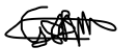
TE-IMS-PEMM ASSET KDS-SPEC 414 Specification

Description: **SPECIFICATION FOR CLEANING OF GUTTERS AND UNBLOCKING AND BUILDING REPAIRS INCLUDING DOWNPIPES IN KOEDOESPORT AT DIESEL DEPOT WORKSHOPS, STORES AND OFFICES.**				
Compiled By:	Sibusiso Bhembe		Date:	07/11/2025
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Local Business:	Diesel depot			
Location:	koedoespoort			

Contents

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 KOEDOESPOORT at tender stage and optional prices for addressing such omissions must be provided.

The Supplier shall supply all the labour, tools, material, equipment, consumables, facilities, testing and supervision required for the supply of the specified equipment at site during erection, pre-commissioning and commissioning activities.

2. Site Inspection

Tenderers must visit the site to familiarize themselves with all the aspects involved relating to the project that must be done. This must be arranged via the Contract Manager. The site inspection certificate will be counter-signed by the Contract Manager on day of the site visit. The tender documents must only be submitted if the site inspection certificate has been signed.

3. 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 to these specifications, but alternative offers may, in addition, also be submitted. Such alternative offers must be fully motivated and substantiated.

4. Specific Requirements:

Comply with the Occupational Health and Safety Act (Act85 of 1993), as amended.

Adhere to the Construction Regulations of the Occupational Health and Safety Act (Act85 of 1993), as amended.

The contractor to have SAFETY INDUCTION, and have valid permits when entering Transnet Engineering.

The contractor to have a SAFETY FILE, SITE INSTRUCTION BOOK on site at all times.

All measurements and amounts must be stipulated in quote.

Contractor's name board will at all times be visible.

A supervisor will be on site at all times.

The correct PPE must be worn at all times. (Harnesses ropes, etc.)

During and on completion of the project, there will be SHE inspections and Risk assessments done on the site that the supplier/vendor is working on, which will be reported to the project manager.

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 scaffolding used to be SANS approved.

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 Workman's Compensation.

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.

Comply with Transnet Engineering SHE Specification for contract work Version 02.

5. 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. Sudden power losses will not have an adverse effect on equipment and shall not unduly delay return to operation after power is restored.

6. Codes of Practice, Regulations & Standards:

The tenderer shall specify which statutory or industry rules will be applied for the equipment to be working successfully and safely and shall indicate the designed life span.

7. Specific Requirements:

	REQUIRED
1.	**Scope of work:**
1.1	Repair all gutters, header boxes and downpipes that are defective and allowing rainwater to seep through when it rains into the building in Koedoespoort DIESEL DEPOT WORKSHOPS, STORE AND OFFICES. **NB!!** All existing downpipes, header boxes and horizontal pipes that are missing must be replaced.
1.2	Clean all the Gutters, header boxes, downpipes and stormwater drainage channels in Diesel depot WORKSHOPS, STORE AND OFFICES
1.3	Flush all the Gutters, header boxes, downpipes and stormwater drainage channels after cleaning in Diesel depot WORKSHOPS, STORE AND OFFICES.
1.4	Unblock all the Gutters, header boxes, downpipes and stormwater drainage channels after cleaning and flushing in Diesel depot WORKSHOPS, STORE AND OFFICES.
1.5	Clean and unblock all the storm water drainage channels along the entire lengths of the workshops. The entire length of the Workshops is estimated to **+/- 200m**
1.6	Waterproof the wall on the inside and outside of the northern side of the shedding which is 15m from the west side of the workshop.
1.7	Seal the floor in the old warehouse kitchen Dimension for the floor is: Length x Width = 5,7m x 3,2m respectively.
1.8	Repaint the walls of the kitchens within both ablution facilities. Dimensions are as follows: Height x width length = 1,8m x 10m x 26m
	Replace all broken tiles in the kitchen within both male ablution facilities. Dimension are as follows: **Ablution A** Length x width = 5m x 0,6m (tile size 300mm x 300mm). **Ablution A** Length x width = 3m x 1,5m (floor tile size 300mm x 300mm). **Ablution B** Length x width = 6m x 3,8m (floor tile size 300mm x 300mm). **Ablution B** Length x width = wall tiles size 150mm x 150mm.
1.8	Conduct an assessment of all roof sheeting and windows an estimated cost for the repairs with the priority list.
1.8	Replace all damaged windows in the workshops and offices
1.9	Establish or ready the site for repairs.
1.10	Testing and commissioning

	REQUIRED
2	**Site Establishment:**
2.1	Hiring of all necessary equipment to complete the scope of work.
2.2	The contractor must comply with Transnet Engineering safety procedures
2.3	Site must be cleaned and all rubble must be removed daily.
3	**Cleaning, flushing and repairing Of Gutters, header boxes and Downpipes:**
3.1	The areas to be cleaned and repaired is from workshops, offices and ablution facilities. It is the responsibility of the contractor to confirm the exact sizes and numbers of columns.
3.2	Sweep gutters clean of debris. In the area of damage, dry surface and remove any loose coating particles by gently Scraping.
3.3	Remove any zinc salts or rust on exposed galvanised surface by abrasive cleaning using a non-metallic media.
3.4	Wash damaged area with water and washing up liquid, rinse off and dry thoroughly before commencing any repair work.
3.5	Where the membrane is badly scuffed, torn, ripped or damaged exposing the galvanised metal; heat weld a membrane patch to an area covering plus 50mm all around the damaged section.
3.6	For blocked outlets, block the bottom of the downpipe with a rag to stop any debris getting into the drain, then scoop out the leaves and silt from the gutter with a small trowel. Remove the rag and rinse out the gutter and downpipe with water. To stop the problem recurring, fit a Leaf-Guard cover over the outlet, and a gutter guard over the guttering (just cut it to size and clip it in place). Clean/unblock drain holes at the bottom of downpipes.
3.7	If a PVC downpipe is loose, check to see if one of the clips has lost a connecting bolt. Then replace it with a galvanised bolt of the same size. If this is the case, replace them and refix the screws, or fit new 6.5mm gauge galvanised screws. If a cast iron downpipe is loose, take out the fixing nails or screws and insert wall plugs. Then drive the nails back in or fit galvanised screws.
3.8	Apply a rubber roof sealant on all cleaned gutters throughout the entire length of the workshops and downpipes. The entire length of the Workshop is estimated to **+/- 200m**
3.9	Seal the joint between the side cladding and the office roof on the southern side of the lifting shop and also seal the opening of the wall mounted air conditioner in the PCO offices.
3.10	Clean the storm water drainage channels throughout the entire length of

	REQUIRED
	the workshops using water jetting machine. **NB!!** The supplier must ensure that there is free flow of water and all debris that causes blockage is removed and disposed to the dedicated disposal site.
3.11	Replace all rotten gutters and downpipes at Diesel depot workshops, ablution facilities, offices and FOE workshops. **NB!!** All quantity of the gutters and downpipes to be replaced are on **Annexture A**
4.	**Replacement of Windows**
4.1	Replace all cracked and broken window glass on the workshop, effluent plant, FOE buildings, ablution facilities and office building.
4.2	Remove putty and glass pains
4.3	Clean working area to be free from putty and glass.
4.4	Remove all paint and putty from frames to bare surface.
4.5	Apply water based edge primer to frames inside and outside.
4.6	Apply universal undercoat to window frame inside and outside.
4.7	Apply one coat of enamel paint to outside of frames only
4.8	Apply +/- 5mm to 6mm white watertight silicon sealer around inside of frame insert pane and compress silicon sealer that pane is +/- 2mm away from frame , remove of silicon on outside to a smooth finish.
4.9	No back putty to be applied.
4.10	Normal glazing to be applied on the inside of window frame.
4.11	After glazing is cured on the inside apply single layer universal undercoat and thereafter apply single coat white high gloss enamel.
4.12	Clean of window panes remove excess paint and clean pains using window-cleaning agent.
5	**General**
5.1	All works completed will carry a 12 months warranty. A water flow test will be conducted for every column repaired.
5.2	Contractor should submit a safety file indicating that he is competent to work on heights with his/her stuff also trained to work on heights.
5.3	All material used to be SANS approved.

	REQUIRED
5.4	Extra care to be taken when working on heights near electricity overhead lines and the necessary lockout procedures to be followed.
5.5	All gutters and objects lying on the roof to be removed from the roof.
5.6	Area to be cleaned and neat on completion.
5.7	Damage to any existing services shall be repaired by the supplier.
5.8	Rubble to be removed on regular base and be dump at suitable dumping site.
5.9	No metal or material belonging to TE (old fence) shall be removed from the premises. (To be handed over to TE).
6.	**Documentation:**
6.1	Before any work is performed the supplier must submit a safety file complete with risk assessment to the project manager.
6.2	Certificate of working from heights for all the employees
6.3	Medical certificates for all employees must be included in the safety file.
7.	**Guarantee:**
7.1	The supplier shall guarantee for a period 12 months preferable 24 months after successful commissioning of the repaired roof leakages that all components, plant equipment and material are new and fit for the specific purpose which they are purchased, and free from any defects in design, workmanship and material, and are in strict accordance with the contract, unless otherwise agree in writing.
7.2	The supplier shall agree to replace at his/her cost any defective items discovered within the guaranteed period.
7.3	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 no more than 24 hours.
7.4	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.

8. References:

Standard operating procedure for specification of contract work.

9. Quality Control:

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

10. Installation and Commissioning:

A detailed program (project-plan/gantt-chart) shall be submitted with the tender, indicating the main activities and periods necessary up to handover. The bidder shall submit with their tender a detail erection and installation procedure.

The contractor shall be fully responsible for any damage caused to all supplied equipment and to Transnet Engineering's assets during the installation, testing and commissioning. The supplier shall conduct a risk assessment as to identify anything that might hinder the installation of the equipment.

11. Guarantee:

The contractor shall guarantee for a period of 12 months minimum (preferably 24 months or more) after successful commissioning of the repaired roof leaks and free from any defects in design, workmanship and material, and are in accordance with the Contract, unless otherwise agreed in writing.

The Contractor shall agree to replace at his cost any defective items discovered within the guaranteed period.

12. Annexture A

Workshop quantities to be replaced/unblocked

Gutters = 1 to be replaced, Length = 135m along the southern side of the ablutions and office (lifting shop)

= 1 gutter to be replaced, length = 200m inside lifting shop from east to west side of the workshop.

Downpipes = 100 needs to be unblocked and 22 need to be replaced on the southern side of the ablutions and office (lifting shop)

= 5 in the lifting workshop and warehouse to be replaced

Windows = 90 (Height x Width = 1,45m x 1,95m) to be replaced

= 52 in the compressor house (Height x Width = 0,45m x 0,3m) to be replaced

Ceiling = 2,5m x 1m eastern side of the male ablution

= office 36 A and B; Length x Width = 6m x 6m

Tiles = Johanna office; Length x Width = 8m x 6m

Ablutions quantities to be replaced

Windows = 20 (Height x Width = 0,3m x 0,21m)

FOE Buildings quantities to be replaced

Windows = (Height x Width = 1,45m x 1,95m)

Effluent plant quantities to be replaced

Window frame = 1 (Height x Width = 1,45m x 1,95m)

Windows = 5 (Height x Width = 0,27m x 0,43m)