLIERS							
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)? DOES THE ENTITY HAVE A BRANCH IN THE RSA? DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA? DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA? IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION? 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.								
TAY AANDU ANAF DEGUIDENE		PART B CONDITIONS FOR	R BIDDING					
TAX COMPLIANCE REQUIREME		IOATIONIO.						
.1 BIDDERS MUST ENSURE COMP .2 BIDDERS ARE REQUIRED TO SU	JBMIT THEIR UNIQUE PERSO	NAL IDENTIFICATIO	N NUMBER (PI	N) ISSUED BY	SARS	TO ENABLE THE	≣	
ORGAN OF STATE TO VERIFY T 3 APPLICATION FOR TAX COMPLI			ING THROUG	H THE SARS W	/FRSI	TE WWW SARS G	OV 7A	
	APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA. BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.							
	IN BIDS WHERE UNINCORPORATED CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.							
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 (Proof of authority must be submit								
DATE:								

SECTION 2: NOTICE TO BIDDERS

1 Responses to RFQ

Responses to this RFQ [**Quotations**] must not include documents or reference relating to any other quotation or proposal. Any additional conditions must be embodied in an accompanying letter.

2 Formal Briefing

A compulsory pre-proposal site meeting and/or RFQ briefing will be conducted at **EMD BUILDING, 01 Dr ZAHN & NUFIELD ROAD, WESTBAK, EAST LONDON, 5200** on the **16 September 2025,** at 11h00AM for a period of \pm 2 hours. The briefing session will start punctually, and information will not be repeated for the benefit of Respondents arriving late.

- **2.1** Respondents failing to attend the compulsory RFQ briefing will be disqualified.
- **2.2** Respondents are encouraged to bring a copy of the RFQ to the site meeting and/or RFQ briefing.

3 Communication

- 3.1 Specific queries relating to this RFQ before the closing date of the RFQ should be submitted onto the system and email to tnPAPOELBelow@transnet.net before 12:00 pm on 19 September 2025. In the interest of fairness and transparency Transnet's response to such a query will then be made available to other hidders.
- **3.2** It is prohibited for Respondents to attempt, either directly or indirectly, to canvass any officer or employee of Transnet in respect of this RFQ between the closing date and the date of the award of the business.
- **3.3** Respondents found to be in collusion with one another will be automatically disqualified and restricted from doing business with organs of state for a specified period.
- **3.4** All unsuccessful bidders have a right to request Transnet to furnish individual reasons for their bid not being successful. This requested must be directed to the contact person stated in the SBD 1 form

4 Legal Compliance

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

5 Employment Equity Act

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

6 Changes to Quotations

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

7 Binding Offer

Any Quotation furnished pursuant to this Request shall be deemed to be an offer. Any exceptions to this statement must be clearly and specifically indicated.

8 Disclaimers

- Respondents are hereby advised that Transnet is not committed to any course of action as a result of its issuance of this RFQ and/or its receipt of a Quotation in response to it. Please note that Transnet reserves the right to:
 - modify the RFQ's goods / service(s) and request Respondents to re-bid on any changes;
 - reject any Quotation which does not conform to instructions and specifications which are detailed herein;
 - disqualify Quotations submitted after the stated submission deadline;
 - not necessarily accept the lowest priced Quotation or an alternative bid;
 - place an order in connection with this Quotation at any time after the RFQ's closing date;
 - award only a portion of the proposed goods / services which are reflected in the scope of this RFQ;
 - split the award of the order/s between more than one Supplier/Service Provider should it at Transnet's discretion be more advantageous in terms of, amongst others, cost or developmental considerations;
 - cancel the quotation process;
 - validate any information submitted by Respondents in response to this bid. This would include, but is
 not limited to, requesting the Respondents to provide supporting evidence. By submitting a bid,
 Respondents hereby irrevocably grant the necessary consent to Transnet to do so;
 - request audited financial statements or other documentation for the purposes of a due diligence exercise;
 - not accept any changes or purported changes by the Respondent to the bid rates after the closing date and/or after the award of the business, unless the contract specifically provides for it;
 - to cancel the contract and/request that National Treasury place the Respondent on its Database of Restricted Suppliers for a period not exceeding 10 years, on the basis that a contract was awarded on the strength of incorrect information furnished by the Respondent or on any other basis recognised in law;
 - award the business to the next ranked bidder, provided that he/she is still prepared to provide the required Goods/Services at the quoted price, should the preferred bidder fail to sign or commence with the contract within a reasonable period after being requested to do so. Under such circumstances, the validity of the bids of the next ranked bidder(s) will be deemed to remain valid, irrespective of whether the next ranked bidder(s) were notified of their bid being unsuccessful. Bidders may therefore be requested to advise whether they would still be prepared to provide the required Goods/Services at their quoted price.
 - Should a bidder fail to respond to a request for extension of the validity period before it expires, that bidder will be excluded from tender process.

9 Specification/Scope of Work

9.1 Executive Overview

This document outlines the scope of work for the provision of Inspections and load testing of lifting equipment at the Port of East London for a period of thirty-six (36) months. The inspections and load testing shall be conducted by a qualified Lifting Machinery Inspector (LMI).

The services are required on an ad-hoc basis to ensure that all lifting equipment across the Engineering Maintenance Depot (EMD) and Dry Dock are regularly inspected and load-tested in accordance with the Occupational Health and Safety (OHS) Act 85 of 1993, Driven Machinery Regulations, and Transnet's Code of Practice 29.

The contract aims to maintain operational safety and compliance through these inspections.

9.2 Scope Of Works

The Service provider shall provide comprehensive Lifting Machinery Inspector (LMI) services for all lifting equipment at the Port of East London's Engineering Maintenance Depot (EMD) and Dry Dock.

The scope includes:

- Monthly inspections and annual load testing of all listed equipment, such as wharf cranes, overhead
 cranes, cherry pickers, chain blocks, slings, ladders, safety gear, compressors, and other lifting
 devices.
- Adherence to applicable legal and operational standards, specifically the OHS Act 85 of 1993,
 Driven Machinery Regulations, and Transnet's Code of Practice 29Supply and installation of road signage and symbols.
- Logging and certification of inspected equipment with turnaround for log sheet submission not exceeding two (2) days.
- Reporting of safety-critical defects immediately to TNPA representatives.
- Skills transfer to TNPA employees during service execution to support their professional development.
- Maintenance of up-to-date equipment registers reflecting new, active, and scrapped equipment.

Table 1 below presents the different lifting equipment used in the Port of East London and the inspection and load testing requirements.

Item	Description	Inspections Requirements	Load Testing Requirements	
1	Wharf Crane 15ton	Monthly	Annual	
2	Wharf Crane 4.5ton	Monthly	Annual	
3	Overhead Crane 10ton	Monthly	Annual	
4	Overhead Crane 3ton	Monthly	Annual	
5	Gantry and Crawl 1ton/3ton/5ton	Monthly	Annual	
6	Cherry Picker	Monthly	Annual	
7	Compressor	Monthly	Annual	
8	Chain Blocks 2ton	Monthly	Annual	
9	Lever Hoist 1.5ton	Monthly	Annual	
10	Drum Clamp 220kg	Monthly	Annual	
11	Plate Grab 1ton	Monthly	Annual	
12	Lifting Shackles	Monthly	Annual	
13	Chain Slings (4legs) 3ton,4ton,21ton	Monthly	Annual	
14	Keel block Slings 3048kg	Monthly	Annual	
15	Man Cage 800kg	Monthly	Annual	
16	Steel and Aluminium Gangways	Monthly	Annual	
17	Ladders	Monthly	N/A	

18	Fixed Ladders	3-monthly	N/A
19	Safety harness	3-monthly	N/A
20	Wire Rope Slings	Monthly	N/A
21	Soft Slings (Various sizes)	Monthly	N/A
22	Plate Hooks 5ton	Monthly	Annual
23	Bench Grinder	Monthly	N/A
24	Life Jacket	Monthly	Annual
25	Scaffolding	Monthly	Annual
26	Morris Chain Pull 1.5tons	Monthly	Annual
27	Tirfor	Monthly	Annual
28	Quick Release Hook	Monthly	Annual
29	Link Hammer Lock Hook	Monthly	Annual
30	Snatch Block	Monthly	Annual
31	Tyre Spreader	Monthly	Annual
32	Lifting Bags	Monthly	Annual
33	Air receivers	Monthly	Annual
34	Webbing Slings	Monthly	Annual
35	Pallet beams	Monthly	Annual
36	Sling release	Monthly	Annual
37	Extension forks	Monthly	Annual
38	Forklift	Monthly	Annual
39	Pedestal grinder	Monthly	Annual
40	Hook and cross heads	Monthly	Annual
41	Davit cranes	Monthly	Annual
42	Gauges	Monthly	Annual
43	Scales	Monthly	Annual
44	Capstan winch	Monthly	Annual
45	Tri pod lifting tool	Monthly	Annual
46	Manhole lifting tool	Monthly	Annual
		-	

9.3 Specifications

The service provider shall:

- Perform monthly inspections and annual load testing of listed lifting machinery and equipment.
- Comply with the OHS Act 85 of 1993, Driven Machinery Regulations, and Transnet's Code of Practice 29.
- Maintain updated equipment registers.
- Assist in skills transfer to TNPA employees during inspections.
- Provide signed-off log sheets within 2 days of each examination.

 Provide services between 08:00 and 16:00 from Monday to Friday, excluding weekends and holidays

9.4 Statutory And Other Legislative Requirements

- a) OHS Act Occupation Health and Safety Act, 1993 (Act No. 85 of 1993), as
- b) amended by Act No. 181 of 1993.
- c) Machinery and Works Regulations, especially DMR 18.
- d) Environment Conservation Act, 1989 (Act No. 73 of 1989), as amended by Act
- e) No. 52 of 1994 and Act No. 50 of 2003.
- f) Labour Relations Act
- g) Building Regulations National Building Regulations and Building
- h) Standards Act, 1977 (Act No. 103 of 1977), as amended by Act No. 49
- i) of 1995
- j) Transnet Code of Practice 29
- k) SANS and other international standards such as ISO 9001 QMS.

9.5 General Requirements

- a) All inspections must be completed within the first two weeks of each month.
- b) Safety-critical defects must be reported to TNPA immediately.
- c) The service provider must comply with TNPA SHEQ safety induction and provide a complete safety file before work starts.
- d) Equipment registers must reflect both active and decommissioned items.
- e) The contract duration is up to 36 months, starting after PO issuance.
- f) TNPA will not permit work on weekends or public holidays.

9.6 Skills Transfer

The Service provider will be responsible required to assist TNPA personnel with skills transfer during the period of equipment inspections and testing. This would be with the aim of assisting these individuals with their development towards attaining the LMI certification. There is a maximum of two qualified Millwrights who will be trained.

9.7 Health And Safety Requirements

The service provider shall abide by the following:

- Accept his obligation to comply fully with the Act.
- Provide a comprehensive health and safety plan detailing his proposed compliance with the regulations. The Health and Safety Management Plan must provide a systematic method of managing hazards and implementing control measures.
- Prepare and submit the Safety file to the Project Manager for acceptance. The Safety file will then be submitted to the TNPA SHEQ Department for approval before the start of the work.
- The Service provider shall always be responsible for full compliance with the approved plan.

- Always keep a safety file during the execution of the work.
- Needs to undergo TNPA SHE induction training before the commencement of the work.

- a) Department of Labor approval as the Lifting Machinery Entity, Annexure A
 Section 19 of the Driven Machinery Regulations.
- b) Valid ECSA accredited certified copy of the LMI certificate of the examiner.
- c) Contactable reference letters for similar work conducted.
- d) CV of the examiner indicating the following as a minimum: Qualification: Trade
- e) Test certificate.
- f) List and certification of all the load testing equipment to be used.
- g) Approach paper method, reflecting activities to be conducted for the Inspection and Testing of the Lifting Machinery. Taking into proper consideration Health, safety, and Environmental requirements at TNPA.

10 Legal review

A Proposal submitted by a Respondent will be subjected to review and acceptance or rejection of its proposed contractual terms and conditions by Transnet's Legal Counsel, prior to consideration for an award of business.

11 Security clearance

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

12 National Treasury's Central Supplier Database

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

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

13 Tax Compliance

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

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

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

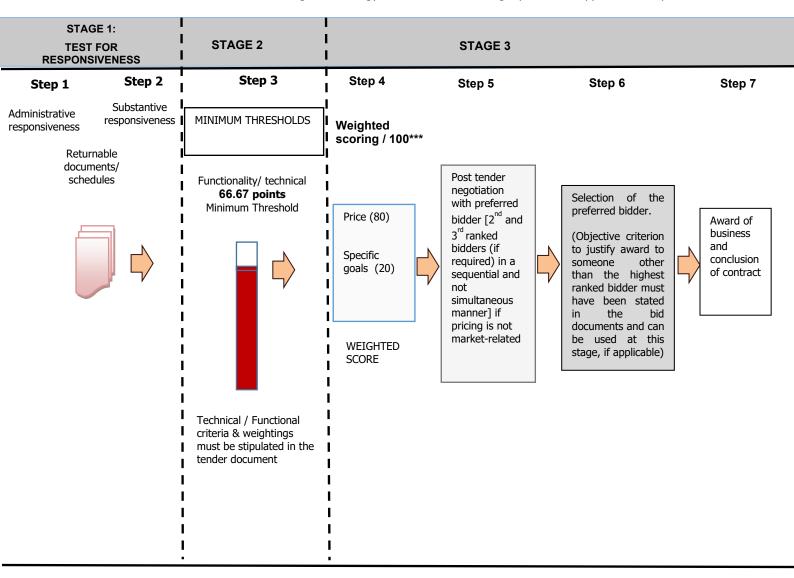
Where Consortia / Joint Ventures / Sub-contractors are involved, each party must be registered on the Central Supplier Database and their tax compliance status will be verified through the Central Supplier Database.



SECTION 3 EVALUATION METHODOLOGY, CRITERIA AND RETURNABLE DOCUMENTS

1 Evaluation Criteria

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



1.1 STEP ONE: Test for Administrative Responsiveness

The test for administrative responsiveness will include the following:

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

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

1.2 STEP TWO: Test for Substantive Responsiveness to RFQ

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

	Check for substantive responsiveness	RFQ Reference
•	Whether any general and legislation qualification criteria set by	All sections
•	Transnet, have been met Whether the Bid contains a priced offer	Section 4 - Quotation Form
•	Whether the Bid materially complies with the scope and/or specification given	All Sections

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

1.3 STEP THREE: Minimum Threshold 66,67 points for Technical Criteria

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

No.	Tookwisel Evaluation Critoria	Points	Scoring guideline
	Technical Evaluation Criteria We		
1	Company Experience	35	
	The bidder must submit a minimum of Three [3] signed reference letters or signed		
	practical completion certificates, where the bidder has performed Lifting Equipment		0 = No reference letter/s or practical completion certificate/s are submitted OR the reference
	& Machinery Inspections and Load Testing. The reference letters or completion		letter/s or practical completion certificates submitted do not meet the requirements.
	certificates must be on the client's company letterhead. i.e., As a minimum, the		1 = One [1] or Two [2] reference letters or practical completion certificates that meet the
1.1	reference letters or practical completion certificate must include the following:	35	requirements have been submitted.
	(1) Project Title;		2 = Three [3] reference letters or practical completion certificates that meet the requirements have
	(2) Project Description (Name, Duration & Value), and Scope of Work;		been submitted.
	(3) Valid Client's Contact details as reference for verification purposes (Client's		3 = Four [4] or more reference letters
	name, e-mail address, physical address, telephone number).		
2	Key Personnel Qualifications & Experience	30	
			0 = No response OR submitted Copies of Qualifications do not meet the requirements.
			1 = Copies of Qualifications National Higher Certificate Mechanical Engineering (NQF Level 4) or
	The bidder must have a minimum of Red Seal Millright Qualification (NQF Level 5)		Equivalent, and valid ECSA LMI Registration has been submitted
2.1	or Equivalent and proof of valid registration with ECSA as a Registered Lifting	15	2 = Copies of Qualifications Red Seal Millwright Qualification (NQF Level 5) or Equivalent and valid
	Machinery Inspector.		ECSA LMI Registration has been submitted
			3 = Copies of Qualifications National Diploma Mechanical Engineering (NQF Level 6) or
			Equivalent, and valid ECSA LMI Registration has been submitted
			0 = No response OR submitted CV's does not meet the requirements.
			1 = The bidder has five (5) years' experience in the lifting machinery industry of which two (2)
	Key Personnel Experience:		years is in inspection and load testing
2.2	The bidder must have a minimum six (6) years' experience in the lifting machinery	15	2 = The bidder has six (6) years' experience in the lifting machinery industry of which two (2)
	industry of which two (2) years is in inspection and load testing		years is in inspection and load testing
			3 = The bidder has seven (7) years or more experience in the lifting machinery industry of which
			two (2) years is in inspection and load testing

No.	Technical Evaluation Criteria	Points	Scoring guideline
	recimical Evaluation Criteria	Weightings	
3	Methodology	20	
	Method Statement: The hidder must submit a comprehensive method statement outlining the		
	The bidder must submit a comprehensive method statement outlining the		
	methodology to achieve the required deliverables in terms of the Scope of Work		0 = No Submission or submitted method statement does not meet the requirements.
	(SoW). The method statement must include the following critical elements, as a		1 = The Submitted method statement is incomplete and lacks detail. Less than Two (2) are
	minimum;		addressed.
3.1	(1) List and certification of all the load testing equipment to be used	20	2 = The submitted method statement is concise, with sufficient details. All Three (3) critical
	(2) Approach paper method, reflecting activities to be conducted for the Lifting		requirements are addressed.
	Equipment & Machinery Inspections and Load Testing, taking into proper		3 = The bidder indicates a comprehensive understanding of the SoW, and the submitted method
	consideration Health, safety, and Environmental requirements at TNPA		statement exceeds all Three (3) requirements.
	(3) Time schedule for the Lifting Equipment & Machinery Inspections and Load		
	Testing		
4	Health, Environment and Safety management	15	
	The bidder must demonstrate a full understanding of the TNPA Port of East		
	London's SoW requirements by presenting a detailed safety, health, and		
	environmental management plan specific to the project and;		O. No Donners ov minimum voguinamente net met
	(1) Must detail how the safety, health, and environmental (SHE) requirements will		0 = No Response or minimum requirements not met
4.1	be met	15	1 = 1 requirement has been met
	(2) What Health and Safety measures are put in place for personnel working on		2 = 2 to 3 requirements have been met
	site?		3 = All 4 and more requirements have been met
	(3) Project Risk Assessment based on the method statement4. Valid Letter/s of		
	Good Standing with the Workmen's compensation fund		
	Tatal Wainbiina.	100	
	Total Weighting:	100	
	Minimum qualifying score required:	66.67	

A Respondent's compliance with the minimum functionality/technical threshold will be measured by their responses to **Annexure A (Detailed Technical Evaluation Criteria)**

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

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

1.4 STEP FOUR: Evaluation and Final Weighted Scoring

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

Evaluation Criteria	RFP Reference
Commercial offer	Section 4

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

$$PS = 80 \left(1 - \frac{Pt - Pmin}{Pmin} \right)$$

Where:

Ps = Score for the Bid under consideration
Pt = Price of Bid under consideration
Pmin = Price of lowest acceptable Bid

b) **Specific Goals** [Weighted score 20 point]

- Specific goals preference points claim form
- Preference points will be awarded to a bidder for attaining the specific goals requirements in accordance with the table indicated in Section 4.1 of the specific goals Claim Form.

1.5 STEP FIVE: Post Tender Negotiations (if applicable)

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

1.6 STEP SIX: Objective Criteria (if applicable)

Transnet reserves the right to award the business to the highest scoring bidder/s unless objective criteria justify the award to another bidder. The objective criteria Transnet may apply in this bid process include:

- Skills Transfer and Capacity Building for Transnet;
- Impact on Transnet's Return On Investment;
- Rotation of Suppliers to promote opportunities for other suppliers, by overlooking a supplier that has been awarded business repeatedly overtime in order to benefit other suppliers in the market;
- the tenderer:
- is not under restrictions, or has principals who are under restrictions, preventing participating in the employer's procurement,
- is not undergoing a process of being restricted by Transnet or other state institution that Transnet may be aware of,
- can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the
 professional and technical qualifications, professional and technical competence, financial resources,
 equipment and other physical facilities, managerial capability, reliability, experience and reputation,
 expertise and the personnel, to perform the contract,
- has the legal capacity to enter into the contract
- is not insolvent, in receivership, under Business Rescue as provided for in chapter 6 of the Companies Act, 2008, bankrupt or being wound up, has his affairs administered by a court or a judicial officer, has suspended his business activities, or is subject to legal proceedings in respect of any of the foregoing,
- complies with the legal requirements, if any, stated in the tender data and
- is able, in the option of the employer to perform the contract free of conflicts of interest.
- all Risks identified during a risk assessment exercise/probity check (which may be conducted by an authorised third party) that would be done to assess all risks, including but not limited to:
- the financial stability of the bidder based on key ratio analysis, which would include, but not be limited to Efficiency, Profitability, Financial Risk, Liquidity, Acid Test, and Solvency;
- a due diligence to assess functional capability and capacity. This could include a site visit;
- A commercial relationship with a Domestic Prominent Influential Person (DPIP) or Foreign Prominent Public Official (FPPO) or an entity of which such person or official is the beneficial owner; and
- Reputational and Brand risks

1.7 STEP SEVEN: Award of business and conclusion of contract

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

2 Validity Period

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

Bidders are to note that they may be requested to extend the validity period of their bid, on the same terms and conditions, if the internal evaluation process has not been finalised within the validity period. However,

once the adjudication body has approved the process and award of the business to the successful bidder(s), the validity of the successful bidder(s)' bid will be deemed to remain valid until a final contract has been concluded.

3 Disclosure of contract information

Prices Quoted

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

Johannesburg Stock Exchange Debt Listing Requirements

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

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

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

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

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

The below form contains personal information as defined in the Protection of Personal Information Act, 2013 (the "Act"). By completing the form, the signatory consents to the processing of her/his personal information in accordance with the requirements of the Act. Consent cannot unreasonably be withheld.

accor	accordance with the requirements of the Act. Consent cannot unreasonably be withheld.										
	Is the Respondent (Complete with a "Yes" or "No")										
A DP	IP/FPPO				sely Relat P/FPPO	ed to a			Closely Associa DPIP/	ated to a	
	List all known business interests, in which a DPIP/FPPO may have a direct/indirect interest or significant participation or involvement.										
No	Name Entity Business	of /	Role in Business (Nature		Entity / interest/	Shareho	lding	Regist Number		Status (Mark the with an X)	applicable option
			Participat	ion)						Active	Non-Active
1											
2											
3											

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

4 Returnable Documents

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

Mandatory Returnable Documents	Failure to provide all these Mandatory Returnable Documents at the Closing Date and time of this RFQ <u>will</u> result in a Respondent's disqualification.
Returnable Documents Used for Scoring	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.
Essential Returnable Documents	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.

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 4: Quotation Form	

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							
Valid proof of Respondent's compliance to B-BBEE requirements stipulated in							
Section 7 of this RFP (Valid B-BBEE certificate or Sworn- Affidavit as per DTIC							

RETURNABLE DOCUMENTS USED FOR SCORING					
guidelines)					
Respondent's valid proof of evidence to claim points for compliance with Specific Goals'					
requirements as stipulated in this RFP					
Technical Evaluation Returnables as stipulated in Annexure A – Technical Evaluation detailed					
criteria					

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:

ESSENTIAL RETURNABLE DOCUMENTS & SCHEDULES	SUBMITTED [Yes or No]
SECTION 5: Certificate of Acquaintance with RFQ Documents	
SECTION 6: RFQ Declaration and Breach of Law Form	
SECTION 8: Protection of Personal Information	
SECTION 1: SBD1 Form	

5 CONTINUED VALIDITY OF RETURNABLE DOCUMENTS

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

SECTION 4 QUOTATION FORM

I/We
hereby offer to supply the goods/services at the prices quoted in the Price Schedule below, in accordance with

the conditions related thereto.

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

- the Standard RFQ Terms and Conditions for the Supply of Goods or Services to Transnet; and
- any other standard or special conditions embodied in this Request for Quotation.

I/We accept that unless Transnet should otherwise decide and so inform me/us, this Quotation [and, if any, its covering letter and any subsequent exchange of correspondence], together with Transnet's acceptance thereof shall constitute a binding contract between Transnet and me/us. I/We further agree that if, after I/we have been notified of the acceptance of my/our Quotation, I/we fail to deliver the said goods/service/s within the delivery lead-time quoted, Transnet may, without prejudice to any other legal remedy which it may have, cancel the order and recover from me/us any expenses incurred by Transnet in calling for Quotations afresh and/or having to accept any less favourable offer.

Price Schedule

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

	INSPECTIONS			Month			
Item: A	Description	Unit	QTY	Amount Excl VAT	Amount Excl VAT	Amount Excl VAT	Total Amount
				Year 1	Year 2	Year 3	(Year 1 +2+3)
1	PRELIMINARIES AND GENERALS						
1.1	FIXED ITEMS	Sum					
1.2	TIME RELATED ITEMS	Sum					
2	INSTEPCTIONS REQUIREMENTS						
2.1	Wharf Crane 15ton	Monthly	12				
2.2	Wharf Crane 4.5ton	Monthly	12				
2.3	Overhead Crane 10ton	Monthly	12				
2.4	Overhead Crane 3ton	Monthly	12				
2.5	Gantry and Crawl 1ton/3ton/5ton	Monthly	12				
2.6	Cherry Picker	Monthly	12				
2.4	Compressor	Monthly	12				
2.5	Chain Blocks 2ton	Monthly	12				
2.6	Lever Hoist 1.5ton	Monthly	12				
2.7	Drum Clamp 220kg	Monthly	12				
2.8	Plate Grab 1ton	Monthly	12				
2.9	Lifting Shackles	Monthly	12				
2.10	Chain Slings (4legs) 3ton,4ton,21ton	Monthly	12				

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2.11	Keel block Slings 3048kg	Monthly	12				
2.12	Man Cage 800kg	Monthly	12				
2.13	Steel and Aluminium Gangways	Monthly	12				
2.14	Ladders	Monthly	12				
2.15	Fixed Ladders	Monthly	12				
2.16	Safety harness	Monthly	12				
2.17	Wire Rope Slings	Monthly	12				
2.18	Soft Slings (Various sizes)	Monthly	4				
2.19	Plate Hooks 5ton	Monthly	4				
2.20	Bench Grinder	Monthly	12				
2.21	Life Jacket	Monthly	12				
2.22	Scaffolding	Monthly	12				
2.23	Morris Chain Pull 1.5tons	Monthly	12				
2.24	Tirfor	Monthly	12				
2.25	Quick Release Hook	Monthly	12				
2.26	Link Hammer Lock Hook	Monthly	12				
2.27	Snatch Block	Monthly	12				
2.28	Tyre Spreader	Monthly	12				
2.29	Lifting Bags	Monthly	12				
2.30	Air receivers	Monthly	12				
2.31	Webbing Slings	Monthly	12				
2.32	Pallet beams	Monthly	12				
2.33	Sling release	Monthly	12				
2.34	Extension forks	Monthly	12				
2.35	Forklift	Monthly	12				
2.36	Pedestal grinder	Monthly	12				
2.37	Hook and cross heads	Monthly	12				
2.38	Davit cranes	Monthly	12				
2.39	Gauges	Monthly	12				
2.40	Scales	Monthly	12				
2.41	Capstan winch	Monthly	12				

2.42	Tri pod lifting tool	Monthly	12			
2.43	Manhole lifting tool	Monthly	12			
2.44	Wharf Crane 15ton	Monthly	12			
2.45	Wharf Crane 4.5ton	Monthly	12			
2.46	Overhead Crane 10ton	Monthly	12			
		Total Excl VAT				

	Description: LOAD TESTING Un			Ann	ual Load Te	sting	
Item B		Unit	Unit FREQUENCY OVER 12 MONTHS		Amount Excl. VAT	Amount Excl. VAT	Total Amount
			MONTHS	Year 1	Year 2	Year 3	(Year 1 +2+3)
3	LOAD TESTING REQUIREMENTS						
3.1	Wharf Crane 15ton	Annually	1				
3.2	Wharf Crane 4.5ton	Annually	1				
3.3	Overhead Crane 10ton	Annually	1				
3.4	Overhead Crane 3ton	Annually	1				
3.5	Gantry and Crawl 1ton/3ton/5ton	Annually	1				
3.6	Cherry Picker	Annually	1				
3.4	Compressor	Annually	1				
3.5	Chain Blocks 2ton	Annually	1				
3.6	Lever Hoist 1.5ton	Annually	1				
3.7	Drum Clamp 220kg	Annually	1				
3.8	Plate Grab 1ton	Annually	1				
3.9	Lifting Shackles	Annually	1				
3.10	Chain Slings (4legs) 3ton,4ton,21ton	Annually	1				
3.11	Keel block Slings 3048kg	Annually	1				
3.12	Man Cage 800kg	Annually	1				
3.13	Steel and Aluminium Gangways	Annually	1				
3.14	Ladders	Annually	1				
3.15	Fixed Ladders	Annually	1				
3.16	Safety harness	Annually	1				
3.17	Scaffolding	Annually	1				
3.18	Tirfor	Annually	1				
3.19	Quick Release Hook	Annually	1				

3.20	Link Hammer Lock Hook	Annually	1							
3.21	Snatch Block	Annually	1							
3.22	Tyre Spreader	Annually	1							
3.23	Lifting Bags	Annually	1							
3.24	Air receivers	Annually	1							
3.25	Webbing Slings	Annually	1							
3.26	Pallet beams	Annually	1							
3.27	Sling release	Annually	1							
3.28	Extension forks	Annually	1							
3.29	Forklift	Annually	1							
3.30	Pedestal grinder	Annually	1							
3.31	Hook and cross heads	Annually	1							
3.32	Davit cranes	Annually	1							
3.33	Gauges	Annually	1							
3.34	Scales	Annually	1							
3.35	Capstan winch	Annually	1							
3.36	Tri pod lifting tool	Annually	1							
3.37	Manhole lifting tool	Annually	1							
3.38	Wharf Crane 15ton	Annually	1							
3.39	Wharf Crane 4.5ton	Annually	1							
3.40	Overhead Crane 10ton	Annually	1							
						AT @ 15%				
		INCL VAT								
	CARRY OVER TOTAL PRICE FOR				O BELOW AS	TOTAL OFFE	RED PRICE			
	TOTAL OF									
	V	ALUE ADDED TAX	@ 15%							
	TOTAL OF	FERED PRICE INCI	LUSIVE OF	VAT						
1										

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

Notes to Pricing:

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

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

- b) To facilitate like-for-like comparison bidders must submit pricing strictly in accordance with this price schedule and not utilise a different format. Deviation from this pricing schedule will result in a bid being disqualified.
- c) Please note that should you have offered a discounted price(s), Transnet will only consider such price discount(s) in the final evaluation stage if offered on an unconditional basis.

Date

SECTION 5

CERTIFICATE OF ACQUAINTANCE WITH RFQ DOCUMENTS

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

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

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

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

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

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

SIGNATURE OF WITNESSES ADDRESS OF WITNESSES 1	
1	
Name	
2	
Name	
SIGNATURE OF RESPONDENT'S AUTHORISED REPRESENTATIVE:	
NAME:	
DESIGNATION:	

Respondent's Signature

SECTION 6

RFQ DECLARATION AND BREACH OF LAW FORM

NAME OF ENTITY: $_{\cdot}$		
We	do hereby certify t	:hat:

- Transnet has supplied and we have received appropriate responses to any/all questions [as applicable] which were submitted by ourselves for RFQ Clarification purposes;
- We have received all information we deemed necessary for the completion of this Request for Quotation [RFQ];
- 3. We have been provided with sufficient access to the existing Transnet facilities/sites and all relevant information relevant to the Supply of the Goods as well as Transnet information and Employees, and have had sufficient time in which to conduct and perform a thorough due diligence of Transnet's operations and business requirements and assets used by Transnet. Transnet will therefore not consider or permit any pre- or post-contract verification or any related adjustment to pricing, service levels or any other provisions/conditions based on any incorrect assumptions made by the Respondent in arriving at his Bid Price.
- 4. At no stage have we received additional information relating to the subject matter of this RFQ from Transnet sources, other than information formally received from the designated Transnet contact(s) as nominated in the RFQ documents;
- 5. We have complied with all obligations of the Bidder/Supplier as indicated in the Transnet Supplier Integrity Pact which includes but are not limited to ensuring that we take all measures necessary to prevent corrupt practices, unfairness and illegal activities in order to secure or in furtherance to secure a contract with Transnet;
- 6. We are satisfied, insofar as our entity is concerned, that the processes and procedures adopted by Transnet in issuing this RFQ and the requirements requested from Bidders in responding to this RFQ have been conducted in a fair and transparent manner;
- 7. We declare that a family, business and/or social relationship exists / does not exist [delete as applicable] between an owner / member / director / partner / shareholder of our entity and an employee or board member of Transnet including any person who may be involved in the evaluation and/or adjudication of this Bid;
- 8. We declare that an owner / member / director / partner / shareholder of our entity **is / is not** [delete as applicable] an employee or board member of the Transnet;
- 9. In addition, we declare that an owner / member / director / partner / shareholder/employee of our entity has / has not been [delete as applicable] a former employee or board member of Transnet in the past 10 years. I further declare that if they were a former employee or board member of Transnet in the past 10 years that they were/were not involved in the bid preparation or had access to the information related to this RFQ; and
- 10. If such a relationship as indicated in paragraph 7, 8 and/or 9 exists, the Respondent is to complete the following section:

 1 the

	FULL NAME OF OWNER/MEMBER/DIR PARTNER/SHAREHOLDER/EMPLOYEE		ADDRESS:
	Indicate nature of relationship with Ti	ransnet:	
	[Failure to furnish complete and disqualification of a response and		
	Transnet]. Information provided	in the declarations may be us	ed by Transnet and/or its affiliates
	to verify the correctness of the in	nformation provided.	
	and Transnet [other than any e	xisting and appropriate business in the forthcoming adjudication	of any relationship between ourselves relationship with Transnet] which could not process, we shall notify Transnet
BID	DER'S DISCLOSURE (SBD4)		
12	PURPOSE OF THE FORM		
	with the principles of transposed Constitution of the Republic of required for the bidder to mak 12.2 Where a person/s are listed	parency, accountability, impartiant of South Africa and further expression this declaration in respect of the	aulters and / or the List of Restricted
13	Bidder's declaration		
	13.1 Is the bidder, or any of its direction partners or any person having employed by the state?	rectors / trustees / shareholders ng a controlling interest ¹ in th	•
	numbers of sole proprietor/	•	bers, and, if applicable, state employeers / members/ partners or any person
	Full Name	Identity Number	Name of State institution

Respondent's Signature Date

Page 30 of 39 **Returnable Document**

ā	Do you, or any pe any person who is e 1. If so, furnish par	mployed by			e a relationsh	ip with	YES/NO
i C	Does the bidder or partners or any personterest in any other contract? I. If so, furnish partners are bidder or any other bidder.	any of its done its done having a related ento	controlling	ustees / share	enterprise ha	ave any	YES/NO
				······································			
I, th		me)				_	
I, th	LARATION ne undersigned, (nar	me)e following s	tatements th	nat I certify to	be true and c	_	
I, th bid, 14.1	LARATION ne undersigned, (nar do hereby make the	me)e following s understand	tatements the content	nat I certify to	be true and cosure;	omplete in ev	ery respect:
I, th bid, 14.1 14.2	LARATION The undersigned, (nare the land of the land	me)e following s understand t the accom very respect; arrived at t	tatements the content panying bid the accompa	nat I certify to s of this disclo will be disqua anying bid in nt with any o	be true and consure; alified if this didependently to the competitor. He	complete in evolution evolution in evolution in evolution in evolution in evolution evolution in evolution e	ery respect: ound not to be tru thout consultation

Respondent's Signature Date

the

- 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

12. We further hereby certify that *I/we have/have not been* [delete as applicable] found guilty during the preceding 5 [five] years of a serious breach of law, including but not limited to a breach of the Competition Act, 89 of 1998, by a court of law, tribunal or other administrative body. The type of breach that the Respondent is required to disclose excludes relatively minor offences or misdemeanours, e.g. traffic offences. This includes the imposition of an administrative fine or penalty.

Where found guilty of such a serious breach, please disclose:

where round guilty or such a serious	breach, please disclose.	
NATURE OF BREACH:		
	Transnet SOC Ltd reserves the right to exc or entity have been found guilty of a seriou	
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

SECTION 7: SPECIFIC GOALS 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 specific goals Contribution. Transnet will award preference points to companies who provide valid proof of evidence of as per the table below.

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF SPECIFIC GOALS, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000.

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 value of this bid is estimated to **not exceed** R50 000 000 (all applicable taxes included) and therefore the 80/20 preference point system shall be applicable. Despite the stipulated preference point system, Transnet shall use the lowest acceptable bid to determine the applicable preference point system in a situation where all received acceptable bids are received outside the stated preference point system.
- 1.3 The 80/20 preference point system will be applicable to this tender.
- 1.4 Preference points for this bid shall be awarded for:
 - (a) Price;
 - (b) B-BBEE Status Level of Contribution.
 - (c) Any other specific goal determined in Transnet preferential procurement policy.
- 1.5 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	80
B-BBEE STATUS LEVEL OF CONTRIBUTOR	
	20
Total points for Price and Specific Goals must not exceed	100

- Failure on the part of a bidder to submit proof of specific goals together with the bid will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.
- 1.7 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2. **DEFINITIONS**

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

- (c) "B-BBEE status level of contributor" means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (d) "bid" means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the PROVISION of services, works or goods, through price quotations, advertised competitive bidding processes or proposals;
- (e) "Broad-Based Black Economic Empowerment Act" means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (f) **"EME"** means an Exempted Micro Enterprise as defines by Codes of Good Practice under section 9 (1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (g) **"functionality"** means the ability of a bidder to provide goods or services in accordance with specification as set out in the bid documents;
- (h) "Price" includes all applicable taxes less all unconditional discounts.
- (i) "Proof of B-BBEE Status Level of Contributor" means:
 - 1) B-BBBEE status level certificate issued by an unauthorised body or person;
 - 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
 - 3) Any other requirement prescribed in terms of the B-BBEE Act.
- (j) "QSE" means a Qualifying Small Enterprise in terms of a Codes of Good Practice under section 9 (1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (k) **"rand value"** means the total estimated value of a contract in South African currency, calculated at the time of bid invitations, and includes all applicable taxes and excise duties.
- (I) **"Specific goals"** means targeted advancement areas or categories of persons or groups either previously disadvantaged or falling within the scope of the Reconstruction and Development Programme identified by Transnet to be given preference in allocation of procurement contracts in line with section 2(1) of the PPPFA.

3. POINTS AWARDED FOR PRICE

3.1 THE 80/20 PREFERENCE POINT SYSTEMS

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

80/20

$$Ps = 80 \left(1 - \frac{Pt - P\min}{P\min} \right)$$

Where

Ps = Points scored for comparative price of bid under consideration

Pt = Comparative price of bid under consideration

Pmin = Comparative price of lowest acceptable bid

In terms of Transnet Preferential Procurement Policy (TPPP) and Procurement Manuals, the following preference points must be awarded to a bidder who provides the relevant required evidence for claiming points

Selected Specific Goal	Number of points allocated (80/20)
B-BBEE Level of contributor – Level 1 or 2	15
30% Black Women Owned Entities	5
Non-Compliant and/or B-BBEE Level 3-8 contributors	0

4. **EVEDINCE REQUIRED FOR CLAIMING SPECIFIC GOALS**

4.1 In terms of Transnet Preferential Procurement Policy (TPPP) and Procurement Manuals, preference points must be awarded to a bidder for providing evidence in accordance with the table below:

Specific Goals	Acceptable Evidence		
B-BBEE	B-BBEE Certificate / Sworn- Affidavit / B-BBEE CIPC Certificate (in case of JV, a consolidated scorecard will be accepted) as per DTIC guideline		
30% Black Women Owned Entities	B-BBEE Certificate / Sworn- Affidavit / B-BBEE CIPC Certificate (in case of JV, a consolidated scorecard will be accepted) as per DTIC guideline		

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 subcontractor 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 subcontract.

Date

5.1	bladers who claim points in	respect of B BBEE status Level	or Contribution must complete the following:

6. B-BBEE STATUS LEVEL OF CONTRIBUTION CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 6.1 6.1 B-BBEE Status Level of Contribution: . = (maximum of 20 points)

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

7. SUB-CONTRACTING

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

(Tick applicable box)				
YES		NO		

/ . I . I y C S , II I U I C C C	7.1.1	If yes	, indicate
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,	,					
i)	What percer	ntage (of the contr	act will	I be subcontracted	%
ii)	The name of	f the s	ub-contract	or		
iii)	The B-BBEE	status	level of the	e sub-c	contractor	
iv)	Whether the	sub-c	contractor is	an EM	ME or QSE	
,	(Tick applicable box)					
	YES		NO		1	

v) Specify, by ticking the appropriate box, if subcontracting with any of the enterprises below:

Designated Group: An EME or QSE which is at last 51% owned	EME √	QSE √
by:		
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					

		[Tio	CK APPLICA	ABLE BOX]				
8	3.5	DESCRIBE PRINCIPAL BUSINESS ACTIVITIES						
8	3.6	СО	MPANY	CLASSIFICATION				
		 □ Manufacturer □ Supplier □ Professional service provider □ Other service providers, e.g. transporter, etc. [TICK APPLICABLE BOX] 						
8	3.7	Tot	al numbe	er of years the company/firm ha	s been	in business:		
8	3.8	the of	points o	laimed, based on the B-BBEE segoing certificate, qualifies the	tatus le	ed to do so on behalf of the company/firm, certify that vel of contribution indicated in paragraphs 4.1 and 6.1 any/ firm for the preference(s) shown and $\rm I$ / we		
		i)	The inf	ormation furnished is true and o	correct;			
		ii)	-	eference points claimed are in aph 1 of this form;	in acco	rdance with the General Conditions as indicated in		
		iii)	6.1, the	_		result of points claimed as shown in paragraph 4.1 and documentary proof to the satisfaction of the purchaser		
		iv)		nditions of contract have not bee		een claimed or obtained on a fraudulent basis or any of ed, the purchaser may, in addition to any other remedy		
			(a)	disqualify the person from the	e bidding	g process;		
			(b)	recover costs, losses or dam person's conduct;	ages it	has incurred or suffered as a result of that		
			(c)			lamages which it has suffered as a result of gements due to such cancellation;		
			(d)		et reserv	ted a portion of the bid to another person wes the right to penalise the bidder up to 10		
			(e)	the shareholders and director the National Treasury from ob-	rs who otaining	actor, its shareholders and directors, or only acted on a fraudulent basis, be restricted by business from any organ of state for a period adi alteram partem (hear the other side) rule		
			(f)	forward the matter for crimina	al prose	cution.		
	\4/1 T \15	005						
	WITNE	SSE	:5			SIGNATURE(S) OF DIRREDS(S)		
1.						SIGNATURE(S) OF BIDDERS(S) DATE:		
2.						ADDRESS		

Respondent's Signature Date

SECTION 8

PROTECTION OF PERSONAL INFORMATION

- The following terms shall bear the same meaning as contemplated in Section 1 of the Protection of Person information act, No.4 of 2013. ("POPIA"):
 - consent; data subject; electronic communication; information officer; operator; person; personal information; processing; record; Regulator; responsible party; special information; as well as any terms derived from these terms.
- 2. Transnet will process all information by the Respondent in terms of the requirements contemplated in Section 4(1) of the POPIA:
 - Accountability; Processing limitation; Purpose specification; Further processing limitation; Information quality; Openness; Security safeguards and Data subject participation.
- 3. The Parties acknowledge and agree that, in relation to personal information that will be processed pursuant to this RFQ, the Responsible party is "Transnet" and the Data subject is the "Respondent". Transnet will process personal information only with the knowledge and authorisation of the Respondent and will treat personal information which comes to its knowledge as confidential and will not disclose it, unless so required by law or subject to the exceptions contained in the POPIA.
- 4. Transnet reserves all the rights afforded to it by the POPIA in the processing of any of its information as contained in this RFQ and the Respondent is required to comply with all prescripts as detailed in the POPIA relating to all information concerning Transnet.
- 5. In responding to this bid, Transnet acknowledges that it will obtain and have access to personal information of the Respondent. Transnet agrees that it shall only process the information disclosed by Respondent in their response to this bid for the purpose of evaluating and subsequent award of business and in accordance with any applicable law.
- 6. Transnet further agrees that in submitting any information or documentation requested in this RFQ, the Respondent is consenting to the further processing of their personal information for the purpose of, but not limited to, risk assessment, assurances, contract award, contract management, auditing, legal opinions/litigations, investigations (if applicable), document storage for the legislatively required period, destruction, de-identification and publishing of personal information by Transnet and/or its authorised appointed third parties.
- 7. Furthermore, Transnet will not otherwise modify, amend or alter any personal data submitted by the Respondent or disclose or permit the disclosure of any personal data to any third party without the prior written consent from the Respondent. Similarly, Transnet requires the Respondent to process any personal information disclosed by Transnet in the bidding process in the same manner.
- 8. Transnet shall, at all times, ensure compliance with any applicable laws put in place and maintain sufficient measures, policies and systems to manage and secure against all forms of risks to any information that may be shared or accessed pursuant to this RFQ (physically, through a computer or any other form of electronic communication).

Respondent's Signature Date

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

Respondents are	required to	provide	consent	below
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	-		
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 RFQ is complete, accurate, not misleading, is up to date and may be updated where applicable.

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Jiui latul E Vi	Nespondents authorised re	JI ESCHLALIVE.	

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

Respondent's Signature Date



STANDARD TERMS AND CONDITIONS OF CONTRACT

between	
TRANSNET SOC LTD	2000/20
Registration Number 1990/000	1900/30
And	
Registration Number	
INSPECTIONS AND LOAD	OF A SERVICE PROVIDER FOR THE PROVISION OF TESTING OF LIFTING EQUIPMENT AT THE PORT OF EASE THIRTY-SIX (36) MONTHS
CONTRACT NUMBER	
DURATION	36 Months
COMMENCEMENT DATE	01 November 2025
EXPIRY DATE	31 October 2028

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Schedule 1 – SCHEDULE OF REQUIREMENTS

1 SOLE AGREEMENT

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

2 CONFORMITY WITH ORDER

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

3 DELIVERY AND TITLE

- 3.1 The delivery dates and addresses are those in the Order. Time shall be of the essence in respect of the Service Provider Provider's obligations under the Order.
- 3.2 The SERVICE PROVIDER will not be excused for delay in delivery or performance except due to circumstances outside its control and then only subject to the SERVICE PROVIDER having notified Transnet in writing on becoming aware of such circumstances. Transnet may terminate an Order, in whole or in part, without incurring any liability to the SERVICE PROVIDER if such a delay becomes, in Transnet's absolute opinion, significant.
- 3.3 If on delivery, the Services do not conform to the Order, Transnet may reject the Services and the SERVICE PROVIDER shall promptly rectify any defects or in Transnet's opinion, supply appropriate replacement Services at the Service Provider Provider's expense within the specified delivery times, without any liability due by Transnet.

4 PRICE AND PAYMENT

- 4.1 Prices specified in an Order cannot be increased. Payment for the Services shall be made by Transnet against an original undisputed invoice(s) [a Tax Invoice], supporting documentation and month-end statement from the Service Provider. Tax Invoices plus supporting documentation shall be posted to the address shown in the Order.
- 4.2 Payment of the Service Provider Provider's valid Tax Invoice(s) will be made by Transnet in the South African currency and on the terms stated in the Order, the standard payment terms being 30 [thirty] days from date of receipt by Transnet of a month-end statement, unless otherwise agreed to in writing. Transnet shall arrange for payment of such Tax Invoices and any pre-authorised additional expenses incurred, provided that the authorised expenses are supported by acceptable documentary proof of expenditure

incurred [where this is available]. Any amounts due in terms of these Terms shall be paid to the Service Provider, taking into account any deduction or set-off and bank charges.

5 PROPRIETARY RIGHTS LIABILITY

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

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

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

6 PROPRIETARY INFORMATION

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

7 PROTECTION OF PERSONAL INFORMATION

a) The following terms shall bear the same meaning as contemplated in Section 1 of the Protection of Personal Information Act 4 of 2013 ("POPIA"):

- consent; person; personal information; processing; record; Regulator as well as any terms derived from these terms of the POPIA
- b) 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.
- c) Transnet agrees that in submitting any information or documentation requested in the RFP and in this Agreement, the SERVICE PROVIDER consents to the processing of their personal information for the purpose of, but not limited to, risk assessment, contract award, contract management, auditing, legal opinions/litigation, 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.
- d) The Parties agree that they may obtain and have access to personal information for the fulfilment of the rights and obligations contained herein. In performing the obligations as set out in this Agreement, the Parties shall at all times ensure that:
 - they process personal information only for the express purpose for which it was obtained;
 - ii. once processed for the purposes for which it was obtained, all personal information will be destroyed to an extent that it cannot be reconstructed to its original form, subject to any legal retention requirements;
 - iii. Personal information is provided only to authorised personnel who strictly require the personal information to carry out the Parties' respective obligations under this Agreement;
 - iv. they do not disclose personal information of the other Party, other than in terms of this Agreement;
 - v. they have all reasonable technical and organisational measures in place to protect all personal information from unauthorised access and/or use;
 - vi. they have appropriate technical and organisational measures in place to safeguard the security, integrity and authenticity of all information in their possession or under their control in terms of this Agreement;
 - vii. they identify all reasonably foreseeable internal and external risks to personal information in their possession or under their control; establish and maintain appropriate safeguards against the risks identified; regularly verify that the safeguards are effectively implemented; and ensure that the safeguards are continually updated in response to new risks or deficiencies in previously implemented safeguards;
 - viii. such personal information is protected against unauthorised or unlawful processing, accidental loss, destruction or damage, alteration, disclosure or access.

- 9.1. The Parties agree that if personal information will be processed for additional purposes beyond the original purpose for which it was obtained, explicit consent must be obtained beforehand from those persons whose information will be subject to such processing.
- 9.2. Should it be necessary for either Party to disclose or otherwise make available the personal information to any third party (including sub-contractors and employees) that is not already consented to, it may do so only with the prior written consent of the other Party. The Party requiring such consent shall require of all such third parties, appropriate written undertakings to be provided, containing similar terms to that set forth in this clause, and dealing with that third party's obligations in respect of its processing of the personal information. Following approval by the other Party, the Party requiring consent agrees that the provisions of this clause shall mutatis mutandis apply to all authorised third parties who process personal information.
- 9.3. The Parties shall ensure that any persons authorized to process information on their behalf (including employees and third parties) will safeguard the security, integrity and authenticity of all information. Where necessary to meet this requirement, the Parties shall keep all personal information and any analyses, profiles, or documents derived therefrom logically separated from all other information and documentation held by it.
- 9.4. The Parties shall carry out regular assessments to identify all reasonably foreseeable internal and external risks to the personal information in its possession or under its control. The Parties shall implement and maintain appropriate safeguards against the risks which it identifies and shall also regularly verify that the safeguards which it has in place have been effectively implemented.
- 9.5. The Parties agree that they will promptly return, destroy or de-identify any personal information in their possession or control which belongs to the other Party once it no longer serves the purpose for which it was collected in relation to this Agreement, subject to any legal retention requirements. This may be at the request of the other Party and includes circumstances where a person has requested the Parties to delete all instances of their personal information. The information will be destroyed or de-identified in such a manner that it cannot be reconstructed to its original form, linking it to any particular individual or organisation.
- 9.6. Personal Information security breach:
 - a) Each Party shall notify the other party in writing as soon as possible after it becomes aware of or suspects any loss, unauthorised access or unlawful use of any personal information and shall, at its own cost, 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. The Parties shall also be required to provide each other with details of the persons affected by the compromise and the nature and extent of the compromise, including details of the identity of the unauthorised person who may have accessed or acquired the personal information.

- b) The Parties shall provide on-going updates on the progress in resolving the compromise at reasonable intervals until such time as the compromise is resolved.
- c) Where required, the Parties must notify the South African Police Service; and/or the State Security Agency and the Information Regulator and the affected persons of the security breach. Any such notification shall always include sufficient information to allow the persons to take protective measures against the potential consequences of the compromise.
- d) The Parties undertake to co-operate in any investigations relating to security which is carried out by or on behalf of the other including providing any information or material in its possession or control and implementing new security measures.

8 PUBLICITY

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

9 NON-CONFORMANCE OF SERVICES PROCURED

- 9.1 In the case of Services procured by Transnet from the SERVICE PROVIDER in terms of this Agreement, being found not to conform to the Transnet standards, specifications and requirements, Transnet at any time may be entitled to raise a Non Conformance Report (NCR) against a SERVICE PROVIDER whose Services do not conform to Transnet standards, specifications and requirements directing the SERVICE PROVIDER to investigate and remedy the non-conformance within the stipulated time frame as may be determined by Transnet at its discretion.
- 9.2 Failure by the SERVICE PROVIDER to fully comply with NCR within the period stated in sub-clause 9.1 above, shall entitle Transnet to further conditions to which the Service Provider must discharge in order to close the NCR or to terminate the order without giving the SERVICE PROVIDER written notice of termination in terms of this Agreement.

10 TERMINATION OF ORDER

- 10.1 Notwithstanding the date of signature hereof, the commencement date of this Order is ______ and will expire on ______, unless:
 - this Order is terminated by either Party in accordance with the provisions incorporated herein or in any schedules or annexures appended hereto, or otherwise in accordance with law or equity; or
 - this Order is extended at Transnet's option for a further period to be agreed by the Parties; or
 - the allocated maximum contract value is depleted before the contract expiry date.

- 10.2 Transnet may cancel this Order in whole or in part at any time upon at least 30 [thirty] days' written notice to the Service Provider, or when there is a change in control of the SERVICE PROVIDER or the SERVICE PROVIDER commits any serious breach or any repeated or continued material breach of its obligations under these Terms and/or Order or shall have been guilty of conduct tending to bring itself into disrepute, on written notice to the SERVICE PROVIDER when such work on the Order shall stop.
- 10.3 Transnet shall pay the SERVICE PROVIDER a fair and reasonable price for justified work in progress, where such price reflects only those costs not otherwise recoverable by the Service Provider, at the time of termination, and the SERVICE PROVIDER shall give Transnet full assistance to check the extent of such work in progress. Payment of such price shall be in full and final satisfaction of any claims arising out of such termination and upon such payment the SERVICE PROVIDER shall deliver to Transnet all work, including any materials, completed or in progress. The sum payable to the SERVICE PROVIDER under this clause will not in any event exceed the total amount that would have been payable to the SERVICE PROVIDER had the Order not been terminated.
- 10.4 In the event of termination, the SERVICE PROVIDER must submit all claims within 2 [two] months of termination after which time claims will only be met in what Transnet considers exceptional circumstances.
- 10.5 If the Services are not provided in accordance with an Order, the Order shall be deemed terminated and the SERVICE PROVIDER shall compensate Transnet for any costs incurred in obtaining substitute Services or any damage caused due to the failure or delay in the delivery.
- 10.6 Both parties to this agreement reserve the right to terminate this agreement:
 - 13.6.1. If the other commits a material breach of this contracts and fails to remedy such breach within a stipulated time frame or within a reasonable time;
 - 13.6.2. There is non-performance from either of the parties; or
 - 13.6.3. If the other party is unable to perform its obligations under this agreement.

11 ACCESS

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

12 WARRANTY

The SERVICE PROVIDER warrants that it is competent to supply the Services in accordance with these Terms to the reasonable satisfaction of Transnet and that all Services delivered under the Order: (a) conform and comply in all relevant legislation, standards, directives and orders

related to *[inter alia]* the Services in force at the time of delivery, and to any specifications referred to in the Order; (b) will not cause any deterioration in the functionality of any Transnet equipment; and (c) do not infringe any third party rights of any kind. The SERVICE PROVIDER hereby indemnifies Transnet against all losses, liabilities, costs, claims, damages, expenses and awards of any kinds incurred or made against Transnet in connection with any breach of this warranty.

13 INSOLVENCY

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

14 SUBCONTRACTING

- 14.1 The SERVICE PROVIDER may only enter into a subcontracting arrangement with the approval of Transnet. If the Supplier subcontracts a portion of the contract to another person without declaring it to Transnet, Transnet must penalise the Supplier up to 10% of the value of the contract.
- 14.2 Should Transnet approve the Supplier's/Service Provider's subcontracting arrangement, the SERVICE PROVIDER and not the sub-contractor will at all times be held liable for performance in terms of its contractual obligations.
- 14.3 The SERVICE PROVIDER may not subcontract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 14.4 The SERVICE PROVIDER may not subcontract 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 of contributor than the Supplier, unless the contract is subcontracted to an Exempted Micro Enterprise (EME) that has the capability and ability to execute the subcontract.

15 PAYMENT TO SUB-CONTRACTORS

- 15.1 Transnet reserves the right, in its sole discretion, to make payment directly to the subcontractor of the Service Provider, subject to the following conditions:
 - a) Receipt of an undisputed invoice from the sub-contractor; and
 - b) Receipt of written confirmation from the SERVICE PROVIDER that the amounts claimed by the sub-contractor are correct and that the services for which the sub-

contractor has requested payment were rendered to the satisfaction of the Service Provider, against the required standards.

- Nothing contained in this clause must be interpreted as bestowing on any sub-contractor a right or legitimate expectation to be paid directly by Transnet. Furthermore, this clause does not bestow any right or legitimate expectation on the SERVICE PROVIDER to demand that Transnet pay its sub-contractor directly. The decision to pay any sub-contractor directly, remains that of Transnet alone.
- 15.3 The SERVICE PROVIDER remains liable for its contractual obligations under the Agreement, including all services rendered by the sub-contractor.
- 15.4 This clause does not establish any contractual relationship between Transnet and any sub-contractor of the Service Provider, whatsoever.

16 CESSIONS AND ASSIGNMENTS AS PER NT INSTRUCTION NOTE 08 OF 2022/2023

- 16.1 The SERVICE PROVIDER is not allowed to cede its rights for payment in terms of this Agreement without prior written approval from Transnet. Cession shall only be applicable as follows:
 - a) Cession must only be applicable to the transfer of right to payment for Services delivered/rendered by a SERVICE PROVIDER to an FSP or State Institutions;
 - b) The written request for cession must be by the SERVICE PROVIDER and not a third party; and
 - c) The written request by the SERVICE PROVIDER must be accompanied by the cession agreement.
- 16.2 The SERVICE PROVIDER is prohibited from transferring its rights and obligations to perform under this contract. Assignments are against the principles of section 217 of the Constitution mainly, fairness, transparency and competitiveness.

17 SUPPLIER INTEGRITY PACT

The SERVICE PROVIDER shall observe and ensure compliance with all requirements and objectives of the Transnet Supplier Integrity Pact as agreed to in response to the RFQ. The general purpose of the Supplier Integrity Pact is to agree to avoid all forms of dishonesty, fraud and corruption by following a system that is fair, transparent and free from any undue influence prior to, during and subsequent to the currency of the procurement event leading to this Agreement and this Agreement itself;

18 DATABASE OF RESTRICTED SUPPLIERS

The process of restriction is used to exclude a company/person from conducting future business with Transnet and other organs of state for a specified period. No Bid shall be awarded to a Bidder whose name (or any of its members, directors, partners or trustees) appear on the Register of Tender Defaulters kept by National Treasury, or who have been placed on National Treasury's List of Restricted Suppliers. Transnet reserves the right to withdraw an award, or

cancel a contract concluded with a Bidder should it be established, at any time, that a bidder has been restricted with National Treasury by another government institution.

19 NOTICES

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

20 LAW

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

21 GENERAL

Completion or termination of an Order shall be without prejudice to any Term herein which by its nature would be deemed to continue after completion or termination, including but not limited to clauses 5, 6, 7, and 8. Headings are included herein for convenience only. If any Term herein be held illegal or unenforceable, the validity or enforceability of the remaining Terms shall not be affected. No failure or delay by Transnet to enforce any rights under these Terms will operate as a waiver thereof by Transnet. All rights and remedies available to either party under these Terms shall be in addition to, not to the exclusion of, rights otherwise available at law.

22 COUNTERPARTS

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

Thus signed by the Parties and witnessed on the following dates and at the following places:

SIGNED for and on behalf of	SIGNED for and on behalf of
Transnet SOC Ltd	
duly authorised hereto	duly authorised hereto
Registration Number 1990/000900/30	Registration Number
Signature	Signature
Name:	Name:
Position:	Position:
Date:	Date:
Place:	Place:
AS WITNESS:	AS WITNESS:
Signature	Signature
Name	Name



INTEGRITY PACT

Between

TRANSNET SOC LTD

Registration Number: 1990/000900/30

("Transnet")

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

PREAMBLE

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

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

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

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

1 OBJECTIVES

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

2 COMMITMENTS OF TRANSNET

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

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

3 OBLIGATIONS OF THE BIDDER / SUPPLIER

- 3.1 Transnet has a 'Zero Gifts' Policy. No employee is allowed to accept gifts, favours or benefits.
 - a) Transnet officials and employees **shall not** solicit, give or accept, or from agreeing to solicit, give, accept or receive directly or indirectly, any gift, gratuity, favour, entertainment, loan, or anything of monetary value, from any person or juridical entities in the course of official duties or in connection with any operation being managed by, or any transaction which may be affected by the functions of their office.
 - b) Transnet officials and employees **shall not** solicit or accept gifts of any kind, from vendors, suppliers, customers, potential employees, potential vendors, and suppliers, or any other individual or organisation irrespective of the value.
 - c) Under **no circumstances** should gifts, business courtesies or hospitality packages be accepted from or given to prospective suppliers participating in a tender process at the respective employee's Operating Division, regardless of retail value.
 - d) Gratuities, bribes or kickbacks of any kind must never be solicited, accepted or offered, either directly or indirectly. This includes money, loans, equity, special privileges, personal favours, benefit or services. Such favours will be considered to constitute corruption.
- 3.2 The Bidder / Supplier commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any ensuing contract stage in order to secure the contract or in furtherance to secure it and in particular the Bidder / Supplier commits to the following:
 - a) The Bidder / Supplier will not, directly or through any other person or firm, offer, promise or give to Transnet or to any of Transnet's employees involved in the bidding process or to any third person any material or other benefit or payment, in order to obtain in exchange an advantage during the bidding process; and
 - b) The Bidder / Supplier will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any employee of Transnet, connected directly or indirectly with the bidding process, or to any person, organisation or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 3.3 The Bidder / Supplier will not collude with other parties interested in the contract to preclude a competitive bid price, impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract. The Bidder / Supplier further commits itself to delivering against all agreed upon conditions as stipulated within the contract.
- 3.4 The Bidder / Supplier will not enter into any illegal or dishonest agreement or understanding, whether formal or informal with other Bidders / Suppliers. This applies in particular to certifications, submissions or non-submission of documents or actions that are restrictive or to introduce cartels into the bidding process.
- 3.5 The Bidder / Supplier will not commit any criminal offence under the relevant anti-corruption laws of South Africa or any other country. Furthermore, the Bidder /Supplier will not use for illegitimate purposes or for restrictive purposes or personal gain, or pass on to others, any information provided by Transnet as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 3.6 A Bidder / Supplier of foreign origin shall disclose the name and address of its agents or representatives in South Africa, if any, involved directly or indirectly in the registration or bidding process. Similarly, the Bidder / Supplier of South African nationality shall furnish the name and address of the foreign principals, if any, involved directly or indirectly in the registration or bidding process.
- 3.7 The Bidder / Supplier will not misrepresent facts or furnish false or forged documents or information in order to influence the bidding process to the advantage of the Bidder / Supplier or detriment of Transnet or other competitors.

- 3.8 Transnet may require the Bidder / Supplier to furnish Transnet with a copy of its code of conduct. Such code of conduct must address the compliance programme for the implementation of the code of conduct and reject the use of bribes and other dishonest and unethical conduct.
- 3.9 The Bidder / Supplier will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 3.10 The Bidder/Supplier confirms that they will uphold the ten principles of the United Nations Global Compact (UNGC) in the fields of Human Rights, Labour, Anti-Corruption and the Environment when undertaking business with Transnet as follows:
 - a) Human Rights
 - Principle 1: Businesses should support and respect the protection of internationally proclaimed human rights; and
 - Principle 2: make sure that they are not complicit in human rights abuses.
 - b) Labour
 - Principle 3: Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining;
 - Principle 4: the elimination of all forms of forced and compulsory labour;
 - Principle 5: the effective abolition of child labour; and
 - Principle 6: the elimination of discrimination in respect of employment and occupation.
 - c) Environment
 - Principle 7: Businesses should support a precautionary approach to environmental challenges;
 - Principle 8: undertake initiatives to promote greater environmental responsibility; and
 - Principle 9: encourage the development and diffusion of environmentally friendly technologies.
 - d) Anti-Corruption
 - Principle 10: Businesses should work against corruption in all its forms, including extortion and bribery.

4 INDEPENDENT BIDDING

- 4.1 For the purposes of this undertaking in relation to any submitted Bid, the Bidder declares to fully understand that the word "competitor" shall include any individual or organisation, other than the Bidder, whether or not affiliated with the Bidder, who:
 - a) has been requested to submit a Bid in response to this Bid invitation;
 - b) could potentially submit a Bid in response to this Bid invitation, based on their qualifications, abilities or experience; and
 - provides the same Goods and Services as the Bidder and/or is in the same line of business as the Bidder.
- 4.2 The Bidder has arrived at his submitted Bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium will not be construed as collusive bidding.
- 4.3 In particular, without limiting the generality of paragraph 4.2 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - a) prices;
 - b) geographical area where Goods or Services will be rendered [market allocation];
 - c) methods, factors or formulas used to calculate prices;
 - d) the intention or decision to submit or not to submit, a Bid;

- e) the submission of a Bid which does not meet the specifications and conditions of the RFP; or
- f) bidding with the intention of not winning the Bid.
- 4.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the Goods or Services to which his/her Bid relates.
- 4.5 The terms of the Bid as submitted have not been, and will not be, disclosed by the Bidder, directly or indirectly, to any competitor, prior to the date and time of the official Bid opening or of the awarding of the contract.
- 4.6 Bidders are aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, Bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and/or may be reported to the National Prosecuting Authority [NPA] for criminal investigation and/or may be restricted from conducting business with the public sector for a period not exceeding 10 [ten] years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

5 DISQUALIFICATION FROM BIDDING PROCESS

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

6 DATABASE OF RESTRICTED SUPPLIERS

- 6.1 The process of restriction is used to exclude a company/person from conducting future business with Transnet and other organs of state for a specified period. No Bid shall be awarded to a Bidder whose name (or any of its members, directors, partners or trustees) appear on the Register of Tender Defaulters kept by National Treasury, or who have been placed on National Treasury's List of Restricted Suppliers. Transnet reserves the right to withdraw an award, or cancel a contract concluded with a Bidder should it be established, at any time, that a bidder has been restricted with National Treasury by another government institution.
- 6.2 All the stipulations on Transnet's restriction process as laid down in Transnet's Supply Chain Policy and Procurement Procedures Manual are included herein by way of reference. Below follows a condensed summary of this restriction procedure.
- 6.3 On completion of the restriction procedure, Transnet will submit the restricted entity's details (including the identity number of the individuals and registration number of the entity) to National Treasury for placement on National Treasury's Database of Restricted Suppliers for the specified period of exclusion. National

Treasury will make the final decision on whether to restrict an entity from doing business with any organ of state for a period not exceeding 10 years and place the entity concerned on the Database of Restricted Suppliers published on its official website.

- 6.4 The decision to restrict is based on one of the grounds for restriction. The standard of proof to commence the restriction process is whether a "*prima facie*" (i.e. on the face of it) case has been established.
- 6.5 Depending on the seriousness of the misconduct and the strategic importance of the Goods/Services, in addition to restricting a company/person from future business, Transnet may decide to terminate some or all existing contracts with the company/person as well.
- 6.6 A supplier or contractor to Transnet may not subcontract any portion of the contract to a restricted company.
- 6.7 Grounds for restriction include: If any person/Enterprise which has submitted a Bid, concluded a contract, or, in the capacity of agent or subcontractor, has been associated with such Bid or contract:
 - a) Has, in bad faith, withdrawn such Bid after the advertised closing date and time for the receipt of Bids;
 - b) has, after being notified of the acceptance of his Bid, failed or refused to sign a contract when called upon to do so in terms of any condition forming part of the bid documents;
 - c) has carried out any contract resulting from such bid in an unsatisfactory manner or has breached any condition of the contract;
 - d) has offered, promised or given a bribe in relation to the obtaining or execution of the contract;
 - e) has acted in a fraudulent or improper manner or in bad faith towards Transnet or any Government Department or towards any public body, Enterprise or person;
 - f) has made any incorrect statement in a certificate or other communication with regard to the Local Content of his Goods or his B-BBEE status and is unable to prove to the satisfaction of Transnet that:
 - (i) he made the statement in good faith honestly believing it to be correct; and
 - (ii) before making such statement he took all reasonable steps to satisfy himself of its correctness;
 - g) has submitted false information regarding any other matter required in terms of the Preferential Procurement Regulations, 2017 issued in terms of the Preferential Procurement Policy Framework Act which will affect the evaluation of a Bid or where a Bidder has failed to declare any subcontracting arrangements;
 - h) caused Transnet damage, or to incur costs in order to meet the contractor's requirements and which could not be recovered from the contractor;
 - i) has litigated against Transnet in bad faith.

7 PREVIOUS TRANSGRESSIONS

- 7.1 The Bidder / Supplier hereby declares that no previous transgressions resulting in a serious breach of any law, including but not limited to, corruption, fraud, theft, extortion and contraventions of the Competition Act 89 of 1998, which occurred in the last 5 (five) years with any other public sector undertaking, government department or private sector company that could justify its exclusion from its registration on the Bidder's / Supplier's database or any bidding process.
- 7.2 If it is found to be that the Bidder / Supplier made an incorrect statement on this subject, the Bidder / Supplier can be rejected from the registration process or removed from the Bidder / Supplier database, if already registered, for such reason (refer to the Breach of Law Form contained in the applicable RFX document.)

8 SANCTIONS FOR VIOLATIONS

- 8.1 Transnet shall also take all or any one of the following actions, wherever required to:
 - Immediately exclude the Bidder / Supplier from the bidding process or call off the pre-contract negotiations without giving any compensation to the Bidder / Supplier. However, the proceedings with the other Bidders / Suppliers may continue;
 - b) Immediately cancel the contract, if already awarded or signed, without giving any compensation to the Bidder / Supplier;
 - c) Recover all sums already paid by Transnet;
 - d) Encash the advance bank guarantee and performance bond or warranty bond, if furnished by the Bidder / Supplier, in order to recover the payments, already made by Transnet, along with interest;
 - e) Cancel all or any other contracts with the Bidder / Supplier;
 - f) Exclude the Bidder / Supplier from entering into any bid with Transnet and other organs of state in future for a specified period; and
 - g) If the Supplier subcontracted a portion of the bid to another person without declaring it to Transnet, Transnet must penalise the Supplier up to 10% of the value of the contract.

9 CONFLICTS OF INTEREST

- 9.1 A conflict of interest includes, inter alia, a situation in which:
 - a) A Transnet employee has a personal financial interest in a bidding / supplying entity; and
 - b) A Transnet employee has private interests or personal considerations or has an affiliation or a relationship which affects, or may affect, or may be perceived to affect his / her judgment in action in the best interest of Transnet, or could affect the employee's motivations for acting in a particular manner, or which could result in, or be perceived as favouritism or nepotism.
- 9.2 A Transnet employee uses his / her position, or privileges or information obtained while acting in the capacity as an employee for:
 - a) Private gain or advancement; or
 - b) The expectation of private gain, or advancement, or any other advantage accruing to the employee must be declared in a prescribed form.

Thus, conflicts of interest of any bid committee member or any person involved in the sourcing process must be declared in a prescribed form.

- 9.3 If a Bidder / Supplier has or becomes aware of a conflict of interest i.e. a family, business and / or social relationship between its owner(s) / member(s) / director(s) / partner(s) / shareholder(s) and a Transnet employee / member of Transnet's Board of Directors in respect of a bid which will be considered for the bid process, the Bidder / Supplier:
 - a) must disclose the interest and its general nature, in the Request for Proposal ("RFX") declaration form;
 - b) must notify Transnet immediately in writing once the circumstances has arisen.
- 9.4 The Bidder / Supplier shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any committee member or any person involved in the sourcing process, where this is done, Transnet shall be entitled forthwith to rescind the contract and all other contracts with the Bidder / Supplier.

10 DISPUTE RESOLUTION

- 10.1 Transnet recognises that trust and good faith are pivotal to its relationship with its Bidders / Suppliers. When a dispute arises between Transnet and its Bidder / Supplier, the parties should use their best endeavours to resolve the dispute in an amicable manner, whenever possible. Litigation in bad faith negates the principles of trust and good faith on which commercial relationships are based. Accordingly, following a restriction process as mentioned in paragraph 6 above, Transnet will not do business with a company that litigates against it in bad faith or is involved in any action that reflects bad faith on its part. Litigation in bad faith includes, but is not limited to the following instances:
 - a) Vexatious proceedings: these are frivolous proceedings which have been instituted without proper grounds;
 - b) Perjury: where a supplier make a false statement either in giving evidence or on an affidavit;
 - c) **Scurrilous allegations:** where a supplier makes allegations regarding a senior Transnet employee which are without proper foundation, scandalous, abusive or defamatory; and
 - d) Abuse of court process: when a supplier abuses the court process in order to gain a competitive advantage during a bid process.

11 GENERAL

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

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

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NON DISCLOSURE AGREEMENT

THIS AGREEMENT is made between

Transnet SOC Ltd [**Transnet**] [Registration No. 1990/000900/30] whose registered office is at 49th Floor, Carlton Centre, 150 Commissioner Street, Johannesburg 2001,

(Compa	ny Name)

WHEREAS

and

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

IT IS HEREBY AGREED

1. INTERPRETATION

In this Agreement:

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

- 1.3.3 following such disclosure, becomes available to the Receiving Party or its Agents [as can be demonstrated by its written records or other reasonable evidence] from a source other than the Disclosing Party or its Agents, which source is not bound by any duty of confidentiality owed, directly or indirectly, to the Disclosing Party in relation to such information;
- 1.4 **Group** means any subsidiary, any holding company and any subsidiary of any holding company of either party; and
- **Information** means all information in whatever form including, without limitation, any information relating to systems, operations, plans, intentions, market opportunities, know-how, trade secrets and business affairs whether in writing, conveyed orally or by machine-readable medium.

2. CONFIDENTIAL INFORMATION

- All Confidential Information given by one party to this Agreement [the **Disclosing Party**] to the other party [the **Receiving Party**] will be treated by the Receiving Party as secret and confidential and will not, without the Disclosing Party's written consent, directly or indirectly communicate or disclose [whether in writing or orally or in any other manner] Confidential Information to any other person other than in accordance with the terms of this Agreement.
- 2.2 The Receiving Party will only use the Confidential Information for the sole purpose of technical and commercial discussions between the parties in relation to the Bid or for the subsequent performance of any contract between the parties in relation to the Bid.
- 2.3 Notwithstanding clause 2.1 above, the Receiving Party may disclose Confidential Information:
- 2.3.1 to those of its Agents who strictly need to know the Confidential Information for the sole purpose set out in clause 2.2 above, provided that the Receiving Party shall ensure that such Agents are made aware prior to the disclosure of any part of the Confidential Information that the same is confidential and that they owe a duty of confidence to the Disclosing Party. The Receiving Party shall at all times remain liable for any actions of such Agents that would constitute a breach of this Agreement; or
- 2.3.2 to the extent required by law or the rules of any applicable regulatory authority, subject to clause 2.4 below.
- In the event that the Receiving Party is required to disclose any Confidential Information in accordance with clause 2.3.2 above, it shall promptly notify the Disclosing Party and cooperate with the Disclosing Party regarding the form, nature, content and purpose of such disclosure or any action which the Disclosing Party may reasonably take to challenge the validity of such requirement.
- In the event that any Confidential Information shall be copied, disclosed or used otherwise than as permitted under this Agreement then, upon becoming aware of the same, without prejudice to any rights or remedies of the Disclosing Party, the Receiving Party shall as soon as practicable notify the Disclosing Party of such event and if requested take such steps [including the institution of legal proceedings] as shall be necessary to remedy [if capable of remedy] the default and/or to prevent further unauthorised copying, disclosure or use.
- 2.6 All Confidential Information shall remain the property of the Disclosing Party and its disclosure shall not confer on the Receiving Party any rights, including intellectual property rights over the Confidential Information whatsoever, beyond those contained in this Agreement.

3. RECORDS AND RETURN OF INFORMATION

- 3.1 The Receiving Party agrees to ensure proper and secure storage of all Information and any copies thereof.
- The Receiving Party shall keep a written record, to be supplied to the Disclosing Party upon request, of the Confidential Information provided and any copies made thereof and, so far as is reasonably practicable, of the location of such Confidential Information and any copies thereof.
- 3.3 The Company shall, within 7 [seven] days of receipt of a written demand from Transnet:
- 3.3.1 return all written Confidential Information [including all copies]; and
- 3.3.2 expunge or destroy any Confidential Information from any computer, word processor or other device whatsoever into which it was copied, read or programmed by the Company or on its behalf.
- 3.4 The Company shall on request supply a certificate signed by a director as to its full compliance with the requirements of clause 3.3.2 above.

4. ANNOUNCEMENTS

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

5. DURATION

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

6. PRINCIPAL

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

7. ADEQUACY OF DAMAGES

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

8. PRIVACY AND DATA PROTECTION

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

9. GENERAL

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

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ANNEXURE A:

New Personnel Qualifications 1.5 Experience	Nr Category	Total Weight	Weight	Requirements	Type of Proof for Evaluation / Detail to be submitted	Scoring Guide
Company Experience 1500						2 - Meets critical requirements 1 - Partially meets requirements
periodic completions where the bedder has produced transported until Equation at Months of Earth Complex (Michael and Months of Earth Complex) (International International Internationa	1 Company Experience	35,00		The hidden are at a sharit a stricture of There [2] since of sections as letters as since of		Scoring Guide
2.1 Key Personnel Qualifications 15 The bidder must have a minimum of Red Seal Millinght Qualification (NCF Level 5) or Equivalent and proof of valid registration with ECSA as a Registered Lifting Machinery Injury. 2.2 Key Personnel Experience 15 The bidder must have a minimum six (6) years of experience in the lifting machinery rationary of which two (2) years of experience in the lifting machinery rationary of which two (2) years minimum six (6) years of experience in the lifting machinery rationary of which two (2) years must be in inspection and bad bearing. 3. Methodoloy 20 The bidder must have a minimum six (6) years of experience in the lifting machinery rationary of which two (2) years must be in inspection and bad bearing. 3. Methodoloy 20 The bidder must have a minimum six (6) years of experience in the lifting machinery rationary of which two (2) years must be in inspection and bad bearing. 3. Methodoloy 20 The bidder must have a minimum six (6) years of experience in the lifting machinery rationary of which two (2) years must be in inspection and bad bearing. 3. The bidder must have a minimum six (6) years of experience in the lifting machinery rationary of which two (2) years must be in inspection and bad bearing. 3. The bidder must have a minimum six (6) years of experience in the lifting machinery rationary of which (2) years in inspection and bad bearing. 3. The bidder must have a minimum six (6) years of experience in the lifting machinery industry of which two (2) years so in inspection and bad bearing. 3. The bidder must have a minimum six (6) years experience in the lifting machinery industry of which (2) years in inspection and bad bearing. 3. The bidder must have a minimum six (6) years experience to be used. 3. The bidder must have a similar a comprehensive method stement contings the methodology attention to the lifting machinery industry of the lifting partners is the minimum six (2) years so in inspection and bad bearing with the work in the lifting machinery industry of	1,1 Company Experience		35	practical completion certificates, where the bidder has performed Lifting Equipment & Machinery Inspections and Load Testing. The reference letters or completion certificates must be on the client's company letterhead. i.e., As a minimum, the reference letters or practical completion certificate must include the following: (1) Project Title; (2) Project Description (Name, Duration & Value), and Scope of Work; (3) Valid Client's Contact details as reference for verification purposes (Client's name, e-	OR 2) Signed Practical Completion Certificates	1 = One [1] or Two [2] reference letters or practical completion certificates that meet the requirements have been submitted. 2 = Three [3] reference letters or practical completion certificates that meet the requirements have been submitted. 3 = Four [4] or more reference letters or practical completion certificates that meet the
The bidder must have a minimum of Red Seal Millight Qualification (NGF Level 5) or Equivalent and poor of valid registration with ECSA as a Registrated Lifting Pachimery Linguistics. Copies of Qualifications and ECSA registration certificate. Copies of Qualification certificate. Copies of Qualifications and ECSA registration certificate. Copies of Qualification certificate. Copies of Qualification read ECSA MT Registration has been subminimal. Copies of Qualification for and ECSA MT Registration has been subminimal. Copies of Qualification for and ECSA MT Registration has been subminimal. Copies of Qualification for and ECSA MT Registration has been subminimal. Copies of Qualification for and ECSA MT Registration has been subminimal. Copies of Qualification for and ECSA MT Registration has been subminimal. Copies of Qualification for and ECSA MT Registration has been subminimal. Copies of Qualification for and ECSA MT Registration has been subminimal. Copies in inspect on of look testing. 2 — The bidder has he (5) years experience in the li	2 Key Personnel Qualifications & Experience	30				Scoring Guide
Legislation of the substitute method statement in the lifting machinery industry of which to (2) years must be in inspection and load testing. The bidder must have a minimum six (6) years of experience in the lifting machinery industry of which to (2) years is in inspection and load testing. The bidder must have a minimum six (6) years of experience in the lifting machinery industry of which to (2) years is in inspection and load testing. The bidder must have a minimum six (6) years of experience in the lifting machinery industry of which to (2) years is in inspection and load testing. The bidder must have a minimum six (6) years of experience in the lifting machinery industry of which to (2) years is in inspection and load testing. The bidder must have a minimum six (6) years of experience in the lifting machinery industry of which to (2) years is in inspection and load testing. The bidder must have a minimum six (6) years of experience in the lifting machinery industry of which to (2) years is in inspection and load testing. The bidder must have a minimum six (6) years of experience in the lifting machinery industry of which to (2) years is in inspection and load testing. The bidder must haven a minimum six (6) years of experience in the lifting machinery industry of which to (2) years is in inspection and load testing. The bidder must haven a minimum six (6) years of experience in the lifting machinery industry of which to (2) years is in inspection and load testing. The bidder must haven a minimum six (6) years of experience in the lifting machinery industry of which to (2) years is in inspection and load testing. The bidder must haven a minimum six (6) years of experience in the lifting machinery industry of which to (2) years is in inspection and load testing. The bidder must haven a minimum six (6) years of experience in the lifting machinery industry within the lifting machinery	2.1 Key Personnel Qualifications		15	Equivalent and proof of valid registration with ECSA as a Registered Lifting Machinery	Copies of Qualifications and ECSA registration certificate.	1 = Copies of Qualifications National Higher Certificate Mechanical Engineering (NQF Level 4) or Equivalent, and valid ECSA LMI Registration has been submmited. 2 = Copies of Qualifications Red Seal Millright Qualification (NQF Level 5) or Equivalent and valid ECSA LMI Registration has been submmited. 3 = Copies of Qualifications National Diploma Mechanical Engineering (NQF Level 6) or Equivalent, and valid ECSA LMI Registration has been submmited.
The bidder must have a minimum six (6) years of experience in the lifting machinery industry, of which two (2) years must be in inspection and load testing. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include references and their contact details. Curriculum Vitae (CV). CVs to include referrences and their contact details. Curriculum Vitae (CV). CVs to include r						0 = No response OR submitted CV's does not meet the requirements.
Methodoloy 20 The bidder must submit a comprehensive method statement outlining the methodology to advise the required deliverables in terms of the Scope of Work (SOW). The method statement that meets the requirements of advises the required deliverables in terms of the Scope of Work (SOW). The method statement that meets the requirements. 20 (1) List and certification of all the load testing equipment to be used. (2) Approach paper method, reflecting activities to be conducted for the Lifting Equipment & Machinery Inspections and Load Testing, Loading into proper consideration Health, safety, and Environmental requirements at TNPA. (3) Time schedule for the Lifting Equipment & Machinery Inspections and Load Testing. Soll requirements are full understanding of the TNPA Port of East London's SoW requirements by presenting a detailed safety, health, and environmental management plan specific to the project and; 1. Must detail not be safety, measures are put in place for personnel working on site? 2. What Health and Safety measures are put in place for personnel working on site? 3. Project Risk Assessment based on the method statement 4. Valid Letter of Good Standing with the Workmen's compensation fund The tenderer must submit a SHE Management plan 1 = 1 requirement have been met 4. Valid Letter of Good Standing with the Workmen's compensation fund The tenderer must submit a SHE Management plan 1 = 1 requirement have been met 4. Valid Letter of Good Standing with the Workmen's compensation fund The tenderer must submit a SHE Management plan 1 = 1 requirement have been met 4. Valid Letter of Good Standing with the Workmen's compensation fund The tenderer must submit a SHE Management plan 2 = 2 to 3 requirements have been met 4. Valid Letter of Good Standing with the Workmen's compensation fund The tenderer must submit a SHE Management plan 2 = 2 to 3 requirements have been met 4. Valid Letter of Good Standing with the Workmen's compensation fund The tenderer must submit a SHE Management plan 2 =	2.2 Key Personnel Experience		15			2 = The bidder has six (6) years experience in the lifting machinery industry of which two (2) years is in inspection and load testing 3 = The bidder has seven (7) years or more experience in the lifting machinery industry of
The bidder must submit a comprehensive method statement outlining the methodology be achieve the required deliverables in terms of the Scope of Work (SoW). The method statement must include the following critical elements, as a minimum; (1) Ust and certification of all the load testing equipment to be used. (2) Approach paper method, reflecting activities to be conducted for the Lifting Equipment & Machinery Inspections and Load Testing. (3) Time schedule for the Lifting Equipment & Machinery Inspections and Load Testing. (3) Time schedule for the Lifting Equipment & Machinery Inspections and Load Testing. (3) Time schedule for the Lifting Equipment & Machinery Inspections and Load Testing. 4. Health, Environment and Safety managemet plan 4. Health, Environment and Safety managemet plan 5. The bidder must demonstrate a full understanding of the TNPA Port of East London's SoW requirements by presenting a detailed safety, health, and environmental management plan should be a complete and lacks detail. Less than Two (2) ortical items are addressed. 5. The bidder must demonstrate a full understanding of the TNPA Port of East London's SoW requirements by presenting a detailed safety, health, and environmental management plan should be a complete and lacks detail. Less than Two (2) ortical items are addressed. 5. The bidder indicates a comprehensive understanding of the SoW, and the submittee method statement that meets the requirements. 5. The bidder must demonstrate a full understanding of the TNPA Port of East London's SoW requirements by presenting a detailed safety, health, and environmental management plan or the submitted method statement that meets the requirements. 5. The tenderer must submit a SHE Management plan or the leader must submit a SHE Management plan or the leader must submit a SHE Management plan or the leader must submit a SHE Management plan or the leader must submit a SHE Management plan or the leader must submit a SHE Management plan or the leader must submit a SHE Management plan or	3 Methodolov	20				
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4.1 Health, Enviroment and Safety managemet plan 4.1 Health, Enviroment and Safety managemet plan 5 SoW requirements by presenting a detailed safety, health, and environmental management plan specific to the project and; 1. Must detail how the safety, health, and environmental (SHE) requirements will be met 2. Enviromental Management plan 3. Project Risk Assessment 4. Valid Letter/s of Good Standing with the Workmen's compensation fund Total Weighting 100,00	4 Health, Environment and Safety managemet	15				Scoring Guide
Total Weighting 100,00	4.1 Health, Environment and Safety managemet plan		15	SoW requirements by presenting a detailed safety, health, and environmental management plan specific to the project and; 1. Must detail how the safety, health, and environmental (SHE) requirements will be met 2. What Health and Safety measures are put in place for personnel working on site? 3. Project Risk Assessment based on the method statement	Health and Safety Management plan Enviromental Management plan Project Specific Risk assesment Valid Letter of Good Standing with the Workmen's compensation	1 = 1 requirement has been met 2 = 2 to 3 requirements have been met
	Total Weighting	100.00				
	i i otai welunting	100,00				

Code of practice for the safe operation of machinery, plant and equipment and instructions regarding the examination, testing and logging procedures for machinery, plant and equipment.

Compiled by:

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Code)

GRM Standard - E 8

Date	Approved by	Modification
2002	S. Macozoma	Initial Issue

Issue 96/1 (Am 0)

CODE OF PRACTICE No.29



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PREFACE TO THIS NEW ISSUE

Transnet regards the proper use of its plant and equipment and the maintenance thereof in a proper and sound manner, as extremely important.

General Machinery Regulation 4 of the Occupational Health and Safety Act, 1993 (Act 85 of 1993) requires that an employer (Transnet) shall ensure that every person authorised to operate machinery is fully aware of the dangers attached thereto, and is conversant with the precautionary measures to be taken or observed to obviate such dangers.

This Code of Practice was compiled to assist and advise the line managers / supervisors and employees on the safe and proper use and maintenance of the relevant machinery, plant and equipment (mainly in use for lifting purposes), based on the principles of best engineering practices.

Your commitment is essential and all well conceived actions to achieve these objectives have my full approval.

MANAGING DIRECTOR TRANSNET LIMITED



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AMENDMENT INFORMATION

DATE	SCOPE	ISSUE(Am)	BRIEF DESCRIPTION OF AMENDMENT
1997-01-05	Complete Code of Practice	1(0)	Initial release of Issue 96/1 of Code of Practice No. 29

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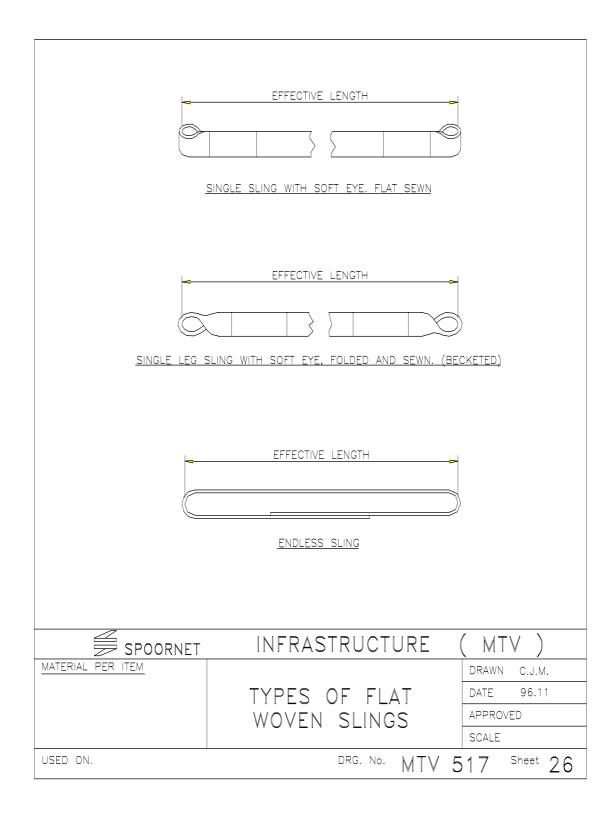
CODE OF PRACTICE No.29



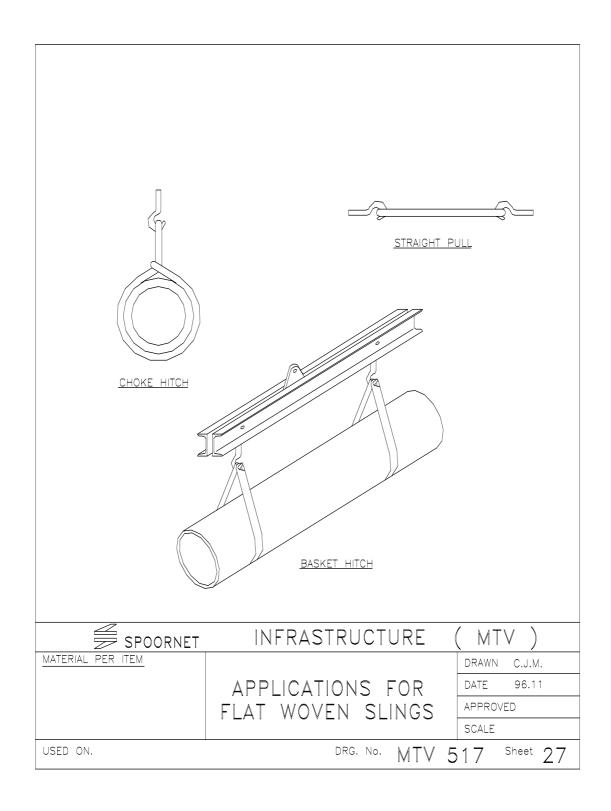
AMENDMENT INFORMATION (Cont....)

DATE SCOPE ISSUE(Am) BRIEF DESCRIPTION OF AMENDMENT

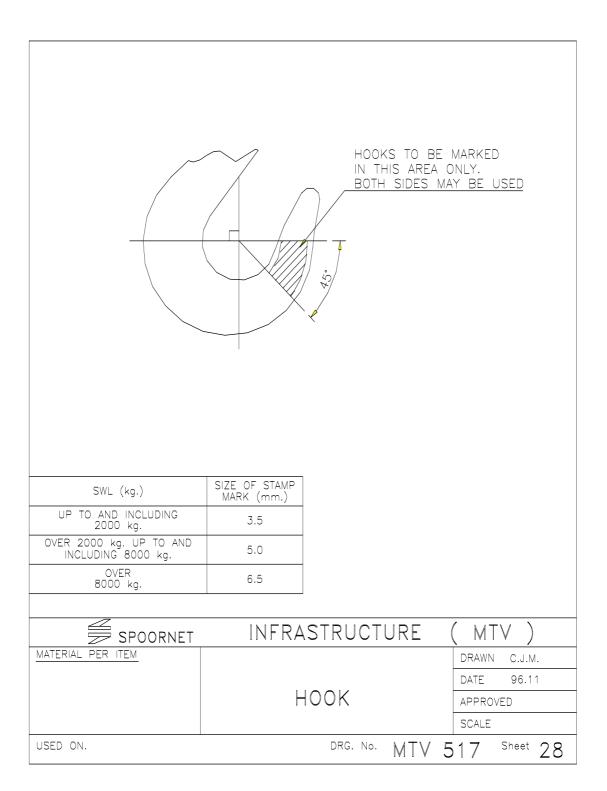




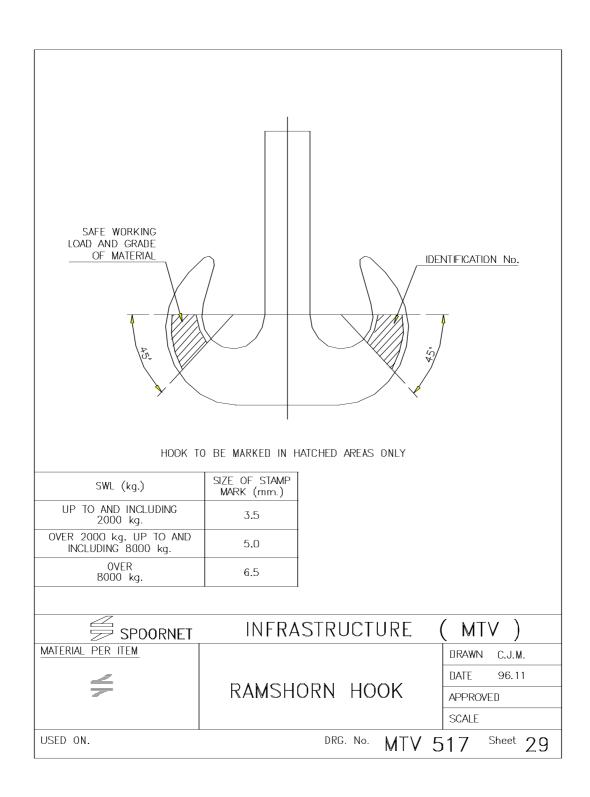




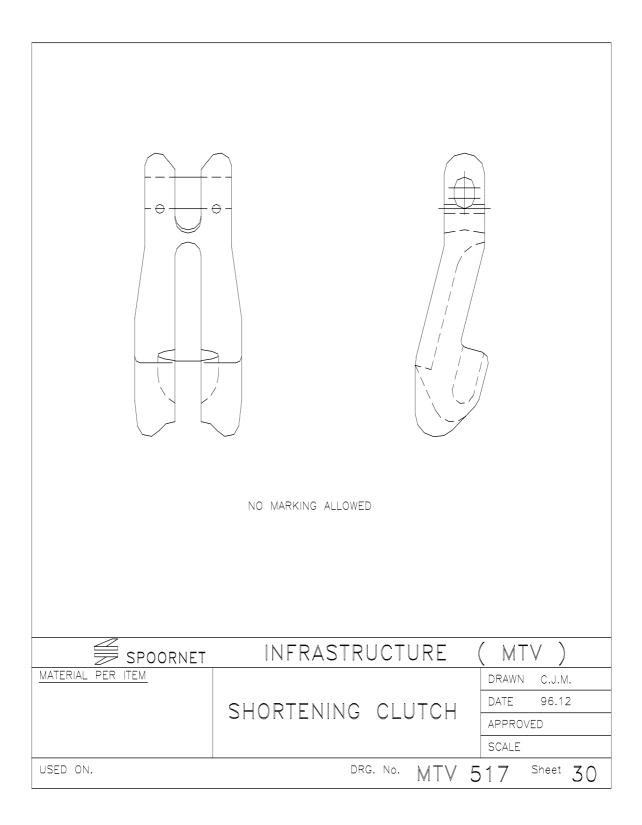








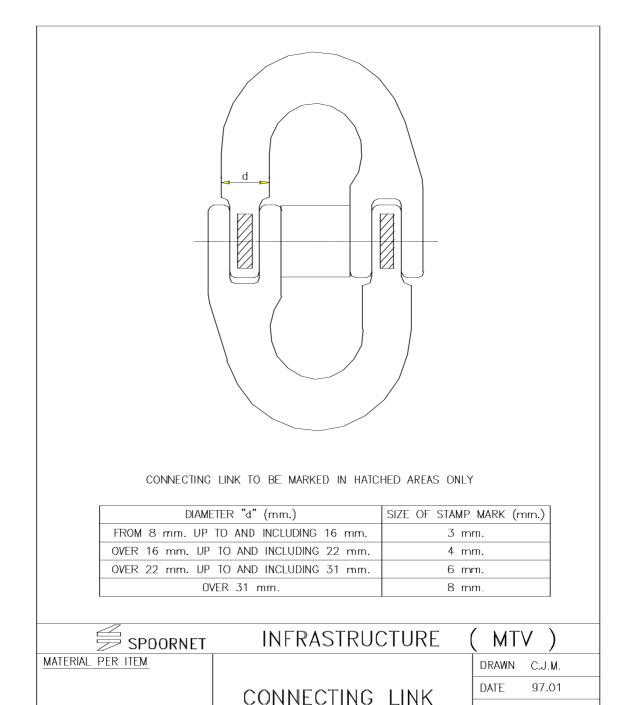




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CODE OF PRACTICE No.29





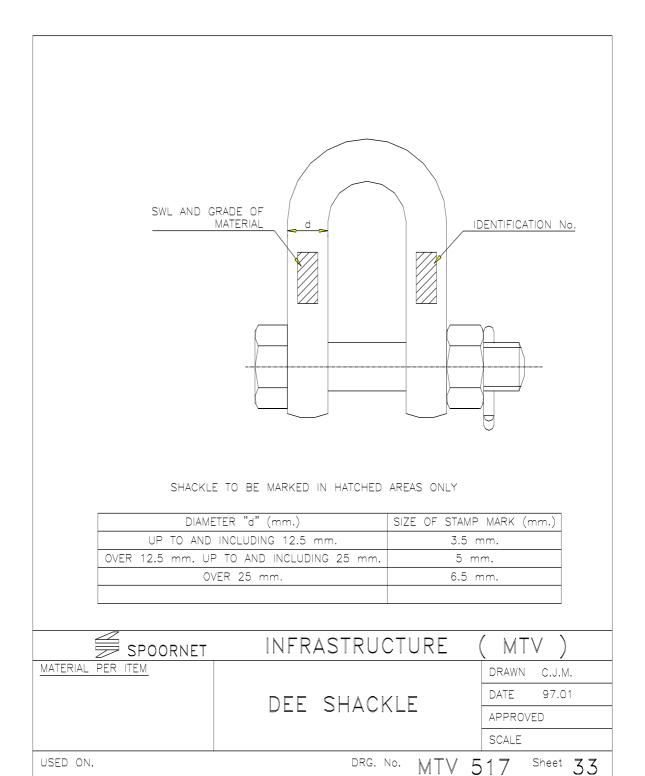
DRG. No.

APPROVED SCALE

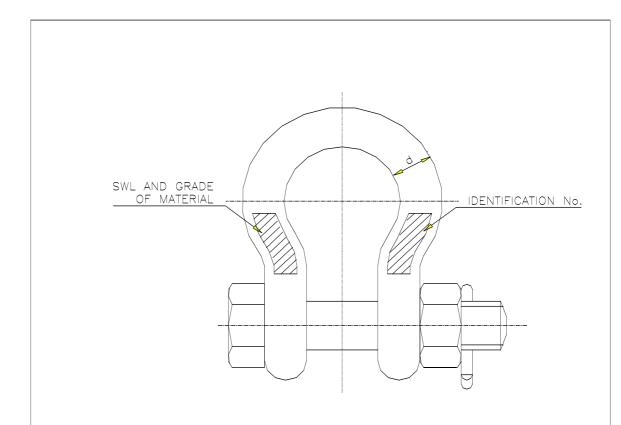
MTV 517

Sheet 32







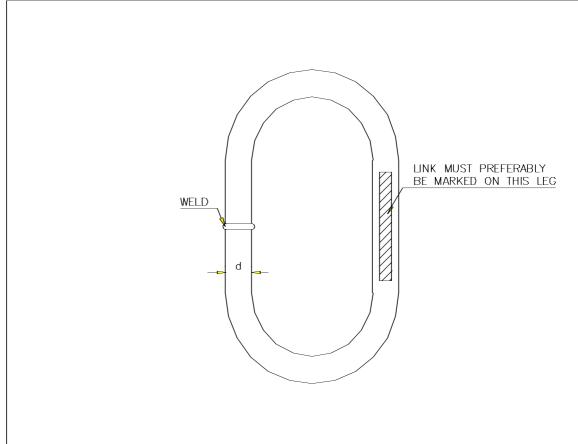


SHACKLE	TO	ΒE	MARKED	IN	HATCHED	AREAS	ONLY
---------	----	----	--------	----	---------	-------	------

DIAMETER "d" (mm.)	SIZE OF STAMP MARK (mm.)	
UP TO AND INCLUDING 12.5 mm.	3.5 mm.	
OVER 12.5 mm. UP TO AND INCLUDING 25 mm.	5 mm.	
OVER 25 mm.	6.5 mm.	

₩ SPOORNET	INFRASTRUCTURE	(MTV)
MATERIAL PER ITEM		DRAWN C.J.M.
	BOW SHACKLE	DATE 97.01
	DOW SHACKLE	APPROVED
		SCALE
USED ON.	DRG. No. MTV 5	517 Sheet 34



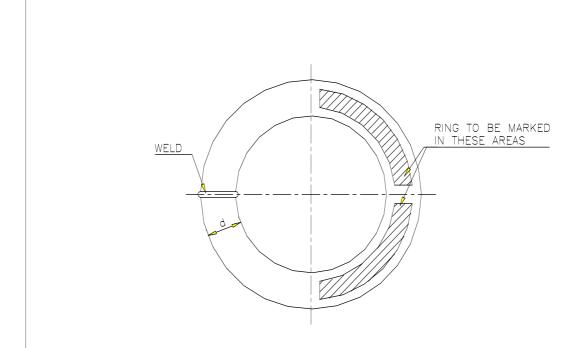


STAMPING MARKS ON OR NEAR WELDING JOINT SHOULD BE AVOIDED

DIAMETER "d" (mm.)	SIZE OF STAMP MARK (mm.)	
UP TO AND INCLUDING 12.5 mm.	3.5 mm.	
OVER 12.5 mm. UP TO AND INCLUDING 25 mm.	5 mm.	
OVER 25 mm.	6.5 mm.	

₩ SPOORNET	INFRASTRUCTURE	(MTV)
MATERIAL PER ITEM		DRAWN C.J.M.
	OVAL LINK	DATE 97.01
	OVAL LINK	APPROVED
		SCALE
USED ON.	DRG. No. MTV 5	517 Sheet 35



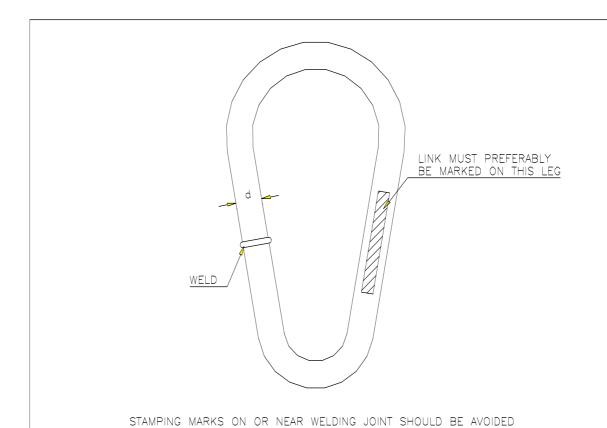


STAMP MARKING OF THE RING SHALL NOT BE ON OR NEAR THE WELD

DIAMETER "d" (mm.)	SIZE OF STAMP MARK (mm.)	
UP TO AND INCLUDING 12.5 mm.	3.5 mm.	
OVER 12.5 mm. UP TO AND INCLUDING 25 mm.	5 mm.	
OVER 25 mm.	6.5 mm.	

SPOORNET	INFRASTRUCTURE	(MTV)
MATERIAL PER ITEM		DRAWN C.J.M.
	RING	DATE 97.01
	KING	APPROVED
		SCALE
USED ON.	DRG. No. MTV	517 Sheet 36

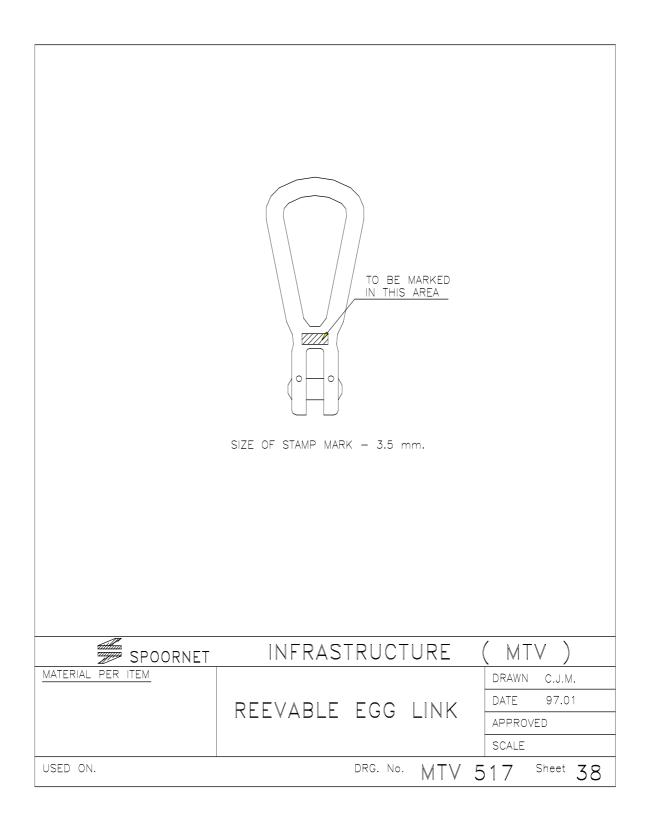




DIAMETER "d" (mm.)	SIZE OF STAMP MARK (mm.)
UP TO AND INCLUDING 12.5 mm.	3.5 mm.
OVER 12.5 mm. UP TO AND INCLUDING 25 mm.	5 mm.
OVER 25 mm.	6.5 mm.

SPOORNET	INFRASTRUCTURE ((MTV)
MATERIAL PER ITEM		DRAWN C.J.M.
	EGG LINK	DATE 97.01
	LGG LINK	APPROVED
		SCALE
USED ON.	DRG. No. MTV 5	17 Sheet 37

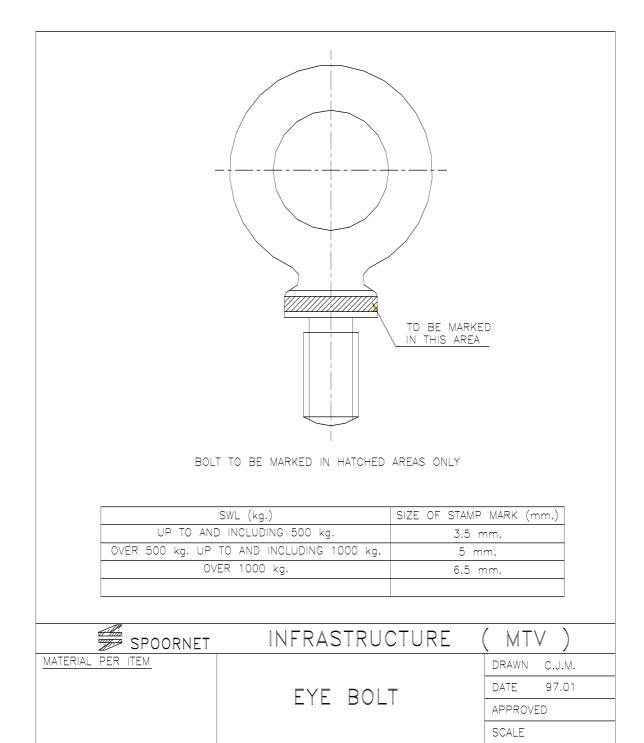




USED ON.

CODE OF PRACTICE No.29



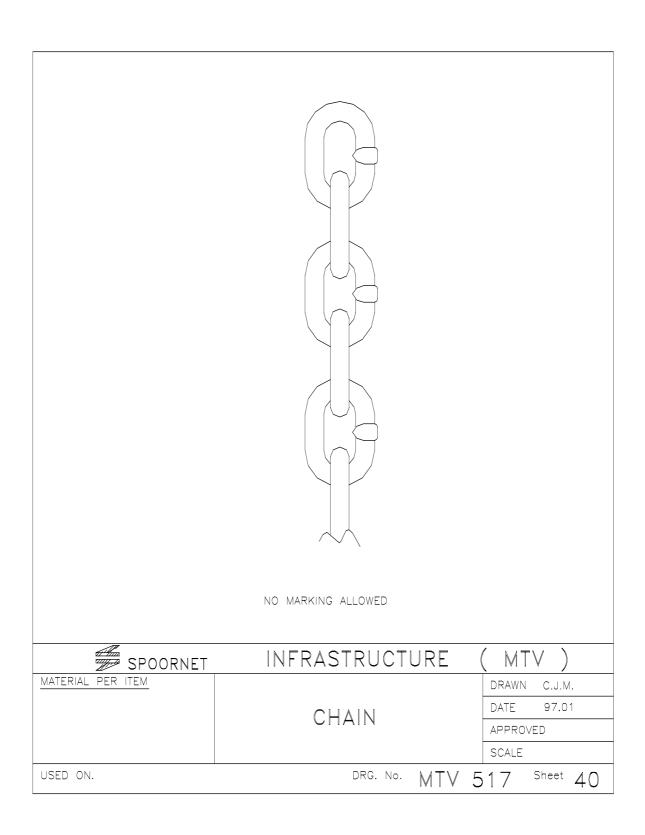


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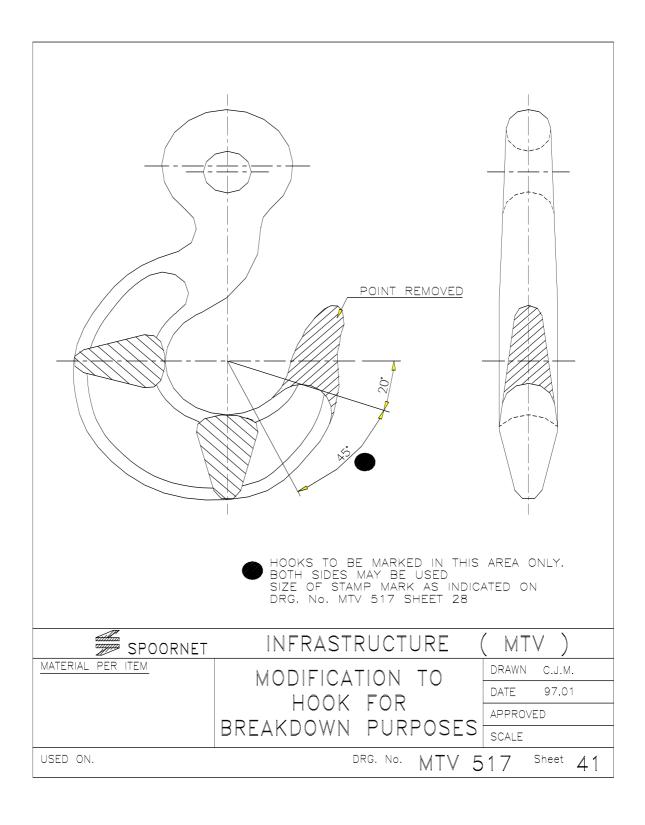
MTV 517

Sheet 39

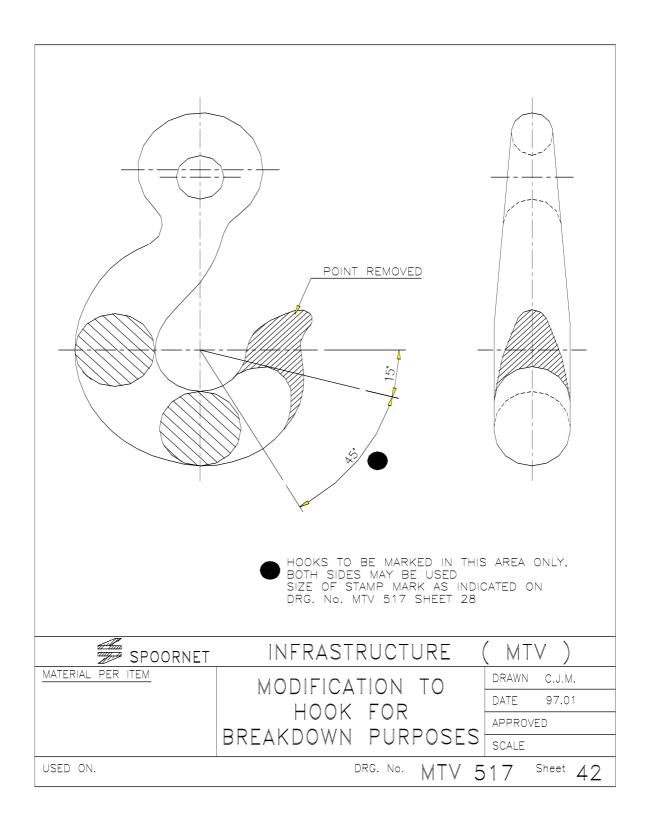












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FORM	/I A-1	AMENDMENT PROPOSAL	Register no:
1.	Document	t to be changed:	
1.1	Number, F	Page, Subject, Section, Title, etc. (in any or	der)
2.	Proposal:		
			·

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	-			 	
3.	Proposed by	y:			
4.	Date:	/	/		
_	Ciara atrona				
5.	Signature:				
6.	Date acted	/	/		
7.	Signature:			 	



<u>F(</u>	ORM A-2	<u>E</u> (QUIPMENT CENSUS FORM	Register no:	
1.	Asset no.				
2.	Brief description	on			
_					_
3.	Category e.g.	Overhead I	Electric crane, sling etc.		
4.	Manufacturer				
5.	Serial No.				
6.	Year of manuf	acture			
7.	Capacity				
8.	Centre				
9.	Owner				

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10.Maintenance dep	t. address		
11.Date of last logsh	neet entry		
12.Date of last perfo	rmance test		
13.Other relevant inf	ormation		
14.Rough sketch of	equipment		
Signature	Name	Pension No.	Telephone No.

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FORM A-3			DEFECT REPO	ORT Re	Register no:		
TO:	General Manager		1	FROM			
	Spoornet						
	Engineering						
	JOHANNESBURG		,				
				A FEE			
			1	DATE			
REPOI	RT ON DEFECT OC	CURING ON NEW PL	ANT/MOTOR VEHICLES	OR UNSATISFACTORY	DEALER SERVICE		
(INCL	UDING SUPPLY OF	SPARE PARTS)					
VEHIC	N F						
VEHIC OR M			SERIAL NO ENGINE	CH/	ASSIS		
	E				10010		
	RACT ORDER NO.				R KILOMETRES DISTANCE TO		
	RECEIVED		DATE REPORTED	DATE WITHDRWN	DTE RETURNED TO SERIC		
			TO LOCAL AGENT	FROM SERVICE			
Y Y M	MDD	Y Y M M D D	<u>Y Y M M D D</u>	YYMMDD	Y Y M M D D		
DEDO	T OR LOCATION						
	T OR LOCATION	NIII	MBER OF DAY OUT OF SE	RVICE			
			E				
LOCA	L AGENTS NAME _						
HAS E	DEFECTIVE PART B	EEN REPLACED OR	MODIFIED IN ANY WAY				
IF REF	PAIRED DEPARTME	ENTALLY STATE : W	ORKS ORDER NO				
LABO	UR R		MATERIAL R	INDI	RECTS R		
WHER	RE CAN DEFECTIVE	PARTS BE INSPECT	TED				
SUPER	RVISOR'S SUGGEST	IONS					
WODE	KSHOP			TECHNI	ICAL SUPERVISOR		
		=======================================					
Comm	ents						
		GENERA	 AL MANAGER (ENGINEEF	RING)			

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FORM A-4 TRANSNET LOGSHEET No. 9

Certificate and	logsheet for machinery, plant and equipment				TRA	NSI	NET	
Depot	Place	Description		SWL Lo	ogsheet No.	9/		
		Initial	led by				Initialled by	
Date of Examination	Examiners remarks on condition	Examiner	User	Work performed or reasons why work held in abeyance	Date	Work done by	Supervisor	User
					Expiry date			

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FORM A-5 TRANSNET LOGSHEET No. 10

Certificate and	logsheet for wire and fibre ropes a	and slings		-			T	RANS	SNI
Depot		Place			C	Certificate no. and dat	Logshed	et No. 10/	
Manufacturers	name								
Type (Material)	Rope symbol number	Size of sling (diameter)) Length of s	sling	SWL in Kilograms	No. of legs	Number of sling a	and suffixes of comp	onents
			Initia	illed by				Initialled	by
Date of Examination	Examiners Remarks	on condition	Examiner	User	Date of Examination	Examiners	remarks on condition	Examiner	User

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FORM A-6 TRANSNET LOGSHEET No. 66

TRANSNET Certificate and logsheet for crane hoist chains, chain slings, hooks, rings, links, shackles, Logsheet No. 66/ Depot Place Description of unit Safe working load in kg Total number of components Number of unit Description of components Quantity Suffixes of components Safe Working Load (kg) Material Chains - Length x diameter Other components - Drawing number or specification FOR USE OF SUPERVISOR'S EXAMINER FOR USE OF DEPARTMENT CONDUCTING TEST Date of Condition of unit and nature of repairs Date Safe working Test load Examined by Examiner User User load(kg) examination Expiry date

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CODE OF PRACTICE No.29



FORM A-7

DAILY TASK FOR LIFTING EQUIPMENT (Logsheet No. 385)

Mechanical lifting and handling appliances			Ł	TRANSNET
			Logshe	net No. 385/
				Date
Machine No.				Shift commenced
Type of machine Drivers surname and initials				
I have checked or tested the following:	Yes	No	N/A	Comments
All lights	res	NO	IN/A	Comments
All lights All limit switches			-	
All warning devices			-	
Communication system			-	
Fire extinguishers				
All brakes / Emergency brakes			-	
All wires / chains			<u> </u>	
Hook assembly				
Spreader				
Grab				
All conveyor belts			†	
Electrical equipment			t	
Escape rope				
Machine in general				
Daily task				
Lubrication				
Hour / km reading				
Other				
Drivers signature				
Defects during shift	Defects	repaired	t	
Artisan's signature				Date
The machine was / was not in a good condition at the end of my	shift			Time
Drivers signature				Date
Asst. crane foreman/ supervisor's signature				Date
Visitor's signature, grade, purpose of visit				
Crane foreman/ supervisor's signature				Date



FORM A-8 <u>INDIVIDUAL EXEMPTION AUTHORISATION</u>

1	Equi	pment Details:	
	1.1	Census register No.	
	1.2	Asset No.	
	1.3	Description	
	1.4	Centre	
2	<u>Detai</u>	ils of operations ager:	
	2.1	Business unit	
	2.2	Controlling officer	
	2.3	Maintenance supervisor	
3	Detai	ils of exemption	
	reque		
	3.1	Date required	
	3.2	Nature of exemption _	
4	<u>Detai</u>	ils of exemption ority	
	4.1	Granted by:	

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4.2	Concurred by:	
4.3	Pr Eng. No:	
Signatures		
	Manager	Professional Engineer
	Manager	Professional Engineer
	Manager	Professional Engineer



FORM A-9 REQUEST FOR INDIVIDUAL EXEMPTION AUTHORISATION

1	<u>Equi</u>	pment Details:	
	1.1	Census register No.	
	1.2	Asset No.	
	1.3	Description	
	1.4	Place	
2	<u>Detai</u> mana	ils of operations ager:	
	2.1	Business unit	
	2.2	Controlling officer	
	2.3	Maintenance	
		supervisor	
3		ils of exemption	
	reque	<u>est</u>	
	3.1	Date required	
	3.2	Nature of exemption	
	3.3	Reasons exemption is required	
_			
4	<u>Poss</u>	ible alternatives	
	4.1	Other equipment at depot.	

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4.2 Other handling alternatives	
Siamat	
Signatures Operations Manager	Maintenance Supervisor



FORM A-10 STOP CERTIFICATE

1	<u>Equi</u>	pment Details:	
	1.1	Census register No.	
	1.2	Asset No.	
	1.3	Description	
	1.4	Place	
2		ils of operations ager:	(6)
	2.1	Business unit	
	2.2	Operations Manager	
	2.3	Maintenance supervisor	
3	Reas	sons for issuing of stop	certificate
		*	

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Signatures								
Operations Manager	Issuing officer							



FORM A-11 INCIDENT AND ANALYSIS REPORT

INCIDENT AND ANALYSIS REPORT	UNIQUE INCIDENT NUMBER:								
X1 HEAD Y Y M M CONSECUTIVE CENTRE OR LOCALITY COLD DEFINITION: AN UNDESIRED EVENT WHICH COULD OR DOES RESULT IN A LOSS TO PROPERTY, HARM TO PEOPLE OR LOSS TO PROCESS									
DETAILS OF PERSON INVOLVED OR INJURED									
1 TRANSPORT BUSINESS	15 INITIAL AND SURNAME								
2 RELATED / OTHER BUSINESS	16 EMPLOYEE No.	and ID No.							
3 CENTRE	17 GENDER OF PERSON MALE FEMA	ALE							
4 SECTION	18 DATE OF BIRTH V V V M M D D								
5 SUBSECTION	19 EXPERIENCE IN MONTHS IN CURRENT POSITION								
6 DATE OF INCIDENT Y Y Y M M D D	20 GRADE								
7 TIME OF INCIDENT :	21 NATURE OF INJURY (if any)								
8 TIME REPORTED :	22 PART OF BODY AFFECTED								
9 LOCATION OF INCIDENT	23 NAME OF SUPERVISOR								
10 WITNESS OF INCIDENT	24 LOSS SEVERITY POTENTIAL OF INCIDENT	HIGH	MEDIUM	LOW					
11 MAIN INCIDENT CLASSIFICATION	25 PROBABLE RECURRENCE OF INCIDENT	HIGH	MEDIUM	LOW					
12 DESCRIPTION OF INCIDENT	26 NUMBER OF DAYS LOST	ESTIMATED	ACTUAL						
	27 LEGALLY REPORTABLE (Act 85 of 1993)	YES	NO	POSSIBLE					
	28 WORKMENS COMPENSATION CLAIM	YES	NO						
	29 INSURANCE CLAIM (property)	YES	NO						
	30 INSURANCE CLAIM (motor)	YES	NO						
	31 INSURANCE CLAIM (3rd party)	YES	NO	POSSIBLE					
	32 INSURANCE CLAIM (freight)	YES	NO	POSSIBLE					
13 CODE OF INCIDENT DESCRIPTION (WHERE APPLICABLE)	33 MAJOR LOSS ANNOUNCEMENT	YES	NO						
14 COMMODITY CODE (WHERE APPLICABLE)	COMPLETED BY (print)		TEL No.	DATE					
14.1 PACKING CODE (WHERE APPLICABLE)	DETAILED SCAT ANALISYS DONE YES	NO BY	(NAME)	TARGET DATE					
	DESIGNATED CONTROLLING OFFICER								
14 COMMODITY CODE (WHERE APPLICABLE)	29 INSURANCE CLAIM (property) 30 INSURANCE CLAIM (motor) 31 INSURANCE CLAIM (3rd party) 32 INSURANCE CLAIM (freight) 33 MAJOR LOSS ANNOUNCEMENT COMPLETED BY (print) DETAILED SCAT ANALISYS DONE YES	YES YES YES YES YES	NO NO NO NO TEL No.	POSSIBLE					

CODE OF PRACTICE No.29



FORM A-12 REGISTRATION CERTIFICATE FOR EXAMINERS

Number



Code 29

Registration Certificate

For

Examiners

of Machinery, Plant and Equipment

Name		
Trade Qualification		

The examiner has the responsibility to report all defects that he/she may find during the examination/testing of any particular piece of machinery, plant and equipment and note it in the relevant logsheet.

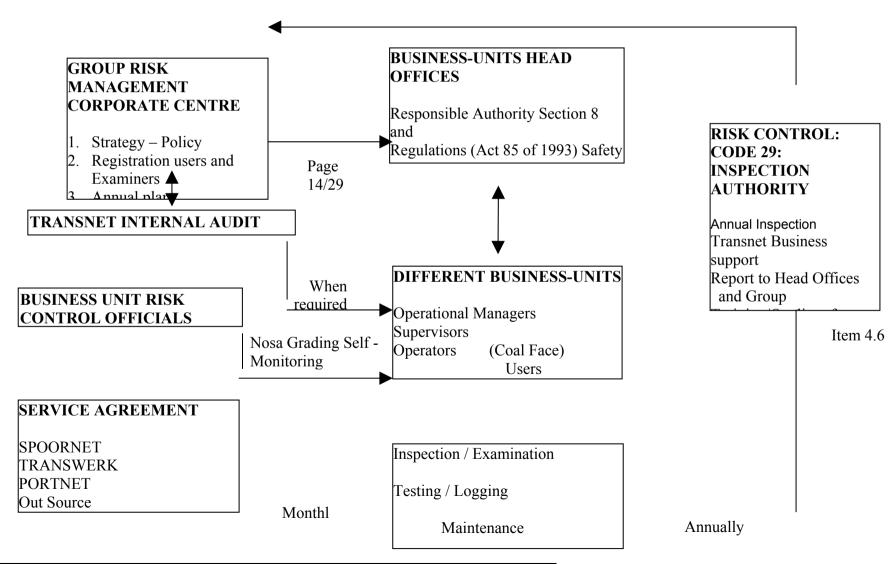
Group Risk Manager Transnet

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FORM A-13 MANAGEMENT SYSTEM

RESPONSIBILITY CHART



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Important = Arrangements for Regular Examinations/ Testing/ Logging/ maintenance

- Database of Lifting Equipment Form A 2
 Reporting / Logging of Incidents. Transnet's RB 1 A (Blue Book)

FORM A-14 ACKNOWLEDGEMENT OF RECEIPT

Acknowledge Receipt of Code 29 and commitment

To adhere there-to

Name	Emp.No.	Centre	Tel. No.	Fax No.

Code 29 number received:
Signature:
Date:

2007-04-23 S. Macozoma Initial Issu		Approved by	Modification	
		S. Macozoma	Initial Issue	

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CODE OF PRACTICE No.29 PART 2 : ADMINISTRATIVE INSTRUCTIONS



CODE OF PRACTICE NO. 29

Part 1: Policy

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CODE OF PRACTICE No.29 PART 2 : ADMINISTRATIVE INSTRUCTIONS



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Part 1: Policy

1 PURPOSE

1.1 The purpose of this policy manual is to lay down the basis for safe operation of machinery as well as the philosophy for the examination, testing and logging related to machinery, plant and equipment and thereby reducing the liability exposure of Transnet.

2 INTRODUCTION

- 2.1 Transnet requires that all fixed assets of which the Company is the owner or user be kept in a good and safe condition, reducing Transnet's risk related to the above mentioned assets as well as optimising its life expectancy. It is therefore necessary that all machinery, plant and equipment periodically be examined to ensure the safe and proper use and maintenance thereof.
- 2.2 Examinations must be well-ordered as it is necessary that these periodic examinations be recorded to ensure that all machinery, plant and equipment is covered, and reports be submitted to the Supervisor for remedial action.
- 2.3 Care has been taken to ensure that the documentation required by this Code of Practice leaves a proper audit trail for later reference.
- 2.4 It was endeavoured to compile this code as detailed and yet as generic as possible, so that it can be used by all business divisions/units of Transnet.

3 POLICY

- 3.1 No piece of machinery, plant or equipment, covered by this Code of Practice, may be used unless it complies with the certification requirements of this Code of Practice and the user of the machinery, plant or equipment is in possession of a valid certificate in terms of this Code of Practice.
- 3.2 This code shall be supplementary to the Occupational Health and Safety Act (Act 85 of 1993) and without prejudice to the above mentioned act, provide more specific guidelines to promote safety in circumstances applicable to Transnet.
- 3.3 All machinery plant or equipment owned and/or operated by Transnet must at all times be kept in a serviceable and safe state. This means that regular maintenance and inspections must be done according to

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CODE OF PRACTICE No.29 PART 2 : ADMINISTRATIVE INSTRUCTIONS



the instructions of this Code of Practice.

- 3.4 In the case of machinery, plant or equipment not being used or in the case where it is desirable that equipment not be maintained or inspected and tested, such machinery, plant or equipment must be mothballed or scrapped and may not be used until the appropriate instructions of this Code of Practice have been complied with.
- 3.5 In the case of maintenance done by a private contractor to machinery, plant or equipment owned and/or operated by Transnet, the regular inspections must either be done by an examiner employed by Transnet or by an Independent Inspection Authority acceptable to the General Manager Engineering as well as the Department of Labour.
- 3.6 Regular inspections of the condition of and audits of the associated documentation of machinery, plant or equipment owned and/or operated by Transnet, will be done.
- 3.7 Proper records of all incidents, modifications, maintenance and inspections will be kept of all machinery, plant or equipment owned and/or operated by Transnet.
- 3.8 A central database will be established and maintained by the General Manager Engineering, Spoornet, of all machinery, plant or equipment owned and/or operated by Transnet.
- 3.9 All examiners and inspectors appointed in terms of this Code of Practice will be independent of the operating as well as maintenance legs of any particular business unit of Transnet. Should this prove to be impossible, impracticable or uneconomic examiners may be placed within the maintenance legs of a business unit but must have a separate reporting line for the inspection function. Further the examiner may not be responsible for examining any equipment where he/she was directly involved with maintenance.
- 3.10 The user will ensure through the necessary controls and appropriate management techniques that all machinery, plant or equipment owned and/or operated by Transnet and under his control are operated safely and responsibly.
- 3.11 When this Code of Practice, or parts thereof, is accepted and implemented by the different business divisions/units, the responsibility rests on the relevant business divisions/units to supply the Code of Practice or parts thereof to employees and to ensure that the Code of Practice or parts thereof are understood, applied and adhered to.
- 3.12 Exemptions from the requirements of any instruction will not necessarily need to be granted only by the General Manager Engineering,

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Spoornet, but copies of the exemption authorisations and details of the particular situations, obtained from a **Professional Engineer**, acceptable to the General Manager Engineering, Spoornet, (See Definition 2.13 and the associated note in The Administrative Instructions - Page 2-4), must be sent to both the General Manager Engineering, Spoornet and the Group Risk Manager, Transnet.

- 3.13 All exceptional repairs (including welding) or modifications must be authorised by a Professional Engineer. In the case of **OEM** approved repairs or modifications the authorisation must be supplied by a **Professional Engineer** employed or contracted by the **OEM**.
- 3.14 The **General Manager Engineering, Spoornet** is responsible for the **maintenance** of this Code of Practice and **The Group Risk Manager** is responsible for the **administration** of this Code of Practice in terms of it's implementation in Transnet.
- 3.15 All proposed updates or improvements must be sent to the Group Risk Manager Transnet, who shall refer the matter to the General Manager Engineering, Spoornet. An individual exemption authorisation (Form A8) or an amendment to the Code of Practice will then be issued, if deemed necessary. It must be noted that the particular Business Unit may not work according to their proposed update or improvement until they are in possession of the above mentioned individual exemption authorisation or an amendment to the Code of Practice giving them the permission to do so.

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CODE OF PRACTICE No.29 PART 2 : ADMINISTRATIVE INSTRUCTIONS



CODE OF PRACTICE NO. 29

Part 2: Administrative Instructions

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CODE OF PRACTICE No.29 PART 2 : ADMINISTRATIVE INSTRUCTIONS



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Part 2: Administrative Instructions

1. PURPOSE

- 1.1 The purpose of the Administrative Instructions is to confirm and regulate all administrative matters regarding the periodical as well as extraordinary (after commissioning repairs, modification, overloads etc.) inspection and testing of equipment within Transnet.
- 1.2 It also serves to ensure uniformity of action regarding lifting equipment throughout Transnet.
- 1.3 Finally it serves as a supplement to the Occupational Health and Safety Act, Act 85 of 1993 as well as highlighting and simplifying of pertinent sections and regulations of the OHS Act.
- 1.4 An additional purpose is to bring this Code of Practice in line with SABS ISO 9000 guidelines.

2. <u>DEFINITIONS/ DESCRIPTIONS (GRAPHICAL AND WRITTEN)</u>

2.1 USER (Act 85 of 1993)

- "*User*", in relation to plant or machinery, means the person who uses plant or machinery for his own benefit or who has the right of control over the use of plant or machinery, but does not include a lessor of, or any person employed in connection with that plant or machinery.
 - NoteIn a Transnet context the user could be any of the following:
 - ♦ The CEO of Transnet:
 - ◆ The CEO of the particular business unit;
 - ♦ The particular regional or corridor manager;
 - ◆ The manager of the particular workshop or depot;
 - ♦ The operations manager;
 - ♦ The **supervisor**

2.2 OPERATOR

For the purpose of this instruction, and in terms of the Act, the "*Operator*" shall be the person physically operating the plant, equipment or machinery.

- An "*Operator*" must be, certified to operate the equipment, physically able to do so and of sound mind. These requirements will be included in the 2 yearly re-testing program.
- **2.3** SUPERVISOR (Ref. Old Code 29 Clause B.1,1)

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For the purpose of this instruction, and in terms of the Act, the "Supervisor" shall be the supervisor responsible for the maintenance or examination of the equipment.

2.4 OPERATIONS MANAGER

For the purpose of this instruction, and in terms of the Act, the "Operations Manager" shall be the person with the authority to control the day to day operations of any particular piece of plant, machinery or equipment.



2.5 EXAMINER (Ref. Old Code 29 Clause B.2,1)

The **examiner** shall be an artisan or similarly **competent person** in terms of the Act to undertake the duties as set out in clause 4.3 of the Administrative Instructions of this Code of Practice. He/she will be appointed as such. (General Machinery Regulation1.(a),(b),(c) and (d)).

2.6 INSPECTOR

The *inspector* shall be a *competent person* appointed with the authority, responsibility and duty to determine the safety and condition of all machinery, plant and equipment, audit the related documentation and records as well as the ability of all the personnel involved with operating, maintaining, examining and managing it.

2.7 CHAINBLOCK or BLOCK AND TACKLE (Act 85 of 1993)

This is a lifting device consisting of one or more pulley blocks reeved with chains, wire or fibre ropes used solely for the raising and lowering of a load or moving a load horizontally;

2.8 JIB-CRANE (Act 85 of 1993)

This is any crane of which the load is supported by a projecting horizontal or inclined member, known as a jib;

• **Note**: This definition also includes truck mounted cranes e.g. Hiab.

2.9 LIFTING MACHINE (Act 85 of 1993)

This is a power driven machine which is designed and constructed for the purpose of raising or lowering a load or moving it in suspension, and includes a block and tackle, hoist, crane, lift truck or jib-crane, but does not include an elevator, escalator, goods hoist or builder's hoist;

2.10 LIFTING TACKLE (Act 85 of 1993)

Lifting tackle means chain slings, rope slings, rings, hooks, shackles, swivels, spreaders or similar appliances;

2.11 LIFT TRUCK (Act 85 of 1993)

It means a mobile lifting machine, but does not include-

- 2.11.1 a vehicle designed solely for the purpose of lifting or towing another vehicle;
- 2.11.2 a mobile earth-moving machine; or
- 2.11.3 a vehicle designed solely for the removal of a waste bin;

2.12 CERTIFICATED ENGINEER (Act 85 of 1993)

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This is any person to whom a certificate of competency referred to in regulation E1 (1) of the Regulations, published under Government Notice R.929 of 28 June 1963, has been granted and includes any person who is the holder of a certificate of competency in mechanical or electro-technical engineering issued before 1 January 1966 under the Mines and Works Act, 1956 (Act 27 of 1956);

• **Note**: For the purpose of this Code of Practice only certificates of competency as mechanical engineers will be recognised.



2.13 COMPETENT PERSON (Act 85 of 1993)

This is any person who -

- 2.13.1 has served an apprenticeship in an engineering trade which included the operation and maintenance of machinery, or has had at least five years' practical experience in the operation and maintenance of machinery, and who during or subsequent to such apprenticeship or period of practical experience, as the case may be, has had not less than one year's experience in the operation and maintenance appropriate to the class of machinery he is required to supervise:
- 2.13.2 has obtained an engineering diploma in either the mechanical or electro-technical (heavy current) fields with an academic qualification of at least T3 or N5, or of an equivalent level, and who subsequent to achieving such qualification has had not less than two year's practical experience in the operation and maintenance appropriate to the class of machinery he is required to supervise;
- 2.13.3 is a graduate engineer who has had not less than two years post graduate practical experience in the operation and maintenance appropriate to the class of machinery he is required to supervise and who has passed the examination on the Act and the regulations made thereunder, held by the Commission of Examiners in terms of regulation E5 (2) of the regulations published under Government Notice R.929 of 28 June 1963; or
- 2.13.4 is a certificated engineer;

2.14 GRADUATE ENGINEER (Act 85 of 1993)

This is any person who has obtained a degree in mechanical or electrical engineering at a South African university, or a degree recognised by the Department of National Education as equivalent to any such degree;

• Note: A Graduate Engineer is only considered such by this Code Of Practice within the scope of his or her particular discipline.

2.15 PROFESSIONAL ENGINEER (Act 114 of 1990)

This is any person that has been registered with the Engineering Council of South Africa as a **Professional Engineer** in terms of the Engineering Profession of South Africa Act (Act 114 of 1990)

• **Note**: A **Professional Engineer** is only considered such by this Code Of Practice within the scope of his or her particular discipline.

2.16 LOAD ATTACHMENT DEVICE

Any device or system of devices that connects the load with the lifting appliance i.e. slings, hooks, twist locks or spreaders etc. etc.



2.17 REACHSTACKER

A reachstacker is a lift truck with the following characteristics:

- 2.17.1 It is generally driven by some kind of internal combustion engine;
- 2.17.2 It is fitted with rubber tyres on two axles with steering located on the rear axle.
- 2.17.3 It has an extendible lifting boom usually attached and hinged above the rear wheels or rear half of the chassis and which is supported by one or more hydraulic cylinders mounted on the front half of the chassis:
- 2.17.4 It carries most of the load, when laden, on its front wheels;
- 2.17.5 It is generally fitted with a container spreader;
- 2.17.6 It has the ability to stack several containers high in the second or third rows; and
- 2.17.7 It is generally able to lift, rotate horizontally, tilt, side shift and move around with a load without the use of outriggers, though outriggers may be fitted.

2.18 REPORTABLE INCIDENT (Act 85 of 1993)

Each incident occurring at work or arising out of or in connection with the activities of persons at work or in connection with the use of plant or machinery in which, or in consequence of which -

- 2.18.1 any person dies, becomes unconscious, suffers the loss of a limb or part of a limb or is otherwise injured or becomes ill to such a degree that he is likely either to die or to suffer a permanent physical defect or likely to be unable for a period of at least 14 days either to work or to continue with the activity for which he was employed or is usually employed;
- 2.18.2 a major incident occurred; or
- 2.18.3 the health or safety of any person was endangered and where 2.18.3.1a dangerous substance was spilled;
 - 2.18.3.2the uncontrolled release of any substance under pressure took place;
 - 2.18.3.3machinery or any part thereof fractured or failed resulting in flying, falling or uncontrolled moving objects; or
 - 2.18.3.4machinery ran out of control,

2.19 INCIDENTS WHERE INVESTIGATION IS MANDATORY

Any incident during which one of the following occurred:

2.19.1 any of the criteria for a *Reportable Incident* was met;



- 2.19.2 a person was injured or could potentially have been injured;
- 2.19.3 equipment, plant or machinery was damaged;
- 2.19.4 a load was damaged during handling or operation of the equipment, plant or machinery and which could possibly result in a claim:
- 2.19.5 any unlawful action in connection with equipment, plant or machinery;
- 2.19.6 Transnet suffered a loss or disadvantage due to the improper operation, maintenance or control of equipment, plant or machinery; or
- 2.19.7 If in the opinion of the General Manager Engineering, Spoornet, The Group Risk Manager or the *supervisor*, such an investigation is necessary.
- 2.19.8 If an examiner finds that a piece of equipment, plant or machinery was used without certification.
- 2.19.9 If an examiner finds that a piece of equipment, plant or machinery was used without indicated repairs being completed.

2.20 OEM

The original Equipment Manufacturer.

3. REFERENCES

- 3.1 Occupational Health and Safety Act (Act 85 of 1993) and its Regulations
- The Engineering Profession of South Africa Act and it's Regulations (Act 114 of 1990)
- 3.3 The National Road Traffic Act and it's Regulations (Act 93 of 1996)
- 3.4 User and Maintenance Manuals of Original Equipment Manufacturers (*OEM*'s)
- 3.5 Relevant SABS Standards and Codes of Practice

4. DUTIES

- 4.1 GENERAL DUTIES OF EMPLOYERS AND USERS OF MACHINERY. (Act 85 of 1993)
- Every employer shall provide and maintain, as far as is reasonably practicable, a working environment that is safe and without risk to the health of his employees.
- Without derogating from the generality of an employer's duties the matters to which these duties refer include in particular-



- 4.1.1 The **provision and maintenance of systems** of work, plant and machinery that, as far as is reasonably practicable, are **safe and without risks to health**:
- 4.1.2 **Taking such steps** as may be reasonably practicable **to eliminate or mitigate any hazard or potential hazard** to the
 safety or health of employees before resorting to personal
 protective equipment;
- 4.1.3 **Making arrangements for ensuring**, as far as reasonably practicable, **the safety and absence of risks** to health in connection with the production, processing, use, handling, storage or transport of articles or substances;
- 4.1.4 **Establishing**, as far as reasonably practicable, what **hazards to the health or safety** of persons are attached to any work which is performed, any article or substance which is produced, processed, used ,handled, stored or transported and any plant or machinery which is used in his business, and he shall, as far as reasonably practicable, **further establish what precautionary measures should be taken** with respect to such work article, substance, plant or machinery in order to protect the health and safety of persons, and he shall **provide necessary means to apply such precautionary measures**;
- 4.1.5 **Providing such information, instructions, training, and supervision** as may be necessary **to ensure,** as far as reasonably practicable, **the health and safety** at work of his employees;
- 4.1.6 As far as reasonably practicable, **not permitting any employee to do any work** or produce process, use ,handle, store or
 transport any article or substance or to operate any plant or
 machinery, **unless the precautionary measures** contemplated in
 paragraphs 4.3.2 and 4.3.4, or any other precautionary measures
 which may have been prescribed, **have been taken**;
- 4.1.7 taking all necessary measures to ensure that all the requirements of this Act are complied with by every person in his employment or on premises under his control where plant or machinery is used;
- 4.1.8 **Enforcing such measures as may be necessary** in the interest of health and safety;
- 4.1.9 **Ensuring that work is performed** and that plant or machinery is used **under the general supervision** of a person trained to understand the hazards associated with it **and who have the**



- authority to ensure that precautionary measures taken by the employer are implemented; and
- 4.1.10 causing all employees to be informed regarding the scope of their authority as contemplated in section 37(1)(b) of Act 85 of 1993.
- **4.2 DUTIES OF THE SUPERVISOR** (Ref. Old Code 29 Clause B.3)
 - 4.2.1 The *supervisor* must first and foremost act as the **person** responsible for maintenance and safety of equipment plant or machinery under his jurisdiction and thus act as representative of the *user* in this regard.
 - Note: The only way in which the Supervisor can remove this
 responsibility from himself is if the user understands and still
 disregards his written warnings or instructions regarding the safety
 of the relevant equipment plant or machinery.
 - 4.2.2 The **Supervisor** must further at all times be **aware** of the condition of the equipment maintained by his staff and **ensure that the equipment is kept in a good and safe condition**. He must withdraw from service any equipment which will prejudice safe working or endanger staff under his jurisdiction or members of the public.
 - 4.2.3 The *Supervisor* must ensure that all the machinery, plant and equipment under his jurisdiction is examined in terms of extant instructions and that the findings of these examinations are recorded on the logsheet pertaining to the plant concerned. (See clause 10.1 Administrative Instructions)
 - 4.2.4 The *Supervisor* must scrutinise, date and initial all logsheets under his jurisdiction immediately after the *Operations Manager* has examined and signed the log-sheets. Where the examiner's report on the logsheet requires that remedial or other action must be taken, the *Supervisor* must take the action required as soon as possible in conjunction with the particular *Operations Manager*. The *Supervisor* must endorse the logsheets with particulars of the action taken. Such endorsements must be made directly below the last remarks made by the *examiner*.
 - 4.2.5 The *Supervisor* must arrange for the periodic annealing (where applicable) and testing of lifting tackle components, such as chains, hooks, shackles, etc., the periodic de-carbonising of air compressors and the cleaning of air receivers.



- 4.2.6 When equipment is due for routine attention the **Supervisor must** not wait until it is logged by the examiner, but must take the necessary action without delay in conjunction with the particular **Operations Manager**.
- 4.2.7 Any plant or equipment covered by a logsheet, when loaned to another business division, business unit or station, must be accompanied by the logsheet or logsheets and it is the duty of the owner to arrange for the logsheets to be forwarded to the new Supervisor. The borrower must have the equipment examined and scrutinise the logsheet or logsheets prior to placing the equipment in service. The new Supervisor must arrange for the necessary examination and testing during the period the plant or equipment is on loan.
- 4.2.8 The *Supervisor* must arrange that, when plant or equipment covered by a logsheet or logsheets, is transferred to another business division, business unit or station, the logsheet or logsheets accompanies the plant or equipment concerned. The *Supervisor* who receives such transferred plant must have the equipment examined and scrutinise the logsheet or logsheets prior to placing the plant or equipment in service. Where applicable the *Supervisor* must arrange to re-stamp slings, etc., with the station and depot code mark and identification number applicable to the new centre.
- 4.2.9 **Supervisors** must **retain a record of local identification numbers** with particulars of lifting tackle components and assemblies under their jurisdiction.
- 4.2.10 The **Supervisor** must arrange to **file all logsheets**, **defect reports**, **modification and repair authorisations**, pertaining to plant and equipment under his jurisdiction in such a manner that they are **readily available for inspection**. Such documentation should be kept in the proximity of the equipment they cover, so that the logsheets can be referred to, should circumstances warrant it.
- **Note:** In the case of a depot or terminal where several pieces of equipment are being used throughout the terminal a centralised point should be established where all records are kept and made available.
- 4.2.11 When the **examiner** reports that some of the **equipment is not**available for examination the **Supervisor** must take immediate
 action in conjunction with the particular **Operations Manager**to try and find the missing equipment. If it cannot be found
 within a period of one month he must advise the **Operations Manager** in writing that the equipment must not be used and
 when found, that it must be reported to the **Supervisor** who will



then have it be examined. A notice to the effect that the item of equipment is missing and is considered unsafe must also be displayed on a conspicuous notice board. The equipment must be withdrawn from service with the necessary endorsement on the applicable logsheet. The Equipment must then be reported stolen and a copy of the Police report and the reference No. must be placed on the equipment file. A copy of the above documents must also be sent to the Group Risk Manager as well as the census authority.

- 4.2.12 Should a item of equipment, plant or machinery that previously was considered untraceable be found, the fact must immediately be reported to the SAPS, Operations Manager, Risk Manager as well as the Census authority. An investigation must then be made of the circumstances regarding the temporary loss of the item of equipment, plant or machinery. The report with details of the action taken must be filed in the equipment file and copies sent to the Risk Manager, Census authority and if necessary the SAPS.
- 4.2.13 Where lifting equipment bearing a code mark foreign to the centre or depot is found and where no arrangements have been made regarding the loan of such equipment, the lifting equipment must be returned to the department and/or centre to whom it belongs, i.e. as indicated by the code mark stamped or stencilled on the lifting equipment.
- **4.3 DUTIES OF THE EXAMINER** (Ref. Old Code 29 Clause B.4)
 - 4.3.1 The **examiner** must **thoroughly examine** all machinery, plant and equipment situated within his defined area of examination, **for defects, deficiencies or wear that affect, or could affect, the safe operation** of the machinery, plant and equipment. He must also **ensure** that the **provisions of regulations** promulgated to ensure the safe operation of machinery, plant and equipment **are met**.
 - **Note:** Where steel structures form part of machinery or plant, the **examiner** must also thoroughly examine the structure for damage, cracks, corrosion or other defects which could affect the safe operation of the machinery or plant concerned.
 - 4.3.2 The findings of each examination must be entered on the logsheet (or logbook) applicable to the item examined. The date of the examination and the examiners signature must be endorsed on the logsheet.



- Note: Where no defects, deficiencies, etc., are apparent the examiner must endorse the logsheet, "In good order". The use of ditto or similar inscription marks on logsheets is not permitted.
- 4.3.3 The **examiner** and the **Supervisor** must ensure that **logsheets** are kept in a good order and arrange for replacement or repair of any torn or damaged logsheets. If logsheets are replaced the torn or full logsheets must be filed in the equipment file.
- 4.3.4 The *Examiner* must have in his possession a complete list showing clearly each item of machinery, plant and equipment examined by him. This list must be updated after every inspection regarding new, withdrawn or transferred equipment.
- 4.3.5 **Examiners** must ensure that machinery, plant **or equipment** which they consider unsafe for use, after examination, is not used. In all instances where unsafe machinery, plant or equipment is found during the examination the examiner must endorse the logsheet "UNSAFE NOT TO BE USED" and must advise the operator that the machinery, plant or equipment must not be used until repairs are affected.
- 4.3.6 The **examiner** must directly after this examination **inform both** the **Operations Manager** and the **Supervisor** about his remarks on the logsheet and retain their signatures as acknowledgement. The **Operations Manager** in conjunction with the particular **Supervisor** must then ensure that the machinery, plant or equipment is repaired or disposed of as scrap.
- 4.3.7 Where equipment is not available for examination the examiner must endorse the relevant logsheet accordingly, stating the reasons, and advise the Supervisor that he has not examined the said equipment. The Supervisor must then immediately inform the Operations Manager in his capacity as user of the unavailability of the equipment. The responsibility then rests with the Operations Manager in his capacity as user to take the necessary action to ensure the safety of the relevant equipment.

4.4 DUTIES OF THE OPERATIONS MANAGER

4.4.1 The *Operations Manager* is firstly responsible for **ensuring that** his staff complies with the minimum standard (*knowledge*, ability and certification) before allowing them to operate any



- piece or item of plant, machinery or equipment covered by this code of practice.
- 4.4.2 The *Operations Manager* must further at all times be **aware** of the condition of the equipment used by his staff and **ensure that the equipment is kept in a good, safe, clean and neat condition**. He must withdraw from service any equipment which will prejudice safe working or endanger staff under his control or members of the public.
- 4.4.3 The *Operations Manager* must also **ensure** that any piece or item of plant, machinery or **equipment being used by staff** under his control **complies with** the requirements of The **Occupational Health and Safety Act**.
- 4.4.4 The *Operations Manager* must ensure that any piece or item of plant, machinery or equipment being used by staff under his control is regularly inspected and tested according the guidelines of this code of practice.
- 4.4.5 The *Operations Manager* must **co-ordinate with the** *supervisor* and **make the equipment available for inspection and testing** as required by this code of practice.
- 4.4.6 The *Operations Manager* must ensure that **no equipment**, which is **not numbered**, or **not covered by a certificate**, or is not in accordance with extant instructions, **be used**.
- 4.4.7 The *Operations Manager* must scrutinise, date and initial all logsheets of equipment under his control immediately after the examiner has examined the equipment and endorsed the log-sheets. Where the examiner's report on the logsheet requires that remedial or other appropriate action must be taken, the *Operations Manager* must arrange with the *Supervisor* for the necessary remedial action to be taken and ensure that the equipment is not used until such a time that the abovementioned remedial action has been taken.
- 4.4.8 The *Operations Manager* must inform the *Supervisor* of any transfer scrapping or delivery of equipment whether new, hired, borrowed or transferred. He is also responsible to inform the census authority of the above changes.
- 4.4.9 Should any piece or item of plant, machinery or equipment being used by staff under his control be lost or untraceable the *Operations Manager* must firstly investigate the circumstances of the loss. Should the item still not be traceable he/she must then immediately report the situation to The Risk Manager,



S.A Police Services as well as the census authority. The **SAPS case No. must be included** in the correspondence to the Risk Manager and Census authority. **All documentation**, whether original or copies, must also be **filed in the equipment file**.

4.4.10 Should a item of equipment, plant or machinery that previously was considered untraceable be found, the fact must immediately be reported to the SAPS, Supervisor, Risk Manager as well as the Census authority. An investigation must then be made of the circumstances regarding the temporary loss of the item of equipment, plant or machinery. The report with details of the action taken must be filed in the equipment file and copies sent to the Risk Manager, Census authority and if necessary the SAPS.

4.5 **DUTIES OF THE OPERATOR**

The **operator** of equipment must ensure that:

- 4.5.1 he/she is **certified to operate the particular piece of equipment** (in the case of a lift truck with a lifting capacity of 750 kg or more or in the case of a jib crane with a lifting capacity of 5000kg or more the **operator** should be in possession of a valid certificate issued by TNTB [Transnet training board]);
- 4.5.2 the equipment or plant that he/she **operates is in a safe condition before use**, by doing a **general visual inspection** and, if applicable, complete the **daily logbook** and/or checksheet for that piece of equipment.
- 4.5.3 he/she **reports any defect or dangerous situation** in connection with the equipment immediately to the **supervisor**;
- 4.5.4 he/she **operates the equipment safely** and within it's designed limits:
- 4.5.5 he/she ensures that the equipment is in a safe condition when he/she leaves or stores it

4.6 DUTIES OF THE INSPECTOR

4.6.1 The *inspector* is the enforcer of this Code of Practice, and as such must always be on the lookout for possible transgressions of this Code of Practice.



- 4.6.2 The *inspector* must do regular spot checks on the condition of machinery plant and equipment in his area of responsibility and the related documentation.
- 4.6.3 The *inspector* must do a systematic inspection on the condition of all the machinery plant and equipment in his area of responsibility and the related documentation at least once a year.
- 4.6.4 The *inspector* must give a full report of an 'inspection' to the person responsible for the equipment and forward a copy of the report to the Group Risk Manager, Transnet. The report must contain among other items at least the following:
 - 4.6.4.1 Equipment status report.
 - 4.6.4.2 Report on the quality and status of documentation.
 - 4.6.4.3 Report on the standard and quality of examination.
 - 4.6.4.4 Report on the standard and quality of maintenance.
 - 4.6.4.5 Report on the standard of operating.
 - 4.6.4.6 Report on the environment in which the particular piece of machinery, plant or equipment is used.

5. DATABASE OF LIFTING EQUIPMENT

- In order to properly manage the equipment falling under the scope of this code of practice a database will be created and maintained by The General Manager Engineering, Spoornet.
- 5.2 The following information will be required for every piece of equipment (Form A-2):
 - 5.2.1 Asset no.
 - 5.2.2 Description.
 - 5.2.3 Category e.g. Overhead Electric crane, sling etc.
 - 5.2.4 Manufacturer
 - 5.2.5 Serial No
 - 5.2.6 Year of manufacture
 - 5.2.7 Capacity
 - 5.2.8 Centre
 - 5.2.9 Owner
 - 5.2.10 Date of last logsheet entry
 - 5.2.11 Date of last performance test.
- 5.3 A yearly census of the equipment will be done by **supervisors** and **users** at the beginning of each financial year. The census requires that all involved parties resubmit the information required by clause 5.2 on form to the database maintainer.



6. <u>AUTHORITY AND RESPONSIBILITY</u>

6.1 GENERAL DELEGATION OF AUTHORITY AND RESPONSIBILITY

- 6.1.1 The Managing Director of Transnet has delegated the authority to ensure the safe operation of the various types of equipment covered by this code of practice to the relevant executive directors who in their turn delegated the authority to the CEO.'s of the business units under their control. These CEO.'s have delegated the authority down their company structure in regulated and documented ways to the individual *users* and *operators* of the equipment.
- 6.1.2 The delegation of authority and the connected responsibility must be done in writing by any line manager but **can only be done to the extent that he has received authority to delegate from his superiors**. A copy of the letter of delegation must be forwarded to the Group Risk Manager for record keeping.

6.2 RECORD OF DELEGATED AUTHORITY AND RESPONSIBILITY

- 6.2.1 The Group Risk Manager is responsible to create and update a record of the structure of all delegated responsibilities and authorities related to this Code of Practice.
- 6.2.2 At the beginning of each financial year the Group Risk Manager is responsible for sending to each person, that it has record of, a detailed statement of his responsibility and authority. This has to be connected to an audit of all responsibilities to ensure that all the areas of exposure of Transnet has been adequately covered.

6.3 **DELEGATED AUTHORITY AND RESPONSIBILITY OF OPERATIONS** *MANAGERS*

- 6.3.1 The *Operations Manager* is responsible for ensuring the safe use of machinery, plant and equipment under his control.
- 6.3.2 The *Operations Manager* is responsible for ensuring that only machinery, plant and equipment under his control which are properly certified and for which the proper documentation has been issued are used.
- 6.3.3 The *Operations Manager* is responsible for ensuring that the *operators* operating the machinery, plant and equipment under his control are qualified, capable and duly certified to do so.



- 6.3.4 The *Operations Manager* has the responsibility and authority to suspend the certification of any *operator* that he deems not capable of competently operating a particular piece of machinery, plant or equipment under his control. The operator's operators card must be endorsed "Suspended pending re-certification by the TNTB".
- 6.3.5 The *Operations Manager* has the responsibility and authority to have any particular piece of machinery, plant or equipment under his control repaired and made safe to operate.
- 6.3.6 The *Operations Manager* has the responsibility to report any defects on a particular piece of machinery, plant or equipment which becomes apparent either to him or the operator before or during operation as soon as possible to the *Supervisor*.
- 6.3.7 The *Operations Manager* has the responsibility and authority to withdraw any particular piece of machinery, plant or equipment under his control from service
- 6.3.8 The *Operations Manager* is responsible for ensuring that the *Supervisor* as well as the Census authority is informed of any scrapping, transfer or procurement of new machinery, plant and equipment under his control.
- 6.3.9 The *Operations Manager* is responsible for ensuring that all *Reportable Incidents* in connection with any particular piece of machinery, plant and equipment under his control is duly reported as required in Clause 7.1 of the Administrative Instructions of this Code of Practice.
- 6.3.10 The *Operations Manager* is responsible for ensuring that all *Incidents With Mandatory Investigations* in connection with any particular piece of machinery, plant and equipment under his control are duly reported and investigated as required in Clause 7.4 of the Administrative Instructions of this Code of Practice.
- 6.3.11 The *Operations Manager* has the responsibility and authority to institute disciplinary action against *operators* that he deems to have acted negligently or irresponsibly in connection with any particular piece of machinery, plant or equipment.
- 6.3.12 The *Operations Manager* has the responsibility and authority to recommend in writing to the controlling officer of any other person that he deems to have acted negligently or irresponsibly in connection with any particular piece of machinery, plant or equipment that disciplinary action must instituted against the



particular person. A copy of such written recommendation must be filed on the equipment file. Details of any action or inaction of the particular controlling officer must also be filed in the equipment file.

6.4 DELEGATED AUTHORITY AND RESPONSIBILITY OF SUPERVISORS

- 6.4.1 The **Supervisor** is responsible for ensuring that machinery, plant and equipment which he is responsible for and are in service are safe to use
- 6.4.2 The **Supervisor** is responsible for ensuring that only machinery, plant and equipment under his jurisdiction which are safe to use are issued with proper certification and documentation.
- 6.4.3 The **Supervisor** has the responsibility to recommend in writing to the **Operations Manager** to suspend the certification of any **operator** that he deems not capable of competently operating a particular piece of machinery, plant or equipment. The recommendation and details of the action or inaction of the **Operations Manager** must be filed in the equipment file of the particular piece of equipment, plant or machinery.
- 6.4.4 The **Supervisor** has the responsibility and authority to have any particular piece of machinery, plant or equipment under his jurisdiction repaired and made safe to operate.
- 6.4.5 The **Supervisor** has the responsibility and authority to withdraw the certification of any particular piece of machinery, plant or equipment that he deems to be unsafe or likely to sustain major consequential damage due to it's condition.
- 6.4.6 The **Supervisor** has the authority to use his discretion in allowing the **Operations Manager** limited use of a particular piece of machinery, plant or equipment, mentioned in clause 6.4.5, should the situation require it..
- 6.4.7 The **Supervisor** however has the authority to issue a **stop certificate** for any particular piece of machinery, plant or equipment, mentioned in clauses 6.4.5 and 6.4.6, that he deems to be unsafe or likely to sustain major consequential damage due to it's condition even if the situation is critical.
- 6.4.8 The **Supervisor** has the authority to serve any person, performing actions in connection with any particular piece of machinery, plant or equipment, that he deems to be unsafe with a **warning notice**. A copy of such notice has to forwarded to the person's controlling



officer who then has to investigate whether disciplinary action can be taken against such person. Another copy of such notice must be filed in the equipment file.

- 6.4.9 The **Supervisor** has the responsibility and authority to declare any incident that he deems to have been dangerous, potentially dangerous or unnecessarily damaging to equipment, as "**an** incident where investigation is mandatory"
- 6.4.10 The **Supervisor** is responsible for ensuring that all **Guarantee defects** in connection with any particular piece of machinery, plant and equipment under his jurisdiction is duly reported as required in Clause 7.2 of the Administrative Instructions of this Code of Practice.
- 6.4.11 The *Supervisor* is responsible for ensuring that all *Recurring defects* in connection with any particular piece of machinery, plant and equipment under his jurisdiction is duly reported and dealt with as required in Clause 7.3 of the Administrative Instructions of this Code of Practice.
- 6.4.12 The **Supervisor** has the responsibility and authority to institute disciplinary action against **examiners** that he deems to have acted negligently or irresponsibly in connection with any particular piece of machinery, plant or equipment.

6.5 DELEGATED AUTHORITY AND RESPONSIBILITY OF EXAMINERS

- 6.5.1 The *Examiner* is responsible for ensuring that all machinery, plant and equipment, which he examines and certifies, are safe to use and properly maintained.
- 6.5.2 The *Examiner* has the responsibility to report all defects that he may find during his examination of any particular piece of machinery, plant or equipment and note it down on the relevant logsheet.
- 6.5.3 The *Examiner* is responsible for issuing machinery, plant and equipment, which he examined and found to comply with the requirements, with proper certification and documentation.
- 6.5.4 The **Examiner** has the responsibility to report any **operator** that he deems not capable of competently operating a particular piece of machinery, plant or equipment to the **Supervisor** for appropriate action by him/her.



- 6.5.5 The *Examiner* has the responsibility and authority to withdraw the certification of any particular piece of machinery, plant or equipment that he deems to be unsafe or likely to sustain major consequential damage due to it's condition. In such a case a stop certificate (Form A10) must be issued by him/her.
- 6.5.6 The *Examiner* has the responsibility to report any person, performing actions in connection with any particular piece of machinery, plant or equipment, that he deems to be unsafe to the *Supervisor* for appropriate action by him/her.
- 6.5.7 The *Examiner* has the responsibility to report any incident that he deems to have been dangerous, potentially dangerous or unnecessarily damaging to equipment, to the *Supervisor* for appropriate action by him/her.
- 6.5.8 The **Examiner** has the authority to enter any premises where any particular piece of machinery, plant or equipment that he is responsible for examining is operated, situated or stored.

6.6 DELEGATED AUTHORITY AND RESPONSIBILITY OF INSPECTORS

- 6.6.1 The *Inspector* has the authority to enter any premises where any particular piece of machinery, plant or equipment that is owned by Transnet is operated, situated or stored.
- 6.6.2 The *Inspector* has the authority to request any information data or logsheet of any particular piece of machinery, plant or equipment that is owned by Transnet
- 6.6.3 The *Inspector* has the responsibility and authority to withdraw the certification of any particular piece of machinery, plant or equipment that he deems to be unsafe or likely to sustain major consequential damage due to it's condition.
- 6.6.4 The *Inspector* has the responsibility to investigate the competency of either or both the *Supervisor* and the *Examiner* in the instance that he had to enact clause 6.6.3 with out a request from either of the previously mentioned parties.
- 6.6.5 The *Inspector* has the responsibility and authority to declare any incident that he deems to have been dangerous, potentially dangerous or unnecessarily damaging to equipment, as "an incident where investigation is mandatory"

6.7 **DELEGATED AUTHORITY AND RESPONSIBILITY OF OPERATORS**



- 6.7.1 The *Operator* has the responsibility to operate any particular piece of machinery, plant or equipment safely, and only if certified to do so.
- 6.7.2 The *Operator* has the responsibility not to operate any particular piece of machinery, plant or equipment if it is not safe to be operated.
- 6.7.3 The *Operator* has the responsibility to report any defects on a particular piece of machinery, plant or equipment which becomes apparent before or during operation as soon as possible to the *Operations Manager*.
- 6.7.4 The *Operator* has the authority and responsibility to refuse to operate any particular piece of machinery, plant or equipment should it be:
 - 6.7.4.1 Unsafe to operate due to the condition of the equipment;
 - 6.7.4.2 Over the rated limits of the particular piece of machinery, plant or equipment.
 - 6.7.4.3 Unsafe to operate due to environmental conditions;
 - 6.7.4.4 Illegal to operate that particular piece of machinery, plant or equipment

7. FEEDBACK / REPORTING

7.1 REPORTABLE INCIDENTS

- 7.1.1 All **Reportable Incidents** must immediately be reported to the Department of Labour on the form prescribed by the OHS Act. This form would also be available at local Risk Management officers.
- 7.1.2 Copies of these reports should also be sent to the local Risk Management officer, the Executive Manager whose staff maintains the particular piece of machinery, plant or equipment as well as to the Executive Manager whose staff operates the particular piece of machinery, plant or equipment.

7.2 GUARANTEE DEFECTS

- 7.2.1 All defects on a particular piece of machinery, plant or equipment still under guarantee have to be logged on the logsheet with details about the action taken.
- 7.2.2 A report on the defect has to be sent to the Executive Manager whose staff maintains the particular piece of machinery, plant or equipment. (Form A-3)



7.2.3 A copy of each guarantee defect report must be filed in the equipment file.

7.3 RECURRING DEFECTS

- 7.3.1 All similar or identical defects which occur more than three times within a reasonable time on the same particular piece of machinery, plant or equipment being maintained or used by Transnet must be investigated by a competent third party independent from both the maintenance and operational staff.
- 7.3.2 Copies of the report on the defect investigation has to be sent to: 7.3.2.1 the Executive Manager whose staff maintains the particular piece of machinery, plant or equipment;
 - 7.3.2.2 the Executive manager whose staff operates the particular piece of machinery, plant or equipment;
 - 7.3.2.3 The Risk Manager of the particular Business Unit; and
 - 7.3.2.4 Group Risk Manager, Transnet.
- 7.3.3 The Managers of the maintenance and operational sections must decide in which sphere the cause of the defect falls. Should this be impossible the services of a independent third party must be used.. Appropriate action (disciplinary or preventative etc.) must then be decided upon and implemented.
- 7.3.4 Transnet Risk Management will monitor trends for equipment Transnet wide, and if the occurrence of a particular defect on a particular piece of equipment has too high a risk attached to it, the local Risk Manager is responsible to take appropriate measures to prevent or reduce the risk of it reoccurring.
- 7.3.5 A copy of recurring defect report and details of the action taken must be filed in the equipment file.

7.4 INCIDENTS WITH MANDATORY INVESTIGATIONS

- 7.4.1 All the investigations for the above type of incidents must be performed by a competent third party independent from both the maintenance and operational staff
- 7.4.2 Copies of the report on the investigation has to be sent to: 7.4.2.1 the Manager whose staff maintains the equipment; 7.4.2.2 the manager whose staff operates the equipment; and 7.4.2.3 Transnet Risk Management.
- 7.4.3 The Managers of the maintenance and operational sections must decide in which sphere the cause of the incident falls. Appropriate



action (corrective or preventative measures etc.) must then be decided upon and implemented.

8. <u>EQUIPMENT UPDATES / INSTRUCTIONS / SERVICE BULLETINS</u>

- 8.1 Should a manufacturer of a particular piece of machinery, plant or equipment issue an equipment update, instruction or service bulletin, copies will be forwarded to all the *users*, owners and maintenance staff for that particular series or type of equipment. The database of equipment will be used to determine to whom copies should be sent.
- 8.2 The *user* and *supervisors* must then ensure that the equipment update, instruction or service bulletin is then acted upon
- 8.3 A copy of the equipment update, instruction or service bulletin as well as details of the actions take in regards of it must be placed on the equipment file.
- 8.4 Should the particular piece of equipment not be at the centre the *supervisor* will then be responsible to ensure that the bulletin reaches the relevant persons and that it is filed appropriately.

9. SAFETY DEVICES / OPERATIONS

9.1 REQUIREMENTS

- 9.1.1 All power driven lifting machines with a capacity of more than 5 ton must have a device in one form or another to prevent the *operator* from lifting a load higher than the rated capacity of the machine. (Act 85, Driven Machinery regulations 18.2.b.ii)
- 9.1.2 These safety devices must be mounted such that they do not have to be re-calibrated after regular maintenance both to the machine as well as to the device.

9.2 INSPECTIONS

9.2.1 The safety devices must specifically be examined during the regular examinations of the machinery and all examinations must be individually noted and signed off on the equipment logsheet.

9.3 CALIBRATION

9.3.1 The devices must be calibrated yearly or more often if necessary and a program for these calibrations must be filed in the equipment file. All calibrations must be individually noted and signed off on the equipment logsheet.



10. ROUTINE

10.1 GENERAL EXAMINATION PROCEDURES OF MACHINERY, PLANT AND EQUIPMENT

- 10.1.1 Logsheets, numbers 9, 10 and 66, must be used by **examiners** to record the results of periodic examinations with a view to report and attend to all defects, wear or malfunction, which may affect the safe operation of the equipment or the safety of the **operator** or other persons.
- 10.1.2 **Supervisors** must arrange the following for all new machinery, plant and equipment under their jurisdiction before the item concerned is placed in service:
 - 10.1.2.1the issue of initial logsheets, except where the equipment has been manufactured by a Transnet workshop and logsheets and certification has been issued by them:
 - 10.1.2.2open an equipment file for it;
 - 10.1.2.3ensure that logsheets, valid load test and material certificates, contracts and other relevant certificates, documentation and information from the manufacturing centre are filed in the equipment file as required by clause No. 16.1
 - 10.1.2.4complete and send a census form (Form A-2) to the census authority according to the instructions in clause 5 of these instructions.
- 10.1.3 The last date of certification or testing shown on a completely filled logsheet and the date of manufacture, if known, must be endorsed prominently on the new logsheet. Where equipment is subject to periodic testing, the expiry date for the valid test certificate must be endorsed in red on the bottom right hand corner of the relevant logsheet.
- 10.1.4 Where the last date of test is unknown, or if any doubt exist when the last test was carried out, the new logsheet must be endorsed: "To be Tested". The particular piece of machinery, plant or equipment must be withdrawn from service and only placed back in service when it has successfully been tested.
- 10.1.5 In the event of a logsheet for a particular piece of machinery, plant or equipment being lost (See also Clause 16.1.4 of these instructions):
 - 10.1.5.1Every effort must be made to trace the missing logsheet and/or establish how the logsheet was lost.



- 10.1.5.2The **Supervisor** must advise all concerned that the logsheet has been lost, including:
 - 10.1.5.2.1The *Examiner* of the particular piece of machinery, plant or equipment;
 - 10.1.5.2.2The Operations Manager;
 - 10.1.5.2.3The Risk Manager of the Business Unit;
 - 10.1.5.2.4The Group risk Manager; and
 - 10.1.5.2.5 The census authority
- 10.1.5.3Details as to how the logsheet was lost, or presumed lost, must be recorded in one or more affidavits by the **Supervisor** and/or relevant parties.
- 10.1.5.4The *Examiner* must issue a new logsheet endorsed with the following: "Duplicate logsheet original lost See letter of".
- 10.1.5.5The affidavit/s must be filed in the equipment file.
- 10.1.6 When it is necessary due to new specifications to alter existing information appearing in the heading of a logsheet, the existing information must be crossed out in such a manner that it remains legible and the new information must be inserted. Letters, reports or other documentation explaining the changes must be filed in the equipment file.
- 10.1.7 The identification number appearing on the logsheet may not be altered under any circumstances. Where the identification number is changed a new logsheet must be issued and the existing logsheet including letters, reports or other documentation explaining the changes must be filed by the *Supervisor* in the equipment file.
- 10.1.8 Under no circumstances may correction fluid be used to obliterate any information or entries on a logsheet.

10.2 DAILY / SHIFT TASKS

- 10.2.1 The *operator* of the piece of equipment must ensure that the equipment is safe to operate before he/she starts to operate it. For this purpose the *operator* must perform a daily task. The *operator* must complete the relevant daily task form(Form A7 Logsheet No. 385) should there be no form for that particular piece of equipment a visual as well as a functional check of the piece of equipment must be made by the *operator* before he/she starts to operate it.
- 10.2.2 In the case of multiple users during a shift, the user must assign one person to do the above mentioned shift task.



11. AUTHORITY FOR EXEMPTIONS / REPAIR / MANUFACTURE.

11.1 EXEMPTIONS FROM AND EXTENSIONS TO EXAMINATION AND/OR TESTING PERIODS

- 11.1.1 If exceptional circumstances exist and all other alternatives have been considered, and the only solution is the exemption or extension in respect of the examination and/or testing of equipment for a maximum of one regular inspection, the *Supervisor* can make this decision provided that the maximum safety is ensured at all times. Should an immediate second or permanent exemption be necessary the exemption may only be granted by a *Professional Engineer*.
- 11.1.2 In each case where an exemption or extension in respect of the examination and/or testing has been granted, the relevant logsheets must be endorsed accordingly with the amended periods for examination and/or testing, and will only be valid while conditions exist that led to the application as described in Clause 11.1.1.
- 11.1.3 If the exemption or extension in respect of the examination and/or testing are withdrawn because of changed circumstances, the prescribed examination and test periods must be restored.
- 11.1.4 If **examiners** and other authorised officers consider it necessary in the interest of safety, they shall at all times have the right to cancel an exemption or extension in respect of the examination and/or testing periods. The person concerned must endorse the relevant logsheet accordingly.
- 11.1.5 If **examiners** and other authorised officers consider it necessary in the interest of safety, they shall at all times have the right to required the immediate examination and/or testing of any particular piece of equipment even if it has a valid exemption certificate. The person concerned must endorse the relevant logsheet accordingly including the reasons for the particular action.

11.2 WELDING ON LIFTING TACKLE AND LIFTING EQUIPMENT

11.2.1 No electric arc or oxyacetylene welding or flame cutting is permitted on lifting tackle components and lifting appliances without prior written authority from a *Professional Engineer*. All requests to undertake such welding or cutting must indicate the proposed method of welding or cutting and other relevant information. (Where possible drawings must be provided).



- 11.2.2 After completion of the welding or cutting an examination and performance test must be done by a *competent person* and the Logsheet must be endorsed as such.
- 11.2.3 The written authorisation for the welding or cutting as well as inspection reports, X-ray photos etc. must be filed in the equipment file and a copy of the authorisation must be attached to the Logsheet.

11.3 MODIFICATION TO EXISTING LIFTING EQUIPMENT

- 11.3.1 Proposed modifications to load bearing parts of existing lifting appliances (e.g. cranes, chain blocks, straddle-carriers, etc.) must be referred to a *Professional Engineer* for approval before the modification work is commenced and the drawings for existing lifting equipment must be amended whenever modifications to such equipment are effected.
- 11.3.2 After completion of the modification an examination and performance test must be done by a *competent person* and the Logsheet must be endorsed as such.
- 11.3.3 The written authorisation for the modification, new drawings as well as inspection reports, X-ray photos etc. must be filed in the equipment file and a copy of the authorisation must be attached to the Logsheet.

11.4 COMBINING LIFTING APPLIANCES OF DIFFERENT CAPACITIES

- 11.4.1 The practice of combining lifting equipment of different capacities (i.e. a 3 ton chain block on a 500 kilogram runway) should be avoided wherever possible but where combinations of unequal capacity in use for a relatively short period, e.g. while chain blocks are removed for testing, the *Supervisor* must ensure that the capacity of the equipment which can safely accept the lesser load is not exceeded during the period the lifting equipment safe working loads are at variance.
- 11.4.2 Where combinations of unequal capacity are permanent, the equipment which has the higher capacity must be de-rated to that of the equipment with the lower capacity and may not be upgraded again without the written authority of a *Professional Engineer*.
- 11.4.3 In the case of gantries, runways, swing jibs, etc., the reduced safe working load must be stencilled on the girder or jib and in the case of electric or pneumatic hoists, chain blocks, etc., a brass plate must be fitted in such a manner that it, as far as possible,



- obscures any maker's capacity markings. The brass plate must bear the identification number and the reduced safe working load.
- 11.4.4 In cases where the safe working load is typed on the hook, the existing safe working load markings must be peened out and the de-rated safe working load typed onto the hook.
 - **Note:** The safe working load of the hook may never be upgraded again.
- 11.4.5 Maker's capacity markings, cast or forged in relief on the hook must be ground off, in such a manner that the main body of the hook is neither damaged or reduced in cross-section.
- 11.4.6 The relevant logsheets must be endorsed accordingly, the reduced safe working load must be indicated and all documentation detailing the reasons for the change must be filed in the equipment file.

11.5 **LIFTING EQUIPMENT WORKING IN TANDEM**

- 11.5.1 When it is necessary to use lifting equipment of equal capacity in tandem, the load to be lifted must not exceed 90% of double the safe working load of both items of such equipment used in this combination.
- 11.5.2 When it is necessary to use lifting equipment of **unequal** capacity in tandem, the load to be lifted **must not exceed 90% of** double the safe working load of the item of equipment with the smaller load capacity used in this combination.
- 11.5.3 Two cranes working in tandem and employing a compensating device, the design of which has been approved by a *Professional Engineer*, may lift a single load provided that the load does not exceed ninety per cent of double the safe working capacity of the smaller capacity crane used in the combination.
- 11.5.4 Both the cranes used for a tandem operation must be of the positive power lowering type. Cranes with "free-barrelling" features may only be used if this feature can be positively excluded. Cranes which, due to the electrical wiring, require the controller to be passed through the "free-barrelling" position of the controller before entering the power lowering condition, may under no circumstances be used for tandem working.
- 11.5.5 The Engineer or Manager, whose staff maintains the cranes, (with the concurrence of a *Professional Engineer* in the instance that he/she does not have a suitable qualification and/or suitable experience) must agree in writing that the



- selected cranes are suitable for this method of working and is satisfied that the selected cranes are in good safe working order.
- 11.5.6 All lifts undertaken using the compensating device must be personally supervised by the *Supervisor* or any other responsible person appointed by the *Supervisor* and the lifting of loads must be avoided while strong winds prevail.
- 11.5.7 It must not be presumed that because it was previously agreed upon to work in tandem, future tandem working may be undertaken without requesting and receiving authorisation for it. Each case will be considered and decided on it's merits.
- 11.5.8 The written authorisation for the lift as well as any relevant inspection reports must be filed in the equipment file and a copy of the authorisation must be attached to the Logsheet.

11.6 AUTHORISATION TO OVERLOAD CRANES

- 11.6.1 Cranes may not be loaded in excess of their safe working load, but should circumstances arise where an exception is necessary, full particulars must be referred to the relevant manager or engineer who may authorise, with the concurrence of a *Professional Engineer* in the instance that he/she does not have the necessary qualification and enough suitable experience, an overload in writing of up to twenty five per cent above the safe working load on cranes which are maintained by staff under their control.
- 11.6.2 Overloads, which are above the safe working load plus twenty five per cent of the safe working load, will not be permissible under any circumstances.
- 11.6.3 On receipt of an application the manager must arrange for an examination of the crane and ensure that all aspects of the crane are in good working order.
- 11.6.4 In all cases of overloads the manager must keep a permanent record indicating :
 - 11.6.4.1By whom the overload was authorised.
 - 11.6.4.2Crane number.
 - 11.6.4.3Full details of the load lifted (including mass).
 - 11.6.4.4Date load was lifted.
 - 11.6.4.5Details of *Professional Engineer's* concurrence



- 11.6.5 Every possible alternative must be examined before seeking authority to overload a crane. For instance, the division of the load, or the assistance of other cranes may overcome the difficulty.
- 11.6.6 When an overload has been authorised, it must not be presumed that future similar overloads may be lifted without prior authority. Each case will be considered and decided on it's merits.
- 11.6.7 The operation of lifting an overload must be supervised by an Artisan (Millwright work), or other competent employee and must be avoided while strong winds prevail.
- 11.6.8 After completion of the overload an examination of the crane must be done and the **examiner** must be satisfied that all aspects of the crane are still in good working order.
- 11.6.9 The written authorisation for the overload and written reports of the lift as well as inspection reports before and after the lift must be filed in the equipment file and a copy of the authorisation must be attached to the Logsheet.

12. STORAGE OF EQUIPMENT (MOTHBALL)

12.1 STORAGE OF SURPLUS OR REDUNDANT SLINGS, LIFTING TACKLE AND/OR EQUIPMENT

- 12.1.1 Where slings, lifting tackle and/or equipment become redundant or surplus because of changed conditions or methods and the condition of the slings, lifting tackle and/or equipment is such that scrapping cannot be justified, the *Supervisor* can store the above mentioned equipment until required, or until disposal is arranged.
- 12.1.2 The slings, lifting tackle and/or equipment must be placed in storage in an area which can be securely locked to prevent the entry of unauthorised persons and which is so constructed that material stored therein cannot be removed without consent of the *Supervisor*. This place of storage should not be such that other staff are required to regularly enter the area to obtain other materials stored therein.
- 12.1.3 The **Supervisor** must accept full responsibility for slings, lifting tackle and/or equipment held in storage under his jurisdiction and must take reasonable care that deterioration will not easily occur.



- 12.1.4 The relevant logsheets must be endorsed, "PLACED IN STORAGE", and while the equipment remain in storage the examination, annealing, (where applicable) and testing may be suspended.
- 12.1.5 Where it is necessary to withdraw a item from storage for further use, the item concerned must be thoroughly examined, and if applicable, annealed and tested irrespective of the last date of examination and/or testing and the relevant logsheet endorsed accordingly.

13. PROHIBITIONS

13.1 LIFTING EQUIPMENT OF RAIL CONSTRUCTION

- 13.1.1 Under no circumstances must rails be used for future lifting equipment or lifting appliances and all existing lifting appliances or equipment of rail construction may not be used in future.

 Examiners and Supervisors must cancel all logsheets and/or logbooks for lifting appliances or equipment of rail construction.
- **Note**: Where self supporting jib cranes, constructed in accordance with drawing CME 2531/15-000 have been reinforced in accordance with letter NHH.B. 1365 of 26 August 1975, this equipment may be retained in service.
- 13.1.2 In all cases where it is essential that rails be used, e.g. the track on overhead crane structures these must not be taken into account in the way of load bearing, for design purposes.

13.2 LIFTING EQUIPMENT: BOILER TUBES AND SIMILAR STEEL TUBING

13.2.1 Second-hand boiler tubes and similar steel tubing must not be used in the manufacture of lifting equipment or scaffolding, nor for lifting purposes.

14. DERATING LIFTING EQUIPMENT

- 14.1 When it is necessary to de-rate lifting equipment (i.e. reduce the safe working load) the **Supervisor** and the **Operations Manager** must concur that the lifting equipment be de-rated.
- 14.2 The **Supervisor** must advise the head of the business division or the business unit concerned, in writing, that the lifting equipment has been derated and the reasons therefore.



- 14.3 All load/radius indicators, load diagrams or charts, etc., fitted to or provided with the lifting equipment, must be changed to the de-rated safe working load.
- 14.4 The existing safe working load stencilled on the lifting equipment must be obliterated and the new de-rated safe working load must be stencilled on in place thereof.
- 14.5 The existing safe working load stamped on the lifting equipment components eg. hook/s etc., must be obliterated and the new de-rated safe working load stamped on in place thereof and any other existing load marks which are contrary to the de-rated safe working load must be obliterated.
- 14.6 All logsheets/logbooks appertaining to the lifting equipment, including those for components e.g. hooks, etc., must be endorsed to show that the safe working load has been de-rated and the reasons therefore.

15. STENCILING OF LIFTING EQUIPMENT

- 15.1 Every crane must be stencilled with the following particulars:
 - 15.1.1 Number.
 - 15.1.2 Safe working load (in kilograms below 1 000 kilograms and in tons and decimals thereof for 1 000 kilograms and over) and where applicable:
 - 15.1.3 The maximum radius at which the safe working load can be lifted.
- 15.2 When stencilling the safe working load on cranes the abbreviation SWL must be used.
- 15.3 This stencilling must be maintained in a legible condition. Where necessary, i.e. in locomotive sheds, the stencilling must be cleaned of dirt, soot, etc., at regular intervals.
- A notice bearing the wording: "This crane may only be operated by staff who have been certified competent in terms of Code of Practice No. 30 and are in possession of a valid TNTB operators card.." must be displayed in a prominent place in crane cabs.
- 15.5 This information must be stencilled, under competent supervision, in a prominent position on the crane, as follows:

TYPE OF CRANE	POSITION IN WHICH INFORMATION MUST BE STENCILLED
Overhead electric and hand operated overhead travelling cranes, "Goliath" type cranes, etc.	On both sides of the overhead cross girder of the crane.
Hand, steam, petrol or diesel powered travelling jib	On both sides of the crane jib.



cranes (including break down cranes). Monorail jib cranes, Morgan and scotch derricks, self supporting and wall mounted swing jibs. Truck mounted jib cranes, etc.	
Portal and wharf cranes, "Titan" type cranes. Container handling cranes, etc.	On both sides of the portal structure facing the direction of travel.
Runways, of the single longitudinal girder type, etc	At suitable intervals on both sides of the longitudinal girder.

 Note: On runways over tracks used by steam locomotives the safe working load may be stencilled on both ends of the girder or in some other prominent position outside the area affected by smoke. The logsheet for the runway concerned must be endorsed accordingly.

Gantries (consisting of two uprights and a fixed cross member).	On both sides of the cross member or prominently on both sides of one of the uprights.
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• **Note:** A suitable board, securely attached to the appliance, may be used instead of stencilling in some applications.

16 RECORDS

16.1 EQUIPMENT FILE

- 16.1.1 Each piece or set of equipment subject to this Code of Practice shall have a file.
- 16.1.2 This file will be the responsibility of the *user*.
- 16.1.3 The file shall contain the following for the particular piece of equipment if applicable:
 - 16.1.3.1A copy of the initial contract for the procurement.
 - 16.1.3.2The initial Load test certificates.
 - 16.1.3.3All defect reports during the warranty period.
 - 16.1.3.4All jobcards for maintenance work done.
 - 16.1.3.5All accident reports related to the equipment.
 - 16.1.3.6All service bulletins and equipment updates.
 - 16.1.3.7All authorisations for repairs including drawings.
 - 16.1.3.8All authorisations for modifications including drawings.
 - 16.1.3.9All authorisations for welding including drawings.
 - 16.1.3.10All authorisations for special lifts e.g. overloads etc..
 - 16.1.3.11All authorisations for exemptions of this Code of Practice.
 - 16.1.3.12All logsheets older than one year.
- 16.1.4 Should there not be such a file for that piece of equipment or if it got lost or destroyed the fist items in the new equipment file should be affidavits by both the *supervisor* and the *user* as well as other relevant parties, explaining the reasons for the creation of a new file. Copies of these affidavits must also be sent to the Group Risk Manager, Transnet with all the details of the equipment.
- 16.1.5 This equipment file must be kept by the *user* for at least five years after the equipment has been scrapped.
- 16.1.6 If equipment is transferred from one *user* to another the equipment file must be transferred with the equipment to the new *user*.

16.2 LOGSHEETS

16.2.1 All load tests, inspections maintenance work etc. must be noted and signed off on the logsheet by a *competent person* or the *examiner*.



- 16.2.2 The logsheet must serve as permanent record of all incidents related to the particular piece of equipment. All incidents related to it must be individually noted on the logsheet.
- 16.2.3 The correct logsheet must be used for the correct type of equipment.

17 PROCUREMENT

- All procurement of equipment, plant and machinery for Transnet which falls under the jurisdiction of this Code of Practice must be done according to the following requirements:
- 17.1 The instructions of the Transnet Tender Rules must be followed as far as the particular business unit is bound by them.
- 17.2 The equipment must be procured and supplied according to specifications approved by a **Professional Engineer** acting within the scope of his/her discipline.
- **Note:** If specifications does not exist for the particular equipment required, it must be drawn up.
- 17.3 The specifications mentioned above must as a minimum in general contain the following requirements and information:
 - 17.3.1 Description of the general requirements.
 - 17.3.2 Operating Conditions.
 - 17.3.3 Performance requirements including requirements for:
 - 17.3.3.1Capacity.
 - 17.3.3.2Expected economical life.
 - 17.3.3.3Safety standards.
 - 17.3.4 Quality Standards required (Generally along ISO 9001 lines)
 - 17.3.5 Legal requirements.
 - 17.3.6 Ergonomical requirements
 - 17.3.7 Documentation requirements including:
 - 17.3.7.1 Material certificates.
 - 17.3.7.2Load test certificates.
 - 17.3.7.3 Operations and maintenance manuals.
 - 17.3.7.4Spares lists.
 - 17.3.8 Training requirements.
 - 17.3.9 Warranty requirements.
 - 17.3.10 Service and back up requirements.
 - 17.3.11 Requirements for delivery and commissioning.
- 17.4 The technical recommendation for the equipment must be approved by a *Professional Engineer*.



17.5 It is advisable not to buy any equipment from a supplier who is not willing to supply his/her equipment with adequate and proper certification, documentation, training, warranty and after sales service.

18 HIRED EQUIPMENT

- 18.1 All machinery, plant and equipment which would fall under the jurisdiction of this code of practice must be supplied with the necessary certification.
- The above mentioned machinery, plant and equipment must be treated as Transnet property and the necessary documentation must be issued for it.
- All the stipulations such as regular examinations and the required performance tests as required by this Code of Practice must be complied with as the user is still responsible for the safety of the equipment.
- Note: The responsibility for regular inspections may contractually rest with the lessor. However if the period of inspection is more than that prescribed by this Code of Practice, parallel inspections according to the requirements of this Code of Practice must be carried out.

19 RENTING OUT OF TRANSNET EQUIPMENT

- 19.1 All machinery, plant and equipment which would fall under the jurisdiction of this code of practice and is rented out to any private concern must be supplied to the lessee with the necessary certification.
- 19.2 These above mentioned machinery, plant and equipment stays the property of Transnet and it must be ensured that the equipment is maintained in a proper and safe condition.
- 19.3 Thus regular inspections must be done on the equipment according to the stipulations of this Code of Practice.
- **Note:** It must be ensured that the lessee is contractually bound to the stipulations of this Code of Practice. Should this not be possible or practical the business unit that is renting out the machinery, plant and equipment must carry the responsibility and cost for ensuring that the relevant examinations and performance testing is done,



20 AMENDMENTS

- 20.1 This Code of Practice will be amended from time to time as it will need to change in order to stay relevant and practical.
- 20.2 The reasons for amendments can be placed the following categories :
 - 20.2.1 Statutory environment changes.
 - 20.2.2 Changes in the company structure
 - 20.2.3 Practicality changes.
 - 20.2.4 Changes in technology.
- 20.3 Any **user** of this Code of Practice may propose changes to it be it business units or employees of the Transnet group. Proposed amendments must be sent to the Group Risk Manager, Transnet on Form A-1.
- 20.4 Each proposal will be considered on its own merits as well as on the impact it will have on the company.
- 20.5 Changes in legislation that directly affects this Code of Practice will force a mandatory amendment to it.
- 20.6 Each amendment will be approved by Transnet's CEO, or someone delegated by him in writing, before issue.
- 20.7 Amendments will only be sent to registered holders of copies of this Code of Practice.
- 20.8 Each amendment will be entered by the holder into the amendment register in the front of the Code of Practice.
- 20.9 Each amendment will come with instructions about the removal and destroying and replacement of certain pages. These instructions must be followed as failure to do so will out date the particular copy of the Code of Practice.
- 20.10 When the amount of amendments become impractical a complete new issue of this Code of Practice will be issued.

21 DISTRIBUTION

21.1 In order to ensure that all holders of this Code of Practice receives amendments, a distribution list for this Code of Practice will be held by the issuer - The Group Risk Manager, Transnet.



- 21.2 Each distributed copy will have an unique number.
- 21.3 Each holder of a copy of this Code of Practice will be personally responsible to inform the Group Risk Manager, on the provided tear off forms, of:
 - 21.3.1 A change of address;
 - 21.3.2 A change of owner ship of the code
 - 21.3.3 Receipt of amendments.
- 21.4 Any requests for copies of this Code of Practice must be addressed to The Group Risk Manager Transnet, Transnet Park, Parktown.

22 RELEVANT ADRESSES

The Group Risk Manager Transnet,

Transnet Park, PARKTOWN

The Lifting Equipment Census Authority

Room 420 27 Hoek street BRAAMFONTEIN

The Director (Mechanical)

Occupational Safety

Dept of Labour Private bag X117

PRETORIA

0001

The Transnet Lifting Equipment Inspection Authority

(TLEIA)

c/o The Group Risk Manager

Transnet Park, PARKTOWN

Mr A S le Roux Mr C A Möller
Chief Executive
(Spoornet) (Petronet)
Room 1114 Room 107

Umjantshi House 202 Smith Street

JOHANNESBURG DURBAN

Mr I Funnell Mr N P Mageza
Chief Executive Chief Executive
(Autoret)

(Portnet) (Autonet) Room 603 Room 313

101 De Korte Street Autonet Building

BRAAMFONTEIN 2 Carse O'Gowrie Road

PARKTOWN

Me. Hazel Ralefeta Mr M F Myburgh Managing Director Chief Executive

Viamax (Pty) Ltd (Airways)
Ground Floor 6th Floor
Cradock Place Airways Park



10 Arnold Road Jones Street

ROSEBANK JOHANNESBURG INTERNATIONAL AIRPORT

Mr L R Raath Mr van Jaarsveld
Acting Chief Executive Chief Executive Officer

(Promat) Room 100

11th Floor Apron Handling Building
Promat Centre JOHANNESBURG INTERNATIONAL AIRPORT

27 Stiemens Street BRAAMFONTEIN

Mr D W Janisch

Chief Executive Manager

(Protekon) Room 800 Union Square Building

80 Plein Street JOHANNESBURG

JOHANNESBURG

Mr C Smit Chief Executive Manager

(Transwerk)

Room 1, Transwerk Park

Lynette Street Kilnerpark PRETORIA

Mr A Strauss
Executive Manager
Transnet Heritage Foundation
South Station Building
Cnr. Eloff and De Villiers Streets
JOHANNESBURG

Mr A M E Schultze Chief Executive

(Transtel) Level 4 FORUM III Braampark

BRAAMFONTEIN

Mr M G S Mackintosh General Manager (Property) 12th Floor

Room 1200 Total House 209 Smit Street BRAAMFONTEIN



CODE OF PRACTICE NO. 29

Part 3: Equipment Instructions

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CODE OF PRACTICE No.29 PART 3: EQUIPMENT INSTRUCTIONS





Part 3: Equipment Instructions

1. **PURPOSE**

- 1.1 The purpose of this section of this Code of Practice is to determine firstly the general inspection procedure for plant and machinery, with emphasis on lifting equipment, within Transnet.
- 1.2 Secondly its purpose is to determine the inspection, testing as well as design, manufacturing and/or procurement criteria procedures for particular groups of equipment.
- 1.3 Thirdly it's purpose is to do all of the above aimed at specified equipment which are in some cases unique to Transnet.

2. **REFERENCES**

- 2.1 Occupational Health and Safety Act and Regulations Act 85 of 1993
- 2.2 Original Equipment Manufacturer's (OEM) operating, maintenance and inspection and testing instructions and manuals.
- 2.3 High mast light instructions.
- 2.4 Transnet Code of Practice No. 30.
- 2.5 Transnet Code of Practice No. 7
- 2.6 Relevant SABS Standards including:
 - 2.6.1 SABS 1126
 - 2.6.2 SABS 1144
 - 2.6.3 SABS 1358
 - 2.6.4 SABS 1594
 - 2.6.5 SABS 1599
 - 2.6.6 SABS 1636
 - 2.6.7 SABS 1637
 - 2.6.8 SABS 1638
 - 2.6.9 SABS 1639
 - 2.6.10 SABS 1640
- 2.7 Relevant BS Standards including:
 - 2.7.1 BS 466
 - 2.7.2 BS 2573 Parts 1 & 2
 - 2.7.3 BS 3481
- 2.8 Relevant ISO Standards



3. **GENERIC TEST AND EXAMINATION PROCEDURE**

- 3.1 The testing of the equipment must be undertaken by a competent artisan , delegated by the Supervisor to undertake these duties. He must be conversant with the maintenance of the equipment he is required to test.
- The mass piece used for testing purposes must be within 2.5% of the actual mass prescribed for the test.
- 3.3 The test piece must be lifted evenly without jerking or swaying to the height stipulated, maintained for at least one (1) minute under normal as well as under E-stop conditions and thereafter lowered in the same manner.
- 3.4 Immediately after the test, the artisan conducting the test must thoroughly examine the appliance for signs of damage or defects which may become apparent as a result of the test. These defects, if any, must be endorsed on the applicable logsheet for the attention of the Supervisor and the logsheet cancelled.
- **Note**: Damage or defects which are apparent before the test, must at the discretion of the Supervisor, be repaired prior to the test being undertaken.
- 3.5 The artisan conducting the test must endorse on the relevant logsheet the following detail:
 - 3.5.1 Mass of test load used, in kilograms
 - 3.5.2 Date of test
 - 3.5.3 Whether test was satisfactory or not
 - 3.5.4 Result of the post-test examination
 - 3.5.5 His name and signature
 - 3.5.6 Any comments he might have
- 3.6 The Supervisor in charge of the artisan undertaking the test must countersign the entry on the relevant logsheet, to certify that the test was properly conducted.

This competent artisan is known as an examiner (See definition 2.4 & 2.11)



4. GENERIC EQUIPMENT INSTRUCTIONS

4.1 HOISTS, CHAIN- AND ROPE PULLEY BLOCKS AND ASSOCIATED EQUIPMENT

- 4.1.1 Chain blocks, pull lifts, hand-, electric, or pneumatic powered hoists, equipped with link or roller load chains, must be tested annually to 1,25 times their maximum safe working load. The entire length of load chain, except for one half turn around the sprocket, gypsy or load sheave, must be run out and carefully examined. The test load must then be lifted to a height of 50% of the length of chain so run out. This will ensure that the entire length of chain and the hook is subjected to the test load. The entire length of chain, including that around the sprocket, gypsy or load sheave, must be thoroughly examined.
- 4.1.2 Where appliances are permanently fixed and operate in one location only, the test load i.e. 1,25 times maximum safe working load must be placed flat on the ground under the appliance and then lifted from this position, through 50% of the normal working height of the appliance. The full length of chain must be carefully examined for defects, damage or wear on completion of the test.
- 4.1.3 If an electric or pneumatic powered hoist is not capable of lifting 1,25 times it's safe working load, it must be tested to 1,1 times it's safe working load. The chain must be removed and tested with the hook to 1,25 times the safe working load of the powered hoist. The entire length of the chain and hook must be thoroughly examined on the completion of the test.
- 4.1.4 Hand-, electric-, or pneumatic powered hoists equipped with steel wire hoist ropes must for purposes of examination and testing be regarded as overhead cranes. The hooks (and cross heads where applicable) fitted on such hoists must be removed and tested at the prescribed intervals.
- 4.1.5 It is not necessary that chain blocks, pull lifts, suspended scaffold hoist (of the manually operated drum type), hauling blocks and single or multiple sheave blocks purchased from private industry, be tested prior to being placed in service if a manufacturer's test certificate is provided. Such test certificates will remain valid for one year from the date the equipment concerned was placed in service.



- Note: Where the above mentioned equipment is operated under cover of a manufacturer's test certificate, the test certificate number and date the equipment was placed in service must be reflected on the applicable logsheet.
- Electric or pneumatic powered hoists equipped with link or roller load chains must be tested before being placed in service irrespective of whether a manufacturer's test certificate is provided.
- 4.1.6 Chain blocks, electric or pneumatic hoists, pull lifts, rope pulley blocks and suspended scaffold hoists must have a factor of safety of not less than 5. Hauling and pulling blocks must have a factor of safety of not less than 4. Steel wire rope and natural or man made fibre ropes shall have a factor of safety as prescribed in clause 6.26 of Part 3 of this Instruction.
- 4.1.7 Rope pulley blocks, chain blocks, electric and pneumatic hoists, pull lifts, pulling and hauling blocks, suspended scaffold hoists etc., must be examined at least once every month in a systematic manner, by the examiner and the result of this examination be recorded on the applicable logsheet.
- 4.1.8 Rope pulley blocks, chain blocks, electric and pneumatic hoists, pull lifts, suspended scaffold hoists, pulling and hauling blocks, etc. must have stamped on them the following particulars
 - 4.1.8.1 Number
 - 4.1.8.2 Safe working load in kilograms below 1 000 kg and in tons and decimals thereof, for 1 000 kg and over.
 - Note: The markings are to appear in addition to the existing capacity markings of the manufacturer.
- 4.1.9 The marking of the above mentioned particulars on rope pulley block sheaves of light construction may be carried out using an electric stylus marking device instead of stamping with figure or letter types, if so desired.
- 4.1.10 Sheave blocks for rope pulley blocks must be individually numbered by means of a suffix a or b following the unit number. Sheave blocks for rope pulley blocks must as far as possible not be interchanged. Where it is necessary to replace one sheave block in the unit this sheave block must



be correctly numbered with the applicable unit number and suffix.

- 4.1.11 Suspended scaffold hoists of the manually operated drum type i.e. where the hoisting wire is manually wound around a drum to effect lifting action, must be tested annually to 1,25 times their maximum safe working load over a lifting height of not less than 5 metres. The full length of steel wire rope must be carefully examined for defects, damage or wear.
- 4.1.12 Hauling and pulling blocks, and suspended scaffold hoists, of the type where pairs of friction jaws progressively grip and pull against a steel wire rope, must be tested annually to 1,25 times their maximum safe working load, after being stripped, examined and repaired if necessary. The full length of steel wire rope must be examined for defects, damage or wear.
- Note Hauling and pulling blocks are included as it is possible that they could be used for lifting a load at any time.
- 4.1.13 Single or multiple sheave blocks that are used in conjunction with hauling blocks, snatch blocks, and similar sheave blocks must be tested annually by suspending them from a fixed point and applying the under mentioned test loads for a period of at least one minute.
 - 4.1.13.1**Single sheave blocks**: Test load to be 2.5 times the maximum safe working load of the sheave block concerned.
 - 4.1.13.2**All other multiple sheave blocks**: Test load to be 2 times the maximum safe working load of the sheave block concerned.
- **Note** There is no objection to single or multiple sheave blocks being tested in a chain testing machine
- 4.1.14 Fibre or steel wire rope must be removed from rope pulley block assemblies and the single or multiple sheave blocks must be tested (including the bracket) annually to the test loads specified in clause 4.1.14 of part 3 of this Instruction. The fibre or steel wire rope must be carefully examined for defects, damage or wear before being replaced on the assembly.



- 4.1.15 If the hooks and/or chains on chain blocks, pull lifts, hand-, electric-, and pneumatic hoists fitted with load chains, and hauling blocks, are found to be damaged or defective they must be scrapped and replaced by a new hook or chain. Repairs to these components are not permitted.
- 4.1.16 Where shackles, rings, chains, etc., are used to suspend chain blocks, pull lifts, hoists, pulley blocks, etc., they must receive regular attention as prescribed.
- 4.1.17 The prescribed testing of rope pulley blocks, chain blocks, electric and pneumatic hoists, pull lifts and hauling blocks and suspended scaffold hoists, may be done by the respective Supervisors provided that suitable facilities are available and that the prescribed procedures are rigidly adhered to.

4.2 **BINS**

- 4.2.1 Bins for handling sand, swarf and other materials must be examined at least once every three months by the examiner and the result of this examination be recorded on the applicable logsheet.
- 4.2.2 Only bins of a design which has been approved by a Graduate Engineer and which have successfully passed a proof loading of twice the intended safe working load, before being placed in service, may be used for the handling of materials in areas where staff are working. Also, that during design, due cognisance is taken of the type of material to be handled, the methods of handling to be employed as well as the magnitude of the loads involved.
- 4.2.3 The safe working load, in kilograms, must be stencilled prominently on all bins for handling sand, swarf and other materials.
- 4.2.4 Bins must be tested to twice the safe working load before being placed in service and after heavy repairs. The results of these tests must be endorsed on the applicable logsheet.

4.3 BULK CARGO BUCKETS AND SCOOPS

4.3.1 Bulk cargo buckets and scoops must be examined at least once every three months by the examiner and the result of this examination be recorded on the applicable logsheet.



4.3.2 The safe working load, in kilograms, must be stencilled prominently on all bulk cargo buckets and scoops.

4.4 GRABS OWNED BY TRANSNET

- 4.4.1 Mechanical or hydraulic grabs must be examined at least once every three months by the examiner, or where such grabs are used for loading or off-loading ships, on completion of the loading or off-loading of the ship concerned, by the examiner.
- 4.4.2 The results of the examination in terms of clause 4.4.1 must be recorded on the applicable logsheets No. 9 and 66.
- 4.4.3 The operating chains (where fitted) on grabs must be tested at least once every year and the result of this tests be recorded on the logsheet No. 66 applicable to the operating chain concerned.

4.5 LADLES

- 4.5.1 Foundry ladles fitted with tilting mechanism and the lifting beam assembly of all ladles must be examined at least once every month by the examiner and the result of this examinations be recorded on the applicable logsheets No. 9 and 66 respectively.
- 4.5.2 The lifting beam assemblies fitted on ladles, including components such as hooks, rings, links, etc. must be regularly tested at the periods as prescribed.
- 4.5.3 The safe working load, in kilograms, must be stencilled on all lifting beam assemblies fitted to ladles.

4.6 BULK CARGO BUCKETS AND SCOOPS

- 4.6.1 Cages, platforms and similar type bulk cargo buckets and scoops for the raising or lowering of persons must be designed for that purpose only, have a factor of safety of not less than ten and be approved by a Professional Engineer.
- 4.6.2 The elevating mechanism and controls must be examined at least once every month by the examiner and the result of this examinations be recorded on the applicable logsheet No. 9.
- 4.6.3 The lifting appliance concerned must be tested to full capacity (Safe Working Load) prior to being placed in service and after every heavy repair and the safe working load that may be lifted must be clearly stencilled on the appliance.



4.7 LIFTING AND WORK PLATFORMS

- 4.7.1 Lifting and work platforms (hydraulic, mechanical and mobile) must be examined at least once every month by the examiner and the results of this examinations be recorded on the applicable logsheets.
- 4.7.2 Lifting and work platforms must be tested to 110% of it's safe working load prior to being placed in service and after every heavy repair and the safe working load that may be lifted must be clearly stencilled on the appliance.
- Note The operator must examine and test the unit functionally after it has been assembled, before use, and also before use at the commencement of each shift.
- 4.7.3 Permanently installed work platforms with an adjustable height for maintenance to the outside of rolling stock in workshop areas, must be examined systematically at least once every three months by the examiner and the result of this examinations be recorded on the applicable logsheets.

4.8 **SKY-CLIMBERS**

- 4.8.1 Powered scaffold hoists "Sky-climbers" are used either single or in multiples to raise or lower boatswains chairs, work-cages or platforms (with or without extensions) and must be examined at least once every three months by the examiner and the result of this examinations be recorded on the applicable logsheets.
- 4.8.2 The safety device and the optional automatic safety device must be stripped and tested functionally by a competent person, with experience of the maintenance of this equipment, at least once every two years.
- **Note** The functional test for the safety device requires that the steel wire rope be pulled through the unit sharply, to test the locking ability of the safety device.
- 4.8.3 The functional test for the optional automatic safety device requires that the independent safety rope be slackened to test the locking ability of the optional automatic safety device. This optional automatic safety device is provided as a safety measure should the steel wire rope break or slacken whilst the unit is in service.



- 4.8.4 The complete assembly must be thoroughly examined and tested functionally by the operator prior to use.
- 4.8.5 The powered scaffold hoists must be individually numbered and the safety devices and optional automatic safety devices, because they are easily detachable, must also be individually numbered.

4.9 SHEAR LEGS, TRIPODS AND DERRICK POLES

- 4.9.1 Shear legs, tripods and derrick poles must be examined at least once per month by the examiner and the result of this examinations be recorded on the applicable logsheets.
- 4.9.2 The safe working load, in kilograms, must be clearly stencilled in a prominent position on all shear legs, tripods and derrick poles.
- 4.9.3 The shackle and bolt at the head of the shear leg or tripod (and where provided on derrick poles) is subject to test procedures as prescribed.

4.10 WINCHES

- 4.10.1 Winches used for the lifting of loads must be systematically examined at least once every month by the examiner.
- 4.10.2 Winches which are not used for the purpose of lifting loads must be systematically examined at least once every six months by the examiner.
- 4.10.3 The result of these examinations must be recorded on the applicable logsheets.

4.11 **ELECTROMAGNETS**

- 4.11.1 Electromagnets used in conjunction with cranes for lifting purposes must have the under mentioned information stamped in a prominent place on all such electromagnets.
 - 4.11.1.1Positive identification number.
 - 4.11.1.2Rated load (capacity) of the magnet in kilograms.
 - 4.11.1.3 Mass of magnet in kilograms.



- **Note** Manufacturer's name plates, indicating the serial number, type, capacity, etc., of the magnet must not be removed from such electromagnets.
- 4.11.2 Electromagnets used in conjunction with cranes for lifting purposes, must be examined at least once per month by the examiner.
- 4.11.3 At least once every six months such electromagnets must be subjected to an insulation test to earth and a continuity test of the coils. At the same time the terminal box and plug connections must be cleaned and checked.
- 4.11.4 The result of this examinations and tests must be recorded on the applicable logsheet No. 9.
- 4.11.5 Where supporting chain slings or bridles are provided on magnets, these attachments must be covered by a logsheet No. 66 and must be regularly examined and tested in terms of extant instructions.

4.12 AIRCRAFT CABIN LOADERS AND HYDRAULIC CARGO HOISTS

- 4.12.1 Aircraft cabin loaders and hydraulic cargo hoists must be systematically examined at least once every month by the examiner and be tested functionally to 110% of it's safe working load before being placed in service, after every heavy repair and thereafter at yearly intervals.
- 4.12.2 The result of this examinations and tests must be recorded on the applicable logsheet No 9.
- 4.12.3 Manufacturers name plates, indicating the safe working load of aircraft cabin loaders and hydraulic cargo hoists must be retained and where not provided the safe working load must be stencilled in a prominent position.

4.13 MOTOR VEHICLE LIFTS

- 4.13.1 Motor vehicle lifts must be systematically examined at least once every month by the examiner and be tested functionally to 110% it's safe working load (capacity) before being placed in service, after every heavy repair and thereafter at yearly intervals.
- 4.13.2 The result of this examinations and tests must be recorded on the applicable logsheet No. 9.



4.13.3 Manufacturers name plates, indicating the capacity of motor vehicle lifts must be retained and where not provided, the safe working load (capacity) must be stencilled in a prominent position.

4.14 LIFTING BELTS

- 4.14.1 All lifting belts, e.g. belts for traction armatures, manufactured to drawing *CME 3164/15-000*, must be examined at least once every month by the examiner and be tested at least once per annum to 1,5 times the safe working load.
- 4.14.2 The result of this examinations and tests must be recorded on the applicable logsheet No. 9.
- Note The SABS is in the process of drawing up a Standard / Code of Practice for the inspection and testing of textile lifting belts. When it is accepted please refer to that code of Practice / Standard.

4.15 **BOATSWAINS CHAIRS**

- 4.15.1 Boatswains chairs must be examined at least once every month by the examiner and the result of this examinations be recorded on the applicable logsheet No. 9.
- 4.15.2 Boatswains chairs shall be so constructed as to prevent any occupant from falling there from and must be securely attached to prevent unintended detachment from the lifting medium.



 Note In the case of boatswains chairs of open construction, e.g. the marine type, the chair shall be fitted with a lifeline which shall be securely fastened around the occupant's waist to prevent the occupant from injury, should he fall from the chair.

4.16 TRACK LAYING GANTRIES

- 4.16.1 Track laying gantries and rail loaders must be examined at least once every month by the examiner and be tested to 110% of it's safe working load before being placed in service, after every heavy repair and thereafter at yearly intervals. This test must be carried out by a reliable and competent person.
- 4.16.2 The result of this examinations and test must be recorded on the applicable logsheets.
- 4.16.3 The safe working load must be stencilled in a prominent position on all gantries and loaders.
- 4.16.4 Lifting components used in conjunction with track laying gantries, and rail loaders i.e. scissors grips, etc., must be examined, tested and logged in accordance with extant instructions applicable to this type of equipment.

4.17 LIFTING BAGS AND ANCILLARY EQUIPMENT

- 4.17.1 Lifting bags and ancillary equipment, including regulators, control units, hoses, etc. must be examined at least once every three months by the examiner.
- Note During this examination, and after use, the
 examiner must inflate the lifting bags and check the bags for
 damage or leaks and check that the pressure regulators,
 relief valves, gauges, etc., are working correctly according to
 the manufacturers specification to ensure that the equipment
 is always in good working order for future use.
- 4.17.2 The result of this examinations must be recorded on the applicable logsheets.
- 4.17.3 A separate logsheet must be provided for each individual numbered item of the unit e.g. pressure regulators, control units, lifting bags, etc., because of the possible inter-change of items between units.



- 4.17.4 In addition to this examinations the equipment must be visually examined before use by the operator and leaking lifting bags and/or faulty regulators or control units must not be used for lifting purposes.
- 4.17.5 Manufacturers labels indicating the maximum lifting capacity and pressure must be retained on the lifting bags. Should the manufacturers labels be defaced or removed the maximum lifting capacity and pressure must be painted on the lifting bag.

4.18 **JACKS**

- 4.18.1 All manually operated jacks, with a lifting capacity in excess of two ton and a lifting height in excess of five hundred millimetres, must be systematically examined at least once every three months by the examiner.
- 4.18.2 Type A track jacks are exempted from the provisions of this clause, provided they are not used at any time to lift loads under which staff will be required to work.
- Note The lifting height of a jack is defined as the difference in height from the fully lowered position to the fully raised position.
- 4.18.3 All power-operated jacks, excluding those which form part of a machine designed for a purpose other than that of a jack, must be systematically examined at least once every month by the examiner.
- 4.18.4 The result of this examinations must be recorded on the applicable logsheets.
- 4.18.5 All jacks must have the following particulars stamped on them.
 - 4.18.5.1Number
 - 4.18.5.2Safe working load, in kilograms, below 1 000 kg and in tons and decimals thereof from 1 000 kg and over.
 - Note The above mentioned markings are to appear in addition to the existing markings of the manufacturer.

4.19 TRESTLES



- 4.19.1 For purposes of this instruction the term trestle shall be deemed to mean any device, whether adjustable or otherwise, used to support loads, e.g. motor vehicles or rail wagons undergoing repairs, etc. and on or under which staff may be required to work.
- 4.19.2 Trestles must be properly designed by competent staff and the design must be approved by a Professional Engineer. A registered and approved drawing must be prepared for each design.
- 4.19.3 Trestles must have the design safe working load in kilograms and the identification number clearly stencilled on the trestle in a prominent place.
- 4.19.4 Trestles must be examined before use by the person using the trestle and at least once every six months by the Examiner. The results of the examination undertaken by the Examiner must be recorded on a logsheet (Transnet No.9) (Form A4).
- 4.19.5 All such entries to include date, Examiner's signature and identification number of trestle, in addition to the condition report.
- 4.19.6 Defective, deformed or damaged trestles must be withdrawn from service for scrapping or repair. Steps must be taken to ensure that such damaged or defective trestles are not inadvertently used.
- Note A large number of drawings for various types of trestles are available from the Executive Manager (Transwerk) Killer Park. Requests for drawings must include full details of the type of trestle required, the mass to be placed on the trestle and the purpose for which the trestle will be used.
- 4.19.7 Trestles bought need not comply to 4.19.2 but must be supplied with a test certificate or else it must be thoroughly examined and a performance test of 2 x SWL must be done by a competent person. The SWL must be clearly stencilled in a prominent place on the new trestle before placing it in service.

4.20 LADDERS

4.20.1 All ladders, including telescopic, extension, free standing or self-supporting ladders, must be examined at least once



every six months by the Examiner and also before use by the person using the ladder.

- 4.20.2 The result of this examination of each ladder must be recorded on a Transnet Logsheet No.9
- 4.20.3 Fixed vertical ladders are to be constructed according to drawing *CME 1920/15-000* or to a design approved by a Professional Engineer.

5. CRANES

5.1 GENERAL

- 5.1.1 All types of cranes must be examined, tested and operated in terms of the act and the instructions contained herein. The following general list of cranes are subject to these regulations:
 - 5.1.1.1 Wharf cranes
 - 5.1.1.2 Container handling wharf cranes
 - 5.1.1.3 Container handling stacking and road/rail transfer cranes
 - 5.1.1.4 Overhead electric travelling cranes
 - 5.1.1.5 Mobile cranes (road or rail mounted travelling jib cranes including steam, petrol and diesel powered jib cranes)
 - 5.1.1.6 Breakdown cranes (steam and diesel powered)
 - 5.1.1.7 Gantries and runways of the single girder type and similar lifting structures
 - 5.1.1.8 Hand operated portable jib cranes
 - 5.1.1.9 Self-supporting or wall mounted swing jibs
 - 5.1.1.10Truck mounted jib cranes. (hydraulic or mechanically operated)
 - 5.1.1.11Cranes and derricks mounted on floating craft
 - **Note**: This list is not complete and is only to be considered for general purposes.
 - Note: Davits, used for purposes other than lifting or launching lifeboats on quays, vessels, etc., are subject to the provisions of this section..
- 5.1.2 All cranes must be examined for defects and wear at least once every month in a systematic manner, by the examiner. Multi-column gantries and crane rails on which overhead cranes operate must be examined for defects, etc., at least



once every six months, by the examiner and the result of this examination is to be endorsed on the relevant logsheets.

- 5.1.3 Mobile cranes must be staged on a level surface whilst any work is being carried out on the crane. The vehicle's hand brake must be applied and sufficient wedges or blocks placed in front of the wheels to prevent inadvertent movement of the crane if the hand brake should fail.
- 5.1.4 Supervisors must satisfy themselves that all cranes under their control are examined and certified to be in a satisfactory working condition before placing them in service.
- 5.1.5 Before cranes are placed in service, after every overhaul, and when re-erected on a new site they must be tested to an overload of twenty five per cent above the safe working load and thereafter, a yearly performance test of ten per cent above the safe working load over the complete lifting range.
- 5.1.6 Cranes may only be operated by staff who are certified competent in accordance with Code of Practice No. 30 (Instructions for Boiler Attendants, Operators and/or Divers of Plant), controlled by the General Manager (Infrastructure).

5.2 BREAKDOWN CRANES (STEAM AND DIESEL POWERED)

- 5.2.1 Breakdown cranes must be examined after returning from a breakdown. The results of this examination must be endorsed on the relevant logsheets.
- 5.2.2 Breakdown cranes whilst employed on breakdown duties at the scene of accidents are exempt from the provisions regarding overloading, but the officer-in-charge of the breakdown operations must assume responsibility for the safe working of the crane and all staff working in conjunction with the crane during such operations.
- 5.2.3 The officer in charge of breakdown operations must be a competent person or else another competent person with enough authority to overrule the officer in charge must be appointed as the responsible person and he must be present during such overload lifts.

5.3 GANTRIES AND RUNWAYS OF THE SINGLE GIRDER TYPE AND SIMILAR LIFTING STRUCTURES

5.3.1 For the purpose of this instruction a gantry is defined as a lifting structure consisting of two uprights and a single fixed



cross-member and does not include gantries with multiple uprights on which overhead cranes travel. Such multiple upright gantries are considered as an integral part of the overhead crane.

- 5.3.2 Gantries in the service of Transnet must at all time be in a safe condition and clearly marked with the safe working load. (In kilograms below 1 000 kilograms and in tons and decimals thereof for 1 000 kilograms and over).
- 5.3.3 Before a gantry is used, the Artisan must do an inspection for defects and the result of this inspection must be endorsed in the relevant logbook.

5.4 HAND OPERATED PORTABLE JIB CRANES

- 5.4.1 Hand operated portable jib cranes having link or roller type load chains must be tested annually to 1,5 times their maximum safe working load.
- 5.4.2 Hand operated portable jib cranes equipped with steel wire hoist ropes must be treated the same as cranes. Where hooks are permanently fixed to the telescopic jibs, i.e. by welding or riveting, and which for some reason cannot be modified so that the hook can be detached, the hook together with the first section of the telescopic jib or beam to which it is attached must be sent to a Transnet workshop for testing.

5.5 SELF-SUPPORTING OR WALL MOUNTED SWING JIBS

5.5.1 Where swing jibs are used in a position where they may interfere with the operation of an overhead electric travelling crane, they must be painted a bright yellow colour to render them as conspicuous as possible. The painted jibs must be kept clean and re-painted when necessary.

5.6 TRUCK MOUNTED JIB CRANES. (HYDRAULIC OR MECHANICALLY OPERATED (THE "HIAB" TYPE))

- 5.6.1 Truck mounted jib cranes must be tested to the safe working load applicable to the crane.
- 5.6.2 Gantry type appliances mounted over truck platforms must not be considered as truck mounted cranes and the instruction relevant to gantries, chain blocks or hoists are applicable.



 Note Before use of a Truck mounted jib crane may be used, a daily task must be done and the relevant logsheet 385 must be completed.

5.7 CRANES AND DERRICKS MOUNTED ON FLOATING CRAFT

5.7.1 Cranes and derricks mounted on barges, lighters, pontoons or other floating craft and used for grab-dredging or lifting purposes are subject to the requirements as for cranes.

5.8 **CRANES LIFTING PERSONS**

- 5.8.1 Cranes or similar lifting machines may only be used to raise or lower persons provided that the crane or lifting machine is operated by a operator with proper certification.
- 5.8.2 In the case of a mobile crane the following is required:
 - 5.8.2.1 the crane must be properly secured on its outriggers
 - 5.8.2.2 the persons who are being hoisted must be effectively anchored to the cage, platform, etc.
 - 5.8.2.3 The cage, platform, etc must be fitted with an additional unstressed sling over the hook.

6. STEEL WIRE AND FIBRE ROPES USED ON LIFTING EQUIPMENT

- 6.1 Steel wire and fibre rope slings, crane ropes and other ropes used for the purposes of lifting, lowering or suspending loads must be examined at least once every month by the examiner and the result of this examinations be recorded on the applicable logsheet No. 10.
- 6.2 Steel wire or fibre ropes which form an integral part of any appliance must be examined at the prescribed periods for the appliance concerned, except that ropes fitted on cranes used in applications where the steel wire rope is subject to severe heat e.g. handling molten metal must be examined at least once every two weeks.
- When damage in a steel wire rope is suspected, white spirits must be used to thoroughly clean specific sections of the steel wire rope to enable further inspections. Under no circumstances must paraffin be used for this purpose.
- 6.4 A metal label must be securely attached to all coils or drums of steel wire rope supplied to Transnet indicating the rope classification, number and size of rope and the coil or reference number. Supervisors must ensure that this information is inserted on the relevant logsheets when the rope is used for lifting purposes.



- 6.5 For a logsheet No. 10 to be a valid certificate the applicable line, i.e. in the case of new logsheets the first line, columns 1 and 2 must bear the date of manufacture of the sling or rope and the endorsement "New sling/rope issued, manufactured from Grade steel wire rope to Specification ..." (or in the case of fibre ropes or slings (both natural and manmade fibre) "New sling/rope issued, manufactured from fibre rope purchased to Specification"), followed by the signature of the person who prepared the sling or rope, and the signature of his Technical Supervisor in control of the shop in which the sling or rope was manufactured or prepared, which are to be reflected in columns 3 and 4 respectively.
- When slings or ropes used for lifting purposes, are prepared or manufactured, the manufacturing depot must issue the required certificate. In the case of the replacement of existing slings or ropes, the relevant logsheet must be certified and in the case of new slings or ropes a new logsheet must be provided and certified.
- 6.7 Steel wire rope slings made from new steel wire rope in a Transnet workshop, must have the steel wire rope manufacturer's name, certificate or coil number and date of manufacture for the new rope inserted on the logsheet.
- 6.8 Slings manufactured by workshops outside Transnet shall be supplied with a load test certificate as well as the information required by 6.7
- 6.9 A permanent record, in book form, is to be maintained by each manufacturing workshop of all slings made and the Technical Superintendent of the shop concerned shall regularly peruse, date and initial this record, to ensure that it is properly maintained.
- 6.10 In regard to separable lifting tackle assemblies such as four legged steel wire rope slings, lifting beams with steel wire rope components, etc., an identification number for the complete unit may be used and this number, together with a suffix (a, b, c or d, etc.) may be used to identify each individual component concerned. One logsheet must be used for all the steel wire or fibre rope components of each assembly. (Iron or steel components are certified on a logsheet No. 66).
- Full information in respect of each component constituting the assembly must be reflected against its specific suffix, on the logsheet concerned.
- 6.11 The safe working load for the assembly must be clearly stamped on the ring or other end unit. Instances where it is necessary to interchange steel wire ropes or components on essential lifting tackle



assemblies (i.e. container handling spreaders) the Supervisor may decide to allocate an individual number to each detachable steel wire rope or component and an individual number for the beam or spreader.

- 6.12 In these cases a separate logsheet No. 10 must be provided for each steel wire rope or for each set of steel wire ropes concerned, with a suitable logsheet for the lifting beam or spreader.
- 6.13 Natural and man-made fibre rope used in various applications should, as far as possible be of the types and sizes specified in the under mentioned specifications.

6.14 Natural fibre rope

Manila (Grade 2)	Specification or sisal SABS 911-1980 Table 2
Cotton	Specification SABS 911-1980 Table 5

6.15 Man-made fibre rope

Polyamide (Nylon)	Specification BS 4928 Part 2 1974 Table 1 36
Polyester	Specification BS 4928 Part 2 1974 Table 2
Polyethylene	Specification BS 4928 Part 2 1974 Table 3
Polypropylene	Specification BS 4928 -1973 Table 1

- 6.15.1 (Manila grade 2 ropes are identified by a black thread in the centre of each of two strands of the rope and sisal ropes are identified by a red thread in the centre of one strand. Fibre ropes not being so identified should not be used for lifting purposes as they could be a lower quality rope. Cotton rope is not recommended for lifting purposes as it is very much weaker, size for size, than both manila and sisal rope. The practical working mass loads of the various types of fibre ropes are listed on drawing CME 9195/0-000).
- 6.15.2 Fibre ropes and fibre rope slings used for handling loads must be spliced only by competent, qualified persons. It is preferable that such ropes or slings be manufactured or spliced in a Transnet workshop.



- 6.15.3 The relevant identification details for the coil of fibre rope from which a fibre rope sling was made, must be recorded in the right hand top corner of the logsheet.
- 6.15.4 Fibre rope, especially man-made fibre rope, is susceptible to damage by various acids and other chemicals and deteriorates when continually exposed to direct sun-light and to the weather. Care must thus be taken when storing fibre rope and/or fibre slings, so that the possibility of undue damage or deterioration is eliminated.
- 6.16 All steel wire rope and fibre rope slings, except flat woven fibre lifting slings and stringers on fruit skids, must be fitted with a standard black washer in one of the soft eyes or on the main rope, stamped with the following particulars:
 - 6.16.1 Depot or station code mark
 - 6.16.2 Departmental code mark
 - 6.16.3 Number of sling
 - 6.16.4 Safe working load (in kilograms)
- 6.17 If preferred by manufacturers, the particulars in accordance with clause 6.16 can be engraved on the aluminium alloy ferrule used for splicing steel wire ropes by using a round stylus tip.
- 6.18 If however, manufacturers prefer stamping, it can be done to the following specifications:
 - 6.18.1 Ferrule code No. 8 to 16 : 3 mm high x 0,5 mm deep
 - 6.18.2 Ferrule code No. 17 to 24 : 4 mm high x 0,8 mm deep
 - 6.18.3 Ferrule code No. 25 to 40 : 5 mm high x 1.0 mm deep
 - 6.18.4 Stamping on ferrules smaller than code No. 8 is not permissible.
- 6.19 Stringers of fruit skids must be fitted with a copper ferrule in place of the standard black washer. The particulars required in clause 6.16 must be stamped on the copper ferrule.
- 6.20 Flat woven fibre lifting slings must be clearly marked with the particulars required in terms of clause 6.16 Such marking must be printed in clear capital letters, using a black marking pen on a specially provided label or on the body of the sling.



- 6.21 The above mentioned identification or other particulars of all ropes or slings must also be recorded on the applicable logsheet in the spaces provided.
- Where steel wire rope is inseparably attached to a metal other than wrought iron, forging or casting by means of hand or machine splicing the steel wire rope may, if necessary, be subjected to the same test load as is applied to the metal forging or casting.
- 6.23 Where fibre ropes are inseparably attached to a metal forging or casting by means of splicing, the fibre rope must be cut off prior to the test load being applied to the metal forging or casting, unless the test can be conducted without damaging or overloading the fibre rope.
- 6.24 After the test has been completed a new rope must be spliced, or the existing rope (after examination) must be re-spliced, to the metal component.
- 6.25 Detachable interconnecting shackles must be used to connect steel wire or fibre rope slings to cumbersome lifting beams or spreaders, where it is impractical because of size or mass, to test or manufacture such assemblies as a unit.
- 6.26 A safety factor of six at least shall be used in the design calculations for all steel wire rope slings. A safety factor of ten at least shall be used in the design calculations for all natural or man-made fibre rope slings.
- 6.27 The safe working loads of two, three or four-legged slings must be reduced as the angle between the legs increases. An included angle of 120 degrees for any two legs is the maximum permitted angle, and when legs are so spaced, the safe working load is one half that at 0 degrees, i.e. the load capacity of one leg of the sling. The load reduction factors to be employed as the angle between the legs increases are as follows:

Included angle between	0°	30°	60°	90°	120°
legs					
Load reduction factor	1.0	0.96	0.86	0.7	0.5

EXAMPLE:

A one-leg sling:

Angle 0° safe working load 1 000 kg

A two-legged sling:

Included angle between legs:



0°	safe working load	2 000 kg
30°	safe working load	1 920 kg
60°	safe working load	1 720 kg
90°	safe working load	1 400 kg
120°	safe working load	1 000 kg

- 6.28 Under no circumstances may one leg of a two-legged sling assembly be used to lift a load in excess of half the indicated safe working load of the assembly.
- 6.29 For the purpose of calculating safe working loads, three and four-leg slings are to be treated as two-leg slings. The ring or other top-end unit on a three or four-leg sling must therefore be stamped with the safe working load applicable to a two-leg sling.
- 6.30 The provisions of clause 6.29 do not apply where multiple steel wire rope slings are attached to lifting beams, spreaders, etc., which are designed to flex under uneven load distribution.
- Steel wire rope slings must not be used in applications where the sling is subject to severe heat, e.g. handling molten metal.
- 6.32 Steel wire or fibre rope slings must not be used at Bosch tanks or chemical baths where the rope and splicing ferrule may be subjected to the corrosive effect of the chemicals used.
- 6.33 It is preferable that steel wire rope slings are not provided with a permanent covering of any kind, e.g. rubber hose, foam plastics, etc., however where it is essential that such protection for loads be provided, the length of the covering must be less than half of the length between splicing ferrules or splices and such covering must be free to move over the full distance between splicing ferrules or splices.

7. STEEL WIRE OR FIBRE ROPES ON OTHER APPLIANCES

- 7.1 Once a steel wire rope fitted to a coaling appliance has been found to be defective and replacement of the steel wire rope has been recommended on the logsheet, the examiner must examine the steel wire rope concerned at least once every two weeks until the steel wire rope is replaced. The results of these examinations must be recorded on the relevant logsheet.
- 7.2 Whilst it is not usually considered necessary to examine steel wire or fibre ropes which are not used for lifting purposes, there are some applications where the failure of a steel wire or fibre rope used for haulage, etc., could have serious consequences. In these instances



there is no objection to the steel wire or fibre ropes used in these applications being treated in the same manner as those used for lifting purposes.

- 7.3 Wherever practicable, the steel wire or fibres ropes fitted to appliances shall be of sufficient length to provide at least three full turns on the drum at all times.
- 7.4 Steel wire ropes fitted to appliances used for lifting purposes, must be free of joints and must be of a construction and diameter which is suited to the diameter of the drums and sheaves over which they are to operate.
- 7.5 Steel wire ropes fitted to appliances used for lifting purposes, other than those mentioned specifically in this instruction, must have a factor of safety of at least six.
- 7.6 Steel wire ropes fitted to appliances other than those used for lifting purposes must have a factor of safety of at least four. Fibre ropes either natural or man-made fitted to appliances other than those used for lifting purposes must have a factor of safety of at least eight.
- 7.7 Cranes used in applications where the rope is subject to severe heat, e.g. when handling molten metal in foundries, must be fitted with a steel wire rope having an Independent Wire Rope Core (I.W.R.C.).
- 7.8 Steel wire ropes on cranes used in applications where the rope is subjected to severe heat must be examined at least once every two weeks.
- 7.9 Steel wire ropes on wharf cranes used for "grabbing", i.e. using grabs to load or unload bulk commodities, must be examined at least once every two weeks by the examiner during the period they are used for grabbing purposes. The results of these examinations must be recorded on the relevant logsheet.
- 7.10 Once a steel wire rope fitted to a wharf crane has been found to be defective and replacement of the steel wire rope has been recommended by the examiner (or the Supervisor) on the logsheet, the examiner must examine the steel wire rope concerned at least once every two weeks until the steel wire rope is replaced. The results of these examinations must be endorsed on the relevant logsheet.
- 7.11 The safety factor for steel wire rope used on cranes, varies considerably, dependent upon the type of crane, the purpose for which it is used, and the intensity of use.



- 7.12 As a general rule it can be accepted that the safety factor for running steel wire ropes on cranes must equal or exceed the figures quoted below:
 - 7.12.1 Mobile road type cranes : Not less than 5.0
 - 7.12.2 Wharf and container handling cranes: Not less than 8,0
 - 7.12.3 All cranes not listed above : Not less than 6,0
 - 7.12.4 The safety factor for standing ropes on cranes should not be less than 5.0.
- 7.13 Steel wire ropes fitted on cranes must be free of joints and must be of sufficient length to provide at least three full turns on the drum when lowered to the lowest working position. Steel wire ropes fitted on cranes must be of a construction and diameter which is suited to the diameter of the drums and sheaves over which they are to operate.
- 7.14 The rope used to support the conveyance or balance mass piece on a goods hoist must be such that the breaking load of the rope is at least six times the maximum working load for the hoists. When the load is equally shared by two or more ropes the factor of safety may be calculated with respect to the sum of their breaking loads.
- 7.15 Steel wire ropes fitted on goods hoists must be free of joints and must be of sufficient length to provide at least three full turns on the drum at all times.
- 7.16 Synchrolift hoist wires must meet the requirements of specification *No. 43-219* (Specification for steel wire rope for synchrolift).
- 7.17 Steel wire rope must be discarded and not used again for the purpose of lifting loads if:-
 - 7.17.1 In any length of rope equivalent to ten diameters of the steel wire rope concerned, the total number of **VISIBLE BROKEN WIRES** exceeds 5% of the total number of wires:

 OR
 - 7.17.2 The steel wire rope shows signs of damage or kinking which could reduce the load carrying capacity of the steel wire rope:

OR



7.17.3 The steel wire rope shows signs of severe external and/or internal corrosion.

OR

7.17.4 The core of the steel wire rope is broken and/or protrudes through the lays of the steel wire rope:

OR

7.17.5 It shows signs of excessive chafing, wear or undue uneven wear, e.g. flats on the area of the strands:

OR

- 7.17.6 The steel wire rope shows signs of other defects which reduce the load carrying capacity of the steel wire rope.
- 7.18 In order to determine the condition of the core and to establish if the internal corrosion is present, it is necessary for the examiner to periodically open the lays of the steel wire rope at suitable distances along the length of the rope, using a marlin spike.
- 7.19 Flat woven man-made fibre lifting slings are made of nylon, polyester, or polypropylene filament yarn and must be purchased in accordance with British Standard Specification Number 3481: Part 2. However, as the British Standard Specification No. 3481 uses a factor of safety of six and Transnet requires a factor of safety of ten, this discrepancy must be taken into account when establishing the size of sling required, prior to placing the order.
- 7.20 Flat woven man-made fibre lifting slings must be examined throughout their length for surface chafe, cross or longitudinal cuts in the webbing, cuts or other damage to the selvedges and any deficiency in the stitching or damage to the eyes. Where metal end fittings are provided these must be examined for defects.
- 7.21 The effective length of a flat woven man-made fibre lifting sling must be measured as shown in drawing MTV 517 Sheet 26 (Page xix).
- 7.22 Flat woven man-made fibre lifting slings are to be used in the configurations as shown in drawing MTV 517 Sheet 27 (Page xx).

8. LIFTING TACKLE COMPONENTS

- 8.1 Materials specified and used by Transnet for use in the manufacture of lifting tackle components fall within four basic metallurgical categories, namely:
 - 8.1.1 Wrought iron (Grade A)
 - 8.1.2 Mild steel (Grade 300)



- 8.1.3 Higher tensile steel (Grades 400 and 500)
- 8.1.4 Alloy steel (high tensile steel, grades 700 and 800)
- Note: The tensile strength of the materials used to manufacture a component increases progressively from wrought iron through to alloy steel.
- Therefore a hook manufactured from mild steel will be, dimensionally, considerably larger than a hook of the same capacity manufactured from alloy steel.
- It is therefore most important that Supervisors insist that staff under their control look at the safe working load stamped on a lifting tackle component prior to using it to lift a mass. A lifting tackle component must not be subjected to loading above the safe working load stamped on the component.
- It is a very dangerous practice to use the physical size of a lifting tackle component as a measure of the components' load carrying ability e.g. the person concerned who may in the past have used alloy steel components and uses the comparative size of these components as a guide could in practice end up using a wrought iron component with half the load carrying capacity.
- 8.2 Lifting tackle and lifting tackle components for manufacture, must be designed and approved by a Professional Engineer prior to commencement of manufacture and prints of this approved designs must be forwarded to the General Manager (Infrastructure) for record purposes.

8.3 WROUGHT IRON

- 8.3.1 Transnet is systematically phasing out lifting tackle components and chains manufactured from wrought iron and new or replacement lifting tackle components must no longer be manufactured from wrought iron.
- 8.3.2 The repair of defective or damaged lifting tackle components or chains, manufactured from wrought iron, must only be undertaken in special circumstances. Where possible all defective or damaged lifting tackle components and chains manufactured from wrought iron must be replaced by components or chain manufactured from steel.
- 8.3.3 Lifting tackle components and chain, except pitched chain, manufactured from wrought iron must be annealed, as prescribed in extant instructions, at the periods prescribed.



- 8.3.4 The annealing of lifting tackle components and chains manufactured from wrought iron must be undertaken only in a workshop of Transnet.
- 8.3.5 Where existing inseparable lifting tackle assemblies contain components made from mild steel or where chain manufactured from wrought iron has in the past been repaired with links made from mild steel the whole assembly or chain must be annealed (including the mild steel components). However if the lifting tackle assembly or chain requires further repair the wrought iron components must be scrapped and suitably substituted with steel components or chain.
- 8.3.6 Pitched chains (i.e. chains which engage on a pitched sprocket or gypsy for driving purposes) manufactured from wrought iron are exempt from annealing. All such chains must be tested annually to 1,5 times the safe working load during which time the pitch of the chain must be checked to ascertain whether or not stretching has taken place.
- 8.4 **MILD STEEL** (Grade 300)
 - 8.4.1 Transnet purchases lifting tackle components manufactured from mild steel to the under mentioned specifications :
 - 8.4.1.1 **Chain**: Specification SABS 251: 1971 Long link steel chain (Grade 300) for general purposes. (Not to be used for the manufacture of lifting equipment).
 - Note: Short link chain is purchased dimensionally to Specification SABS 189: 1971 and with material strength to Specification SABS 251: 1971, this chain is suitable for lifting purposes.
 - 8.4.1.2 **Hooks**: Forged steel hooks for chains, slings, blocks and general engineering purposes. (Manufactured to Specification BS.482 which is obsolete and has been withdrawn).
 - 8.4.1.3 **Ramshorn hooks** : Specification BS.3017 : 1958 Ramshorn Hooks.
 - 8.4.1.4 **Shackles** : Specification SABS 812 : 1973 Mild Steel Shackles.
 - 8.4.2 Lifting tackle which consists of mild steel chain or components must be designed to have a safety factor of six, at least.



8.5 **HIGHER TENSILE STEEL** (GRADES 400 AND 500)

- 8.5.1 Transnet purchases lifting tackle components, manufactured from higher tensile steel, to the under mentioned specifications:
 - 8.5.1.1 **Chain**: Specification SABS 189: 1971 Short link steel chain (Grade 400) for lifting purposes.
 - Note: Grade 500 steel chain is purchased to the above specification except that the material must have a minimum breaking strength of 500 MPa.
 - 8.5.1.2 **Hooks**: Specification BS 2903: 1970 Higher tensile steel hooks.
 - 8.5.1.3 **Shackles** : Specification BS 3032 : 1958 Higher tensile steel shackles.
- 8.5.2 Lifting tackle consisting of higher tensile steel chain or components must be designed to have a safety factor of five, at least.
- 8.6 **ALLOY STEEL** (HIGH TENSILE STEEL, GRADES 700 AND 800 also Hergalloy & Rogtuff)
 - 8.6.1 At present no recognised standards organisation specification is available for alloy steel lifting tackle components.
 - 8.6.2 Lifting tackle consisting of alloy steel chain or components must be designed to have a safety factor of four, at least.
 - 8.6.3 Due to its' hardness alloy steel chain and lifting tackle components are more susceptible to fracture from the "notch effect" and lifting tackle components or chain manufactured from this grade of steel must be protected from "nicking" or "notching".
- 8.7 Lifting tackle components are defined as, lifting beams, spreaders, chains, rings, links, hooks, shackles, some eyebolts, plate or girder grips, armature lifting caps, and similar.
 - 8.7.1 All lifting tackle components must be examined at least once every month by the examiner.
 - 8.7.2 All lifting tackle components must be tested to the prove load at the periods as specified in these instructions.



- 8.7.3 It is not necessary that lifting tackle components purchased from private industry be tested prior to being placed in service if a manufacturer's test certificate is provided. Such test certificates will remain valid until the testing is again required in terms of extant instructions, calculated from the actual date placed in service, i.e. where extant instructions require that a component be tested annually, the test certificate will remain valid for one year after the date the component was placed in service, thereafter the component must be sent to a Transnet workshop for testing.
- 8.7.4 Where a lifting tackle component is operated under cover of a manufacturer's test certificate the test certificate number and date and the date the component was placed in service must be reflected on the applicable logsheet.
- 8.7.5 Where, because of size or capacity, it is impractical to test lifting tackle components, such as lifting beams, spreaders, etc., these components must be carefully examined, by the examiner, at the periods prescribed for testing after approval for this has been obtained in writing from a Professional Engineer.
 - 8.7.5.1 This approval must be filed in the equipment file and a copy must be attached to the logsheet.
 - 8.7.5.2 All the detachable components used in conjunction with, and attached to, the component mentioned above, must however be removed and, if practical, subjected to the prescribed testing procedures.
 - Note: The Supervisor must in all cases concur that it is impracticable to test the lifting tackle components in question.
 - 8.7.5.3 In all cases where the examination of lifting tackle components result in defects, damage or other unsatisfactory features, being logged by the examiner, the Supervisor must arrange for the component to be repaired or replaced.
- 8.7.6 The results of the above mentioned examinations and test must be endorsed on the relevant logsheet No. 66 or logsheet No. 9 in the case of lifting beams or spreaders fitted with mechanical, hydraulic or electrical operating equipment.



- 8.7.7 Where an inseparable lifting tackle assembly is made up of components of a similar category of material, i.e. wrought iron or steel etc., only the end unit must be typed with the identification particulars.
- 8.7.8 Components of dissimilar categories of material, e.g. wrought iron, mild steel etc., must not if possible, be inseparably joined together.
- 8.7.9 Detachable interconnecting shackles must be used in all composite assemblies where it is necessary to :
 - 8.7.9.1 Connect wrought iron components to steel components or to steel wire or fibre rope.
 - 8.7.9.2 Connect components manufactured from different categories of steel, e.g. mild steel to alloy steel.
 - 8.7.9.3 Connect steel wire or fibre rope slings or other lifting tackle components to cumbersome beams or spreaders, where it is impractical, because of size, etc., to manufacture or test such an assembly as a unit.
- 8.7.10 Hooks, shackles, etc., fitted to cranes and hoists must also be marked by typing with the information required. Usually in these cases the crane or hoist number is used as the identification number. Where two or more hooks, shackles, etc. are fitted on a single crane a suffix (a, b, c or d, etc.) can be included in the identification number.
- 8.7.11 When lifting tackle components are annealed, tested or repaired the existing code marks and identification numbers must be examined and, if necessary, be re-stamped to provide a clear and legible marking.
- 8.7.12 When chains and other lifting tackle components are used for handling molten metal, the safe working load typed on the component must be de-rated by 25% and the new safe working load thus obtained must not be exceeded.
- 8.7.13 Workshops must type the applicable safe working load on the component and must not type the de-rated safe working load on components destined for use in handling molten metal.
- 8.7.14 Chains or lifting tackle components must not be used, without prior authority from the head of the business division



or business unit concern, in applications where the temperature of the said chains or lifting tackle components can exceed 400°C.

8.7.15 Requests for the above-mentioned authority to use chains or lifting tackle components subject to severe heat conditions must include all details of the application involved, the mass to be lifted and details of chains or lifting tackle components it is proposed to use.

8.8 PERIODS AT WHICH LIFTING TACKLE MUST BE TESTED AND THOROUGHLY EXAMINED:

DESCRIPTION	TEST AND THOROUGH LY EXAMINE AT LEAST ONCE EVERY
Wrought iron chain slings including those forming part of a lifting tackle assembly or lifting beam	6 months
Steel chain slings (including those forming part of a lifting tackle assembly or lifting beam). Wharf - crane hook and chain assemblies. Foundry ladle lifting beam assemblies and wrought iron or steel chain fitted on cranes, chains on grabs, (other than those used for loading, or off-loading ships), twist-locks	12 months
Lifting beams, spreaders, plate and girder clamps and lifting tackle components (i.e. hooks, cross-heads, shackles, rings, links, turnbuckles, eyebolts, armature lifting caps, etc.) up to and including 10 000 kilogram capacity	12 months
Lifting beams, spreaders, and lifting tackle components (i.e. hooks, cross heads, shackles, rings, links, turn buckles, eyebolts, etc.) over 10 000 kilogram but under 25 000 kilogram capacity	36 months
Lifting beams, spreaders, and lifting tackle components (i.e. hooks, cross heads, shackles, rings, links, turn buckles eyebolts, etc.) of 25 000 kilogram capacity and over	60 months
Chains on grabs used for loading or off-loading ships	On completion of loading or off loading of the ship



concerned

8.9 PERIODS AT WHICH LIFTING TACKLE MUST BE ANNEALED

DESCRIPTION	ANNEAL AT LEAST ONCE EVERY
Wrought iron chain slings (including those forming part of a lifting tackle assembly or lifting beam)	6 months
Wrought iron chains fitted to cranes, wrought iron wharf crane hook and chain assemblies, wrought iron lifting beams and foundry ladle lifting beam assemblies	12 months
Wrought iron lifting tackle components (i.e. hooks, cross-heads, shackles, rings, links, turnbuckles, eyebolts etc.) up to and including 10 000 kilogram capacity	12 months
Wrought iron lifting tackle components (i.e. hooks, cross-heads, shackles, rings, links, turnbuckles, eyebolts etc.) over 10 000 kilogram but under 25 000 kilogram capacity	36 months
Wrought iron lifting tackle components (i.e. hooks, cross-heads, shackles, rings, links, turnbuckles, eyebolts, etc.) 25 000 kilogram capacity and over.	60 months

8.10 TEST LOADS TO BE APPLIED WHEN TESTING LIFTING TACKLE DESCRIPTION TEST LOAD TO BE APPLIED

DESCRIPTION	TEST LOAD TO BE APPLIED
Wrought iron and steel chain slings	2 .x SWL
Wrought iron or steel wharf crane hook and chain assemblies, wrought iron or steel chain fitted on cranes, wrought iron or steel chains on grabs	2 x SWL
Wrought iron or steel, foundry ladle lifting beam assemblies, lifting beams and spreaders, plate and girder clamps, turnbuckles, twistlocks	1.5 x SWL

Wrought iron or steel lifting tackle components (i.e. hooks, cross-heads, shackles, rings, links, eyebolts, armature



lifting caps, etc.)	
Up to and including 50 000 kilogram capacity	2 x SWL
Over 50 000 kilogram capacity but under 100 000 kilogram capacity	SWL + 50 000 kilogram
100 000 kilogram capacity and over	1.5 x SWL

- 8.11 All lifting tackle components must be typed with the under mentioned particulars using steel letter or numeral types:
 - 8.11.1 Depot or station code mark
 - 8.11.2 Departmental code mark
 - 8.11.3 Number of component or assembly
 - 8.11.4 Safe working load (in kilograms)
- 8.12 In addition the grade of the material from which the component has been manufactured must be typed on the component. This figure being enclosed in a suitable size circle viz.:

 - Note: Each component in a separable composite assembly must be marked with the above mentioned information. Only the main component (end unit) of an inseparable composite assembly (i.e. where components are not readily detachable) must be marked. The individual components must not be marked.
- 8.13 The typing of identification or other details in areas other than those specified is not permitted.
 - **Note:** The use of punch marks (by using a blunt punch) to determine the throat opening of hooks is permitted.



- 8.14 The above mentioned details must be typed only in the areas depicted in the drawings MTV 517 Sheets 28 to 40 (See pages xxi to xxxii).
- 8.15 The maximum allowable wear on lifting equipment is as follows:

8.15.1 **HOOKS**:

8.15.1.1 Maximum wear is -15% of original cross section.

Maximum throat opening is +15% of original opening for mild steel hooks only.

8.15.2 **SHACKLES**:

8.15.2.1 Maximum wear is -15% of original cross section at any point of the shackle.

8.15.3 RINGS, LINKS AND EYEBOLTS:

8.15.3.1Maximum wear is -15% of original cross section at any point of the ring, link or eyebolt.

8.15.4 **CHAINS**:

8.15.4.1Maximum wear is -15% of original cross section at any point. Maximum permissible stretch of chain link is +3% above the standard length measured over the outside of the link.

8 16 **HOOKS** ·

- 8.16.1 The threads on the shank and nut of all hooks, eyebolts, etc. fitted to cranes or lifting tackle, having a capacity of 25 000 kilograms and over, must be examined at least once every three years, and after testing, by the artisan responsible for the maintenance of the crane or lifting tackle. The threads must be properly cleaned and examined and the wear established by screwing the nut on the shank thread and checking the free-play. On hooks under 25 000 kilograms capacity the threads must be examined whenever the hooks are tested.
- 8.16.2 In the case of hooks of 25 000 kilograms and over the results of the above mentioned examination must be recorded on the relevant logsheet No. 66.



- 8.16.3 Gin-blocks fitted to cranes must be so designed as to permit the hook and cross-head to be removed for testing.
- Note: Existing gin-blocks which do not meet this requirements may be retained in service provided the Supervisor concerned is satisfied that it is possible to test the complete gin-block as a unit.
 - 8.16.4 All hooks, which will be used for lifting purposes, manufactured in Transnet workshops must be tested by the magnetic crack detection method immediately after manufacture. This test will be in addition to the normal overload test.

8.17 HOOKS FOR BREAKDOWN WORK

- 8.17.1 In some applications connected with breakdown work, it is necessary to use a hook with the point cut back as illustrated in drawings MTV 517 sheets 41 & 42 (Pages xxxiii and xxxiv).
- 8.17.2 This modification is only permitted on hooks which are used for the express purpose of clearing wreckage, etc., from the scene of accidents, derailments, etc.
- 8.17.3 Request to modify hooks for breakdown work must be approved by the Regional Engineer (Mechanical Equipment and Vehicles) concerned.
- 8.17.4 Where authority is approved the reference and date of the authority must be endorsed on the relevant logsheet.

8.18 WHARF CRANE HOOK AND CHAIN ASSEMBLIES

- 8.18.1 Wharf crane hook and chain assemblies manufactured from wrought iron must be stripped completely for annealing and testing. All components must be thoroughly examined before re-assembly.
- 8.18.2 Wharf crane hook and chain assemblies manufactured from steel must be partially stripped for testing. The nuts on the hook and eyebolts must be removed and after the threads have been examined, must be temporarily replaced, without the thrust races for testing.



- 8.18.3 The pins may be examined in position, however if there is doubt as to their condition, the pins must be removed for further examination. All components must be thoroughly examined before the thrust races and nuts are replaced.
- 8.18.4 Before replacing the nuts on eyebolts and hooks of hook and chain assemblies during final assembly, the artisan must check the "free play" of the threads by screwing the nuts onto the threads.

8.19 SHACKLES

- 8.19.1 The pins on shackles must be secured in such a manner that they cannot be accidentally dislodged during lifting operations. Where shackles form part of an inseparable lifting tackle assembly, or where the shackles are so positioned that it cannot be seen by the user, the pins of the shackles must be secured as depicted on drawings MTV 517 Sheets 33 & 34. Screwed pin shackles may be used where it is necessary to detach shackles during lifting operations.
- 8.19.2 It is acceptable that shackle pins are integral parts of the shackle and, as such, must be subjected to testing and certification in conjunction with the shackle. When shackles are sent for testing, etc., the shackle pins must accompany the shackle.
- 8.19.3 Where practicable shackle pins must be stamped with the identification number for the shackle plus the appropriate suffix on the end of the pin. This information must also be endorsed on the logsheet concerned. (It is accepted that smaller size shackle pins do not allow for such marking).
- 8.19.4 Only shackles covered by proof-loading test certificates (provided by the supplier), must be used for lifting purposes.
- **Note:** A type of shackle, known as commercial shackle, is marketed by a number of suppliers. These shackles are not recommended for applications involving the lifting of loads. This type of shackle is not provided with a proof-loading test certificate from the manufacturer.

8.20 **CHAINS**

8.20.1 All steering chains are to be annealed (where applicable) and tested at least once per year.



8.20.2 Chains in lifting tackle assemblies, or used for lifting purposes, must not be used if chain links have been bolted or wired together to effect a repair. The repair of chain links by means of welding may only be undertaken in a Transnet workshop.

8.21 TWIST-LOCKS (USED FOR HANDLING CONTAINERS)

- 8.21.1 Care must be exercised when testing twist-locks to ensure that they are tested for the designed safe working load and are not subjected to loads in excess of the permissible test load (Not more than **0.35 x SWL** of spreader)
- 8.21.2 Under no circumstances may twist-locks be repaired (including repairs by welding or heating). Defective, damaged or worn twist-locks must be discarded and replaced by new twist locks.
- 8.21.3 During the regular periodic examinations the examiner must report on any twist-lock which is bent, deformed or otherwise damaged or where the wear on the twist-lock lips is in excess of that allowed in extant instructions.

8.22 **EYE-BOLTS**

8.22.1 Only eye-bolts which are used for general slinging work are subject to periodic examination and testing. Eye-bolts which are permanently fitted to electric motors, gearboxes, etc., and are used solely for the purpose of lifting the electric motor, gearbox, etc., at infrequent intervals, are exempted from examination and/or testing.

8.23 PLATE AND GIRDER LIFTING CLAMPS

- 8.23.1 Plate and girder lifting clamps must be provided with a locking device which prevents the gripping pawl from disengaging under vibration or when the load on the pawl is suddenly released.
- 8.23.2 The moving parts, such as toggles, cams or pawls, of plate and girder lifting clamps must be examined for wear and damage by an artisan prior to being tested.
- 8.24 **CONNECTING LINKS** (See drawing MTV 517 Sheet 32)



- 8.24.1 Connecting links may be used only in combination with other lifting tackle assemblies or components which are subjected to regular testing.
- 8.24.2 Connecting links are considered as a part of the lifting tackle assembly or component with which it is used e.g. where a connecting link is used to join a length of chain to a hook to make a chain sling, this assembly will be considered as an inseparable assembly.
- 8.24.3 The logsheet No. 66 for the lifting tackle assembly or component fitted with a connecting link, must be clearly endorsed that a connecting link is provided.
- 8.24.4 Where lifting tackle assemblies or components are provided with a connecting link, the connecting link must be examined and tested at the same time as the assembly or component concerned.
- 8.24.5 Connecting link load pins (or in some instances the spring catch which locks the load pin) must be examined at the same time as the connecting link. If the load pin still fits tight into the connecting link and the spring catch is not damaged it can be used again.
- 8.24.6 Where a connecting link is used as a separate component, for breakdown work (derailments), it must be marked in accordance with drawing MTV 517, Sheet 32. The relevant information must be recorded on a separate logsheet.
- 8.25 **SHORTENING CLUTCH** (See drawing MTV 517 Sheet 30)
 - 8.25.1 Shortening clutches may be used only in combination with other lifting tackle assemblies or components which are subjected to regular testing.
 - 8.25.2 Shortening clutches are considered as an inseparable part of the lifting tackle assembly with which they are used.
 - 8.25.3 The logsheet No. 66 for a lifting tackle assembly fitted with a shortening clutch must be clearly endorsed that a shortening clutch is provided.
 - 8.25.4 Where lifting tackle assemblies are provided with a shortening clutch, the shortening clutch must be examined and tested at the same time as the assembly concerned.



8.25.5 Where the bolt or pin which secures the shortening clutch to the lifting tackle assembly is worn or damaged it must be replaced by a correct size bolt or pin provided by the manufacturer of the shortening clutch. Under no circumstances must mild steel bolts or pins be used to replace such worn or damaged bolts or pins in shortening clutches.

8.26 **REEVABLE EGG LINK** (See drawing MTV 517 Sheet 38)

- 8.26.1 Where the bolt or pin which secures the reeveable egg link to the lifting tackle assembly is worn or damaged it must be replaced by a correct size bolt or pin provided by the manufacturer of the reeveable egg link. Under no circumstances must mild steel bolts or pins be used to replace such worn or damaged bolts or pins in reeveable egg links.
- 8.26.2 It is accepted that pins or bolts used to secure reeveable egg links to the lifting tackle assembly are integral parts of the reeveable egg link, and as such, must be subjected to testing and certification in conjunction with the reeveable egg link. When reeveable egg links are sent for testing, etc., the pins or bolts must accompany the reeveable egg link.

8.27 LIFTING BEAMS AND SPREADERS

- 8.27.1 Lifting beams or spreaders must be designed to have a safety factor of four, at least.
- 8.27.2 The results of the examinations and tests on lifting beams and spreaders must be endorsed on a logsheet No. 66, except where lifting beams and spreaders are fitted with mechanical, hydraulic or electrical operating equipment (e.g. container handling spreaders, telescopic spreaders etc.), in which case a logsheet No. 9 must be used for the lifting beam or spreader and a logsheet No. 66 for all detachable lifting tackle components, e.g. rings, twist-locks, etc.
- 8.27.3 When lifting beams or spreaders fitted with mechanical, hydraulic or electrical operating equipment are examined or tested the operating equipment must also be examined and defects or deficiencies must be recorded on the relevant logsheet No. 9.

8.28 TURNBUCKLES (RIGGING SCREWS OR BOTTLE-SCREWS) USED FOR LIFTING PURPOSES

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8.28.1 After turnbuckles have been tested, in accordance with extant instructions, the threaded sections must be carefully examined for wear or damage.



9 MACHINERY, PLANT AND EQUIPMENT

9.1 WIRE GRIPPING DEVICES ("COME-ALONG" CLAMPS)

- 9.1.1 These wire gripping devices are used for tensioning overhead wires and are not used for lifting purposes and therefore are not normally subject to testing.
- 9.1.2 However where this type of device, if defective, could cause injury where it is used by Electrical Department staff, the device must be examined at least once every three months by a competent person and the result of this examination be endorsed on a logsheet No. 9.
- 9.1.3 The above mentioned wire gripping devices must be individually provided with an identification number.
- 9.1.4 When these clamps are used a Crosby type clamp must be used as a safety device but not as the primary form of gripping.

9.2 GRAVING DOCKS

- 9.2.1 All stairways providing access into and out of graving docks must be provided with suitable handrails on both sides.
- 9.2.2 All fixed ladders in graving docks, for use in times of emergency, must be provided with a notice at the bottom of the ladder that is clearly marked "Emergency Exit".
- 9.2.3 A danger zone, clearly indicated in three languages, must be demarcated around all graving docks.
- 9.2.4 Where private contractors make use of suspended platforms in conjunction with wharf cranes to raise or lower persons, work may only be allowed to commence if they conform to the following requirements.
 - 9.2.4.1The platform must be examined at least once every month by a competent person and the result of this examination be recorded in a book kept for this purpose.
 - 9.2.4.2The platform be stencilled with the safe working load in a conspicuous position.



- 9.2.4.3An effective safety device must be used to prevent the platform from falling in case of accidental dislodging of the crane hook from the shackle.
- 9.2.4.4Persons working on these platforms must wear a safety belt of which the rope must be secured to the platform. Should this prove to be impractical, some other effective means must be used to ensure the safety of the people working on the platform.
- 9.2.4.5The contractor must provide the local Risk Management Officer with a safe working procedure for the platform. This procedure must include staff on the dock's edge controlling the platform with ropes.

9.3 PRESSURE AND VACUUM GAUGES

9.3.1 The procedures applicable to the testing, maintenance and handling of pressure and vacuum gauges are detailed in instructions (*Reference*) *PLT.11/15/704*.

9.4 GAS PRODUCER INSTALLATIONS

9.4.1 Gas producer installations must be maintained and operated in accordance with the provisions of the relevant code of practice.

9.5 GRAIN ELEVATOR SHIPPING SPOUTS

- 9.5.1 Power driven shipping spouts at grain elevators must be examined at least once every month by the examiner and the result of this examinations be recorded on the applicable logsheet No. 9.
- 9.5.2 Luffing, slewing or telescopic moving steel wire ropes must be logged on a logsheet No. 10.
- 9.5.3 Staff who are required to operate power driven shipping spouts at grain elevators must be trained and certified competent to operate such spouts, in accordance with the instructions issued in this regard.

9.6 SHOT-BLAST EQUIPMENT AND SHOT-PEENING MACHINES

9.6.1 All shot-blast chambers, shot blast machines and shot-peening machines must be inspected at least once every six months by the local Risk Manager and the *Supervisor* in charge of the maintenance of the equipment.



9.6.2 A joint report compiled by the local Risk Manager and the Supervisor must be submitted to the local Operations Manager detailing the results of the above mentioned inspection.

9.7 PILING PLANTS, INCLUDING THOSE MOUNTED ON FLOATING CRAFT

9.7.1 Piling plants must be systematically examined at least once every month by the examiner and the result of this examinations be recorded on the relevant logsheet No. 9.

9.8 HIGHMAST LIGHTING INSTALLATIONS

- 9.8.1 High mast lighting installations which are provided with a luminare mounting unit which can be lowered, to facilitate the replacement of lamps, etc., and subsequently raised, must be examined and/or tested in accordance with instruction P.027 in this regard, issued by the General Manager, Engineering, Spoornet, Johannesburg.
- 9.8.2 Where detachable hoisting winches or separate man-carrying maintenance cages are provided, individual logsheets No. 9 must be provided for this equipment. Hooks, links, shackles, etc., used in conjunction with this equipment must be examined and tested in accordance with extant instructions and the result of this examinations and tests be recorded on the relevant logsheets No. 66.
 - **Note** Where the above mentioned equipment, or part of the equipment are not in use for long periods, it can be stored provided the procedures as set out in clause 9.5 are observed.
- 9.8.3 Hinged, medium high mast lighting installations (up to 18 metres), both hydraulically and winch operated types, are not considered to be in the same category as high mast lighting installations for the purpose of examination and certification. It is therefore not necessary that these masts be subjected to regular examination. The prerogative remains however with the Supervisor who can, if he so desires, arrange for regular examination of the masts in question.

9.9 HORIZONTAL SLIDING DOORS

9.9.1 All sliding doors fitted to buildings must be provided with a "keep" or other suitable device to prevent the door from becoming accidentally derailed or from collapsing should a derailment occur.



9.10 LIFTS AND ESCALATORS

9.10.1 Supervisors must regularly peruse the lift logbooks and escalator record books held for lifts and escalators under their control to ensure that such lifts and escalators are being examined at the correct intervals and must ensure that lifts are properly maintained.

9.11 GOODS AND MATERIAL HOISTS

9.11.1 Goods and material hoists must be examined at least once per month by the examiner and the result of this examinations be recorded on the relevant logsheet No. 9.

9.12 LIFTING BASKETS

- 9.12.1 Cane lifting baskets must be examined at least once per month by the examiner and the result of this examinations be recorded on the relevant logsheet No. 9.
- 9.12.2 Lifting baskets with their lifting bridles and tipping ropes must be thoroughly examined for broken canes or ropes, chafing, deterioration or any defects which could reduce the safe working load of the basket.
- 9.12.3 Lifting baskets may under no circumstances be subjected to severe heat or be exposed to chemicals which can detrimentally affect the canes or the ropes.
- 9.12.4 All lifting baskets must have their identification particulars and the safe working load, in kilograms, prominently stencilled on a board which is securely attached to the basket.

9.13 HOISTING NETS

- 9.13.1 Hoisting nets of wire or rope must be examined at least once per month by the examiner and the result of this examinations be recorded on the relevant logsheet No. 10.
- 9.13.2 Hoisting nets may under no circumstances be subjected to severe heat or be exposed to chemicals which can detrimentally affect the wires or the ropes.
- 9.13.3 The identification particulars and the safe working load, in kilograms, of all hoisting nets must be stamped on a standard black washer or a copper ferrule which must be fitted to one of the eyes or one of the legs.



9.14 TRANSNET'S EQUIPMENT AT STONE QUARRIES USED BY PRIVATE CONTRACTORS

- 9.14.1 The contractor is made fully responsible for all Transnet's machinery, plant and equipment at stone quarries operated by him in terms of the contract.
- 9.14.2 The contractor is required to operate and maintain all the Transnet machinery, plant and equipment at stone quarries operated by him in accordance with the requirements of the Mines and Works Act and Regulations.

9.15 CHAIN TOW-CONVEYOR INSTALLATIONS

9.15.1 Under-floor chain tow-conveyor installations consist of a driven chain running below floor level, to which platform trolleys or similar trailers are hitched, to tow the said trolleys or trailers from one place to another. These installations are used extensively in the larger goods sheds, etc.

9.16 AIR COMPRESSORS (INCLUDING INTER- OR AFTER COOLERS AND AIR RECEIVERS)

9.16.1 The examination and logging procedure as well as the instructions regarding the maintenance and safe operation of air compressors and air receivers are covered in *Instruction* No. 5334 (THE SAFETY, OPERATION, CARE AND MAINTENANCE OF AIR COMPRESSORS).

9.17 MAN-SAFETY BLOCK

- 9.17.1 This type of safety block is marketed under the trade name, "Sala Safety Block, Type SB57".
- 9.17.2 Safety blocks, including the rope and swivel hook, must be examined and checked for correct operation (by giving the rope a jerk) at least once every month by the examiner.
- 9.17.3 Safety blocks must be subjected to a thorough examination and functional test at least once every year, or after the block has been subjected to a load from a fall, or if any damage is suspected. The block must be completely stripped, all components examined, repaired if necessary and reassembled, in accordance with the manufacturers instructions, prior to being subjected to the required functional test.



- 9.17.4 The results of the above mentioned examinations and tests must be recorded on the applicable logsheet No. 9.
- 9.17.5 Safety blocks, including the rope and swivel hook, must be examined and checked for correct operation (by giving the rope a jerk) prior to use by the operator.

9.18 POWER AND HAND-OPERATED TRAVERSERS AND TURN-TABLES FOR TURNING LOCOMOTIVES

9.18.1 Turn-tables, traversers, both power and hand operated, must be examined at least once every month by the examiner and the results of this examinations be recorded on the relevant logsheet No. 9.

9.19 GRINDING MACHINES AND DISC CUTTERS

- 9.19.1 All disc cutters, pedestal and bench grinders must be examined at least once per month by the examiner and the result of this examinations be recorded on the relevant logsheet No. 9.
- 9.19.2 A notice / symbolic sign must be affixed in a conspicuous position on all fixed general purpose grinding machines, i.e. single and double wheel floor, pedestal or bench grinding machines prohibiting a person from using the grinding machine unless he is wearing the proper eye protection.



- Note This notice / symbolic sign must also be fitted to grinding machines provided with perspex protective eye shields. Perspex protective eye shields are not considered as adequate eye protection.
- 9.19.3 The supervisor concerned shall be responsible for ensuring that suitable adequate eye protection is provided for operators of single-purpose grinding machines, general-purpose grinding machines and for persons who are required to use disc cutters, as part of their duties.
- 9.19.4 Unless the nature of the work precludes its use, all grinding machines must be provided with a substantial guard which shall enclose the grinding wheel as far as practicable and which shall be of sufficient strength to withstand the force of a rupturing wheel.
- 9.19.5 Except in the case where the work piece is not applied to the grinding wheel by hand, every grinding machine must be provided with a substantial, adjustable work rest which shall be securely fixed in position and which shall fit the contour of the grinding surface of the wheel. The surface of the rest should be free of grooves and indentations, i.e. a smooth surface.
- 9.19.6 This work rests shall at all times be kept in position and adjusted as close as practicable to be within three millimetres maximum from the grinding surface of the wheel, unless the nature of any specific operation makes this impracticable.
- 9.19.7 The Supervisor must decide whether dust extraction equipment must be provided or not, depending on the specific application of the grinding machines.
 - **Note** Existing and new dust extraction units must be kept in a good working condition.

9.20 STEEL CHIMNEYS

- 9.20.1 Steel plate chimneys, with their guys and anchorage's, where applicable, must be examined at least once every six months by the examiner and the result of this examinations be recorded on the applicable logsheet No. 9.
- 9.20.2 It is not the intention that small steel plate chimneys, such as are fitted to forges, etc., be included in the scope of this instruction. The Supervisor, in collaboration with the examiner must decide in terms of the possible safety hazard



involved, as to which of the smaller chimneys must be subject to the provisions of these instructions.

9.20.3 Steel wire rope guy-wires must be logged on a logsheet No. 10 and the rope anchorage's must be kept clear of dirt, rubble, grass, etc., for examination purposes.

9.21 SYNCROLIFTS (USED FOR LIFTING VESSELS OUT OF THE WATER)

9.21.1 The winches and hoist wires on synchrolifts must be examined at least once per month by the examiner and the result of this examinations be recorded on the applicable logsheets numbers 9 and 10.



9.22 TELESCOPIC GANGWAYS (USED AT HARBOURS)

- 9.22.1 Telescopic gangways, used at harbours, must be examined at least once per month by the examiner and the result of this examinations be recorded on the applicable logsheet No. 9.
- 9.22.2 The procedures and instructions to be followed by operators of telescopic gangways are detailed in *Part 7 of Code of Practice No. 30 (INSTRUCTIONS TO BOILER ATTENDANTS, OPERATORS AND DRIVERS OF PLANT)*.

9.23 **SAFETY BELTS**

- 9.23.1 Safety belts must be examined at least once every three months by the examiner and the result of this examinations be recorded on the applicable logsheet No. 9.
- 9.23.2 All safety belts must be individually numbered for easy identification.
- 9.23.3 All safety belts used by Transnet's staff must meet the requirements of SABS Specification number 809 (latest). The purchase of safety belts which do not meet the requirements of this specification is not permitted. (Safety belts that meets the requirements of a specification by another recognised standards organisation may after approval of the local Risk Management Officer be purchased)

9.24 REFRIGERATION PLANTS

- 9.24.1 Pre-cooling plants at harbours must be maintained and operated in accordance with standing instructions and those issued from time to time.
- 9.24.2 All doors of refrigeration plant cool rooms, including associated air locks, must be capable of being opened easily and quickly from the inside.
- 9.25 VERTICAL SLIDING DOORS : INDUSTRIAL TYPE, INCLUDING FLIP-UP OR JACK-KNIFE TYPE DOORS, BUT NOT INCLUDING GARAGE TYPE TIP-UP DOORS
 - 9.25.1 The steel wire ropes, pulleys, balance mass pieces and brackets supporting pulleys or balance mass pieces, incorporated in industrial type vertical sliding doors must be examined at least once every six months by the examiner and the result of this examinations be recorded on the applicable logsheets No. 9 and 10.



9.26 AIRCRAFT PASSENGER STEPS

9.26.1 Aircraft passenger steps must be examined at least once every month by the examiner and the result of this examinations be recorded on the applicable logsheet No.9.

9.27 TYRE PRESSES ('DUQUESNE' TYPE OR SIMILAR)

- 9.27.1 Automatic tyre presses must be examined at least once every month by the examiner. During this examination special attention must be given to the balance mass piece supporting ropes.
- 9.27.2 The result of the above mentioned examination must be recorded on the applicable logsheets No. 9 and 10.
- 9.27.3 Where balance mass pieces on automatic tyre presses are so positioned that they constitute a danger to persons, the balance mass pieces must be provided with suitable guards.

10 **GENERAL**

- 10.1 Machine tools, including emery grinders, must be switched off when not in use and must not be allowed to run without the attendance of an operator.
- 10.2 Before a person switches on or uses a machine he must ensure that he does not place himself or other persons in danger.
- 10.3 Gates and doors of safety enclosures at hazardous areas must be provided with suitable notices, and where considered necessary by the Supervisor, must be provided with a positive means of locking to prevent unauthorised entry.
- 10.4 A positive means of ensuring that machinery cannot be operated by unauthorised persons or whilst repair work is in progress, must be provided where considered necessary by the Supervisor.
- 10.5 Artisans (Electrical) or Artisans (Millwright work) who are required to undertake maintenance work on machinery, which has not been electrically isolated by the Electrical Department, must switch off the main isolating switch and lock it in the "off" position with a suitable lock-out device that can accommodate three padlocks. The Artisan must retain the key on his person until the work has been completed and he removes his lock.
- 10.6 The interior of all totally enclosed fixed guards, as well as the area they cover on machinery, shall be painted an orange colour



(specification SABS 1040 Part II - 1978 Paragraph 4.3.2) so that the absence of a guard is easily noticed.

- 10.7 Specifications for new machinery, plant and equipment shall require that all moving parts of such machinery, plant and equipment, be fully and securely guarded or fenced, unless it is not possible to guard such moving parts by virtue of the nature of the operation thereof.
- 10.8 Specifications for machinery, which under operating conditions are noisy, shall specify the maximum acceptable noise level for the operation of such machinery. These levels shall comply with the requirements of Act 85.

11 SPECIFIED EQUIPMENT

11.1 FORKLIFTS AND SIDE-LIFTS

- 11.1.1 Forklifts and side-lifts must be examined at least once per month by the examiner.
- 11.1.2 Forklifts and sidelifts must be tested to 100% of their safe working load through all motions i.e. lifting, tilting, travelling, etc., prior to being placed in service, after every heavy repair and thereafter at yearly intervals. During the above mentioned test the load must be lifted through the full lifting height. This test must be carried out by a reliable and competent person.
- 11.1.3 The result of the above mentioned examination and tests must be recorded on the applicable logsheet No. 9.
- 11.1.4 The safe working load in kilograms must be stencilled on both sides of the uprights (mast).
- 11.1.5 Operators of forklifts and side-lifts, including technical maintenance staff, must be trained in the use of the forklift or side-lift, and in the case of a forklift or side-lift with a lifting capacity of more than 750kg, the operator must be in the possession of a valid Transnet training board certificate for that machine.
- 11.1.6 Persons required to drive forklifts and side-lifts on a public road, must be in possession of a valid drivers licence issued by the appropriate Registering Authority.
- 11.1.7 The wear limit on forks are 10%. When a fork has reached this limit (90% of its original thickness) it must be replaced. The examiner must measure the fork thickness in at least



three fixed places, calculate the percentage wear and record both the thickness and the wear on the logsheet with every regular examination.

11.1.8 The wear limit on load chains are 3% measured over 7 links. The examiner must measure the length of seven links in at least two randomly selected places per chain, calculate the percentage wear and record both the average length and the wear on the logsheet with every regular examination.

11.2 STRADDLE CARRIERS

- 11.2.1 Straddle carriers must be examined at least once per month by the examiner and the result of this examinations be recorded on the applicable logsheet No. 9.
 - Note Where the straddle carrier is subjected to a daily service in accordance with the requirements of Instruction 6017 (Preventive Maintenance Scheme), the required examination should be carried out in conjunction with the daily service and the results recorded on the applicable logsheet No. 9.
- 11.2.2 Straddle carriers must be tested to an overload of 110% the safe working load through all motions, i.e. lifting, travelling, side-shift (where applicable) etc., prior to being placed in service and after every heavy repair. During the above mentioned tests the load must be lifted through the full lifting height. This test must be carried out by a reliable and competent person at low speeds only.
- 11.2.3 The result of the above mentioned tests must be recorded on the applicable logsheet No. 9 and where applicable, on the Preventive Maintenance History Card for the machine concerned.
- 11.2.4 The safe working load, in kilograms, must be stencilled prominently on both sides of the vehicle.
- 11.2.5 Operators of straddle carriers, including technical maintenance staff, must be trained in the use of the straddle carriers, and in the case of straddle carriers with a lifting capacity of more than 5000g, the operator must be in the possession of a valid Transnet training board certificate for that machine.
- 11.2.6 Persons required to drive straddle carriers on a public road, must also be in possession of a valid drivers licence issued by the appropriate Registering Authority.



11.2.7 The wear limit on load chains are 3% measured over 7 links. The examiner must measure the length of seven links in at least two randomly selected places per chain, calculate the percentage wear and record both the average length and the wear on the logsheet with every regular examination.

11.3 FRONT-END LOADERS AND SWING-JIB LOADERS

- 11.3.1 Front-end loaders and Swing-jib loaders, used for purposes other than earth-works, must be examined at least once every month by the examiner and the result of this examinations be recorded on the applicable logsheet No. 9.
- 11.3.2 Operators of front-end loaders and swing-jib loaders, including technical maintenance staff, must be trained in the use of the that machine, and in the case of front-end loaders and swing-jib loaders with a lifting capacity of more than 5000g, the operator must be in the possession of a valid Transnet training board certificate for that machine.
- 11.3.3 Persons required to drive front-end loaders and swing-jib loaders on a public road, must also be in possession of a valid drivers licence issued by the appropriate Registering Authority.

11.4 LOWLIFT AND PALLET TRUCKS

- **Note** Manually operated pallet lifters which have a lifting height of 150 mm or less are excluded from the requirements of this clause.
- 11.4.1 Low lift platform trucks and pallet trucks must be examined at least once every three months by the examiner.
- 11.4.2 Low lift trucks and pallet trucks must be tested to full capacity (safe working load) prior to being placed in service and after every heavy repair, by a reliable and competent person.
- 11.4.3 The result of the above mentioned examination and tests must be recorded on the applicable logsheet No. 9.
- 11.4.4 The safe working load, in kilograms, must be stencilled on both sides of the vehicle.
- 11.4.5 Low lift and pallet trucks may not be used on a public road.
 - **Note** In general persons who are required to operate manually powered vehicles of this type and vehicles



where the operator walks alongside the vehicle whilst operating the vehicle and the lifting capacity is less than 5000kg do not require a certificate of competency.

• The operator must however have received formal training in the operation of the particular piece of machinery.

11.5 REACH STACKER

- 11.5.1 Reachstackers must be examined at least once per month by the examiner and the results of the examinations recorded on the applicable logsheet No. 9.
- 11.5.2 Reachstackers must be tested to an overload of 10% above the safe working load prior to being placed in service and after every heavy repair. Reachstackers must also be tested to 110% it's safe working load annually. The tests must be conducted in accordance with the makers specifications by a reliable and competent person.
- 11.5.3 The safe working load indicated in tons must be displayed in prominent positions on both sides of the reachstacker.
- 11.5.4 Operators of Reachstackers, including technical maintenance staff, must be trained in the use of the machines, and in the case of Reachstackers with a lifting capacity of more than 5000g, the operator must be in the possession of a valid Transnet training board certificate for that machine.

11.6 VARIOUS ATTACHMENTS USED FOR LIFTING PURPOSES FITTED TO, OR USED IN CONJUNCTION WITH, MECHANICAL HANDLING VEHICLES, BULLDOZERS OR TRACTORS

- 11.6.1 All attachments used for lifting purposes fitted to or used in conjunction with mechanical handling vehicles, bulldozers or tractors, must be examined at least once per month by the examiner.
- 11.6.2 All components and attachments used on mechanical handling vehicles for lifting purposes which are subject to testing in terms of this instruction, e.g. hooks, twist-locks, spreaders, etc., must be removed and tested at the stipulated periods. The results of these tests must be endorsed on the correct and relevant logsheet as required in terms of the section of this instruction, concerned.



- 11.6.3 Where possible, the safe working load in kilograms, must be stencilled on both sides of an attachment of this type.
- 11.6.4 All attachments used for lifting purposes fitted to, or used in conjunction with mechanical handling vehicles, bulldozers or tractors, must be individually numbered for identification purposes.