


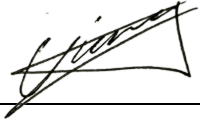




## TE-IMS-PEMM-KDS-SPEC-1099

<b>Description: Specification for the Refurbishment of Chemical Tanks (Bath) in Plating Shop Manufacturing Businesses at Koedoespoort Plant</b>				
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Location:	Koedoespoort			



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## 1. Scope of Work

This specification requirement covers all the requirements that will be needed to inform the supplier/vendor/manufacture/service provider to carry out what is expected from him/her:

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

Only bidders that have a valid certification, proven experience, or letter of competency from the OEM indicating that the bidder is certified or competent to work on the chemical tanks will be considered for award.

## 2. 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.
- Comply with any Environmental Legislative requirements relating to the scope of work, namely National Environmental Management Act (NEMA), Act 107 of 1998.
- The contractor to have SHE INDUCTION and have valid permits when entering Transnet Engineering.
- The contractor to have a SHE FILE, SITE INSTRUCTION BOOK on site at all times.
- All measurements and amounts must be stipulated in quote.
- Contractor's name board will always be visible.

- A supervisor will always be on site.
- The correct PPE for all hazards that the contractor's employers may be exposed to, must always be worn.
- Failure to comply will result in a SHE 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 to declare employee fit to work on heights, and proof of working at heights competency training thereof.
- Valid letter of good standing with Workman's Compensation.
- Comply with Transnet SHE Specification for contract work Version 02.

### **3. 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.

### **4. Testing:**

The tenderer shall perform the load testing of the overhead electrical cranes once all the upgrade work has been completed.



## 5. Specific Requirements:

	<b>REQUIRED</b>	<b>DETAILS OF OFFER</b> Comply (Yes) / Do not comply (No)
	<b>Specification for the Refurbishment of Chemical Tank in Plating Shop in Manufacturing Businesses at Koedoespoort Plant</b>	
5.1	<b>Scope of work:</b>	
5.2	Disconnect the chemical tanks from electricity supply.	
5.3	Ensure that pumps, mixers and any other electric powered equipment is off and removed from the tank.	
5.4	Drain the contents of the tank by means of the pumping system and dispose to the registered Site as per applicable Municipal By-Laws.	
5.5	Clean the chemical tanks by means of high water pressure equipment to applicable standards.	
	Determine and use the best type of chemical tank cleaning agents. MSDS for the cleaning agent to be supplied to Transnet Engineering Project Manager.	
5.6	Inspect the chemical tanks both inside and outside for cracks, corrosion, piping damages and any other damages.	
5.7	Repair all defects identified on the tank including the cracks that lead to chemical solution leaks.	
5.8	Remove and replace all piping from the chemical tanks to the Effluent Plant.	
5.9	Remove the previous coating on the chemical tanks to ensure sound substrate.	
5.10	Prepare the chemical tanks surface inside and outside using the best applicable surface preparation methods.	
5.11	Determine and apply the acceptable coating system on the chemical tanks.	



	<b>REQUIRED</b>	<b>DETAILS OF OFFER</b> Comply (Yes) / Do not comply (No)
5.12	The coating system should guarantee that the chemical tanks have high chemical and temperature resistance.	
5.13	The chemical tanks surface should have long term corrosion protection in alkaline conditions.	
<b>6</b>	General	
6.1	The contractor should share information regarding the spares being used to Transnet Engineering, e.g. material certificates, quality documents providing assurance that spares are within the right tolerances and design standards as stipulated on OEM manufacturing drawings.	
6.2	<p>The contractor should indicate the minimum life span of the spares. If the spare fails before the stipulated life span, the contractor must conduct failure investigation and provide root cause analysis report (report should also contain the proposed solution that will be implemented to prevent failures) to the Plant Engineer and Maintenance Manager.</p> <p><b>Note: Should the spare part fail before its life span has elapsed, the contractor will be expected to supply another spare part at his/her own cost. Unless thorough investigation is conducted, which will prove that the failure of the spare part is a result of an inherent failure of the system that the spare is part of.</b></p>	
6.3	Before any work can take place, the contractor with the Transnet Supervisor should check that the area is safe for starting work. The contractor shall ensure that the equipment and working area are safe and clean. If required, the area shall be marked with chevron tape to indicate working boundaries.	
6.4	The contractor shall not commence work until they have reported to the local supervisor of Transnet Engineering, who will take note of its presence in the working area.	



	<b>REQUIRED</b>	<b>DETAILS OF OFFER</b> Comply (Yes) / Do not comply (No)
6.5	Contractor should allow PEMM team to observe and ask questions during the refurbishment of the chemical tanks. No information should be concealed from the PEMM team.	
6.6	Any modifications to the chemical tanks for whatever reason shall first be approved by the Plant Engineer in writing before implementation.	

