



**TE-IMS-PEMM P&E KDS-SPC-300 Specification**

Description: Specification for Manufacturing, distribution, transportation, and supply of bulk gases (Oxygen and Nitrogen) to Transnet Engineering Germiston & Koedoespoort Plant.				
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Location:	Germiston & Pretoria			



## 1. Scope of Work

This specification requirement covers all the requirements that will be needed to inform the supplier/vendor/manufacture to carry out what is expected from him/her: The contract will be awarded as a turnkey project and the contractor will be responsible for all the work specified.

This specification states the minimum requirements relating to the work and in no way absolves the contractor from responsibility for sound engineering practice. Any omissions or sub-standard requirements of this specification must be brought to the attention of Transnet Engineering GERMISTON and KOEDOESPOORT at tender stage and optional prices for addressing such omissions must be provided.

## 2. Information Required

Tenders shall be in duplicate and will not be considered if full particulars of all relevant equipment and works requested are not submitted at the tender stage, to ensure an objective assessment of the offer can be made. Tenderers shall confirm that the items that they are offering comply at a standard not less than the minimum required requirement asked for in the specifications. Tenderers must comply with these specifications, but alternative offers may, in addition, also be submitted. Such alternative offers must be fully motivated and substantiated.

## 3. Specific Requirements:

- Comply with the Occupational Health and Safety Act (Act85 of 1993), as amended  
Compensation of Occupational Injuries and Diseases Act (Act 130 of 1993) as amended.
- Transnet Contractor Management Procedure (TRN-IMS-GRP-PROC 014)
- The contractor shall undergo Safety, Health and Environmental (**SHE**) **Induction**, and be issued with Induction certificate and valid permits authorising him/her to enter Transnet premises for the duration of the contract.
- The contractor is required to produce an approved **Compliance File or SHE File**.

- Comply with Transnet Engineering Waste Management Standard.
- The correct PPE must be always worn. (Harnesses ropes, etc.)
- Failure to comply will result in a stop certificate being issued and the supplier will be required to leave the site until the situation is rectified.
- All employees who will be working at height to have medical fitness certificate and proof of competency training thereof.
- Valid letter of good standing with Compensation commissioner.
- Comply with Transnet SHE Specification for contract work Version 02.

#### **4. Technical Requirements:**

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.

#### **5. Documentation:**

Certificates of analysis or batch certificates for all gas types delivered must be supplied and compositional test carried out to EN ISO 10204 type 3.1.



## 6. Specific Requirements:

ITEM NO.	REQUIREMENTS	DETAILS OF OFFER Comply (Yes) / Do not comply (No)
	<b>Specification for Manufacturing, distribution, transportation, and supply of bulk gasses (Oxygen and Nitrogen) to Transnet Engineering Germiston and Koedoespoort Plant.</b>	
1.	<b>Scope of work:</b>	
1.1	Manufacturing of required gases or distributor of bulk gas.	
1.2	Transportation of required gases.	
1.3	Filling of required gases to bulk storage tanks.	
1.4	Certification of gases supplied. (Quantity and purity).	
2.	<b>Gas types in use at Transnet Engineering:</b>	
2.1	The following gas types are used at Germiston and Koedoespoort Plant..	
2.2	Nitrogen and Oxygen. These gases are all classified as dangerous goods. (SANS 10228).	
3.	Suppliers shall be licenced to distribute/transport the different gases to Transnet Engineering premises within the required timeframe. Timeframe of less than 24 hours is required.	
4.	Suppliers bulk transportation tankers shall meet the minimum requirements as required by legislation and be roadworthy. Transportation of Dangerous goods. (NO. 93 OF 1996: NATIONAL ROAD TRAFFIC ACT, 1996.) Vehicle shall comply with SANS 11518 Transportation of dangerous goods and SANS 10230 Inspection requirements for road vehicles.	
5.	Suppliers bulk transportation drivers shall have the necessary licence required to perform the duties as and when required. Licences must be kept up to date and be current. (Driver's licence and PrDP-D). Sans 10231 Operational requirements for road	



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	vehicle.	
6.	Supplier's operators have the necessary training and qualifications with certification to fill mini bulk gas storage tanks from bulk road transport tankers to the bulk gas storage tanks on Transnet Engineering premises. Sans 10231 Operational requirements for road vehicle.	
7.	All gases supplied shall be measured on quantity when delivered. Readings shall be taken before filling and after filling. All meters shall be calibrated, and calibration certification shall be done by SANAS accredited laboratory. Calibration certificate regarding metering shall be always present in all road transportation tankers. This is for quality control inspection at Transnet Locations.	
8.	All gases delivered shall also meet the minimum purity conditions before it shall be filled to any bulk gas storage tank. Purity certification shall be verified before filling any bulk gas storage tank. All MSDS regarding any gas shall be supplied.	
9.	<b>Gas purity required is as followed:</b>	
9.1	Gas = Nitrogen (High Purity) Gas item number = 009000009 Type = Atmospheric Gas Purity = $\geq 99.997\%$ Chemical formula = N <sub>2</sub> Container type = Bulk Physical form = Liquid ISO Designation = ISO 14175-N1  NB: Certificates of analysis or batch certificates must be supplied, and compositional test carried out to EN 10204 type 3.1	
9.2	Gas = Nitrogen (Technical/ Industrial) Gas item number = 009856820 Type = Atmospheric gas Purity = $\geq 99.5\%$ Chemical formula = N <sub>2</sub> Container type = Mini Bulk	



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	Physical form = Liquid ISO Designation = ISO 14175-N1  NB: Certificates of analysis or batch certificates must be supplied, and compositional test carried out to EN 10204 type 3.1	
9.3.	Gas = Oxygen (Technical/Industrial) Gas item number = 094090120 Type = Atmospheric Gas Purity = $\geq 99.5\%$ Chemical formula = O <sub>2</sub> Container type = Bulk Physical form = Liquid ISO Designation = ISO 14175-O1  NB: Certificates of analysis or batch certificates must be supplied, and compositional test carried out to EN 10204 type 3.1	
10.	<b>Documentation at tender stage:</b>	
10.1	Bidders license to distribute/transport the different types of gases. (Petroleum Act: 1977 (Act No 120 of 1977) and Gas Act No 48 at the closing date and time of the bid. Act 58 of 2003: Petroleum Products Amendment Act, 2003 5.)	
10.2	Bidder's vehicle license/permit to distribute dangerous goods. Transportation of Dangerous goods. (NO. 93 OF 1996: NATIONAL ROAD TRAFFIC ACT, 1996.) Vehicle shall comply with SANS 11518 Transportation of dangerous goods and SANS 10230 Inspection requirements for road vehicles.	
10.3	Bidder's drivers and operator's licence and operators' cards. Driver's licence and PrDP-D). Sans 10231 Operational requirements for road vehicle.	
11.	<b>General information:</b>	
11.1	Bidders to ensure that their filling hoses are long enough to reach the mini bulk gas storage tanks at any location.	



<b>ITEM NO.</b>	<b>REQUIREMENTS</b>	<b>DETAILS OF OFFER</b> Comply (Yes) / Do not comply (No)
11.2	Filling hoses must be compatible with the filling point supplied on the bulk gas storage tanks. No alterations to the bulk gas storage tanks filling points shall be allowed.	
11.3	Any bidder who is sourcing goods or services from third party must “Indicate so via a valid signed agreement with the third party” describing the goods and service in details including the validity period of the agreement.	

#### **7. Quality Control:**

The contractor shall provide a quality control plan with the tender indicating how quality will be assured.

#### **8. Delivery Condition:**

All gases be delivered with a gas certificate with gas composition tested to EN ISO 10204 type 3.1.