



**SCOPE OF WORK FOR SUPPLY,
DELIVERY, INSTALLATION, TESTING AND
COMMISSIONING OF 9 OFF ROTARY
SCREW TYPE COMPRESSORS AND AIR
DRYERS FOR TRANSNET ENGINEERING AT
VARIOUS CORRIDOR DEPOTS (NORTH,
CAPE, AND CONTAINER CORRIDORS)**

REFERENCE NO: FAI_DBN_SPEC_042

Scope Revision: 0

Date of release: APRIL 2025

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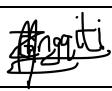
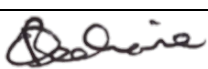

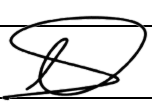
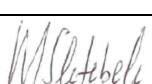
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Signature of Bidder/s: _____

Date: _____

Document Authorities

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Department affected.	RSM Locomotives Business
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Designation	Plant Engineer – North Corridor
Signature & Date	 14 April 2025

Signature of Bidder/s: _____ Date: _____

1. INTRODUCTION / SCOPE OF WORK

This specification is for the:

#	TASK	REQUIRED
1	Design	✓
2	Manufacture	✓
3	Upgrade	
4	Refurbishment	
5	Supply	✓
6	Delivery	✓
7	Installation	✓
8	Documentation	✓
9	Testing	✓
10	Training	✓
11	Commissioning	✓

#	ITEM	REQUIRED
1	Supply, delivery, installation, testing and commissioning of 9 off rotary screw type compressors and suitable air dryers for Transnet Engineering in line with Occupational Health and Safety Act 85 and SANS 347.	✓

This specification states the minimum requirements relating to the project and in no way absolves the contractor from the responsibility for sound engineering practice.

- Any omissions or sub-standard requirements of this specification must be brought to the attention of Transnet Engineering at tender stage.

2. SITE INSPECTION

- All prospective Tenderers shall be required to undertake a compulsory site. Inspection to fully acquaint themselves with all aspects involved.
- Arrangements to visit the site and confirmation of the date and time of the site inspection shall be made with the Transnet Engineering Project Manager.
- The site inspection certificate shall be completed and countersigned by the Project Manager on the day of the visit and must be submitted with the tender documents.

Signature of Bidder/s: _____

Date: _____

- The compressors and air dryers to installed at the following locations:

Compressor & Air dryer Transnet Engineering Depot Name Below	Size of the Compressor Motor in KW	Quantity of Compressor & air dryers to be installed on site
ContainerCor – ELD &RM	110 kw	X1
Capercor – Belville - Locomotives	90 kw	X1
Capercor - Postmasburg - Locomotives	90 kw	X1
Capercor – Swartkops - Locomotives	90 kw	X1
Northcor – Vryheid - Locomotives	90 kw	X1
NorthCor- Insezi - Locomotive	55 kw	X1
NorthCor- Mason Mills - Locomotives	55 kw	X1
NorthCor- Newcastle - Locomotives	55 kw	X1
ContainerCor- Danskraal – Locomotives	55 kw	X1

3. INFORMATION REQUIRED

- Offers will not be considered unless full particulars and sufficient literature is provided at the tendering stage to enable the Transnet Engineering Technical Officers the opportunity to assess each technical offer properly.
- Prospective Tenderers will complete the relevant questionnaire in full and must indicate whether their offer complies with each item of the specification.
- Should there be insufficient space for furnishing full details; Tenderers shall provide the additional details in their covering letter. The additional details shall be numbered in accordance with the applicable clause specified in the specification.
- As prospective Tenderers are considered to be experts in their field, they are obliged to identify any shortcomings, such as omissions or sub-standard requirements, to the completeness of this specification. These must be brought to the attention of Transnet Engineering at tender stage with alternatives to address these shortcomings. However, each offer shall be quoted for separately.

4. TECHNICAL REQUIREMENTS.

The following regulation and codes must be complied with: -

- 4.1.1 Scope of Work for Approved Inspection Authority (**AIA**) pre-commissioning inspection and dispensation/exemption of pressure vessels (oil separators).
- 4.1.2 The Occupational Health and Safety Act – Act 85 of 1993, PER Regulations.
- 4.1.3 Latest SANS 347.
- 4.1.4 Except where otherwise provided for in the specification, all equipment offered will comply with the requirements of the relevant standard specifications of the SANS, if published, otherwise with the relevant standard of the British Standards Institution in force at the time of tendering.

Signature of Bidder/s: _____ Date: _____

- 4.1.5 Where equipment offered complies with the recognized standards of the country of manufacture and not specifically with the standards required by this specification, such equipment will be considered at the discretion of Management. In this case, tenders shall state fully all respects in which the equipment departs from the standard laid down in this specification.
- 4.1.6 The successful tenderer will at the conclusion of the installation provide document along the lines "that the installation complies with national/international requirements and that all selected /designed items are compliant with Act 85 of 1995 and SANS practices applicable to the installation. The equipment has been commissioned/ calibrated, and employees as specified have been trained and found competent to operate the plant."

4.2 LEGAL REQUIREMENTS

(As per Occupational Health and Safety Act 85 of 1993) All pressure equipment shall comply with the Pressure. Equipment Regulations, selected Health and Safety Standard (design code) and contractual requirements. The certificate of manufacture required by the Regulations (including verification signature by an inspection body when so required) and relevant conformity assessment module (if applicable) in the case of equipment may not refer to more than one piece of equipment.

4.2.3 DESIGN CODE REQUIREMENTS

4.2.3.1. The ASME Code and the applicable referenced sections have been selected as the Transnet preferred HSS as a basis for design and fabrication of equipment covered by the Pressure Equipment Regulations (PER) of the OHSA.

4.2.3.2. All the applicable construction and documentation requirements of the ASME Code, as enlarged on or as modified by the specifications, shall be met.

4.3 OTHER DESIGN CODES/STANDARDS

4.3.1 The use of design code other than the ASME Code for the construction of equipment shall be subjected to approval by Transnet and shall be stated in the engineering contractor's request for quotation. Approval to use such code shall be obtained from Transnet's representative prior to placing any orders or the start of any detail engineering work and all additional contractual requirements shall be met.

4.3.2 No mixing of design codes is permitted. However, when specifically addressed / permitted by the applicable, code, design methods from other codes may only be used with Transnet prior approval. The basic requirements of the approved design code shall be maintained, and the level of safety and integrity of the equipment shall not be limited by such design rules or criteria.

5. SPECIFIC REQUIREMENTS

Any person with the intention of tendering shall ensure that the information below is complied with.

5.1 Loads and Duty Cycles

- The compressors shall be suitable to operate 18 hours a day for 11 months/ year.

Signature of Bidder/s: _____ Date: _____

5.2 Environment

- Workshop with dust and grease.
- Hot weather

5.3 Scope of work -

REQUIREMENTS																																											
This scope of work covers the minimum requirements.																																											
5.3.1	<p>This scope of work document shall be read with annexure 1.</p> <p>Please note that all pressurized equipment (oil separators, air dryers, etc.) documentation to be sent to the Inspector Pressurized Equipment (Omesh Beeharie, 031 361 5200 or 083 286 4294), prior to compressors being delivered to Transnet Engineering.</p>																																										
5.3.2	<p><u>Supply 9 off Compressor</u></p> <ul style="list-style-type: none"> • The compressors and air dryers to installed at the following locations: <table border="1"> <thead> <tr> <th>Compressor & Air dryer Transnet Engineering Depot Name Below</th><th>Size of the Compressor Motor in KW Size</th><th>Fixed Speed or VCD</th><th>Minimum Air Delivery in Cubic Feet per Minute (CFM)</th></tr> </thead> <tbody> <tr> <td>ContainerCor – ELD &RM - Eel Road</td><td>110 kw</td><td>Fixed Speed</td><td>680</td></tr> <tr> <td>Capercor – Belville - Locomotives</td><td>90 kw</td><td>Fixed Speed</td><td>620</td></tr> <tr> <td>Capercor - Postmasburg - Locomotives</td><td>90 kw</td><td>Fixed Speed</td><td>620</td></tr> <tr> <td>Capercor – Swartkops - Locomotives</td><td>90 kw</td><td>Fixed Speed</td><td>620</td></tr> <tr> <td>Northcor – Vryheid - Locomotives</td><td>90 kw</td><td>Fixed Speed</td><td>620</td></tr> <tr> <td>NorthCor- Insezi - Locomotive</td><td>55 kw</td><td>Fixed Speed</td><td>360</td></tr> <tr> <td>NorthCor- Mason Mills - Locomotives</td><td>55 kw</td><td>Fixed Speed</td><td>360</td></tr> <tr> <td>NorthCor- Newcastle - Locomotives</td><td>55 kw</td><td>Fixed Speed</td><td>360</td></tr> <tr> <td>NorthCor- Danskraal – Locomotives</td><td>55 kw</td><td>Fixed Speed</td><td>360</td></tr> </tbody> </table> <ul style="list-style-type: none"> • Minimum Working pressure: 7,5 - 13 bar (adjustable). • Rotary screw type compressor. 			Compressor & Air dryer Transnet Engineering Depot Name Below	Size of the Compressor Motor in KW Size	Fixed Speed or VCD	Minimum Air Delivery in Cubic Feet per Minute (CFM)	ContainerCor – ELD &RM - Eel Road	110 kw	Fixed Speed	680	Capercor – Belville - Locomotives	90 kw	Fixed Speed	620	Capercor - Postmasburg - Locomotives	90 kw	Fixed Speed	620	Capercor – Swartkops - Locomotives	90 kw	Fixed Speed	620	Northcor – Vryheid - Locomotives	90 kw	Fixed Speed	620	NorthCor- Insezi - Locomotive	55 kw	Fixed Speed	360	NorthCor- Mason Mills - Locomotives	55 kw	Fixed Speed	360	NorthCor- Newcastle - Locomotives	55 kw	Fixed Speed	360	NorthCor- Danskraal – Locomotives	55 kw	Fixed Speed	360
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5.3.4	<p>Bidders shall accurately measure on site the required materials to start and complete this project. Transnet Engineering will not approve the variation order(s) to compensate for inaccurate measurements.</p>																																										

Signature of Bidder/s: _____ Date: _____

5.3.5	Power supply: 400v \pm 5% 50hz AC.
5.3.6	Shall have LCD touch controller; this high-tech controller includes warning indications, compressor shutdown, and maintenance scheduling.
5.3.7	Install steel air pipes from the compressor in the compressor yard. The pipes shall run from the compressor through the air dryer, to the existing air receiver.
	<p style="text-align: center;">REQUIREMENTS</p> <p>This scope of work covers the minimum requirements.</p>
5.3.8	All new steel pipe mechanical structural design, material selection, which will connect new compressor, new air dryer to existing air reticulation and calculation must be done by the professional mechanical engineer or structural engineer registered with Engineering Council of South Africa and his/her certificate of registration with his ECSA number supplied to Transnet.
5.3.9	<p><u>Electrical installation</u></p> <p>The contractor shall supply and install the power cables fused isolators, connect to the nearest supply point, complete the installation, and issue a certificate of compliance in accordance with SAN10142.</p>
5.3.10	All electrical installations must be done by a certified Installation electrician. All electrical motors shall be suitable for operation off 380/400V/3phase/50Hz A.C.
5.3.11	Transnet Engineering shall indicate the point of supply for the electrical installation. The contractor shall be responsible for the overload circuit breaker, cable, and installation from the point of supply to the lockable fused isolator next to the control panel. The supplier shall calculate the cable size according to power requirements for compressor and Air dryer to operate fully. All calculations shall be submitted on how the cable size was arrived at.
5.3.12	Bidders shall allow for all wiring and connections between isolating switches, control panel, etc. and note that all trenching or cable trays used will be their responsibility. All wires, cables to be numbered according to the control diagram.
5.3.13	The noise level for compressors shall not to exceed 74dB.
5.3.14	Shall have IE3/NEMA premium efficiency electrical motor.
5.3.15	Starting method: Any safe, energy saving and technically proven starting technique. Details shall be provided.
5.3.16	Shall have pre -filter, after filter and Air dryer supply details.
5.3.17	Cooling method: Air.
5.3.18	Suitable air dryers shall be included.

Signature of Bidder/s: _____

Date: _____

	<ul style="list-style-type: none"> • 9 off air dryers classified as pressure equipment shall comply to Occupational Health and Safety Act – Act 85 of 1993, PER Regulations and SANS 347. • All Manufacturer's/Importers documents pertaining to pressure equipment shall comply to the Occupational Health and Safety Act – Act 85 of 1993, PER Regulations & SANS 347. • Pre-commissioning inspection and dispensation/exemption to be carried out by an Approved Inspection Authority (AIA). Pre-commissioning inspection report, certificate of continuance, etc. to be issued by AIA (must be Transnet approved AIA). • Safety valves to be tested and sealed (test certificates to be issued/supplied).
	<p style="text-align: center;">REQUIREMENTS</p> <p>This scope of work covers the minimum requirements.</p>
5.3.19	<p>Suitable oil separators shall be included.</p> <ul style="list-style-type: none"> • All oil separators shall comply to Occupational Health and Safety Act – Act 85 of 1993, PER Regulations and SANS 347. • Pre-commissioning inspection and dispensation/exemption to be carried out by an Approved Inspection Authority (AIA). Pre-commissioning inspection report, certificate of continuance, etc. to be issued by AIA (must be Transnet approved AIA). • All Manufacturer's/Importers documents pertaining to pressure equipment shall comply to the Occupational Health and Safety Act – Act 85 of 1993, PER Regulations & SANS 347.
5.3.20	<ul style="list-style-type: none"> • All new piping works shall comply to The Occupational Health and Safety Act – Act 85 of 1993, PER Regulations and SANS 347. • Safety valves to be tested and sealed (test certificates to be issued/supplied). <p>All works (piping, welding, installation, etc.) shall comply to The Occupational Health and Safety Act – Act 85 of 1993, PER Regulations and SANS 347.</p> <p>All steel pipe welding and critical welds must be done by a certified read seal artisan coded Welder.</p>
5.3.21	<p><u>Air Receiver:</u></p> <p>The existing air receivers shall be used. There is no requirement to supply new air receiver.</p> <ul style="list-style-type: none"> • Safety valve to be tested and sealed (test certificate to be issued). • Pressure gauge to be calibrated and must be in KPA. - The SANAS issued certificate to be provided. • All pressure equipment /vessel /safety valve testing must be done by an authorized person who is registered as a competent person that is AIA certified for the pressure equipment registered with the department of labour and certified copy of registration must be supplied to Transnet.
5.3.22	<p>All equipment shall comply with Occupational Health and Safety Act- Act 85of 1993 and regulation, SANS 347 and comply with the attached Transnet air receiver specification.</p> <ul style="list-style-type: none"> • All documents pertaining to pressure equipment shall comply to the Occupational Health and Safety Act – Act 85 of 1993, PER Regulations and SANS 347.
5.3.23	<p>Bidders shall attach the product literature in the bid documents.</p>

Signature of Bidder/s: _____ Date: _____

5.3.24	<p>The successful bidder shall supply the following documents in 1 set of PDF files in a USB memory stick and 3 sets of hard copies.</p> <p>Operation Operation Manual</p> <p>Maintenance Maintenance Manual Greasing Intervals with Locations Oil checking intervals with locations Trouble shooting guide and solutions. Critical Spares List</p> <p>Electrical Electrical Schematics</p>
	<p style="text-align: center;">REQUIREMENTS</p> <p>This scope of work covers the minimum requirements.</p>
	<p>Electrical parts lists (including manufacturer and supplier part numbers) Electrical COC for the electrical installation. Calibration certificates for all instrumentation used for issue electrical COC and testing of installation</p> <p style="text-align: center;">Mechanical</p> <p>Mechanical Assembly drawings. Mechanical Parts Lists (including manufacturer and supplier part numbers). Material certificates.</p> <p>PLC & Program Hard Copy of PLC Program. Hard copy of Parameters of all systems including PLC, CNC and Drives. Passwords for all software. Backup of PLC Program.</p>
5.3.25	<p>Welding Certified copies not older than 2 months for a red seal coded Welder.</p>

5.4 Quality Controls and Monitoring

- All machinery/equipment shall come equipped with panel profile or analogue time/hour meter counting running time of the machine. The hour meter shall be manipulation proof, Records time 0 to 99,999.9 hours with minimum accuracy of $\pm 0.02\%$.
- The Hour meter shall be of Polycarbonate, shock resistant, with tamper-proof case, totally sealed, single phase with synchronous, permanently lubricated motor design.
- This must also include backup and emergency systems.

5.5 Markings

- Name of manufacture, Country of origin, Year of manufacture, manufacturer's serial number, design pressure in units of Pascal, design temperature minimum in maximum in degrees Celsius, Capacity in cubic metres, Unique mark of an approved inspection authority, hazard category in accordance with the requirements of SANS 347 , Safety, operation, technical data,

Signature of Bidder/s: _____ Date: _____

etc. all markings shall be displayed and be visible on the Pressure Equipment as per Occupational Health & Safety Act No 85 of 1993 Pressure Equipment Regulations.

5.6 Safety Features

- The minimum safety features shall be according to statutory and industry rules.

5.7 Supply, delivery, and installations

- The required equipment shall be supplied, delivered, and installed at various RSM locomotives in the North, Cape and Container Corridor's Depots.

5.8 Testing

- All prescribed inspection and tests in the OHS Act pressure equipment regulations shall be carried out on equipment by authorised person witnessed by Transnet LMI/Inspector and test results provided to Transnet LMI/Inspector.
- A Certificate of Compliance (COC) must be issued to the electrical examiner of Transnet engineering to arrange for an inspection before any electrical installation can be released for production purpose
- The contractor must be available and present at the final inspection.
- Transnet also reserves the right to carry out any check tests on the equipment and installation.
- Notwithstanding the successful completion of tests, the contractor will still be responsible for the efficient operation of the equipment and the installation.
- All pressure equipment /vessel /safety valve testing and gauges calibration and Compressor Oil Separator hydro testing must be done by an authorized person who is registered as a competent person that is AIA (Approved Inspection Authority) certified for the pressure equipment registered with the department of labour and certified copy of valid registration must be supplied to Transnet.
- The Pressure vessel gauges calibration must be done by an SANAS accredited organization and evidence of that organization accreditation must be supplied to Transnet.

5.9 Commissioning

- **A testing period of 1 month (744 hours for 24/7 shifts and 248 hours for 8-hour shifts) this shall depend on what shift the business requiring this service.**
- **No machinery/equipment will be accepted by Transnet without the satisfaction of the conditions above.**
- **Complete compressor data pack shall be supplied.**

5.10 Maintenance

- The maintenance contract shall be for 2 years. The tenderers shall include the maintenance plan.
- The equipment shall come with detailed standard maintenance procedures manual and standard operating procedure (SOP), all in three copies.
- The quote for maintenance plan shall be added on the Schedule of prices.

5.11 Warranty

- The warranty shall be for 2 years.

Signature of Bidder/s: _____

Date: _____

- A maintenance contract for the warranty period shall be included in the quoted price and shall involve at least four Transnet employees to learn and declare them proficient in the operation and the use of the specified tools.
- Any latent defects that become apparent during the guarantee period shall be rectified to the satisfaction of Transnet Engineering at the cost of the supplier.
- Specify when the system becomes fully operational and when the warranty period takes effect.
- The supplier shall clearly stipulate the nature of the guarantee and how long it will take their maintenance staff to be on site. Transnet Engineering requires a response time of not more than 24 hours. (Response time shall be the time from receiving a call until the time the company technicians arrive on site to attend to situation).
- Should the supplier fail, when called upon, to make good or remedy a defect (under guarantee or declared inherent) within a reasonable time, Transnet Engineering may affect the repair and thereafter recover from the supplier all cost and expenses associated with the supplier.

5.12 Spares

- The tenderers to indicate the spares considered to be critical for the successful operation of the equipment, the availability and required lead times.

5.13 Training

- The supplier shall conduct a hand-over and familiarization training when delivering the equipment and shall indicate the period required.
- The supplier shall offer a formal training to Operators and maintenance artisans according to the training manuals of the equipment supplied. The supplier shall indicate if this training is accredited by SAQA.
- Training material shall be supplied by winning bidder. Training shall be for depot two Production operators, Production Supervisor and PEMM maintenance personnel (Technician, Electrician, Millwright, Superintendent) for the various depots/corridor.

6. OTHER INFORMATION RELATED TO THE SCOPE

- 6.1. Any matter relating to this work, which requires a decision from Transnet Engineering shall be presented to the Project Manager in charge.
- 6.2 All offers shall be completed in every respect with this specification. Only complete tenders shall be considered.
- 6.3 The Technical Officer reserves the right to have the proposal checked independently by a third party.
- 6.4 Tenders must allow for monthly progress and clarification meetings on site initially and after commissioning for defect meetings when required. A meeting will be held after issuing of the tender to establish the exact scope and magnitude of the Project.
- 6.5 No tender will be considered unless the Site Inspection Certificate has been signed by the Engineer. or his representative.

Signature of Bidder/s: _____

Date: _____

7. HEALTH AND SAFETY REQUIREMENTS

7.1 All equipment and installation whether detailed in this specification or not shall comply with the requirements of the Occupational Health and Safety Act 85 of 1993 as amended and all other applicable legislation including specific set of regulations and local authority bylaws where applicable. All equipment shall be designed **to be fail safe.** Sudden power losses must not have an adverse effect on equipment and shall not unduly delay return to operation after power is restored.

7.2 All the necessary safety equipment such as guards over rotating equipment shall be supplied and the equipment shall comply fully with all the requirements of the South African occupational Health and Safety Act, Act 85 of 1993 and all other applicable legislation including specific set of regulations and local authority bylaws where applicable. At all times during the manufacture, assembly and testing of the equipment the contractor will be responsible for the safety of all persons on site and the equipment.

7.3 SHE SPECIFICATION

Prior to commencement of contract, the contractor shall be issued with a Safety Health and Environmental specification in order.

Contractor to compile a SHE files in line with TE requirements.

Prior to establishing on site, it is an explicit requirement of this contract that all of the Contractor's. personnel directly involved with this contract, including those of sub-contractors, attend a **Safety. induction course.** Transnet will provide the course free of charge and attendance is compulsory for all personnel under the control of the Contractor who, during the duration of the contract, will be present on site whether on a full time or ad hoc basis.

The contractor must allow for all additional charges because of these requirements as no claims for extras will be accepted in connection with the foregoing.

7.4 As part of the legislative and TE SHE requirements.

The successful contractor is required to conduct a Risk assessment to ascertain all potential risks associated with this project. The completed risk assessment is to be formally submitted to the SHE department via the project manager at least two weeks prior to the commencement of the actual project. A safety file and associated documents will be required from a successful tenderer and such. will be communicated by the Risk department.

8. SPECIALIST SUB-TENDERERS

8.1 Only specialist sub-Tenderers who have previously successfully completed work of the type and extent specified in this document should be engaged.
The tenderer shall provide the technical officer with sufficient proof of having suitable experience regarding the design and manufacturing of similar equipment. To this end, complete and detailed reference list shall be submitted with the tender. Reference list shall include addresses as well as contact person who may be visited for inspection of the equipment during the adjudication period.

8.2 The tender shall submit a complete list of proposed sub-Tenderers and suppliers of major components with his tender.

Signature of Bidder/s: _____ Date: _____

- 8.3 The tenderer shall be prepared to commit in writing to the technical officer with an adequate, experienced and stable project team for the duration of the project.
- 8.4 Transnet Engineering will not consider any Tenderer's offer that, in the sole opinion of Transnet Engineering does not have adequate experience in the design and manufacture of such equipment.
- 8.5 Tenderers shall do the installation simultaneously with other tenderers on-site busy with other work and shall plan work that it integrates with other work performed.

8.5 Requirements for prevention of Covid-19

- 8.5.1 COVID-19 Safety Plan.
- 8.5.2 Daily Screening questionnaire.
- 8.5.3 Return to work induction register- Induction Presentation/TE will also conduct the COVID-19 induction.
- 8.5.4 COVID-19 Employee questionnaire checklist.
- 8.5.5 Fitness Certificates.
- 8.5.6 Risk Assessments register.
- 8.5.7 COVID-19 PPE issue register/sanitizer.

9. MATERIAL AND WORKMANSHIP

- 9.1 Machinery/equipment shall be offered complete in all respects, including all standard equipment normally offered by manufactures, all of which shall be specified in detail.
- 9.2 The equipment, as made and supplied, shall be complete in every respect, of modern design, using the most advanced proven technology extensively supported by reputable local companies, and be built to good engineering practices. Tenderers shall supply a list of all the main components (mechanical, electrical etc.) proposed as well as the addresses of the local support companies.
- 9.3 All parts and components shall be adequately protected against damage and corrosion during shipping, transport and storage.
- 9.4 Should any of the items called for be standard equipment, then the word "Standard Equipment" shall appear against the item.
- 9.5 Tenderers shall indicate clause-by-clause either that they comply in every respect with the specific requirements, or if not, exactly how it differs.

10. GENERAL REQUIREMENTS

Operation will be in the following conditions:

Altitude	Sea level
Ambient temperature	0°C to 45°C
Relative humidity	50% to 100%
Atmosphere	Heavy saline

Signature of Bidder/s: _____

Date: _____

11. DEFINITIONS AND ABBREVIATIONS

CLIENT	Transnet Engineering Durban
TENDERERS	Tenderers appointed under this specification document
SABS	South African Bureau of Standards
SANS	South African National Standards
ASME	American Society of Mechanical Engineers

his scope of work
Supply, delivery, installation, testing and commissioning.
of 9off Corridor depots Rotary Screw type Compressors,
Air dryers, safety valves, prefilters, after filters and
related piping.

12. GENERAL

- 12.1 The successful tenderer will be subjected to a workshop inspection by Transnet Engineering, to ensure that the facilities are to the satisfaction of the Transnet Engineering in terms of the quality control and equipment capabilities for manufacturing such type of equipment.
- 12.2 The tenderers shall guarantee that the rating and size etc. of the equipment offered, will be adequate to perform the duties required.

13. SITE ESTABLISHMENT

- 13.1 The Tenderers shall be solely responsible for safety of his staff and for providing security to safeguard his works and material on site, until such a time.
- 13.2 The Tenderers shall be required to attend site meetings when convened by the Project Leader controlling the Project.
- 13.3 The Tenderers will be responsible for any damages caused by his staff to the building and to civil works on site.

14. PENALTY CLAUSES

- 14.1 Due to the criticality of this project, penalties will be imposed for late delivery as per contract.

Signature of Bidder/s: _____ Date: _____