

Transnet Port Terminals

an Operating Division of **TRANSNET SOC LTD**

[hereinafter referred to as **Transnet**]

[Registration No. 1990/000900/30]

REQUEST FOR PROPOSAL [RFP]

FOR THE SUPPLY AND DELIVERY OF LONG TRAVEL MECHANICAL DRIVES FOR TRANSNET SOC LIMITED (REG. NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERRED TO AS "TPT") AT THE PORT OF PORT ELIZABETH MULTI-PURPOSE TERMINAL AS A ONCE OFF PURCHASE.

RFP NUMBER	ICLM PE 652/TPT
ISSUE DATE:	01 August 2024
BRIEFING DATE:	14 August 2024 at 10:00am
CLOSING DATE:	29 August 2024
CLOSING TIME:	12:00 PM
BID VALIDITY PERIOD:	180 Business Days from Closing Date

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 because 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.



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FOR THE SUPPLY AND DELIVERY OF LONG TRAVEL MECHANICAL DRIVES FOR TRANSNET SOC LIMITED (REG. NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERRED TO AS "TPT") AT THE PORT OF PORT ELIZABETH MULTI-PURPOSE TERMINAL AS A ONCE OFF PURCHASE.

SECTION 1: SBD1 FORM

PART A INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF LONG TRAVEL MECHANICAL DRIVES, A DIVISION TRANSNET SOC LTD							
BID NUMBER:	iCLM PE 652/TPT	ISSUE DATE:	01 August 2024	CLOSING DATE:	29 August 2024	CLOSING TIME:	12:00PM
DESCRIPTION	FOR THE SUPPLY AND DELIVERY OF LONG TRAVEL MECHANICAL DRIVES FOR TRANSNET SOC LIMITED (REG. NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERRED TO AS "TPT") AT THE PORT OF PORT ELIZABETH MULTI-PURPOSE TERMINAL AS A ONCE OFF PURCHASE.						
BID RESPONSE DOCUMENTS SUBMISSION							
RESPONDENTS ARE TO UPLOAD THEIR BID RESPONSE PROPOSALS ONTO THE TRANSNET SYSTEM AGAINST EACH TENDER SELECTED (please refer to section 2, paragraph 3 for a detailed process on how to upload submissions): https://transnetetenders.azurewebsites.net							
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO				TECHNICAL ENQUIRIES MAY BE DIRECTED TO:			
CONTACT PERSON	Bellinda Stemele			CONTACT PERSON	Bellinda Stemele		
TELEPHONE NUMBER	N/A			TELEPHONE NUMBER	N/A		
FACSIMILE NUMBER	N/A			FACSIMILE NUMBER	N/A		
E-MAIL ADDRESS	Bellinda.stemele@transnet.net			E-MAIL ADDRESS	Bellinda.stemele@transnet.net		
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	UNIQUE REGISTRATION REFERENCE NUMBER: MAAA		
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	TICK APPLICABLE BOX] Yes No			B-BBEE STATUS LEVEL SWORN AFFIDAVIT		[TICK APPLICABLE BOX] Yes No	

[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED FOR PURPOSES OF COMPLIANCE WITH THE B-BBEE ACT]			
1 ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	Yes No [IF YES ENCLOSE PROOF]	2 ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	Yes No [IF YES, ANSWER QUESTIONNAIRE BELOW]
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS			
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)? YES NO DOES THE ENTITY HAVE A BRANCH IN THE RSA? YES NO DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA? YES NO DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA? YES NO IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION? YES NO IF THE ANSWER IS “NO” TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 1.3 BELOW.			

PART B

TERMS AND CONDITIONS FOR BIDDING

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

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

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:

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

SECTION 2: NOTICE TO BIDDERS

1 INVITATION TO BID

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

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TENDER ADVERT	All Transnet tenders are advertised on the National Treasury's e-Tender Publication Portal and the Transnet website. Should one of these media (i.e. National Treasury's e-Tender Publication Portal or Transnet website) not be available, bidders are advised to check on the other media for advertised tenders.
RFP DOWNLOADING	This RFP may be downloaded directly from National Treasury's e-Tender Publication Portal at www.etenders.gov.za free of charge. To download RFP and Annexures: • Click on "Tender Opportunities"; • Select "Advertised Tenders"; • In the "Department" box, select Transnet SOC Ltd. Once the tender has been in the list, click on the "Tender documents" tab and process to download all uploaded documents. The RFP may also be downloaded from the Transnet Portal at https://transnetetenders.azurewebsites.net (please use Google Chrome to access Transnet link/site) free of charge (<i>refer to section 2, paragraph 3 below for detailed steps</i>)
COMMUNICATION	Transnet will publish the outcome of this RFP on the National Treasury e-tender portal and Transnet website with 10 days after the award has been finalised. All unsuccessful bidders have a right to request for reasons for their bid not being successful. This requested must be directed to the contact person stated in the SBD 1 form Any addenda to the RFP or clarifications will be published on the e-tender portal and Transnet website. Bidders are required to check the e-tender portal or Transnet website prior to finalising their bid submissions for any changes or clarifications to the RFP. Transnet will not be held liable if Bidders do not receive the latest information regarding this RFP with the possible consequence of either being disadvantaged or disqualified as a result thereof.
BRIEFING SESSION	Yes Non-compulsory Bidders are required to confirm their attendance and to send their contact details including the number of representatives (where applicable) to the following address: Bellinda.stemele@transnet.net This is to ensure that Transnet may make the necessary arrangements for the briefing session. Refer to paragraph FORMAL BRIEFING for details.
CLOSING DATE	12:00 pm on Friday 29 August 2024 Bidders must ensure that bids are uploaded timeously onto the system. Generally, if a bid is late, it will not be accepted for consideration. <i>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 because 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.</i>

VALIDITY PERIOD	180 Business Days from Closing Date Bidders are to note that they may be requested to extend the validity period of their bid, at the same terms and conditions, if the internal evaluation process has not been finalised within the validity period. However, once the adjudication body has approved the process and award of the business to the successful bidder(s), the validity of the successful bidder(s)' bid will be deemed to remain valid until a final contract has been concluded. 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. Regarding the validity period of next highest ranked bidders, please refer to Section 2, paragraph 10.12
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Any additional information or clarification will be published on the e-Tender portal and Transnet website, if necessary.

2 FORMAL BRIEFING

A **non-compulsory** pre-proposal site briefing will be conducted at Port of Port Elizabeth-Transnet Port Terminals, Green Street, North End. NRE Garage SCM Boardroom on the **14 August 2024**, at **10:00am** for a period of $\pm$ 1 hours. [Respondents to provide own transportation and accommodation]. The briefing session will start punctually, and information will not be repeated for the benefit of Respondents arriving late.

- 2.1 Despite the briefing session being non-compulsory, Transnet nevertheless encourages all Respondents to attend. Transnet will not be held responsible if any Respondent who did not attend the **non-compulsory** session subsequently feels disadvantaged as a result thereof.
- 2.2 Respondents are encouraged to bring a copy of the RFP to the site briefing.

3 PROPOSAL SUBMISSION

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

- a) The Transnet e-Tender Submission Portal can be accessed as follows:
 - Log on to the Transnet eTenders management platform website/ Portal (transnetetenders.azurewebsites.net) Please use **Google Chrome** to access Transnet link/site);
 - 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

4 RFP INSTRUCTIONS

- 4.1 Please sign documents [sign, stamp and date the bottom of each page] before uploading them on the system. The person or persons signing the submission must be legally authorised by the respondent to do so.
- 4.2 All returnable documents tabled in the Proposal Form [Section 5] must be returned with proposals.

- 4.3 Unless otherwise expressly stated, all Proposals furnished pursuant to this RFP shall be deemed to be offers. Any exceptions to this statement must be clearly and specifically indicated.
- 4.4 Any additional conditions must be embodied in an accompanying letter. Subject only to clause 15 [Alterations made by the Respondent to Bid Prices] of the General Bid Conditions, paragraph 12 below (Legal Review) and Section 6 of the RFP, alterations, additions or deletions must not be made by the Respondent to the actual RFP documents.

5 JOINT VENTURES OR CONSORTIUMS

Respondents who would wish to respond to this RFP as a Joint Venture [**JV**] or consortium with B-BBEE entities, must state their intention to do so in their RFP submission. Such Respondents must also submit a signed JV or consortium agreement between the parties clearly stating the percentage [%] split of business and the associated responsibilities of each party. If at the time of the bid submission such a JV or consortium agreement has not been concluded, the partners must submit confirmation in writing of their intention to enter into a JV or consortium agreement should they be awarded business by Transnet through this RFP process. This written confirmation must clearly indicate the percentage [%] split of business and the responsibilities of each party. In such cases, award of business will only take place once a signed copy of a JV or consortium agreement is submitted to Transnet.

- a) Respondents are to note that for the purpose of Evaluation, a JV will be evaluated based on one consolidated B-BBEE score card (a consolidated B-BBEE Status Level verification certificate) 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.

COMMUNICATION

- 5.2 For specific queries relating to this RFP, an RFP Clarification Request Form should be submitted onto the system and to [**Bellinda Stemele**] before **12:00 pm on 23 August 2024**, substantially in the form set out in Section 8 hereto. In the interest of fairness and transparency, Transnet's response to such a query will be published on the e-tender portal and Transnet website.
- 5.3 After the closing date of the RFP, a Respondent may only communicate with the name of delegated individual (Bellinda Stemele), on bellinda.stemele@transnet.net on any matter relating to its RFP Proposal.
- 5.4 Respondents are to note that changes to its submission will not be considered after the closing date.
- 5.5 It is prohibited for Respondents to attempt, either directly or indirectly, to canvass any officer or employee of Transnet in respect of this RFP between the closing date and the date of the award of the business.
- 5.6 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.
- 5.7 Transnet will publish the outcome of this RFP in the National Treasury e-tender portal and Transnet website with 10 days after the award has been finalised. Respondents are required to check the National Treasury e-tender Portal and Transnet website for the results of the tender process. 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.

6 CONFIDENTIALITY

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

7 COMPLIANCE

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

8 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.

9 DISCLAIMERS

Respondents are hereby advised that Transnet is not committed to any course of action because of its issuance of this RFP and/or its receipt of Proposals. Please note that Transnet reserves the right to:

- 9.1 modify the RFP's Goods and request Respondents to re-bid on any such changes.
- 9.2 reject any Proposal which does not conform to instructions and specifications which are detailed herein.
- 9.3 disqualify Proposals submitted after the stated submission deadline [closing date].
- 9.4 award a contract in connection with this Proposal at any time after the RFP's closing date.
- 9.5 award a contract for only a portion of the proposed Goods/Services which are reflected in the scope of this RFP.
- 9.6 split the award of the contract between more than one Supplier, should it at Transnet's discretion be more advantageous in terms of, amongst others, cost, or developmental considerations.
- 9.7 cancel the bid process.
- 9.8 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.
- 9.9 request audited financial statements or other documentation for the purposes of a due diligence exercise.
- 9.10 not accept any changes or purported changes by the Respondent to the bid rates after the closing date and/or after the award of the business unless the contract specifically provided for it.
- 9.11 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.
- 9.12 to award the business to the next ranked bidder, if he/she is still prepared to provide the required Goods 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 outcome of the tender has been published the outcome of the bid process on the National Treasury e-tender Portal and Transnet website. Bidders may therefore be requested to advise whether they would still be prepared to provide the required Goods at their quoted price.

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

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

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. Respondents must register on the CSD prior to submitting their bids. Business may not be awarded to a Respondent who has failed to register on the CSD. Only foreign suppliers with no local registered entity need not register on the CSD.

13 TAX COMPLIANCE

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

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

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

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

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

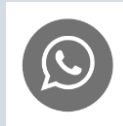
TIP-OFFS ANONYMOUS:



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



AI Voice BoT "Jack"
 Speak to our AI Voice Chat Bot "JACK", you converse with him like chatting to a human, with the option to record a message and speak to an agent at anytime.



What's App
 Speak to an Agent via What's App.



Speak to an Agent
 Speak to an Agent via the platform with no call or data charge



Telegram
 Speak to an Agent via Telegram



0800 003 056



086 551 4153



reportit@ethicshelpdesk.com



***120*0785980808#**

SECTION 3: BACKGROUND, OVERVIEW AND SCOPE OF REQUIREMENTS

14 BACKGROUND

Port Elizabeth Multi-Purpose Terminal (PEMPT's) core business is to export dry bulk cargo manganese ore. This is accomplished with Terminal infrastructure such as rail wagon tippers, feeders, conveyor belts, storage facilities and ship-loaders and a network of machine mobile equipment such as excavators and bulldozers. The larger network of conveyors is connected via chutes and diverter chutes which allow for easy conveying of bulk material to the different conveyor Lines. To improve the equipment reliability and operational efficiencies relating to equipment long travel breakdowns, this scope of work aims to replenish long travel mechanical drives for various equipment to ensure spares availability.

15 EXECUTIVE OVERVIEW

Whereas Transnet is seeking a partner(s) to provide solutions for its long travel mechanical drives, it also seeks to improve its current processes for providing these Goods to its end user community.

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

Specifically, Transnet seeks to benefit from this partnership in the following ways:

- 15.1 Transnet must receive reduced cost of acquisition and improved service benefits resulting from the Supplier's economies of scale and streamlined service processes.
- 15.2 Transnet must achieve appropriate availability that meets user needs while reducing costs for both Transnet and the chosen Supplier(s).
- 15.3 Transnet must receive proactive improvements from the Supplier with respect to supply of Goods and related processes.
- 15.4 Transnet's overall competitive advantage must be strengthened by the chosen Supplier's leading-edge technology and service delivery systems.
- 15.5 Transnet end users must be able to rely on the chosen Supplier's personnel for service enquiries, recommendations, and substitutions.
- 15.6 Transnet must reduce costs by streamlining its acquisition of Goods, including managed service processes on a Group basis.

16 SCOPE OF REQUIREMENTS

REFER TO ANNEXURE AA

17 GREEN ECONOMY / CARBON FOOTPRINT

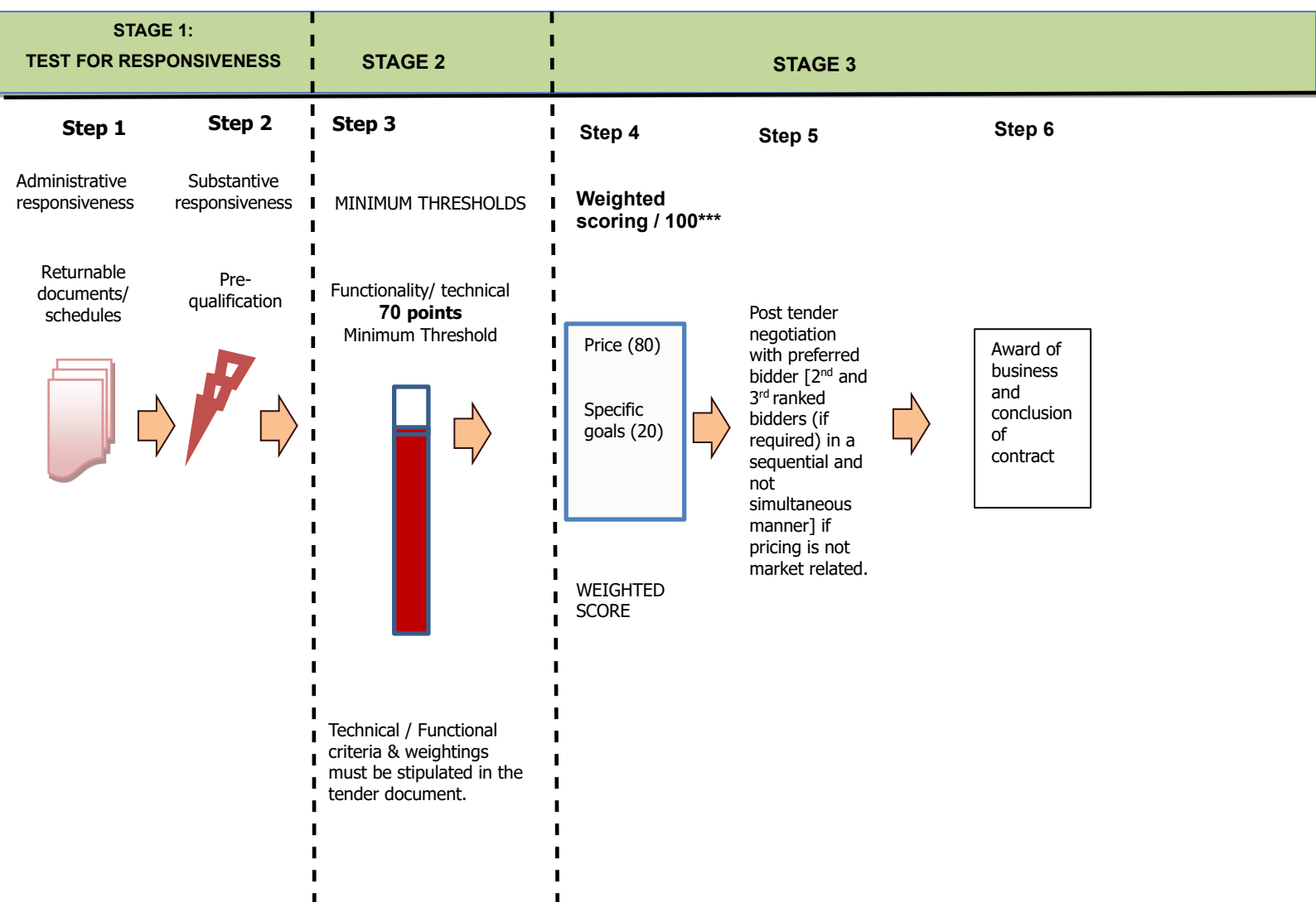
Transnet wishes to understand your company's position regarding environmental commitments, including key environmental characteristics such as waste disposal, recycling and energy conservation. *Please submit details of your entity's policies in this regard.*

18 GENERAL SUPPLIER OBLIGATIONS

- 18.1 The Supplier(s) shall be fully responsible to Transnet for the acts and omissions of persons directly or indirectly employed by them.
- 18.2 The Supplier(s) must comply with the requirements stated in this RFP.

19 EVALUATION METHODOLOGY

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



- 19.1 NB: Evaluation of the various stages will normally take place in a sequential manner. However, in order to expedite the process, Transnet reserves the right to conduct the different steps of the evaluation process in parallel. In such instances the evaluation of bidders at any given stage must not be interpreted to mean that bidders have necessarily passed any previous stage(s).

19.2 STEP ONE: Test for Administrative Responsiveness

The test for administrative responsiveness will include the following:

Administrative responsiveness check	RFP Reference
Whether the Bid has been lodged on time	Section 1 paragraph 3

• Whether all Returnable Documents and/or schedules [where applicable] were completed and returned by the closing date and time	<i>Section 5</i>
• Verify the validity of all returnable documents	<i>Section 5</i>
• Verify if the Bid document has been duly signed by the authorised respondent	<i>All sections</i>

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

19.3 STEP TWO: Test for Substantive Responsiveness to RFP

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

Check for substantive responsiveness	RFP Reference
• Whether any general and legislation qualification criteria set by Transnet, have been met	<i>All sections including Section 2 paragraphs, 2.2, 6, 11.2, General Bid Conditions clause 20</i>
• Whether the Bid contains a priced offer as prescribed in the pricing and delivery schedule	<i>Section 4</i>
• Whether the Bid materially complies with the scope and/or specification given	<i>All Sections</i>

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

19.4 STEP THREE: Minimum Threshold **70 points** for Technical Criteria

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

Technical Evaluation Criteria	Points Weightings	Scoring guideline
1.1 Quality Assurance - The Service Provider must provide a sample Quality Control Plan (QCP) for mechanical drives or geared motors for a similar project previously executed, the sample QCP shall have activity/requirement, specifications, acceptance criteria, approval status, and controlling documents. This must be accompanied by a quality management certificate copy for ISO 9001:2015. Quality Assurance – Returnable schedule T1	15	Sample QCP for previously executed project with all required information = 15 Points Sample QCP for previously executed project with at least three (3) of the required sections = 5 Points No sample QCP submitted or QCP is not for similar project or does not have enough information = 0 Points Evidence – Sample QCP
1.2 Quality Assurance:	10	

Technical Evaluation Criteria	Points Weightings	Scoring guideline
Proof of ISO 9001 – Quality Management Certification		Proof of ISO 9001 Quality Management Certification (Copy of valid certificate) = 10 Points ISO 9001 Quality Management certification not provided = 0 Points Evidence - ISO 9001:2015
1.3Experience - The Service Provider must submit reference letters for previous works related to the supply and delivery of mechanical drives. The Service Provider must have a traceable track record, submit three (3) reference letters of completed work from previous clients and this must be relating to supply and delivery with contactable references. The reference letters should be attached to Returnable schedule T2 .	30	Three reference letters from contactable references provided = 30 Points Two reference letters from contactable references provided = 20 Points One reference letter from a contactable reference provided = 10 Points None provided = 0 Points Evidence - Provide Previous Experience
1.4Technical Data Sheets- The Service Provider must provide technical datasheets for the three (3) different drives to be supplied for the various machines. The technical data sheets shall show that the drives are completely compatible and interchangeable with the existing mechanical long travel drives on the machines. This shall be in terms of mounting, shafts, torque arm, ground clearance of the gearboxes, electrical specification of the motors and output speed. - Returnable schedule T3 .	45	Technical Data Sheet for fully compatible Long Travel Mechanical Drives submitted = 45 Points Incomplete or No Technical Data Sheet submitted, or data sheet shows Long Travel Mechanical Drives not suitable for machines = 0 Points Evidence - Technical Data Sheets
Total Weighting:		100
Minimum qualifying score required:		70

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.

19.5 STEP FOUR: Evaluation and Final Weighted Scoring

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

Evaluation Criteria	RFP Reference
• Commercial offer	<i>Section 4</i>

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

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

b) Specific goals preference points claim form.

c) 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.

19.6 SUMMARY: Applicable Thresholds and Final Evaluated Weightings

Thresholds	Minimum Threshold
Technical / functionality	70

Evaluation Criteria	Final Weighted Scores
Price and Total Cost of Ownership	80
Specific goals - Scorecard	20
TOTAL SCORE:	100

19.7 **STEP FIVE:** Post Tender Negotiations (if applicable)

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

19.8 **STEP SIX:** Award of business and conclusion of contract

- Immediately after approval to award the contract has been received, the successful bidder(s) will be informed of the acceptance of his/their Bid by way of a Letter of Award. Thereafter the final contract will be concluded with the successful Respondent(s).



- A final contract will be concluded and entered into with the successful Bidder at the acceptance of a letter of award by the Respondent.



SECTION 4: PRICING AND DELIVERY SCHEDULE

DESCRIPTION OF THE WORKS: SUPPLY AND DELIVERY OF LONG TRAVEL MECHANICAL DRIVES FOR THE STACKERS, RECLAIMERS, AND SHIPLOADER MACHINES FOR TRANSNET SOC LIMITED (REG NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERED TO AS "TPT") AT THE PORT OF PORT ELIZABETH MULTIPURPOSE TERMINAL, AS A ONCE OFF SUPPLY AND DELIVERY.				
Description	Quantity	Unit Cost	Total Cost	
1 Stacker long travel mechanical drive	2			
2 Reclaimer A and C long travel mechanical drive	4			
3 Reclaimer B long travel mechanical drive	2			
4 Ship loader A and B long travel mechanical drive	2			
			Total exclusive of VAT:	
			VAT 15% (if applicable)	
			Total Inclusive of VAT	

Notes to Pricing:

- a) Respondents are to note that if the price offered by the highest scoring bidder is not market-related, Transnet may not award the contract to that Respondent. Transnet may-
- b) negotiate a market-related price with the Respondent scoring the highest points or cancel the RFP;
- c) 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 RFP;
- d) 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 RFP.
- e) If a market-related price is not agreed with the Respondent scoring the third highest points, Transnet must cancel the RFP.
- f) Prices must be quoted in South African Rand inclusive of VAT. The delivery cost of each unit price must be inclusive of all associated costs for delivery of the units quoted on section 4 of this RFP.
- g) Any disbursement not specifically priced for will not be considered/accepted by Transnet.
- h) To facilitate like-for-like comparison bidders must submit pricing strictly in accordance with this pricing schedule and not utilise a different format. Deviation from this pricing schedule could result in a bid being declared non-responsive.
- i) 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.
- j) Where a Respondent's price(s) includes imported goods/items, the rate of exchange to be used must be in South African Rands for purposes of determining whether the price is market related or not and must be the currency's rate published by the South African Reserve Bank on the date of the advertisement of the bid:
- k) Respondents, if awarded the contract, are required to indicate that their prices quoted would be kept firm and fixed for the contract duration. [Not to be confused with bid validity period Section 2, clause 1]

YES	
-----	--

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

20 DISCLOSURE OF CONTRACT INFORMATION

21 PRICES TENDERED

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.

22 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 provided by the company, the value and duration of the contract, etc. in compliance with the Johannesburg Stock Exchange (JSE) Debt Listing Requirements.

23 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.						
Is the Respondent (Complete with a "Yes" or "No")						
A DPIP/FPPO		Closely Related to a DPIP/FPPO		Closely Associated to a DPIP/FPPO		
List all known business interests, in which a DPIP/FPPO may have a direct/indirect interest or significant participation or involvement.						
No	Name of Entity / Business	Role in the Entity / Business (Nature of interest/ Participation)	Shareholding %	Registration Number	Status (Mark the applicable option with an X)	
					Active	Non-Active

1						
2						
3						

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

24 RISK

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

1.1 Quality and specification of Goods delivered:

1.2 Continuity of supply:

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

SIGNED at _____ on this ____ day of _____ 20__

SIGNATURE OF WITNESSES

ADDRESS OF WITNESSES

1 _____

Name _____

2 _____

Name _____

SIGNATURE OF RESPONDENT'S AUTHORISED REPRESENTATIVE: _____

NAME: _____

DESIGNATION: _____

SECTION 5: PROPOSAL FORM AND LIST OF RETURNABLE DOCUMENTS

I/We _____
 [name of entity, company, close corporation or partnership] of [full address]

carrying on business trading/operating as

represented by _____

in my capacity as _____

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

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

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

I/We agree to be bound by those conditions in Transnet's:

- (i) Master Agreement (which may be subject to amendment at Transnet's discretion if applicable);
- (ii) General Bid Conditions; and
- (iii) any other standard or special conditions mentioned and/or embodied in this Request for Proposal.

I/We accept that unless Transnet should otherwise decide and so inform me/us in the letter of award, this Proposal [and, if any, its covering letter and any subsequent exchange of correspondence], together with Transnet's acceptance thereof shall constitute a binding contract between Transnet and me/us.

Should Transnet decide that a formal contract should be signed and so inform me/us in a letter of award [the **Letter of Award**], this Proposal [and, if any, its covering letter and any subsequent exchange of correspondence] together with Transnet's Letter of Award, shall constitute a binding contract between Transnet and me/us until the formal contract is signed.

I/We further agree that if, after I/we have been notified of the acceptance of my/our Proposal, I/we fail to enter into a formal contract if called upon to do so, or fail to commence the supply/provision of Goods/Services within 2 [two] weeks

thereafter, Transnet may, without prejudice to any other legal remedy which it may have, recover from me/us any expense to which it may have been put in calling for Proposals afresh and/or having to accept any less favourable Proposal.

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

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

ADDRESS FOR NOTICES

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

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

Name of Entity:

Facsimile: _____

Address: _____

NOTIFICATION OF AWARD OF RFP

As soon as possible after approval to award the contract(s), the successful Respondent [**the Supplier**] will be informed of the acceptance of its Proposal. Transnet will also publish the outcome of the tender, including successful and unsuccessful bidders, in the National Treasury e-tender portal. Any unsuccessful bidder has a right to request reasons for the bid not to be successful and Transnet has a duty to provide those reasons on receipt of the request from the bidder.

VALIDITY PERIOD

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

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

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

(iv) Registration number of company / C.C.

(v) Registered name of company / C.C.

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

RETURABLE DOCUMENTS

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

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

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

a) Mandatory Returnable Documents

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

MANDATORY RETURNABLE DOCUMENTS	SUBMITTED [Yes/No]
SECTION 4: Pricing and Delivery Schedule	

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:

<u>RETURABLE DOCUMENTS USED FOR SCORING</u>	SUBMITTED [Yes or No]
Quality Assurance - The Service Provider must provide a sample Quality Control Plan (QCP) for mechanical drives or geared motors for a similar project previously executed, the sample QCP shall have activity/requirement, specifications, acceptance criteria, approval status, and controlling documents. This must be accompanied by a quality management certificate copy for ISO 9001:2015. Quality Assurance – Returnable schedule T1 used for scoring.	
Experience - The Service Provider must submit reference letters for previous works related to the supply and delivery of mechanical drives. The Service Provider must have a traceable track record, submit three (3) reference letters of completed work from	

<u>RETURNABLE DOCUMENTS USED FOR SCORING</u>	SUBMITTED [Yes or No]
previous clients and this must be relating to supply and delivery with contactable references. The reference letters should be attached to Returnable schedule T2 used for scoring.	
Technical Data Sheets- The Service Provider must provide technical datasheets for the three different drives to be supplied for the various machines. The technical data sheets must be completely compatible and interchangeable with the existing mechanical long travel drives on the machines. This shall be in terms of mounting, shafts, torque arm, ground clearance of the gearboxes, electrical specification of the motors and output speed - Returnable schedule T3 used for scoring.	
B-BBEE Level of contributor (1 - 2) - 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	

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 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 1: SBD1 FORM	
SECTION 5: PROPOSAL FORM AND LIST OF RETURNABLE DOCUMENTS	
SECTION 6: CERTIFICATE OF ACQUAINTANCE WITH RFP, TERMS & CONDITIONS & APPLICABLE DOCUMENTS	
SECTION 7: RFP DECLARATION AND BREACH OF LAW FORM	
SECTION 8: RFP CLARIFICATION REQUEST FORM	
SECTION 9: SPECIFIC GOALS POINTS CLAIM FORM	
SECTION 10: CERTIFICATE OF ATTENDANCE OF NON-COMPULSORY SITE BRIEFING	
SECTION 11: PROTECTION OF PERSONAL INFORMATION	
Compliance to SOW- The Service Provider must provide a signed confirmation on a company letterhead with relevant details as confirmation that the long travel mechanical drives' manufacturer/agent is based in South Africa or has a Distribution or Service Centre within South Africa to allow for spare availability and timely repairs. Manufacturer/agent location confirmation – Essential Returnable schedule T4.	
Scope requirement compliance- The Service Provider must provide a signed confirmation on company letterhead confirming compliance to scope of work and delivery of all required mechanical drives. Letter must also confirm that the mechanical drives are fully compatible with the machines with no requirement for modifications for installation. Scope requirement compliance – Essential Returnable schedule T5.	
Data Pack- The Service Provider must provide a signed confirmation on company letterhead that a data pack will be submitted upon delivery containing full information of: (1) Quality check before delivery report (to include any/all tests conducted), (2) signed off and company stamped shop drawings of mechanical drives, (3) Warranty period for mechanical drives, and (4) Maintenance manual for mechanical drives - Essential Returnable schedule T6.	
Guarantees- The Service Provider shall submit confirmation of guarantee on a company letterhead indicating the guarantee of the supplied mechanical long travel drives in accordance with the requirements of the scope and for a period not less than 12 months after delivery of the mechanical long travel drives - Essential Returnable schedule T7.	
Project Plan- The Service Provider must provide a signed confirmation on company letterhead for the lead time for the supply and delivery of mechanical drives. A Project plan with a project roadmap, lead time, key milestones, and a communication plan must also be attached. TPT requires at most 20 weeks lead time. Project plan – Essential Returnable Schedule T8.	
Proof of CSD registration	

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 RFP. Should the Respondent be awarded the contract [**the Agreement**] and fail to present Transnet with such renewals as and when they become due, Transnet shall be entitled, in addition to any other rights and remedies that it may have in terms of the eventual Agreement, to terminate such Agreement immediately without any liability and without prejudice to any claims which Transnet may have for damages against the Respondent.

SIGNED at _____ on this _____ day of _____ 20____

SIGNATURE OF WITNESSES

ADDRESS OF WITNESSES

1 _____
Name _____

2 _____
Name _____

SIGNATURE OF RESPONDENT'S AUTHORISED REPRESENTATIVE: _____

NAME: _____

DESIGNATION: _____

SECTION 6: CERTIFICATE OF ACQUAINTANCE WITH RFP, MASTER AGREEMENT & APPLICABLE DOCUMENTS

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

1	Transnet's General Bid Conditions
2	Master Agreement and SLA attached
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 RFP unacceptable, it should indicate which conditions are unacceptable and offer alternatives by written submission on its company letterhead, attached to its submitted Bid. Any such submission shall be subject to review by Transnet's Legal Counsel who shall determine whether the proposed alternative(s) are acceptable or otherwise, as the case may be. A material deviation from any term or condition may result in disqualification.

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

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

SIGNED at _____ on this _____ day of _____ 20____

SIGNATURE OF WITNESSES

ADDRESS OF WITNESSES

1 _____

Name _____

2 _____

Name _____

SIGNATURE OF RESPONDENT'S AUTHORISED REPRESENTATIVE: _____

NAME: _____

DESIGNATION: _____



SECTION 7: RFP DECLARATION AND BREACH OF LAW FORM

NAME OF ENTITY: _____

We _____ do hereby certify that:

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

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

ADDRESS:

Indicate nature of relationship with Transnet:

[Failure to furnish complete and accurate information in this regard will lead to the disqualification of a response and may preclude a Respondent from doing future business with Transnet. Information provided in the declarations may be used by Transnet and/or its affiliates to verify the correctness of the information provided]

11. We declare, to the extent that we are aware or become aware of any relationship between ourselves and Transnet [other than any existing and appropriate business relationship with Transnet] which could unfairly advantage our entity in the forthcoming adjudication process, we shall notify Transnet immediately in writing of such circumstances.

BIDDER'S DISCLOSURE (SBD4)

12 PURPOSE OF THE FORM

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

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

13 Bidder's declaration

13.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest² in the enterprise, employed by the state?

YES/NO

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

Full Name	Identity Number	Name of State institution

² the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

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

YES/NO

13.2.1. If so, furnish particulars:

.....

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

YES/NO

13.3.1. If so, furnish particulars:

.....

14 DECLARATION

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

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

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

14.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement, or arrangement with any competitor. However, communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.

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

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.

³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

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

14.7 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

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

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

BREACH OF LAW

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

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

NATURE OF BREACH:

DATE OF BREACH: _____

Furthermore, I/we acknowledge that Transnet SOC Ltd reserves the right to exclude any Respondent from the bidding process, should that person or entity have been found guilty of a serious breach of law, tribunal or regulatory obligation.

SIGNED at _____ on this _____ day of _____ 20____

For and on behalf of _____ duly authorised hereto	AS WITNESS:
Name:	Name:
Position:	Position:
Signature:	Signature:
Date:	Registration No of Company/CC
Place:	Registration Name of Company/CC

SECTION 9: 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 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).
- 1.2 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.

Either the 80/20 preference point system will apply

Preference points for this bid shall be awarded for:

- (a) Price.
 - (b) B-BBEE Status Level of Contribution; and
 - (c) Any other specific goal determined in Transnet preferential procurement policy.
- 1.3 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	80
B-BBEE STATUS LEVEL OF 1&2	10
30% BLACK WOMEN OWNED ENTITIES	10
Total points for Price and Specific Goals must not exceed	100

- 1.4 Failure on the part of a bidder to submit proof of evidence for any of the specific goals together with the bid will be interpreted to mean that preference points are not claimed.
- 1.5 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 regarding 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) **"Ownership"** means 51% black ownership.

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

80/20

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

Where

P_s = Points scored for comparative price of bid under consideration

P_t = Comparative price of bid under consideration

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

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 (1&2)	10
30% Black women Owned entities	10
Non-Compliant and/or B-BBEE Level 3-8 contributors	0

4. EVIDENCE 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 .]
EME⁴	Sworn Affidavit signed by the authorised EME representative and attested by a Commissioner of Oaths confirming annual turnover and black ownership Certificate issued by CIPC (formerly CIPRO) confirming annual turnover and black ownership. Certificate issued by SANAS accredited verification agency only if the EME is being measured on the QSE scorecard

- 4.3 A trust, consortium, or joint venture (including unincorporated consortia and joint ventures) must submit a consolidated B-BBEE Status Level verification certificate for every separate bid.
- 4.4 Tertiary Institutions and Public Entities will be required to submit their B-BBEE status level certificates in terms of the specialized scorecard contained in the B-BBEE Codes of Good Practice.
- 4.5 A person will not be awarded points for B-BBEE status level if it is indicated in the bid documents that such a bidder intends sub-contracting more than 25% of the value of the contract to any other enterprise that does not qualify for at least the points that such a bidder qualifies for, unless the intended sub-contractor is an EME that has the capability and ability to execute the sub-contract.
- 4.6 A person awarded a contract may not sub-contract more than 25% of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is sub-contracted to an EME that has the capability and ability to execute the sub-contract.
- 4.7 Bidders are to note that the rules pertaining to B-BBEE verification and other B-BBEE requirements may be changed from time to time by Transnet or regulatory bodies such as National Treasury or the DTI. It is the Bidder's responsibility to ensure that his/her bid complies fully with all B-BBEE requirements at the time of the submission of the bid.

5. BID DECLARATION

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

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

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

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

7. SUB-CONTRACTING

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

(*Tick applicable box*)

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

7.1.1 If yes, indicate:

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

(*Tick applicable box*)

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

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

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

8. DECLARATION WITH REGARD TO COMPANY/FIRM

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

8.2 VAT registration number:.....

8.3 Company registration number:.....

8.4 TYPE OF COMPANY/ FIRM

- Y Partnership/Joint Venture / Consortium
- Y One person business/sole propriety
- Y Close corporation
- Y Company
- Y (Pty) Limited

[TICK APPLICABLE BOX]

8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

.....

8.6 COMPANY CLASSIFICATION

- Y Manufacturer
- Y Supplier
- Y Professional Supplier
- Y Other Suppliers, e.g., transporter, etc.

[TICK APPLICABLE BOX]

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

8.8 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contribution indicated in paragraphs 1.4 and 6.1 of the foregoing certificates, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- i) The information furnished is true and correct.
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form.
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraph 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct.
- iv) If a bidder submitted false information regarding its B-BBEE status level of contributor or any other matter required in terms of the Preferential Procurement Regulations, 2022 which will affect or has affected the evaluation of a bid the purchaser may, in addition to any other remedy it may have.
 - (a) disqualify the person from the bidding process.
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct.
 - (c) cancel the contract and claim any damages which it has suffered because of having to make less favourable arrangements due to such cancellation.
 - (d) if the successful bidder subcontracted a portion of the bid to another person without disclosing it, Transnet reserves the right to penalise the bidder up to 10 percent of the value of the contract.
 - (e) recommend that the bidder or contractor, its shareholders, and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury from obtaining business from any organ of state for a period not exceeding 10 years, after the audi alteram partem (hear the other side) rule has been applied; and
 - (f) forward the matter for criminal prosecution.

WITNESSES

1.
2.

.....

SIGNATURE(S) OF BIDDERS(S)

DATE:

ADDRESS.....

SECTION 10: CERTIFICATE OF ATTENDANCE OF NON-COMPULSORY RFP BRIEFING

It is hereby certified that –

1. _____

2. _____

Representative(s) of _____ *[name of entity]*
attended the site briefing in respect of the proposed Goods/Services to be rendered in terms of this RFP on
_____20____

TRANSNET'S REPRESENTATIVE

RESPONDENT'S REPRESENTATIVE

DATE _____

DATE _____

EMAIL _____

NOTE:

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

SECTION 11: PROTECTION OF PERSONAL INFORMATION

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

consent; data subject; electronic communication; information officer; operator; person; personal information; processing; record; Regulator; responsible party; special information; as well as any terms derived from these terms.
2. Transnet will process all information by the Respondent in terms of the requirements contemplated in Section 4(1) of the POPIA:

Accountability; Processing limitation; Purpose specification; Further processing limitation; Information quality; Openness; Security safeguards and Data subject participation.
3. The Parties acknowledge and agree that, in relation to personal information that will be processed pursuant to this RFP, the Responsible party is "Transnet" and the Data subject is the "Respondent". Transnet will process personal information only with the knowledge and authorisation of the Respondent and will treat personal information which comes to its knowledge as confidential and will not disclose it, unless so required by law or subject to the exceptions contained in the POPIA.
4. Transnet reserves all the rights afforded to it by the POPIA in the processing of any of its information as contained in this RFP and the Respondent is required to comply with all prescripts as detailed in the POPIA relating to all information concerning Transnet.
5. In responding to this bid, Transnet acknowledges that it will obtain and have access to personal information of the Respondent. Transnet agrees that it shall only process the information disclosed by Respondent in their response to this bid for the purpose of evaluating and subsequent award of business and in accordance with any applicable law.
6. Transnet further agrees that in submitting any information or documentation requested in this RFP, the Respondent is consenting to the further processing of their personal information for the purpose of, but not limited to, risk assessment, assurances, contract award, contract management, auditing, legal opinions/litigations, investigations (if applicable), document storage for the legislatively required period, destruction, de-identification and publishing of personal information by Transnet and/or its authorised appointed third parties.
7. Furthermore, Transnet will not otherwise modify, amend or alter any personal data submitted by the Respondent or disclose or permit the disclosure of any personal data to any third party without the prior written consent from the Respondent. Similarly, Transnet requires the Respondent to process any personal information disclosed by Transnet in the bidding process in the same manner.
8. Transnet shall, at all times, ensure compliance with any applicable laws put in place and maintain sufficient measures, policies and systems to manage and secure against all forms of risks to any information that may be shared or accessed pursuant to this RFP (physically, through a computer or any other form of electronic communication).
9. Transnet shall notify the Respondent in writing of any unauthorised access to information, cybercrimes or suspected cybercrimes, in its knowledge and report such crimes or suspected crimes to the relevant authorities in accordance with applicable laws, after becoming aware of such crimes or suspected crime. The Respondent must take all necessary remedial steps to mitigate the extent of the loss or compromise of personal information and to restore the integrity of the affected personal information as quickly as is possible.

10. The Respondent may, in writing, request Transnet to confirm and/or make available any personal information in its possession in relation to the Respondent and if such personal information has been accessed by third parties and the identity thereof in terms of the POPIA. The Respondent may further request that Transnet correct (excluding critical/mandatory or evaluation information), delete, destroy, withdraw consent or object to the processing of any personal information relating to the Respondent in Transnet's possession in terms of the provision of the POPIA and utilizing Form 2 of the POPIA Regulations.
11. In submitting any information or documentation requested in this RFP, the Respondent is hereby consenting to the processing of their personal information for the purpose of this RFP and further confirming that they are aware of their rights in terms of Section 5 of POPIA

Respondents are required to provide consent below:

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

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

Signature of Respondent's authorised representative: _____

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

SCOPE OF WORK – ANNEXURE AA

Supply and delivery of long travel mechanical drives for Transnet SOC limited (Reg. No. 1990/000900/30) operating as Transnet Port Terminals (hereinafter referred to as "TPT") at the Port of Port Elizabeth Multi-Purpose Terminal as a once off purchase.

1 BACKGROUND

Port Elizabeth Multi-Purpose Terminal (PEMPT's) core business is to export dry bulk cargo manganese ore. This is accomplished with terminal infrastructure such as rail wagon tipplers, feeders, conveyor belts, storage facilities and ship-loaders and a network of machine mobile equipment such as excavators and bulldozers. The larger network of conveyors is connected via chutes and diverter chutes which allow for easy conveying of bulk material to the different conveyor lines. To improve the equipment reliability and operational efficiencies relating to equipment long travel breakdowns, this scope of work aims to replenish long travel mechanical drives for various equipment to ensure spares availability.

2 OBJECTIVE

The purpose of this Scope of Work is for the supply and delivery of long travel mechanical drives (geared motors) for PE terminal machines:

- Stackers
- Reclaimers, and
- Ship loaders

To ensure spares availability for each equipment and reduce long duration breakdowns which have a negative impact on productivity.

3 SCOPE OF WORK

This scope is for the supply and delivery of mechanical long travel drive spares. These must be completely compatible and interchangeable with the currently installed mechanical long travel drives on the machines. This shall be in terms of mounting, shafts, torque arm, ground clearance of the gearboxes, electrical specification of the motors and output speed. The currently installed mechanical long travel drives on the machines are as follows:

- Reclaimers A & C: BMG (Bearing Man) SK9082.1VZK-122-160M/4BRE250
- Ship loaders: BMG (Bearing Man) SK9072.1VZK-160M/4BRE150
- Stackers: BMG (Bearing Man) SK9072.1VZK-160M/4BRE150, and
- Reclaimer B: SEW Eurodrive KH157T DV160M4/BM/HF/V/C 3

The Service Provider shall supply and deliver the mechanical drives in quantities listed in Table 1 below.

Table 1: Mechanical drives to be supplied and delivered.

Plant	Machine	Component	Quantity
PEB	Stacker A&B	Long travel mechanical drive (geared motor)	2
	Reclaimer A&C	Long travel mechanical drive (geared motor)	4
	Reclaimer B	Long travel mechanical drive (geared motor)	2

	Ship loader A&B	Long travel mechanical drive (geared motor)	2
		Total	10

Table 2 lists the specifications for the long travel mechanical drives required for the machines.

Table 2: Mechanical drive specification

Machine	Specifications
Stacker A&B	Type: Helical bevel Power: 11 kW Potential: 400 Volts, 3 phase Output speed: 29.19 RPM Ratio: 50.35 Motor speed: 1460 RPM Motor pole quantity: 4 Mounting orientation: Vertical, Right-hand side with RC30/230 – 90-115 Drawing no.: H500302-2-340-M-GA-0002-01-1BM Quantity: 1 Type: Helical bevel Power: 11 kW Potential: 400 Volts, 3 phase Output speed: 29.19 RPM Ratio: 50.35 Motor speed: 1460 RPM Motor pole quantity: 4 Mounting orientation: Vertical, Left-hand side with RC30/230 – 90-115 Drawing no.: H500302-2-340-M-GA-0006-01-1BM Quantity: 1
Reclaimer A&C	Type: Helical bevel Power: 11 kW Potential: 400 Volts, 3 phase Output speed: 11.75 RPM Ratio: 122.46 Motor speed: 1460 RPM Motor pole quantity: 4 Supplied with RC30/230-90-115 Drawing no.: H500302-2-440-M-GA-0010-01-1BM
Reclaimer B	Type: Helical bevel with hollow shaft and shrink disk Potential: 400 Volts, 3 phase Output speed: 12 RPM

	Ratio: 122.39 Motor speed: 1440 RPM Motor pole quantity: 4 Rectifier: BGE 1.5 Drawing no.: Not Available (Supplier must provide shop drawings on delivery)
Ship loader A&B	Type: Helical bevel Power: 11 kW Potential: 400 Volts, 3 phase Output speed: 29.19 RPM Ratio: 50.35 Motor speed: 1460 RPM Motor pole quantity: 4 Mounting orientation: Vertical, Right-hand side with RC30/230 – 90-115 Drawing no.: H500302-2-450-M-GA-0007-01-2BM Quantity: 1 Type: Helical bevel Power: 11 kW Potential: 400 Volts, 3 phase Output speed: 29.19 RPM Ratio: 50.35 Motor speed: 1460 RPM Motor pole quantity: 4 Mounting orientation: Vertical, Left-hand side with RC30/230 – 90-115 Drawing no.: H500302-2-450-M-GA-0006-01-2BM Quantity: 1

- Each motor must be fitted with:
 - 3x thermistors (one per phase)
 - 2x PT100 3 leads (one per bearing)
 - 2x anti condition heaters (230V, AC)
 - Brakes suitable for marine conditions
 - All motors must be SABS certified or equivalent and certificate to be included in data pack submitted upon delivery.
- Supply all mechanical drives with transmission components e.g. BIKON rigid coupling for mounting, torque arm bracket.
- Each mechanical drive must have a signed quality test/inspection report submitted when delivering the drives.
- The mechanical drives must be supplied with signed off and stamped shop drawings detailing the specifications and mounting dimensions of the mechanical drives.

- Paint specification for the drives is HE 9/2/8 (latest version) see Annexure F.
- The mechanical drives shall be supplied in a wooden crate to accommodate easy lifting with a forklift and easy storage.

Proposed to be supplied long travel mechanical drive Original Equipment Manufacturer (OEM)/agent must have a distribution or Service Centre within South Africa for spare availability and timely repairs. Location of OEM service centre or distribution centre must be submitted as evidence.

4 RETURNABLE DOCUMENTS

- The Service Provider must provide a sample Quality Control Plan (QCP) for mechanical drives or geared motors for a similar project previously executed, the sample QCP shall have activity/requirement, specifications, acceptance criteria, approval status, and controlling documents. This must be accompanied by a quality management certificate copy for ISO 9001:2015. Quality Assurance – Returnable schedule T1.
- The Service Provider must submit reference letters for previous works related to the supply and delivery of mechanical drives. The Service Provider must have a traceable track record, submit three (3) reference letters of completed work from previous clients and this must be relating to supply and delivery with contactable references. The reference letters should be attached to Returnable schedule T2.
- The Service Provider must provide technical datasheets for the three (3) different drives to be supplied for the various machines. The technical data sheets shall show that the drives are completely compatible and interchangeable with the existing mechanical long travel drives on the machines. This shall be in terms of mounting, shafts, torque arm, ground clearance of the gearboxes, electrical specification of the motors and output speed. - Returnable schedule T3.
- The Service Provider must provide a signed confirmation on a company letterhead with relevant details as confirmation that the long travel mechanical drives' manufacturer/agent is based in South Africa or has a distribution or service centre within South Africa to allow for spare availability and timely repairs. Manufacturer/agent location confirmation – Essential Returnable schedule T4.
- The Service Provider must provide a signed confirmation on company letterhead confirming compliance to scope of work and delivery of all required mechanical drives. Letter must also confirm that the mechanical drives are fully compatible with the machines with no requirement for modifications for installation. Scope requirement compliance – Essential Returnable schedule T5.
- The Service Provider must provide a signed confirmation on company letterhead that a data pack will be submitted upon delivery containing full information of: (1) Quality check before delivery report (to include any/all tests conducted), (2) signed off and company stamped shop drawings of mechanical drives, (3) Warranty period for mechanical drives, and (4) Maintenance manual for mechanical drives - Essential Returnable schedule T6.
- The Service Provider shall submit confirmation of guarantee on a company letterhead indicating the guarantee of the supplied mechanical long travel drives in accordance with the requirements of the scope and for a period not less than 12 months after delivery of the mechanical long travel drives - Essential Returnable schedule T7.
- The Service Provider must provide a signed confirmation on company letterhead for the lead time for the supply and delivery of mechanical drives. A Project plan with a project roadmap, lead time, key milestones, and a communication plan must also be attached. TPT requires at most 20 weeks lead time. Project plan – Essential Returnable Schedule T8.

5 SPECIFICATION AND STANDARDS APPLICABLE TO THE WORK

In Table 3, the guiding codes the supplier needs to adhere to:

Table 3: Applicable Standards for Works

Guiding Code	Definition
EEAM-Q-008	Corrosion Protection
EEAM-Q-009	Quality Management
EEAM-Q-014	Specification for Electrical Motors and Generators
EEAM-Q-015	Electrical Motors and Generators - Technical Data Sheet - Annexure 1

6 TPT TO PROVIDE

- Access to site for site visit for inspection and for delivery

7 SITE INFORMATION

The site is at the Bulk Ore Terminal in the Port Elizabeth Multipurpose Terminal. Delivery will be made to Workshop 17 store 8. Access will be from the existing public and maintenance road networks. Access to the Port will be subject to the TNPA and TPT security requirements and regulations.

PORT ELIZABETH MULTI-PURPOSE TERMINAL

Document Title:

SCOPE OF WORK^{AA}

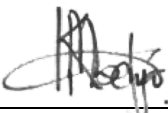
Project Title:

Supply and delivery of long travel mechanical drives for Transnet SOC limited (Reg. No. 1990/000900/30) operating as Transnet Port Terminals (hereinafter referred to as "TPT") at the Port of Port Elizabeth Multi-Purpose Terminal as a once off purchase.

DESCRIPTION OF THE WORKS: SUPPLY AND DELIVERY OF LONG TRAVEL MECHANICAL DRIVES FOR TRANSNET SOC LIMITED (REG. NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERRED TO AS "TPT") AT THE PORT OF PORT ELIZABETH MULTI-PURPOSE TERMINAL AS A ONCE OF PURCHASE.



DOCUMENT PREPARATION

	Name	Title	Signature	Date
Compiled by:	Kwandiwe Kalipa	EIT		11.12.2023
Reviewer by:	Zukisa Mboto	Technical Manager		11/12/2023
Approved by:	Khulisa Mbenya	Engineering Manager		11.12.2023

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1 BACKGROUND

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- Ship loaders

To ensure spares availability for each equipment and reduce long duration breakdowns which have a negative impact on productivity.

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Stacker A&B	Type: Helical bevel Power: 11 kW Potential: 400 Volts, 3 phase Output speed: 29.19 RPM Ratio: 50.35 Motor speed: 1460 RPM Motor pole quantity: 4 Mounting orientation: Vertical, Right hand side with RC30/230 – 90-115 Drawing no.: H500302-2-340-M-GA-0002-01-1BM Quantity: 1 Type: Helical bevel Power: 11 kW Potential: 400 Volts, 3 phase Output speed: 29.19 RPM Ratio: 50.35

	Motor speed: 1460 RPM Motor pole quantity: 4 Mounting orientation: Vertical, Left-hand side with RC30/230 – 90-115 Drawing no.: H500302-2-340-M-GA-0006-01-1BM Quantity: 1
Reclaimer A&C	Type: Helical bevel Power: 11 kW Potential: 400 Volts, 3 phase Output speed: 11.75 RPM Ratio: 122.46 Motor speed: 1460 RPM Motor pole quantity: 4 Supplied with RC30/230-90-115 Drawing no.: H500302-2-440-M-GA-0010-01-1BM
Reclaimer B	Type: Helical bevel with hollow shaft and shrink disk Potential: 400 Volts, 3 phase Output speed: 12 RPM Ratio: 122.39 Motor speed: 1440 RPM Motor pole quantity: 4 Rectifier: BGE 1.5 Drawing no.: Not Available (Supplier must provide shop drawings on delivery)
Ship loader A&B	Type: Helical bevel Power: 11 kW Potential: 400 Volts, 3 phase Output speed: 29.19 RPM Ratio: 50.35 Motor speed: 1460 RPM Motor pole quantity: 4 Mounting orientation: Vertical, Right-hand side with RC30/230 – 90-115

	Drawing no.: H500302-2-450-M-GA-0007-01-2BM Quantity: 1 Type: Helical bevel Power: 11 kW Potential: 400 Volts, 3 phase Output speed: 29.19 RPM Ratio: 50.35 Motor speed: 1460 RPM Motor pole quantity: 4 Mounting orientation: Vertical, Left-hand side with RC30/230 – 90-115 Drawing no.: H500302-2-450-M-GA-0006-01-2BM Quantity: 1
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- Each motor must be fitted with:
 - 3x thermistors (one per phase)
 - 2x PT100 3 leads (one per bearing)
 - 2x anti condition heaters (230V, AC)
 - Brakes suitable for marine conditions
 - All motors must be SABS certified or equivalent and certificate to be included in data pack submitted upon delivery.
- Supply all mechanical drives with transmission components e.g. BIKON rigid coupling for mounting, torque arm bracket.
- Each mechanical drive must have a signed quality test/inspection report submitted when delivering the drives.
- The mechanical drives must be supplied with signed off and stamped shop drawings detailing the specifications and mounting dimensions of the mechanical drives.
- Paint specification for the drives is HE 9/2/8 (latest version) see Annexure F.
- The mechanical drives shall be supplied in a wooden crate to accommodate easy lifting with a forklift and easy storage.

Proposed to be supplied long travel mechanical drive Original Equipment Manufacturer (OEM)/agent must have a distribution or Service Centre within South Africa for spare availability and timely repairs. Location of OEM service centre or distribution centre must be submitted as evidence.

4 RETURNABLE DOCUMENTS

- 4.1 The Service Provider must provide a sample Quality Control Plan (QCP) for mechanical drives or geared motors for a similar project previously executed, the sample QCP shall have activity/requirement, specifications, acceptance criteria, approval status, and controlling documents. This must be accompanied by a quality management certificate copy for ISO 9001:2015. Quality Assurance – Returnable schedule T1.
- 4.2 The Service Provider must submit reference letters for previous works related to the supply and delivery of mechanical drives. The Service Provider must have a traceable track record, submit three (3) reference letters of completed work from previous clients and this must be relating to supply and delivery with contactable references. The reference letters should be attached to Returnable schedule T2.
- 4.3 The Service Provider must provide technical datasheets for the three (3) different drives to be supplied for the various machines. The technical data sheets shall show that the drives are completely compatible and interchangeable with the existing mechanical long travel drives on the machines. This shall be in terms of mounting, shafts, torque arm, ground clearance of the gearboxes, electrical specification of the motors and output speed. - Returnable schedule T3.
- 4.4 The Service Provider must provide a signed confirmation on a company letterhead with relevant details as confirmation that the long travel mechanical drives' manufacturer/agent is based in South Africa or has a distribution or service centre within South Africa to allow for spare availability and timely repairs. Manufacturer/agent location confirmation – Essential Returnable schedule T4.
- 4.5 The Service Provider must provide a signed confirmation on company letterhead confirming compliance to scope of work and delivery of all required mechanical drives. Letter must also confirm that the mechanical drives are fully compatible with the

machines with no requirement for modifications for installation. Scope requirement compliance – Essential Returnable schedule T5.

- 4.6 The Service Provider must provide a signed confirmation on company letterhead that a data pack will be submitted upon delivery containing full information of: (1) Quality check before delivery report (to include any/all tests conducted), (2) signed off and company stamped shop drawings of mechanical drives, (3) Warranty period for mechanical drives, and (4) Maintenance manual for mechanical drives - Essential Returnable schedule T6.
- 4.7 The Service Provider shall submit confirmation of guarantee on a company letterhead indicating the guarantee of the supplied mechanical long travel drives in accordance with the requirements of the scope and for a period not less than 12 months after delivery of the mechanical long travel drives - Essential Returnable schedule T7.
- 4.8 The Service Provider must provide a signed confirmation on company letterhead for the lead time for the supply and delivery of mechanical drives. A Project plan with a project roadmap, lead time, key milestones, and a communication plan must also be attached. TPT requires at most 20 weeks lead time. Project plan – Essential Returnable Schedule T8.

5 SPECIFICATION AND STANDARDS APPLICABLE TO THE WORK

In Table 3, the guiding codes the supplier needs to adhere to:

Table 3: Applicable Standards for Works

Guiding Code	Definition
EEAM-Q-008	Corrosion Protection
EEAM-Q-009	Quality Management
EEAM-Q-014	Specification for Electrical Motors and Generators
EEAM-Q-015	Electrical Motors and Generators - Technical Data Sheet - Annexure 1

6 TPT TO PROVIDE

6.1 Access to site for site visit for inspection and for delivery

7 SITE INFORMATION

The site is at the Bulk Ore Terminal in the Port Elizabeth Multipurpose Terminal. Delivery will be made to Workshop 17 store 8. Access will be from the existing public and maintenance road networks. Access to the Port will be subject to the TNPA and TPT security requirements and regulations.

ANNEXURES

Annexure A: Stacker L/H long travel mechanical drive drawing

Annexure B: Stacker R/H long travel mechanical drive drawing

Annexure C: Reclaimer A&C long travel mechanical drive drawing

Annexure D: Ship loader A&B L/H long travel mechanical drawing

Annexure E: Ship loader A&B R/H long travel mechanical drawing

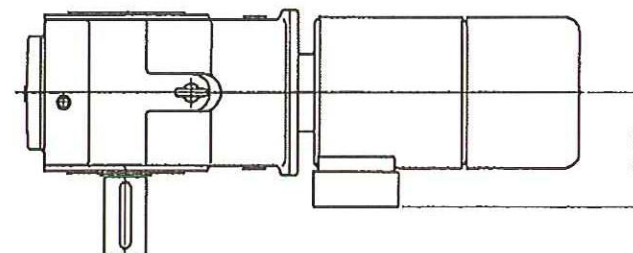
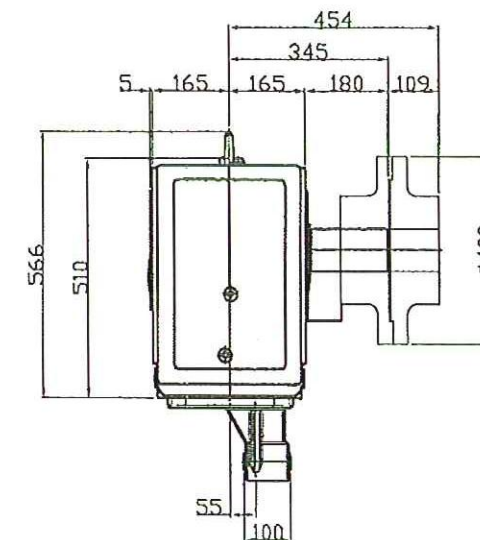
Annexure F: EEAM-Q-008 - Corrosion Protection

Annexure G: EEAM-Q-009 - Quality Management

Annexure H: EEAM-Q-014 - Specification for Electrical Motors and Generators

Annexure I: EEAM-Q-015 - Electrical Motors and Generators – (Technical Data Sheet - Annexure 1)

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ENG. MANAGER	F.U		10 04 0
AREA MANAGER			
PROJECT MGR.			

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	DISCIP. ENG.			
	ENG. MANAGER			
	AREA MANAGER			

PR.ENG. / PR.TECH.	
NAME	DATE
SIGNATURE	
REG. NUMBER	
SCALE :	1:15

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PE MANGANESE TERMINAL REFURBISHMENT
TPT - PORT EXPORT SYSTEM
STACKER
LONG TRAVEL DRIVE (L/H SIDE)
PDNRD-8026

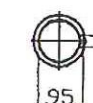
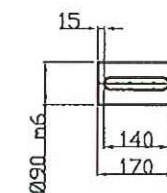
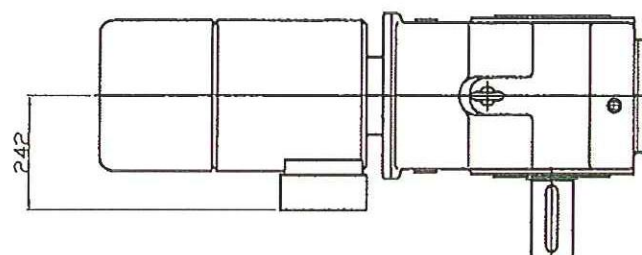
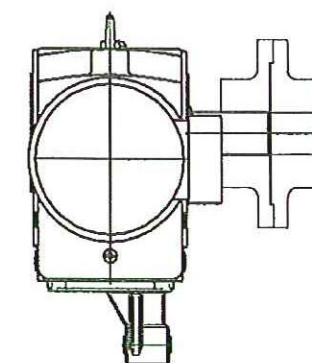
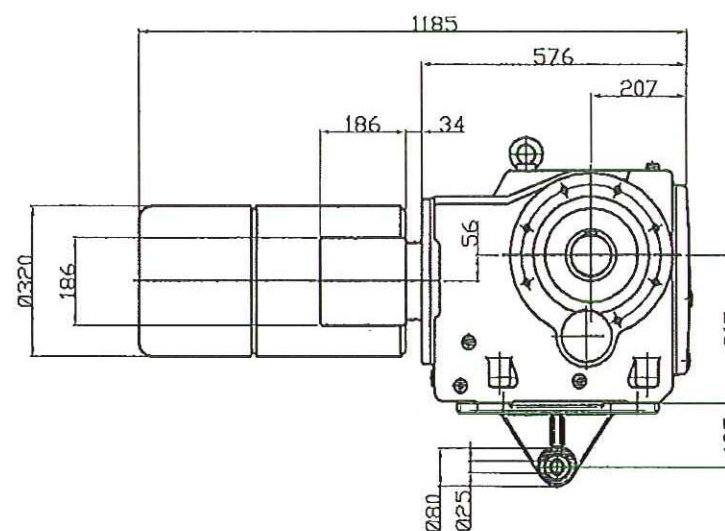
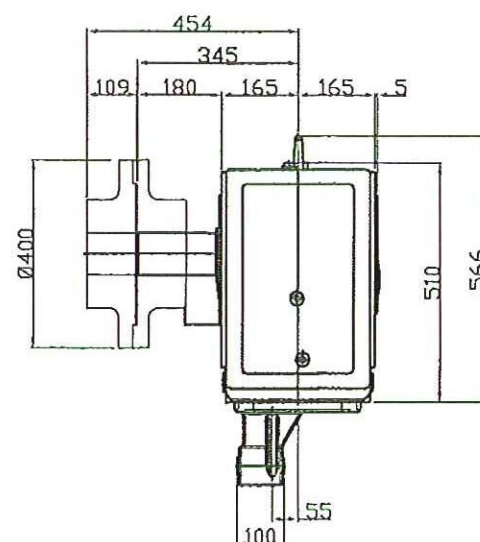
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SK9072.1VZK - 160M/4BRE150
WITH RC30/230 - 90-115

NOTE:

1. GEARED MOTOR TO BE MOUNTED IN A VERTICAL POSITION
2. MOTOR TO BE SUPPLIED WITH:
 - 3x THERMISTORS (ONE PER PHASE)
 - 2x PT100 3 LEADS (ONE PER BEARING)
 - 2x ANTI CONDITION HEATERS (230V. AC)

BINDER BRAKE - 7760019A00

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PE MANGANESE TERMINAL REFURBISHMENT
TPT - PORT EXPORT SYSTEM
STACKER
LONG TRAVEL DRIVE (R/H SIDE)
PDNRD-8027

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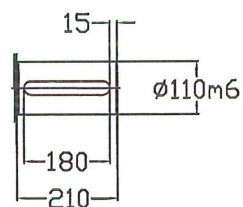
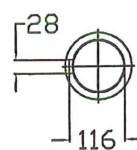
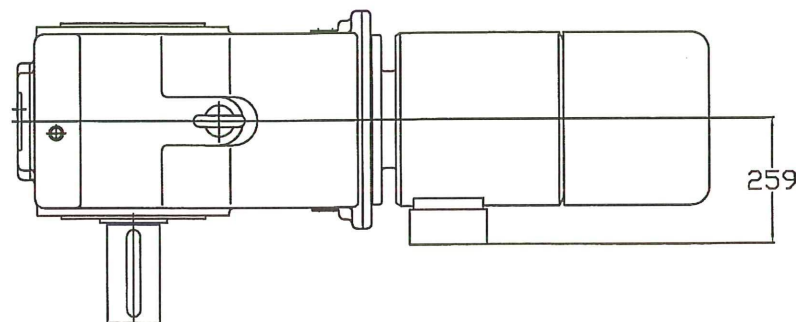
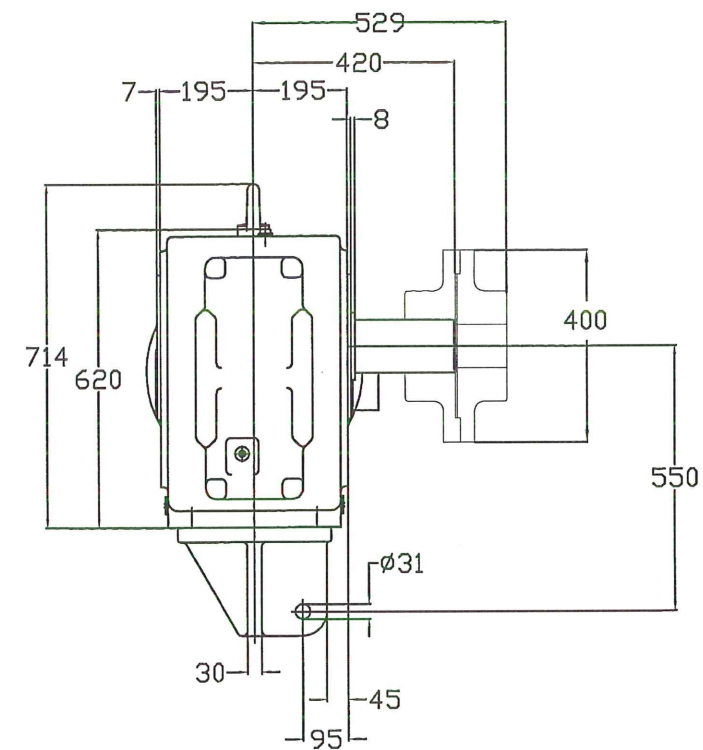
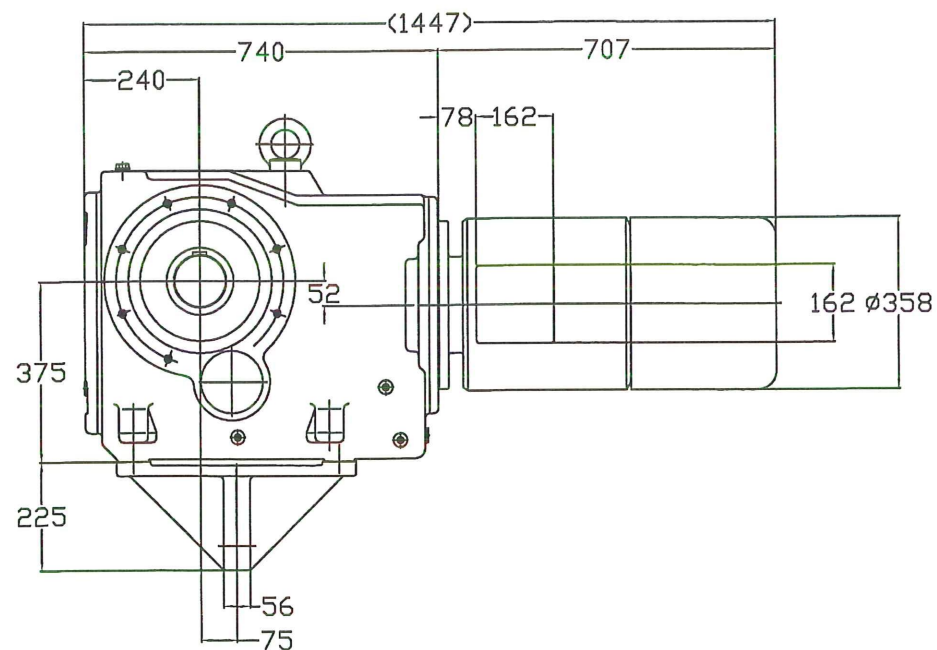
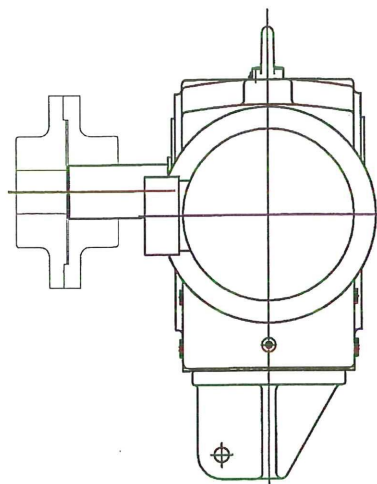
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Joint VentureSK9082.1VZK-122 - 160M/4BRE250 400V
WITH RC30/230 - 90-115

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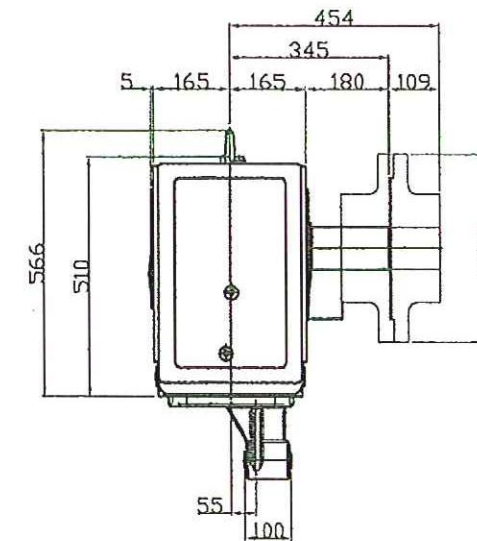
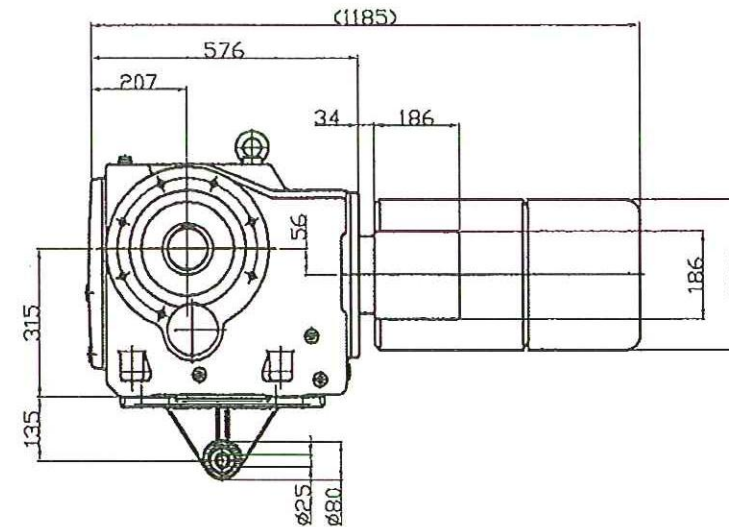
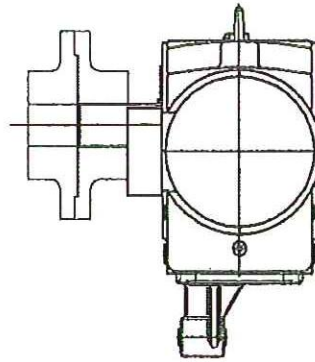
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LONG TRAVEL DRIVE
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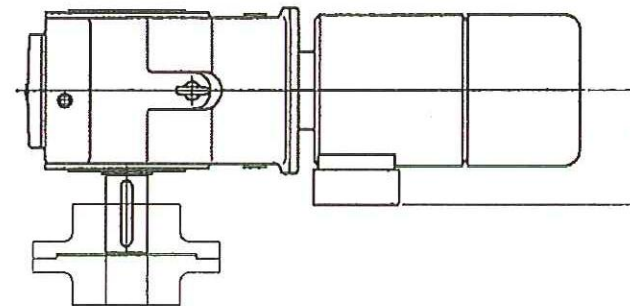
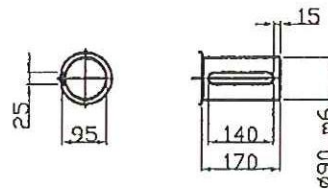
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DRAWING NUMBER

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NOTE:

1. NORD GEARBOX - SK 9072.1 VZK
2. NORD DEDICATED MOTOR - 11kW, 160M, 4P, 400V.
3. GEARED MOTOR TO BE MOUNTED IN THE H3 (M4) POSITION. TERMINAL BOX TO BE MOUNTED IN POSITION 1, ENTRY 4.
4. MOTOR FITTED WITH:
3x THERMISTORS (ONE PER PHASE)
2x PT100 3 LEADS (ONE PER BEARING)
2x ANTI CONDITION HEATERS (230V, AC)
BINDER BRAKE - 7760019A00 (SUITABLE FOR MARINE CONDITIONS)
5. RATIO 50.35:1
6. FITTED WITH TRANSMISSION COMPONENTS (BIKON) RIGID COUPLING RC30/230/400 - 90/115
7. PAINT SPEC: HE 9/2/8 (VERSION 16)
8. GEARED MOTOR SUPPLIED BY BMG - 011 620 1500 OR VISIT www.bmgworld.net



BMG TECHNICAL
RESOURCES
APPROVED FOR
CONSTRUCTION

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2010-05-10

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SK9072.1VZK - 160M/4BRE150
WITH RC30/230 - 90-115

NOTES:

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ENG. MANAGER	F.V	[Signature]	10/04/09
AREA MANAGER			

PROJECT MGR. DIVISION

DIV.	TITLE	NAME	SIGNATURE	DATE
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ORIGINATOR: BMG DRIVES

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ENG. MANAGER			
AREA MANAGER			

PR.ENG. / PR.TECH.

NAME	DATE
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SIGNATURE

REG. NUMBER

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PE MANGANESE TERMINAL REFURBISHMENT
TPT - PORT EXPORT SYSTEM
SHIPLOADER
LONG TRAVEL DRIVE (L/H SIDE)
PDNRD-8018

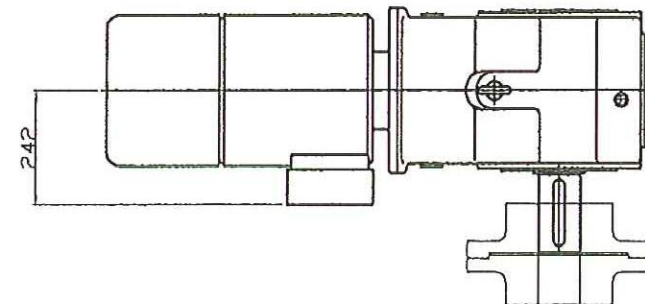
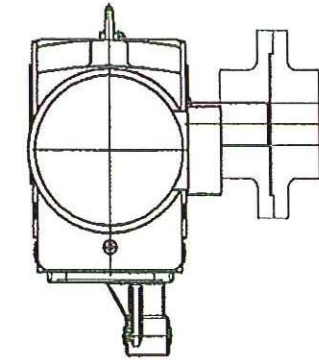
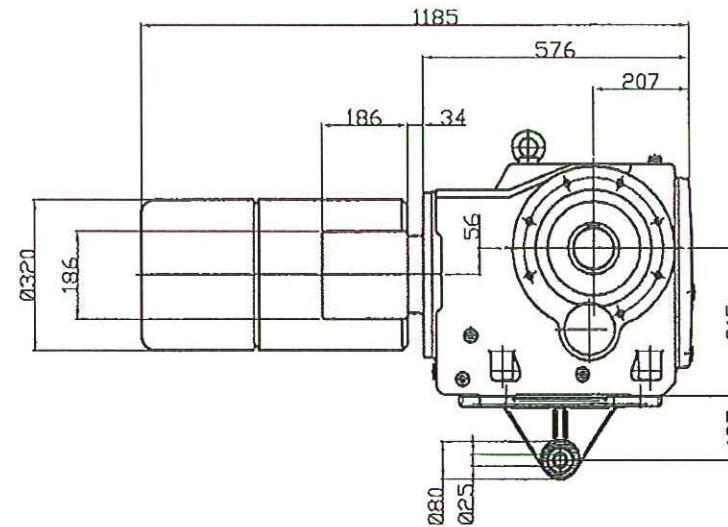
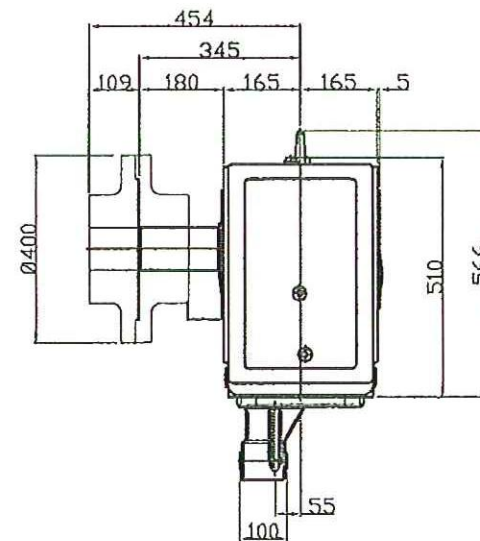
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H500302-2-450-M-GA-0007-01-2 BM
DRAWING NUMBER

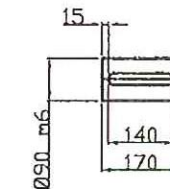
DO NOT SCALE - IF IN DOUBT, ASK



**BMG TECHNICAL
RESOURCES**
APPROVED FOR
CONSTRUCTION

NOTE:

1. NORD GEARBOX - SK 9072.1 VZK
2. NORD DEDICATED MOTOR - 11kW, 160M, 4P, 400V.
3. GEARED MOTOR TO BE MOUNTED IN THE H3 (M4) POSITION. TERMINAL BOX TO BE MOUNTED IN POSITION 1, ENTRY 4.
4. MOTOR FITTED WITH:
3x THERMISTORS (ONE PER PHASE)
2x PT100 3 LEADS (ONE PER BEARING)
2x ANTI CONDITION HEATERS (230V. AC)
BINDER BRAKE - 7760019A00 (SUITABLE FOR MARINE CONDITIONS)
5. RATIO 50.35:1
6. FITTED WITH TRANSMISSION COMPONENTS (BIKON) RIGID COUPLING RC30/230/400 - 90/115
7. PAINT SPEC: HE 9/2/B (VERSION 16)
8. GEARED MOTOR SUPPLIED BY BMG - 011 620 1500 OR VISIT www.bmgworld.net



SK9072.1VZK - 160M/4BRE150
WITH RC30/230 - 90-115

NOTES:

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TRANSNET
PE MANGANESE TERMINAL REFURBISHMENT
TPT - PORT EXPORT SYSTEM
SHIPLOADER
LONG TRAVEL DRIVE (R/H SIDE)
PDNRD-8025

Annexure F

REVISION Ver. 17		REFERENCE EEAM-Q-008			
DOCUMENT TYPE: SPECIFICATION			AUTHORISATION DATE: Date signed by CEO		
TITLE: SPECIFICATION FOR CORROSION PROTECTION				PAGE 0 of 13	
COMPILED BY: EQUIPMENT ENGINEERING AND ASSET MANAGEMENT (GENERAL MANAGER)		REVIEWED BY: SENIOR MANAGER (PROJECT MANAGER)		REVIEWED BY: SENIOR MANAGER (ASSET MANAGER)	
ACCEPTED BY: CHIEF FINANCIAL OFFICER			AUTHORIZED BY: CEO		
FUTURE REVISION RECORD NUMBER		DESCRIPTION OF REVISION		APPROVAL	
-1-				DATE 18/06/2008	
CONTENTS					
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KEYWORDS SPECIFICATION			DATE OF LAST REVIEW: N/A DATE OF NEXT REVIEW: 18/06/2008		

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1. SCOPE

- 1.1. This specification covers Transnet Port Terminals requirements for protective coating of iron and steel structures, electrical motors, gear boxes etc. against corrosion and must be read in conjunction with the main specification as well as the following (latest editions):-

SABS 064	"Preparation of steel surfaces for coating"
SABS 763	"Hot-dip (galvanized) zinc coatings"
SABS 1091	"National colour standards for paint"
BS 5493	"Code of practice for protective coating of iron and steel structures against corrosion"

2. TYPES OF CORROSION PROTECTION TO BE USED

- 2.1. The coatings specified in this specification are chosen according to BS 5439, Table 3, part 9, to ensure that the condition of the surface will be at least RE2 on the European scale of degree of rust, after 10 years in a environment of frequent salt spray, chemicals and polluted coastal atmosphere. During the 10 years, the normal maintenance painting will be done.
- 2.2. The paint manufacturer shall guarantee the paint for at least 10 years.
- 2.3. Should a tenderer wish to offer coating systems other than those specified, as an alternative, he shall submit full technical details and a list comparing all appropriate details of the alternatives proposed, with the original specified.
- 2.4. Tenderers must ensure that the different coats they offer in their tenders are compatible with each other.
- 2.5. The coating of proprietary items must be done according to Clause 3.
- 2.6. All galvanized components including bolts and nuts but excluding walkway gratings, must be painted with the specified system, unless otherwise approved.

The following coating systems must be used unless otherwise specified in the main specification:-

Substrate	Coat No	Generic Description	Approved Brand Products	Dry Film Thickness (µm)
3CR12 steel	1	Surface tolerant epoxy primer	DULUX /SIGMA Sigmacover primer INTERNATIONAL (PLASCON) Intergard 269 STONCOR (CHEMRITE COATINGS) Carboline 193 Primer	65-75
	2	Two component recoatable, polyurethane finish (Gloss)	DULUX / SIGMA Sigmadur gloss INTERNATIONAL (PLASCON) Interthane 990 STONCOR (CHEMRITE COATINGS) Carboline 134	65-75
Galvanized Steel	1	Surface tolerant epoxy primer	DULUX /SIGMA- Sigmacover primer INTERNATIONAL (PLASCON) Intergard 269 STONCOR (CHEMRITE COATINGS) Carboline 193 Primer	65-75
	2	Two component recoatable, polyurethane finish (Gloss)	DULUX /SIGMA- Sigmadur gloss INTERNATIONAL (PLASCON) Interthane 990 STONCOR (CHEMRITE COATINGS) Carboline 134	65-75

Substrate	Coat No	Generic Description	Approved Brand Products	Dry Film Thickness (µm)
Mild steel	1	Two component self curing inorganic zinc ethyl silicate OR two component zinc rich polyamide cured	DULUX /SIGMA- Sigma MC60 OR Sigma-cover primer	65-75

		epoxy primer	INTERNATIONAL (PLASCON) Interzinc 233 OR Interzinc 52 or 53	
			STONCOR (CHEMRITE COATINGS) Carbo Zinc 11 OR Carbo-line 658 Primer	
	2	Flexible recoatable high build polyamide cured MIO epoxy	DULUX/SIGMA – Sigmacover CM MIO	125-150
			INTERNATIONAL (PLASCON) Interseal 010 MIO	
			STONCOR (CHEMRITE COATINGS) Carboline 190 HB M.I.O. or Carboline 193 M.I.O.	
	3	Two component recoatable, polyurethane finish (Gloss)	DULUX/SIGMA Sigmadur gloss	65-75
			INTERNATIONAL (PLASCON) Interthane 990	
			STONCOR (CHEMRITE COATINGS) Carboline 134	

- 2.7. The paint manufacturer's recommendations for the application of the different coating systems, curing time before handling or application of subsequent coats, health and safety recommendations etc. must be carefully adhered to.
- 2.8. Paint contractors must have a quality management system which must be submitted to the Engineer for approval before commencement of the work.
- 2.9. Galvanizing shall be done to SABS 763 heavy duty hot dip galvanizing to a thickness of at least 85µm. Electroplated components in zinc or cadmium are not acceptable.
- 2.10. All mounting bolts, nuts, washers and brackets as well as all fixing bolts, studs nuts and washers shall be of stainless steel. Fixing rivets shall be of either stainless steel or brass.
- 2.11. High tensile bolts for friction grip joints must not be galvanised and must be primed and painted after installation. High tensile bolts must be certified.
- 2.12. The full paint system shall be applied to all surfaces which are to be covered with wear pads, linings etc.
- 2.13. For steelwork which will be transported over long distances and erected on site the two pack epoxy primers is preferred.

3. **PROPRIETARY ITEMS**

- 3.1. Proprietary items such as gearboxes, motors, brakes etc. must either be painted according to this specification or where the coating system is equal to or exceeds this specification sufficient proof of the coating system applied must be provided. Items which are nearly equal to this specification shall be given a finishing coat according to this specification's thicknesses and final colours and to the following procedure:-
 - 3.1.1. A cross cut test must be done to SABS SM159 to determine if the original coating adheres correctly to the substrate;
 - 3.1.2. The original coating shall be rubbed down to remove any smooth finishing to form a suitable key for the finish coat and any damaged areas prepared and patch primed with a suitable primer;
 - 3.1.3. The item must then be detergent washed to remove any foreign matter, taking care that no dust, solvent etc. contaminates any working part of the item;
 - 3.1.4. A test shall be done on the existing coat to ensure that the finish coat will not react with and cause undue dissolving and lifting of the existing coat. This can be done by applying a small quantity of the finishing coat thinners.
 - 3.1.4.1. Should any undue dissolving or lifting occur, a suitable intermediate or barrier coat must be applied before the finishing coat is applied.
 - 3.1.5. Proprietary items which failed the cross cut test and which generally have inadequate protection shall be dismantled and the full corrosion protection specification applied.

4. SURFACE PREPARATION

- 4.1. All steel surfaces shall be detergent washed and fresh water rinsed to remove all oil, grease and surface contaminants before shot blasting.
- 4.2. Sharp edges shall be radiused and major roughness of welds shall be removed by grinding. Welding spatter and flux shall be removed.
- 4.3. Components manufactured from hot rolled steel sections and steel plate shall be blast cleaned to base metal in accordance with SABS 064 grade SA2½ - very thorough blast cleaning, to remove all mill scale, rust, weld spatter etc.
 - 4.3.1. "Sharp" chilled iron shot, chilled iron grit, or granular abrasive slag is to be used to produce a proper degree of surface roughness.
 - 4.3.2. Blast profile shall be determined by micrometer profile gauge, Keane-Tator surface profile comparator or Testex press-o-film.
 - 4.3.3. The profile height shall be between 40 and 50µm at any point.
- 4.4. Good quality blast cleaning and spray painting equipment shall be used. Air used for spraying and blast cleaning shall be free from all traces of oil, water and salinity. Water and oil traps must be fitted to all equipment.
- 4.5. Wheel abrading equipment shall not be used unless an angular profile the same as clause 4.3.3 is achieved.
- 4.6. When wet blasting is done the primer shall be applied before oxidization starts or surface contamination occurs.
- 4.7. Components manufactured from 3CR12 steel shall be lightly abraded. The components shall then be passivated by using a mixture of 10 - 15% nitric acid in water which is rinsed off after 10 - 15 minutes. The surface shall be neutralized to pH 7 before it is coated.
- 4.8. Hot-dip galvanized components, galvanized bolts and nuts etc. shall be lightly abraded with a galvanizing pre-cleaner. The components shall then be washed with detergent and water and washed down with clean water until a water break free surface is achieved. Allow to dry thoroughly.

5. JOINTS AND MATING SURFACES OF MEMBERS

- 5.1. Mating (faying) surfaces of members which have to be joined by high tensile steel bolts in friction grip shall be cleaned according to Clause 4 and painted with primer only.
 - 5.1.1. After being assembled joints so formed shall be seal welded and painted or after the intermediate coat was applied the edges shall be sealed with an approved brand of paintable flexible sealant or mastic (e.g. Butyl rubber, polyurethane sealer or two component epoxy), by means of a suitable caulking gun.
- 5.2. All rivets, bolts, welds, sharp edges etc. must be covered with a "stripe coat" of the primer or intermediate coat specified to ensure the correct dry film thickness on sharp edges, as well as sealing of bolt threads to head etc.
- 5.3. All other mating surfaces must be sealed with an approved brand of flexible Butyl rubber, paintable Silicone, polyurethane sealer or two component epoxy sealer, and joined while still wet. All excess compounds must be completely removed.

6. PAINTING PROCEDURES

- 6.1. Directly before the application of paint, the area to be painted shall be degreased with a suitable degreaser and left to dry.
- 6.2. Paint shall only be applied under the following conditions:-

- 6.2.1. There is adequate light.
- 6.2.2. The steel temperature is between 5 and 50°C and at least 3°C above the dew point of the air.
- 6.2.3. The relative humidity of the air is between the limits specified by the paint supplier.
- 6.2.4. Wind does not interfere with the method used and sand and dust cannot be blown onto wet paint.
- 6.3. Steelwork shall be supported on trestles, at least 900 mm off the ground for painting purposes.
- 6.4. An adequate number of test readings shall be taken per square meter in order to determine the dry film thickness.
 - 6.4.1. The paintwork shall be acceptable if the average of the test readings taken falls within or exceeds the ranges given.
 - 6.4.2. Paintwork shall not be acceptable if any single test reading is less than the specified minimum thickness.
- 6.5. An ultrasonic or electronic magnetic flux thickness measurement gauge shall be used, but in case of dispute, destructive testing shall be applied. The painted steelwork shall present a clean, neat appearance of uniform colour and gloss as applicable to the paint used. Each coat of paint shall be applied as a continuous, even film of uniform thickness. More than one application of paint may be required to achieve the dry film thicknesses specified or to obliterate the colour of the previous coating.
- 6.6. The use of thinners or solvents at any stage of the work is prohibited, unless specified by the paint manufacturer.
- 6.7. Precautions shall be taken to prevent coatings from being applied to equipment nameplates, instrument glasses, signs etc.

7. COLOUR CODES

Machinery and equipment shall be painted in the following final colours:-

	Area	Colour	Code No. [SABS 1091 and International No's]
7.1.1	Mobile equipment (cranes, loaders etc.)		
	a) Structure, machinery and electrical houses, operator's cabins, chutes, hoppers etc.	Transnet Red	RAL 3020
	b) Undercarriage, travel bogies, rubber tyred rims	Transnet Red	RAL 3020
7.1.2	Industrial buildings, conveyor structures		
	a) Roofs and canopies	Pantone cool grey 10	RAL 7037 (Staubgrau)
	b) Painted walls	Pantone cool grey 3	RAL 7035 (Lightgrau) or SABS 1091 G62 (Pale grey)
	c) Steel columns, rafters, trusses	Pantone cool grey 5	RAL 7004 (Signalgrau)
7.1.3	General		
	a) Guards	Golden yellow	SABS 1091-B49 RAL 1003
	b) Sheaves	Orange	RAL 2008
	c) Cable reels (Stainless steel)	Orange	RAL 2008
	Machine buffers and parts of machine which could constitute a serious hazard	Golden Yellow (High Gloss) with Luminous green stripes in chevron pattern	SABS B49 and Luminous green

Area	Colour	Code No. [SABS 1091 and International No's]
e) Any exposed rotating part of machinery, electrical Switch-gear (other than starting and stopping devices and emergency stop control), electrical services e.g. conduit and allied fittings	Light Orange (High Gloss)	SABS 1091 B26 BS 381C-557
f) Low voltage switchgear panels where orange is not aesthetically acceptable	Light grey	SABS 1091-G29 BS 381C-631
g) Medium voltage cable trays, switchgear and motors (3,3 kV and up)	Oxford Blue	SABS FO2 BS 381C-105 RAL5003
h) Starting devices, low voltage cable trays and switchgear	Mid brunswick green (high gloss)	BS 381C-228 SABS1091-EO4 RAL6005
i) Portnet Logo	Transnet White	RAL 3012
j) Parts of stationary machinery (Electrical, motors, gearboxes, brakes, transformers, etc.)	Light Grey	SABS G29 BS 381C-631
k) Hand levers, hand wheels, oiling points, handrails on walkways, ladders	Golden Yellow (High Gloss)	SABS 1091 B49 BS 381C-356
l) Stopping devices, grease points, motor fan covers and danger signs (not symbolic safety signs for which see SABS 1186)	Signal red (High Gloss)	SABS 1091 A11 BS 381C-537 RAL3001
m) Walkways (non slip surfaces) (galvanized gratings not to be painted)	Shop floor green	
n) Informatory signs and notices (not symbolic safety signs for which see SABS 1186)	White on Emerald Green (High Gloss)	White on SABS 1091 E14 BS 381C- 228

Area	Colour	Code No. [SABS 1091 and International No's]
7.1.4	Pipe lines	
	a) Reclaim water piping	Aluminium
	b) Slurry pipe lines	Dark admiralty grey
	c) Fire protection piping	Signal red
	d) Washwater drain pipes	Light grey
	e) Instrument air	White with Strong blue band
	f) Plant air	White with Flag blue band
	g) Potable water	Grass green

7.1.5 Colour bands for pipes shall be 75 mm wide for pipe sizes up to 150 mm diameter and 100 mm wide for 150 mm and above. The colour bands shall be applied to the pipe flanges, valves, junctions, walls or structures etc. in such a manner that the pipe may be easily identifiable. On straight sections the maximum spacing shall be 100 x the pipe diameter.

8. FIELD TOUCH-UP PAINTING

8.1. Damaged and unpainted areas, fasteners, welds, etc. shall be cleaned by wire brushing with hand tool or power tool in a manner which will minimize damage to sound paint. Grinding will not be allowed. Rust spots shall be cleaned to bright metal. Thick edges of old paint abutting on bare metal surfaces shall be feathered by scraping and sanding.

8.1.1. Where welding is required on areas already coated with the coating system, the coat should be stepped back for ± 30 mm around the weld area.

8.2. The paint shall be applied to match the original coats in accordance with the manufacturer's recommendations for the specific paint system.

Note: Inorganic zinc primers shall not be re-covered with an inorganic primer, but only with an organic zinc primer.

8.3. Areas of damaged galvanizing shall be repaired with an approved cold galvanizing product or metal sprayed by the wire spraying process with Zinc, and then touched up with the specific paint system.

9. GENERAL

9.1. All walkways, floors, maintenance platforms etc. must be painted with a durable, non skid coating of the appropriate colour.

9.2. Exposed machined surfaces must be coated with a strippable corrosion inhibitor (e.g. Tectyl).

9.3. Where different materials will be in contact with each other and galvanic corrosion can occur the contact areas of the materials must be isolated from each other or the joints made water proof to prevent ingress of moisture.

9.4. All components must be designed with corrosion prevention in mind and specifically the following:-

- 9.4.1. No entrapment of dirt, product, moisture etc.
- 9.4.2. No areas must be inaccessible for maintenance such as too narrow gaps etc.
- 9.4.3. Large flat areas rather than complicated shapes and profiles.
- 9.4.4. No sharp corners and discontinuous welds.
- 9.5. Parts of equipment which are exposed to high temperatures must be coated with the following system:-

Coat No	Generic Description	Approved Brand Products	Dry Film Thickness (µm)
1	Two component self curing inorganic zinc ethyl silicate	DULUX /SIGMA-Sigma MC60 INTERNATIONAL (PLASCON) Interzinc 233 STONCOR (CHEMRITE COATINGS) Carbo Zinc 11	65-75
2	Single component high temperature moisture curing silicone with aluminuim flakes	DULUX/SIGMA – Sigmatherm Silicate INTERNATIONAL (PLASCON) Intertherm 50 STONCOR (CHEMRITE COATINGS) Carboline 1248	40

10. MAINTENANCE PAINTING OF STRUCTURES

- 10.1. Areas which are only lightly corroded must be cleaned by means of high pressure water blasting or wire brushing by power tool and the following system applied:-

Coat No	Generic Description	Approved Brand Products	Dry Film Thickness (µm)
1	Surface tolerant two pack epoxy primer with aluminuim pigments	Dulux/SIGMA Aluprimer STONCOR (CHEMRITE COATINGS) Carbomastic 15 INTERNATIONAL (PLASCON) Intergard 468,	125-150
2	Same as first coat OR micaceous iron oxide (MIO) epoxy	DULUX/SIGMA – Sigmacover CM MIO	125-150

		INTERNATIONAL (PLASCON) Interseal 010 MIO	
		STONCOR (CHEMRITE COATINGS) Carboline 190 HB M.I.O. or Carboline 193 M.I.O.	
3	Two component recoatable, polyurethane finish (Gloss)	DULUX/SIGMA Sigmadur gloss	65-75
		INTERNATIONAL (PLASCON) Interthane 990	
		STONCOR (CHEMRITE COATINGS) Carboline 134	

10.1.1. Alternatively, the Noxyde paint system can be used, consisting of two to three coats of water based Noxyde paint to achieve a DFT of 350 to 400 microns. Where the Noxyde system is used on areas other than slightly corroded structural areas, the following additional requirements must be observed:

- 10.1.1.1. Very smooth surfaces (e.g. 3CR12, stainless steel or hot-dip galvanized components, bolts, nuts and fittings, and HT bolts): Parts must be thoroughly degreased using OptiDegreaser, washed down with potable water, and immediately when dry, a single coat of OptiPrimeAqua applied.
- 10.1.1.2. Paintable flexible sealant/mastic: Only sealant approved by the paint manufacturer may be used, and an initial coat of OptiPrimeAqua applied over it before the further coats of Noxyde are applied.
- 10.1.1.3. Bolted/rivited connections: After blasting or and/or cleaning as required, apply a coat of OptiPrimeAqua and an additional stripe coat of Noxyde, in contrasting colour, to all bolt/nut and plate edges and crevices.

- 10.2. The adhesion of old coatings must be verified by doing a cross cut adhesion test on selected areas.
- 10.3. The compatibility of the new paint system on the old coating must be tested and guaranteed in writing by the paint supplier.
- 10.4. The work and coating system must be guaranteed for a minimum of 12 months.
- 10.5. All heavily corroded areas must be shot blasted to minimum SA2 and the three coat system indicated in clause 2.6 applied.
- 10.6. Areas where the old coating is still sound need only be high pressure cleaned with a suitable solvent and coated with one of the primers suggested in clause 10.2 (as tie coat) and then with one of the top coats suggested in clause 2.6 to get the appropriate colour and finish. The minimum dry film thickness of this tie coat must be 75 microns and top coat must be 50 microns, but the previous coating colour shall be completely obliterated to present a uniform colour.

Note: Inorganic zinc primers shall not be re-covered with an inorganic primer, but only with an organic zinc primer.

- 10.7. Repairs to the insides of all the enclosed sections of the booms as well as the insides of the crane legs, sill beams, cross beams, pylon cross bracing members etc. shall be done as above but the top coat need not be applied.

***** END OF SPECIFICATION HE 9/2/8 [Version 17] *****

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1. Introduction

This Specification outlines the minimum requirements to ensure that products and services supplied to Transnet Port Terminals are manufactured, provided, constructed or installed in accordance with all specified requirements as defined in the Contract, all associated specifications, drawings, codes and standards.

2. Definitions

Term, Abbreviation	Meaning
Data	All drawings/documents/data/information and DP's required to be supplied under the Contract
Data Pack (DP)	A compilation of manufacturing data, certification, inspection and testing records prepared by the Supplier/Contractor to verify compliance with the Contractual requirements.
Employer	For the purposes of this document, the term Employer has the same meaning as applied to the term Client.
Field Inspection Checklist (FIC)	A document that details the checks, requirements and test parameters for each type of equipment to permit field installation and pre- commissioning of the equipment.
TPT	Transnet Port Terminals is the Employer's Nominated Agent in terms of the Conditions of Contract.
Inspection Release Report (IRR)	A document issued to the Supplier/Contractor by TPT advising release of the Materials for shipment. This does not relieve the Supplier/Contractor of its obligations in accordance with the Terms and Conditions of the Contract.
Inspection Waiver Report (IWR)	A document issued to the Supplier/Contractor by TPT advising that TPT has waived final inspection for the materials listed in this document. The issue of this Report does not preclude further inspection by TPT, is issued without prejudice and does not relieve the Supplier/ Contractor from the guarantees and obligations included in the Contract/ Contract. A document prepared by the Supplier/Contractor providing relevant information applicable to the installation and maintenance of the specific equipment, including consumables (eg. oils etc)
Project Quality Plan (PQP)	A document that outlines the Supplier/Contractor's strategy, methodology, resources allocation, Quality Assurance and Quality Control coordination activities to ensure that Goods and Services supplied meet or exceed the requirements defined in the Contract, drawings, codes and standards.
Quality Control Plan (QCP)*	A document outlining specific manufacturing / construction inspection and testing requirements, including responsibilities, test acceptance criteria, nomination of witness and hold points. For the purposes of this document, the term Supplier/Contractor has the same meaning as applied to the term Sub-Supplier/Sub-Contractor
Supplier/Contractor	This refers to the documentation required to be submitted by the relevant Supplier / Contractor in terms of the Contract.
Supplier/Contractor Data Requirements	These requirements are generally tailored to suit the particular Scope of Work, although it also addresses the manner in which the documentation is required to be submitted, eg Hard copy, Electronic copy etc
Technical Query Note (TQN)	This refers to a document used by the Supplier/Contractor to formally clarify a Technical Query related to the scope of supply. This should not be used where a non-conformance has already been initiated.

3. Applicable Documents

3.1 General

All work performed shall comply with the requirements of this Specification, the documentation referenced in the Contract and the latest revision/edition of the relevant Codes and Standards referenced herein.

3.2 Statutory Regulations

Occupational Health & Safety Act, Act No 85, of 1993 and Regulations as amended.

3.3 Codes and Standards

Document No.	Title
ISO 9001	International Standard Series Quality Systems
EEAM-Q-013	Punch Listing Standard

4. Quality System

4.1 General

The Supplier/Contractor shall be responsible for all quality activities necessary to ensure the Work meets the requirements specified in the Contract, and shall manage and coordinate all Quality aspects of Work in accordance with the requirements of this Specification, and the Supplier/Contractor's PQP and QCP's once reviewed and approved by TPT.

The Supplier/Contractor shall ensure that all Sub-Suppliers/Sub-Contractors also conform with the requirements of this Specification.

4.2 Supplier/Contractor Quality System Requirements

The Supplier/Contractor shall have, maintain and demonstrate its use to TPT, its documented Quality Management System. The Supplier/Contractors Quality Management System should be in accordance with the International Standard ISO 9001.

The Supplier/Contractor shall submit its Quality System documentation to TPT at the time of tender and at Contract Phases as detailed below:

- Project Quality Plan
- Quality Policy
- Index of Procedures to be used
- Programme of internal and external audits

4.3 Supplier/Contractor Documentation Requirements

The Supplier/Contractor shall develop and maintain a comprehensive register of documents that will be generated throughout the project, and shall include all quality related documents. The register shall be submitted to TPT for review.

TPT shall indicate those documents required to be submitted for information/review and/or acceptance and this shall be indicated in the Supplier/Contractors' Document Register. The register shall indicate the dates of issue of the documents taking into account sufficient time to allow TPT review/acceptance cycle prior to the document being required for use.

5. Quality Assurance

5.1 Project Quality Plan

Where specified, the Supplier/Contractor shall submit a PQP to TPT within 28 days after the Contract start date. The PQP shall detail how the Supplier/Contractor's Quality System will be applied to the Scope of Work specified in the Contract, and shall address the following:

- Satisfying the technical and quality requirements of the Supplier/Contractor's Scope of Work, and relevant elements of the applicable ISO 9001 standard
- include all quality activities relevant to the Scope of Work, identifying all procedures, reviews, audits, controls and records used to control and verify compliance with the specified Contractual requirements

Include a listing of all special processes (eg. welding and non-destructive testing, cube testing etc) envisaged for use, including confirmation of personnel certification as required

- Include all proposed method statements (for site based work activities)
- Include a description of the Supplier/Contractor's project organisation, with key positions and responsibilities identified and individuals named. The organisation structure shall also indicate the resources committed to the management / coordination of QA / QC activities
- Include a listing of all Quality Control Plans (QCP's), and associated Field Inspection Checklists (FIC's), as applicable
- Identify in the Project Quality Plan any Sub-Supplier/Sub-Contractor work. Sub-Supplier/Sub-Contractor plans shall be approved by the Supplier/Contractor, and a copy forwarded to the TPT
- Include the proposed Authorised Inspection Authority (where applicable - for pressurised equipment and systems)
- Include a schedule of proposed quality records

The PQP shall be controlled and re-submitted for approval when required to incorporate any change necessary during the Contract duration to ensure that the document is maintained as an effective control, change management and records. The change management will be done to an agreed policy or procedure.

Note: Where the Supplier/Contractor is required to provide a PQP, no work shall commence until the PQP is approved by TPT.

5.2 Procedures

The Supplier/Contractor's PQP and procedures shall address the system elements and activities appropriate to the Scope of Work, in compliance with the specified Quality Standard.

Where specified, the Supplier/Contractor shall submit copies of Quality Procedures for review. In addition, the Supplier/Contractor shall ensure that copies of all Procedures relevant to the Scope of Work are available for reference by TPT at each work location.

These will include, as applicable, the following:

5.2.1 Document Control

The Supplier/Contractor's Project Quality Plan shall provide a description of how TPT provided, Supplier/Contractor and Sub-Supplier/Sub-Contractor documents are to be managed. The description shall address as a minimum:

- Management tools and databases
- Receipt, registration and maintenance
- Internal and external distribution to Employer, third parties and Sub-Contractors
- Management of Codes, Standards and Specifications

-
- Internal review and approval routines and authorities
 - How it is ensured that the correct revisions of documents are available at the point of use including retention periods for all documentation.

5.2.2 Design Control

Where the Supplier/Contractor is responsible for any aspect of design related to their Scope of Work, the Quality Plan shall describe the Supplier/Contractor's methods and procedures for the control of these design activities.

5.2.3 Procurement

Where the Supplier/Contractor is responsible for any aspect of procurement related to their Scope of Work, the Quality Plan shall describe the Supplier/Contractor's methods and procedures for the control of these activities.

5.3 Supplier/Contractor Audits

The Supplier/Contractor shall:

- Carry out audits in accordance with its Quality System at its own and Sub-Supplier/Sub-Contractor's facilities to ensure project quality requirements are being achieved
- Include a QA Audit Schedule in the Supplier/Contractor PQP submitted to TPT prior to commencement of the Scope of Work. The Audit Schedule shall include all audits to be implemented by the Supplier/Contractor and Sub-Supplier/Sub-Contractor during the execution of the Contract
- Where stipulated in the Contract, perform an audit within three months after the Contract start date and thereafter at a minimum frequency of three months. Audit reports shall be submitted to TPT at the completion of each Audit. Where unsatisfactory performance is evident, additional audits shall be performed by the Supplier/Contractor as directed by TPT.

5.4 Transnet Port Terminals Audit

TPT reserves the right to perform quality audits or participate as an observer in Supplier/Contractor audits to verify compliance with the Contractual requirements. The Supplier/Contractor shall within a time frame as agreed upon, correct any adverse audit finding advised by TPT.

6. Inspection and Testing

6.1 General

TPT may, at its discretion perform surveillance inspection at the Supplier/Contractor's premises, SubSupplier/Sub-Contractor's premises or at the location of the Scope of Work.

Dependent on the nature of the Scope of Work and the frequency of inspections TPT may elect to have inspection personnel resident at the place of manufacture, fabrication, or assembly.

The Supplier/Contractor shall ensure free entry and access is given to TPT, certifying authorities and statutory authorities to inspect the Scope of Work and review procedures and quality records at all parts of the Supplier/Contractor's and Sub-Supplier/Sub-Contractor's premises, or at the location of the Scope of Work while any work or test is in progress.

The Supplier/Contractor shall provide TPT with all necessary tools, calibrated measuring equipment, safety equipment and workspace to verify or witness tests in progress.

While TPT is at the Supplier/Contractor's premises, the Supplier/Contractor shall provide, free of charge, reasonable facilities including office facilities and reasonable access to a telephone, facsimile machine and computer connection point.

The Supplier/Contractor shall provide notice in writing in within a time frame time as agreed upon, to allow the attendance of TPT and other representatives at nominated witness and hold points.

6.2 Quality Control Plans

The Supplier/Contractor shall prepare and submit QCP's to TPT for review in accordance with the requirements of the Contract and PQP.

QCP's shall identify all inspection, test and verification requirements to meet the Contractual obligations, specifications, drawings and related details including destructive and non-destructive testing, witness and hold points.

The Supplier/Contractor shall not commence fabrication or manufacture prior to review and approval of the applicable QCP by the TPT.

QCP's shall include reference to all tests specified in the Contract Document.

A typical format for an QCP is shown in Appendix A. The Supplier/Contractor may use its own format providing all information shown in Appendix A is included.

6.3 Inspection Points

The QCP shall identify points in the fabrication, manufacturing and/or installation process that are selected for inspection and shall be denoted by the following inspection codes:

- Hold Point (H) Inspection point in the manufacturing cycle, beyond which work shall not proceed without the specified activity, work or function being witnessed. Holding points require written notification to TPT.
- Witness Point (W) An inspection point in the manufacturing cycle that will be witnessed or verified. If TPT confirms it is unable to attend after being provided with the written notification then manufacture may proceed. Witness points require written notification to TPT.
- Review Point (R) A point at which products and quality records are verified and endorsed. Review points are not notifiable points.
- Surveillance (S) An inspection point in the manufacturing cycle during which any activity, work or function is observed. No formal notification is required.

The Supplier/Contractor shall maintain the status of testing and inspection by progressively having the QCP's signed off.

6.4 Revision to Quality Control Plans

Revision of the QCP shall be subject to the same submission, review and acceptance routines as described for the original QCP issue

6.5 Kick Off Meeting

After the Contract start date, and prior to manufacture, TPT will require a Kick Off Meeting with the Supplier/Contractor to discuss fully the implications of meeting TPT quality requirements. This meeting may be held as part of the Contract kick-off meeting for each package or may be a separate meeting, subject to the critical or complex nature of the work. This requirement for a pre-inspection meeting may be repeated when sub-Supplier/Contractors of key equipment are engaged.

After mobilization of the Contractor, and prior to the commencement of any construction activities, TPT will arrange for a Quality kick-off meeting to discuss fully the implications of meeting the projects' quality requirements. This meeting may be held as part of the formal kick-off meeting for each contractor, or may be a separate meeting subject to the critical or complex nature of the work.

6.6 Schedule of Inspection

The Supplier/Contractor shall submit a Schedule showing the proposed dates for inspections and tests nominated in the QCP where witness and hold points are required. The Schedule shall be regularly updated with progress and issued to TPT to show the current inspection and test status.

6.7 Field Inspection Checklists

For site installation and construction activities, the Supplier/Contractor shall prepare Field Inspection Checklists (FIC's) to permit inspection and testing of installed equipment and constructed facilities in accordance with the respective QCP's.

FIC's shall be provided to TPT for initial review, and shall be used to record the results of inspection and testing (where applicable), and on completion be submitted to TPT to confirm satisfactory completion of the tests and inspections at nominated QCP witness and hold points.

6.8 Inspection Notification

The Supplier/Contractor shall notify TPT in writing at least two calendar weeks prior to the advent of inspections or tests that require witnessing.

For inspections or tests within the country, arrangements shall be confirmed at least two working days before the event. For inspection and tests outside of the country, arrangements shall be confirmed at least seven working days before the event.

Inspection notifications shall include the following essential information:

- Contract Number
- Location of Inspection or Test
- Nature of Inspection or Test
- Date and Time of Inspection or Test
- Name and telephone number of the Supplier/Contractor's Representative.

6.9 Inspection and Testing

The Supplier/Contractor is responsible for the conduct of all Supplier/Contractor inspections and tests, and includes:

- Documenting inspection and tests result in the QCP's and relevant FIC's
- Progressively inspecting the quality of the Scope of Work performed, including that of all Sub-Supplier/Sub-Contractors
- Inspecting to meet all Contractual requirements, in number, type and form
- Inspecting day to day activities, material receipts, issue of material for installation, in-process inspections, and final inspections.

Completed original QCP's and FIC's shall be submitted to TPT in the DP

6.10 Inspection Release

At completion of the Scope of Work, either in total or in phases, TPT may issue an Inspection Release Report (IRR) or a waiver of inspection.

The issue of either an inspection release or waiver of inspection does not relieve the Supplier/Contractor of its obligations under the Contract. The Supplier/Contractor shall ensure a copy of the release note and final expediting release note for transport, where appropriate, is attached to the delivery docket and accompanies the Work to the designated destination indicated in the Contract. Items delivered to TPT without a copy of these documents may not be accepted.

A copy of the inspection release or waiver of inspection shall be included in the DP.

6.11 Special Processes

It is the Supplier/Contractor's responsibility to ensure that all processes which require prequalified procedures and/or work methods are tested and qualified before work begins. This typically covers such activities as welding, non-destructive testing, special fabrication techniques and painting. Unless specified such procedures are the Supplier/Contractor's responsibility and do not require submission to TPT before work begins. When such procedures are requested, no work shall commence until procedures are approved by TPT.

It is the Supplier/Contractor's responsibility to ensure all operators are qualified for the processes in accordance with the procedure and/or applicable standards. Records of qualification of operators shall be maintained by the Supplier/Contractor and made available to TPT when requested.

Records of qualification of procedures and processes shall be maintained by the Supplier/Contractor in accordance with the applicable procedure or code.

6.12 Welding Procedures

Where the Supplier/Contractor's Scope of Work includes fabricated weldments, Welding Procedure Specifications (WPS) defining the method, preparation and sequences to be adopted to achieve a satisfactory welded joint shall be provided for all weld types required in the execution of the Supplier/Contractor's Scope of Work. The procedure shall only be submitted to TPT when requested in the Contract.

WPS shall include all welding essential and non-essential variables for each process used, including appropriate test results and shall comply with the standard or code pertaining to welding required in the execution of the Supplier/Contractor's Scope of Work.

When requested in the Contract a suitably marked "weld map" shall be completed by the Supplier/Contractor for all items to be fabricated. A summary of WPS shall be prepared and when used, shall be identified on the weld map.

Where TPT approval is required, fabrication shall not commence until written approval of WPS and Welding Procedure Qualification Records (WPQR) is received by the Supplier/Contractor. No welding fabrication will be accepted that is not covered by an TPT approved WPS/WPQR.

Welding Procedure Qualification (WPQ) tests may be witnessed by TPT and/or an independent inspection authority. Testing of the specimens prepared during the WPQ Tests shall be carried out by an independent approved testing laboratory independent of the Supplier/Contractor. In certain instances, a certificate to EN 10204 3.1 B may be required which will be clarified at Tender review and clarification stage.

Where actual weld deposit analysis and weld metal physical properties are required for procedure qualification, the information shall be taken from the procedure qualification tests. Data listed in the catalogues of the manufacturer of welding consumables is not acceptable.

Welders/welding operators shall be qualified in accordance with the relevant welding code prior to commencing production fabrication. Specific Welder Qualifications (WQ's) records will be reviewed by TPT in the Supplier/Contractor's works and should NOT be submitted for review.

A register of welders qualified to work shall be maintained by the Supplier/Contractor.

6.13 Material Traceability

Where, and to the extent that material traceability is required, the Contractor shall provide its procedures for the maintenance of material identification throughout all phases of manufacture. Methods of identification, routines for re-stamping or stencilling as appropriate shall be defined and agreed with the Employer.

Adequate records shall be maintained throughout construction enabling traceability of key materials from final product back to original material certificates. The material traceability records shall form part of the DP

The Contractor shall prepare a schedule of materials and equipment that are subject to traceability requirements.

6.14 Material Certification

Where specified in the Contract the following certificates shall be provided to TPT and included in the DP.

Type A:	A Supplier/Contractor's certificate of compliance with the Contract. This certifies that the goods or services are supplied in compliance with the Contract without mention of any test results (EN10204 certificate 2.1).
Type B:	A certificate issued by a laboratory or test facility independent of the Supplier/Contractor's works. It shall quote test results carried out on the product supplied and state whether compliance with the relevant technical standard, code etc has been complied with. (EN 10204 certificate 3.1 B).
Type C:	The same as Type B, the tests are to be witnessed by a third party (EN 10204 certificate 3.1C).

7. Non Conforming Products

7.1 General

The Supplier/Contractor shall establish and maintain procedures to control material or products that do not meet the specified requirements.

All Supplier/Contractor product and/or materials identified as not conforming to requirements shall be dealt with promptly as follows:

- If the Supplier/Contractor discovers material or product which is not in accordance with the requirements of the Contract, i.e. a non conformance (NCR), the Supplier/Contractor shall promptly initiate the non-conformance procedure in terms of the Supplier/Contractor's Quality Management System, advise TPT promptly, and provide a copy of the NCR to TPT
- If TPT or it's agent identifies a non conformance an TPT NCR may be raised.
- Originals of all closed out NCR's shall be included in the DP.

7.2 Corrective and Preventative Action

If the Supplier/Contractor proposes a disposition of any non conforming materials or product which varies from the requirements of the Specification or Contract, such a proposal shall be submitted in writing to TPT whose decision on the proposal shall be obtained in writing before the non conforming material or product is covered up or incorporated into the Works, or is the subject of any other disposition.

The disposition of non-conformances which do not vary the requirements of the Contract, specification or drawings may be approved by the Supplier/Contractor following discussion and agreement with TPT.

8. Concession Requests and Technical Queries

8.1 Concession Requests

Where a Supplier/Contractor requests a Concession to deviate from the requirements of the Contract or specified requirements, the Supplier/Contractor shall raise the request with TPT using the format as shown in Annexure B.

The Concession Requests shall clearly identify all elements of the proposed deviation together with any resulting technical, commercial and/or schedule impacts.

Completed original Concession Requests shall be included in the DP.

8.2 Technical Queries

For clarification of technical issues (only), Supplier/Contractor may submit a Technical Query Note (TQN) to TPT in accordance with the Contract.

The TQN shall clearly identify all elements of the query, and all supporting documentation and/or drawings shall be attached where appropriate.

Completed original TQN's shall be included in the DP.

9. Inspection, Measuring and Test Equipment

9.1 Calibration

The Supplier/Contractor, including its Sub-Supplier/Sub-Contractors shall ensure the calibration of test and measuring equipment is performed and maintained in accordance with the relevant Supplier/Contractor procedures and/or the equipment manufacturer's specifications.

Where calibration is required by an external laboratory, the Supplier/Contractor shall ensure that the facility selected for calibration possesses current certification. Calibration certificates shall contain a statement that the test equipment is accurate to within specified tolerances.

The Supplier/Contractor should establish the frequency of calibration for each item of equipment (including jigs, fixtures or templates) and record the details in a 'Measuring and Test Equipment Register' (or similar).

9.2 Use of Inspection, Measuring and Test Equipment

The Supplier/Contractor shall ensure that authorised equipment users:

- Use the equipment in accordance with manufacturers instructions, and accepted industry practices
- Ensure the equipment is covered by a current calibration certificate
- Conduct the measurements or tests in accordance with the equipment manufacturer's specifications or other relevant specification
- Prior to commencement of each inspection or test activities:
 - Identify the measurements to be made
 - Determine the accuracy required
 - Select the appropriate inspection, measuring or test equipment for the scope of work.

9.3 Verification of Previous Test Results

Where the calibration status of the equipment is unknown, expired or has doubtful accuracy, the equipment shall immediately be quarantined, and tagged according to Supplier/Contractor's Quality System procedures. The Supplier/Contractor shall then arrange for either in-house or external calibration, and:

- review all previous test results associated with the suspect equipment
- identify the inspections, measurements or tests required to re-validate the results
- ensure that suitable re-testing is performed with calibrated equipment
- document the results of the re-testing on the respective inspection and test documentation.

10. Quality Records

Supplier/Contractors shall maintain Quality Records necessary to provide objective evidence that demonstrates and verifies achievement of the QA / QC requirements associated with the Scope of Work. All Quality Records, including original source material test certificates and non destructive test reports, shall be retained by the Supplier/Contractor during the project, and be provided to TPT at the times, and in the quantities specified in the Contract.

The Supplier/Contractor shall collate all quality records in the DP and submit the DP to TPT in accordance with the Contract and all referenced standards and specifications. This DP shall be compiled progressively, and shall be available for review at all phases of manufacture or construction activities.

The Scope of Work shall not be complete until the Supplier/Contractor's DP including the quality records from Sub-Supplier/Sub-Contractors have been reviewed and accepted by TPT.

The DP shall be compiled progressively during the execution of the Scope of Work and shall be made available for review by TPT as required.



Annexure A - Sample Quality Control Plan

Quality Control Plan No.:	Rev:	Date Issued:
Contract No.:	Description:	Item No.:
Supplier / Contractor:	Location:	

[illegible]

Request for Concession						
					No:	of 2
A.SUPPLIER/CONTRACTOR SUPPLIED INFORMATION						
SUPPLIER/CONTRACTOR NAME:			CONTRACT NO.:			
SUPPLIER/CONTRACTOR CONCESSION No.:			DATE:			
Required concession applicable to: (Item/Material/Equipment/Area)						
Description of Concession — Revised Requirements:						
Justification:						
(NOTE: This concession will be rejected if the following information is not provided):						
(i) VALUE OF BENEFIT TO CLIENT S/R	(ii) AGREE TO AN EXTENSION OF THE WARRANTY IF "YES" WHAT PERIOD?	YES	NO	(iii) ANY IMPACT ON SCHEDULE? CF "YES" \ VWHAT PERIOD?	NO	YES
References: Original reference: Requirements Rev.: Specification N Rev.: Drawing No.: Rev.: Specification O. Rev.: Drawing No.: Rev.: Specification : Rev.: Attached documentation: N applicable Requested by: (Supplier/Contractor) Name: Signature D Note: Sections B to F on Page 2						

<i>Request for Concession No:</i>					
B. SITE ADMINISTERED CONTRACT?	Yes ☐	Nn ☐	Go to "D"		
Possible QC implications:					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px; vertical-align: top;"> Recommendations Recommendations </td> <td style="width: 50%; padding: 5px; vertical-align: top;"> Rejected Rejected </td> </tr> </table>				Recommendations Recommendations	Rejected Rejected
Recommendations Recommendations	Rejected Rejected				
Site Construction Manager: Signature: Date:					
Site Engineer: Signature: Date:					
C. RECOMMENDATION BY CONTRACT ADMINISTRATOR: Name: Signature Date:					
D. RECOMMENDATION BY ENGINEERING: ☐ Recommended ☐ Rejected ☐ Conditional, with the following recommendations:					
Package Engineer: Signature: Date:					
Lead Discipline Engineer: Signature: Date:					
Engineering Manager: Signature: Date:					
Comments:					
E. PROJECT MANAGER DISPOSITION: Accepted ☐ Rejected ☐					
Name: Signature Date:					
F. EMPLOYER DISPOSITION: Accepted ☐ Rejected ☐					

Annexure H

REVISION 0	REFERENCE EEAM-Q-014 (ORIGINAL SPECIFICATION –HE8.2.3 Ver5)			
DOCUMENT TYPE: SPECIFICATION				
TITLE: SPECIFICATION FOR ELECTRICAL MOTORS AND GENERATORS			PAGE 0 of 06	
COMPILED BY: PROJECT ENGINEER ()	REVIEWED BY: CAPITAL PROJECTS MANAGER (DAN REDDY)	REVIEWED BY: ASSET MANAGER/SHEQR MANAGER ()		
AUTHORISED BY: GENERAL MANAGER – EQUIPMENT ENGINEERING & ASSET MANAGEMENT (HAMILTON NXUMALO)				
FUTURE REVISION RECORD NUMBER	DESCRIPTION OF REVISION	APPROVAL	DATE	
-1-				
CONTENTS 1.0 SCOPE Page 02				
KEYWORDS DESIGN, HYDRAULICS, SERVICE		DATE OF LAST REVIEW: N/A DATE OF NEXT REVIEW: 09/2005		

DETAIL CONTENTS

[illegible]

1. SCOPE

- 1.1. This Specification and Appendix covers TPT's requirements for electrical motors and generators and must be read in conjunction with the main Specification.
- 1.2. All motors offered shall have performances and dimensions complying with SABS 948, VDE 0530, or BS 4999 and BS 5000 and other relevant standards.
- 1.3. Tenderers shall furnish detailed calculations including load cycle diagrams, max. torque/ RMS comparison, service conditions, derating factors, insulation, duty type and cyclic duration factors, etc. with their tenders, indicating how they arrive at the kW rating of all machines and to support their choice of each motor. All parameters and variables used in the calculations must be clearly defined.
- 1.4. The preferred nominal voltage for AC motors under 132kW shall be 400 V 3-phase, 50 Hz.
 - 1.4.1. Motors 132 kW and above must be supplied from 3.3 kV unless otherwise approved.
- 1.5. For variable frequency variable speed drives the motor shall be correctly rated for all speeds over which it is envisaged to run the motor, and power calculations shall show the torque and kilowatts required for each speed. The highest torque needed will be determined by the power of the motor selected. The torque/speed/power relationship must be observed. The variable frequency supply unit shall have at least twice motor full load current amperage capacity.
- 1.6. The full load efficiency of electrical motors and generators shall not be less than 80%, except for motors under 3 kW in which case not less than 60%.
- 1.7. All motors shall have a minimum degree of protection of IP 54 to IEC 144, except for motors which are installed in a clean and controlled environment for which the minimum protection is IP 23.
 - 1.7.1. Suitable drain holes shall be provided at the lowest points in the machines to allow condensed moisture to escape.
 - 1.7.2. Motor frames and endshields shall be cast iron unless otherwise approved.

- 1.8. All motors shall be equipped with parallel shafts to metric standards with keyways parallel to the axis and screwed ends.
- 1.9. All motors 18,5 kW and above and all motors which can become covered with product dust, shall be fitted with the following over temperature protection equipment:-
 - 1.9.1. Positive temperature coefficient thermister (PT100) type sensors fitted to the stator windings to trip the motor overloads when the temperature reaches the maximum stipulated for class B insulation at 45°C ambient temperature;
 - 1.9.2. Bearings are to be fitted with positive temperature coefficient RTD type sensors, embedded in the bearing housing of each bearing, set to trip according to the manufacturer's specification.
- 1.10. All DC Motors must be fitted with over speed trip devices on the motor shafts.
- 1.11. All motors shall be supplied with anti-condensation heaters (unless otherwise approved), terminated in a terminal box (No loose leads).
 - 1.11.1. Low voltage heating of the stator windings may be used on small motors.
- 1.12. The insulation of all motors shall be to at least class "F". Additional impregnation shall be used for the high relative humidity conditions. Temperature rise of motors on full load shall not exceed the temperature limits as laid down for class "B" insulation.
- 1.13. The material used in construction of sliprings and brush gear shall be corrosion resistant. The insulation shall be at least class "F" and non hygroscopic and specially designed to avoid tracking due to deposition of saline moisture.
 - 1.13.1. Sliprings shall be manufactured from electrical quality brass. Brush gear shall either be brass or stainless steel.
 - 1.13.2. Sliprings shall preferably be fitted with a brush lifting and short-circuiting device.
- 1.14. Provision shall be made for easy access to sliprings, brush gear and bearings.
- 1.15. Where an electrical motor needs to be braked a suitable method shall be used e.g. mechanical, reverse current, D.C. injection, thyristor controlled etc. (Preferably electrical to 10% of rated speed, then mechanical to hold load etc.)
- 1.16. In addition to the normal data, motor name plates shall show the

following information (where applicable):-

- 1.16.1. Bearing particulars;
- 1.16.2. Lubrication data;
- 1.16.3. Thermostat details;
- 1.16.4. Anti-condensation heater details;
- 1.16.5. Grade of brush for slip rings.

1.17. Suppliers must state the specifications to which all motors and generators are manufactured.

1.18. Motor Tests and Certificates:

- 1.18.1. Type test certificates in respect of the current design of each motor or generator shall be submitted in addition to routine test certificates. Motors or generators for which type test certificates are not available are not acceptable.
- 1.18.2. One motor of each size for all motors over 30 kW must be subjected to a type test as well as routine tests at the manufacturer's premises. Tenderers must include for these costs in their offer.

1.19. Motor Starters and Controllers:

- 1.19.1. Motor starters shall comply with BS 587 and/or BS 4941 Part 1 or other relevant standards.
- 1.19.2. All motor starters shall generally be provided with the following:
 - 1.19.2.1. Switch disconnectors;
 - 1.19.2.2. Fuses for short circuit protection;
 - 1.19.2.3. Contactors;
 - 1.19.2.4. Overload, phase imbalance and single phasing protection devices;
 - 1.19.2.5. Earth leakage protection;
 - 1.19.2.6. Control relays;
 - 1.19.2.7. Under voltage protection. (Contractors dropping out to disconnect the motor from the supply when the supply voltage falls below 65% of the nominal value are acceptable);

- 1.19.2.8. Emergency stop buttons;
- 1.19.2.9. Overspeed trip devices where applicable;
- 1.19.2.10. Voltmeter and ammeter connected to the incoming supply side of the main contactor;
- 1.19.2.11. All motors 55 kW and above shall be fitted with capacitors to correct their power factor to at least 0,97 lagging.
- 1.19.3. All starters and controllers must be marked designating the type of starter, rating etc.
- 1.19.4. A diagram of connections of each motor and schematic diagram of the control circuits in booklet form, size A4 shall be housed in the main panel.
- 1.19.5. The operating voltage of the motor starter shall be 231 V AC which shall be supplied by means of a 400/231V transformer (which has an earthed screen between the primary and the secondary windings) for each motor starter panel.
- 1.19.6. All equipment associated with a motor starter shall be housed in the same cubicle/enclosure and control buttons and selector switches shall be fitted on the cubicle door.
- 1.19.7. Where low voltage motor starters are a considerable distance away or not visible from the motor, a remote start/stop station with a lockable switch disconnecter must be provided at the motor for maintenance purposes.
- 1.19.8. The type of starter shall be (based on an expected voltage drop of $\pm 5\%$ of nominal supply voltage during starting).
 - 1.19.8.1. "Direct-on-line" for motors up to 30 kW.
 - 1.19.8.2. AC variable speed drives for motors of 30 to 132 kW.
 - 1.19.8.3. Motors over 132 kW will be supplied from 3.3 kV 3-phase AC and started direct-on-line unless otherwise specified.
- 1.19.9. Tenderers may alternatively tender for electronically controlled starters and solid state motor protection devices. Full details must be submitted.
- 1.19.10. All resistors used with rotor-resistance starters shall be adequately rated for normal operating duty of the machine and shall be of robust construction, suitably protected and

enclosed and not subject to fatigue or disintegration due heating or vibration.

- 1.19.11. Starters for medium voltage motors must comply with Specification HE8/2/11.

1.20. Over-load Protection:

- 1.20.1. Motor protection relays shall comply with BS 4941 Part 1, IEC 292-1, 1975, or other relevant standards.

- 1.20.2. Motor starters up to 30 kW shall have adjustable 3 phase electronic thermal overload relays with stalled overload protection, selectable tripping class, as well as ground fault protection.

- 1.20.2.1. Motor starters of 30 kW and larger shall be fitted with current-transformer operated solid state motor protection relays.

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END OF SPECIFICATION HE8/2/3 [VERSION 5]

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Annexure I

REVISION 0	REFERENCE TPT-EEAM-Q-015															
DOCUMENT TYPE : DATA SHEET																
TITLE: ELECTRICAL MOTORS AND GENERATORS - TECHNICAL DATA SHEET - ANNEXURE 1			PAGE 0 of 2													
COMPILED BY: EQUIPMENT ENGINEERING AND ASSET MANAGEMENT (GENERAL MANAGER)		REVIEWED BY: SENIOR MANAGER (PROJECT MANAGER)		REVIEWED BY: SENIOR MANAGER (ASSET MANAGER)												
ACCEPTED BY: CHIEF FINANCIAL OFFICER		AUTHORIZED BY: CEO														
FUTURE REVISION RECORD NUMBER	DESCRIPTION OF REVISION		APPROVAL	DATE 01/04/2003												
-1-																
CONTENTS <table> <tr> <td></td> <td></td> <td style="text-align: right;">Page</td> </tr> <tr> <td>1.0</td> <td>NAME AND ADDRESS OF TENDERS</td> <td style="text-align: right;">01</td> </tr> <tr> <td>2.0</td> <td>ELECTRICAL MOTORS</td> <td style="text-align: right;">02</td> </tr> <tr> <td>3.0</td> <td>STATERS</td> <td style="text-align: right;">02</td> </tr> </table>							Page	1.0	NAME AND ADDRESS OF TENDERS	01	2.0	ELECTRICAL MOTORS	02	3.0	STATERS	02
		Page														
1.0	NAME AND ADDRESS OF TENDERS	01														
2.0	ELECTRICAL MOTORS	02														
3.0	STATERS	02														
KEYWORDS DATA SHEET		DATE OF LAST REVIEW: N/A DATE OF NEXT REVIEW: 01/06/2004														

**TRANSNET PORT TERMINALS
A DIVISION OF TRANSNET LIMITED**

TECHNICAL DATA SHEET

[Information to be completed by the Tenderer and submitted as part of his tender]

NOTE: TENDERERS SHALL LIST EVERY ITEM OF EQUIPMENT SPECIFIED IN THE SPACE PROVIDED BELOW. SHOULD THE SPACE BE INSUFFICIENT, ADDITIONAL COPIES OF THESE PAGES SHOULD BE MADE.

1	NAME AND ADDRESS OF TENDERER
----------	-------------------------------------

2	ELECTRICAL MOTORS
----------	--------------------------

2.1	Item of plant driven:	
2.2	Name of manufacture of motor:	
2.3	Manufacturer's type number:	
2.4	Type of motor[e.g. squirrel cage/slip ring]:	
2.5	Continuous at sea level [kW]:	
2.6	Speed (r.p.m.):	
2.7	Voltage rating:	
2.8	Motor characteristics:	

		FL	$\frac{3}{4}$ Load	$\frac{1}{2}$ Load	No load
2.8.1	Speed (r.p.m.)				
2.8.2	Current [A]				
2.8.3	Torque [Nm]				
2.8.4	Power factor				
2.8.5	Efficiency [%]				

2.9	Direct on line starting current [A]:	
2.10	Starting current with starter offered [A]:	
2.11	Pull-out torque [Nm]:	
2.12	Speed at pull-out torque (r.p.m.)	
2.13	Current at pull-out torque [A]:	
2.14	Type of bearing [e.g. ball/roller]:	
2.15	Type of enclosure [see IEC 144][IPXX]:	
2.16	Method of cooling [ICXX]:	
2.17	Thermal limit capacity [locked rotor time][s]:	

2.18	Mounting [foot or otherwise]:	
2.19	Shaft diameter:	
2.20	Shaft length:	

3	STARTERS
----------	-----------------

3.1	Name of manufacturer:	
3.2	Manufacturer's type number:	
3.3	Type of starter:	
3.4	Motor protection units:	
	3.4.1	Name of manufacturer:
	3.4.2	Manufacturer's type number:
	3.4.3	Type of element [e.g. thermal]
	3.4.4	Range of settings [% of full load current]:
	3.4.5	Range of trip settings [s]
	3.4.6	Earth fault protection provided/not provided:
	3.4.7	Single phasing protection provided/not provided:
	3.4.8	Phase reversal protection provided/not provided:
	3.4.9	Thermistor input provided/not provided:
	3.4.10	Short circuit trip inhibit provided/not provided:
	3.4.11	Motor start inhibit provided/not provided:
	3.4.12	Reset [auto/man]:
	3.4.13	Test trip button provided/not provided]:
	3.4.14	Star-delta transfer provided/not provided]:

TENDERER'S SIGNATURE:	DATE:

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END OF ANNUEXURE 1 [VERSION 5] TO HE8/2/3 [VERSION 5]

---oOo---

DESCRIPTION OF THE WORKS: SUPPLY AND DELIVERY OF LONG TRAVEL MECHANICAL DRIVES FOR THE STACKERS, RECLAIMERS, AND SHIPLOADER MACHINES FOR TRANSNET SOC LIMITED (REG NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERED TO AS "TPT") AT THE PORT OF PORT ELIZABETH MULTIPURPOSE TERMINAL, AS A ONCE OFF SUPPLY AND DELIVERY



Quality assurance	Essential returnable schedule used for scoring.	Returnable Document T1
--------------------------	--	-------------------------------

The Service Provider must provide a sample Quality Control Plan (QCP) for mechanical drives or geared motors for a similar project previously executed, the sample QCP shall have activity/requirement, specifications, acceptance criteria, approval status, and controlling documents. This must be accompanied by a quality management certificate copy for ISO 9001:2015. Returnable schedule must be completed and supporting documents must be attached.

Confirm the following will be included in quality assurance	X
Sample Quality Control Plan for a similar project previously executed	
ISO 9001:2015 certificate	

Signed

Date

Name

Position

Service Provider _____

DESCRIPTION OF THE WORKS: SUPPLY AND DELIVERY OF LONG TRAVEL MECHANICAL DRIVES FOR THE STACKERS, RECLAIMERS, AND SHIPLOADER MACHINES FOR TRANSNET SOC LIMITED (REG NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERED TO AS "TPT") AT THE PORT OF PORT ELIZABETH MULTIPURPOSE TERMINAL, AS A ONCE OFF SUPPLY AND DELIVERY.



Experience	Essential returnable schedule used for scoring.	Returnable Document T2
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The Service Provider must submit a reference letter for previous works related to the supply and delivery of mechanical drives. The Service Provider must have a traceable track record, submit three (3) references letters of completed work from previous clients and this must be relating to supply and delivery. Complete returnable schedule T2 and attach the reference letters.

Nature of Service	Name of Company	Contact Person	Contact Number	Value of Service	Year Completed

DESCRIPTION OF THE WORKS: SUPPLY AND DELIVERY OF LONG TRAVEL MECHANICAL DRIVES FOR THE STACKERS, RECLAIMERS, AND SHIPLOADER MACHINES FOR TRANSNET SOC LIMITED (REG NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERED TO AS "TPT") AT THE PORT OF PORT ELIZABETH MULTIPURPOSE TERMINAL, AS A ONCE OFF SUPPLY AND DELIVERY.



Signed

Date

Name

Position

Service Provider

DESCRIPTION OF THE WORKS: SUPPLY AND DELIVERY OF LONG TRAVEL MECHANICAL DRIVES FOR THE STACKERS, RECLAIMERS, AND SHIPLOADER MACHINES FOR TRANSNET SOC LIMITED (REG NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERED TO AS "TPT") AT THE PORT OF PORT ELIZABETH MULTIPURPOSE TERMINAL, AS A ONCE OFF SUPPLY AND DELIVERY

Technical Datasheet	Essential returnable schedule used for scoring.	Returnable Document T3
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The Service Provider must provide technical datasheets for the three different drives to be supplied for the various machines. The technical data sheets must be completely compatible and interchangeable with the existing mechanical long travel drives on the machines. This shall be in terms of mounting, shafts, torque arm, ground clearance of the gearboxes, electrical specification of the motors and output speed. Complete returnable schedule T3 and attached technical datasheet.

Technical Datasheet Submitted	x
Stackers & Ship-loaders	
Reclaimer B	
Reclaimer A & C	

Signed

Date

Name

Position

Service Provider _____

DESCRIPTION OF THE WORKS: SUPPLY AND DELIVERY OF LONG TRAVEL MECHANICAL DRIVES FOR THE STACKERS, RECLAIMERS, AND SHIPLOADER MACHINES FOR TRANSNET SOC LIMITED (REG NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERED TO AS "TPT") AT THE PORT OF PORT ELIZABETH MULTIPURPOSE TERMINAL, AS A ONCE OFF SUPPLY AND DELIVERY



Compliance to SOW	Essential returnable document.	Returnable Document T4
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The Service Provider must provide a signed confirmation on a company letterhead with relevant details as confirmation that the long travel mechanical drives' manufacturer/agent is based in South Africa or has a Distribution or Service Centre within South Africa to allow for spare availability and timely repairs. Manufacturer/agent location confirmation – Essential Returnable schedule T4.

Signed

Date

Name

Position

Service Provider _____

DESCRIPTION OF THE WORKS: SUPPLY AND DELIVERY OF LONG TRAVEL MECHANICAL DRIVES FOR THE STACKERS, RECLAIMERS, AND SHIPLOADER MACHINES FOR TRANSNET SOC LIMITED (REG NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERED TO AS "TPT") AT THE PORT OF PORT ELIZABETH MULTIPURPOSE TERMINAL, AS A ONCE OFF SUPPLY AND DELIVERY



Scope requirement compliance	Essential returnable schedule document.	Returnable Document T5
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The Service Provider must provide a signed confirmation on company letterhead confirming compliance to scope of work and delivery of all required mechanical drives. Letter must also confirm that the mechanical drives are fully compatible with the machines with no requirement for modifications for installation. Scope requirement compliance – Essential Returnable schedule T5.

Signed

Date

Name

Position

Service Provider_____

DESCRIPTION OF THE WORKS: SUPPLY AND DELIVERY OF LONG TRAVEL MECHANICAL DRIVES FOR THE STACKERS, RECLAIMERS, AND SHIPLOADER MACHINES FOR TRANSNET SOC LIMITED (REG NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERED TO AS "TPT") AT THE PORT OF PORT ELIZABETH MULTIPURPOSE TERMINAL, AS A ONCE OFF SUPPLY AND DELIVERY



Data Pack	Essential returnable document.	Returnable Document T6
The Service Provider must provide a signed confirmation on company letterhead that a data pack will be submitted upon delivery containing full information of: (1) Quality check before delivery report (to include any/all tests conducted), (2) signed off and company stamped shop drawings of mechanical drives, (3) Warranty period for mechanical drives, and (4) Maintenance manual for mechanical drives - Essential Returnable schedule T6.		

Signed

Date

Name

Position

Service Provider _____

DESCRIPTION OF THE WORKS: SUPPLY AND DELIVERY OF LONG TRAVEL MECHANICAL DRIVES FOR THE STACKERS, RECLAIMERS, AND SHIPLOADER MACHINES FOR TRANSNET SOC LIMITED (REG NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERED TO AS "TPT") AT THE PORT OF PORT ELIZABETH MULTIPURPOSE TERMINAL, AS A ONCE OFF SUPPLY AND DELIVERY



Guarantees	Essential returnable document.	Returnable Document T7
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The Service Provider shall submit confirmation of guarantee on a company letterhead indicating the guarantee of the supplied mechanical long travel drives in accordance with the requirements of the scope and for a period not less than 12 months after delivery of the mechanical long travel drives - Essential Returnable schedule T7.

Signed

Date

Name

Position

Service Provider_____

DESCRIPTION OF THE WORKS: SUPPLY AND DELIVERY OF LONG TRAVEL MECHANICAL DRIVES FOR THE STACKERS, RECLAIMERS, AND SHIPLOADER MACHINES FOR TRANSNET SOC LIMITED (REG NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERED TO AS "TPT") AT THE PORT OF PORT ELIZABETH MULTIPURPOSE TERMINAL, AS A ONCE OFF SUPPLY AND DELIVERY



Project Plan	Essential returnable document.	Returnable Document T8
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The Service Provider must provide a signed confirmation on company letterhead for the lead time for the supply and delivery of mechanical drives. A Project plan with a project roadmap, lead time, key milestones, and a communication plan must also be attached. TPT requires at most 20 weeks lead time. Project plan – Essential Returnable Schedule T8.

Signed

Date

Name

Position

Service Provider_____