Description: (Specification for disassembling, transporting, assembling, installation testing and commissioning of a 5 Ton Pro Star crane and 2 X 20/5 Ton FB crane from De Aar to Bloemfontein crane.)				
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Location:	Bloemfontein			

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1 Scope of Work

1.1 The scope of work for the service provider to disassemble the outdoor pro Star double girder 5Ton overhead crane with a span of 21.9 meters ,Length of 23.6 meters ,Height of 6.67 meters and disassemble two 20/5 Ton indoor cranes in De Aar Transnet Engineering plant, transport from De Aar Transnet Engineering plant to Bloemfontein Engineering plant, erect in Transnet Engineering Bloemfontein plant, asses and repairer identified defects of the outdoor double girder 5Ton overhead crane and two 20/5 Ton Pro star indoor crane.

1.2 This specification states the minimum requirements relating to the work and in no way absolves the contractor 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 Contract Manager at tender stage and optional prices for addressing such omissions must be provided.

1.3 Only bidders that have a valid certification, proven experience, or letter of competency from indicating that the bidder is certified or competent to work on the lifting equipment's will be considered for award. A copy of the certificates or letter must be submitted with the tender.

1.4 The specification requirement covers all the requirements that will be needed to inform the supplier to carry out what is expected from him / her.

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 Specific Requirements

3.1 Adhere to the Construction Regulations
3.2 Compensation of Occupational Injuries and Diseases Act (Act 130 of 1993) as amended
3.3 Transnet Contractor Management Procedure (TRN-IMS-GRP-PROC 014)
3.4 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.
3.5 The contractor is required to produce an approved Compliance File or SHE File and Site Instruction Book on site at all times.
3.6 All measurements and amounts must be stipulated in quote.
3.7 A supervisor will always be on site.
3.8 Comply with Transnet Engineering Waste Management Standard.
3.9 The correct PPE must be always worn. (Harnesses ropes, etc.)
3.10 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.
3.11 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.
3.12 .All scaffolding used to be SANS approved.
3.13 All employees who will be working at height to have medical fitness certificate and proof of competency training thereof.
3.14 Valid letter of good standing with Compensation commissioner.

4 Technical Requirements

4.1 Comply with the Occupational Health and Safety Act (Act85 of 1993), as amended.
4.2 Adhere to the SANS 10375: 2018: The inspection, testing and examination of overhead cranes.
4.3 Adhere to the SANS 7363: Cranes and lifting appliances - Technical characteristics and acceptance documents.
4.4 Adhere to the SANS 4310:2002, Cranes — Test code and procedures.
4.5 SANS 4309/ISO 4309, Cranes – Wire ropes – Care, maintenance, installation, examination, and discard. Cranes, examination, hoists, lifting equipment, materials handling, wire ropes.
4.6 The overhead crane must be inspected, tested, and endorsed by an ECSA registered LMI.
4.7 Current and Valid Registration of the company with the Department of Labour as a Lifting Machinery Entity (LME)

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5 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.

6 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 procedure for the disassembling, transporting ,erection ,electrical and mechanical repairs

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.

7 Specific Requirements:

Item No	Requirements	Details of offer Comply (yes)/ Do not Comply (No)
	Specification for disassembling the outdoor double girder 5Ton overhead crane with a span of 21.9 meters ,Length of 23.6 meters ,Height of 6.67 meters and disassembling two 20/5 Ton indoor cranes in De Aar Transnet Engineering plant, transport from De Aar Transnet Engineering plant to Bloemfontein Engineering plant, erect in Transnet Engineering Bloemfontein plant, asses and repairer identified defects of the outdoor double girder 5Ton overhead crane two 20/5 Ton overhead cranes.	
8	**Scope of work**	
8.1	**Disassemble**	
8.1.1	Disassemble the outdoor double girder 5Ton Pro Star overhead crane mechanically and electrically	
8.1.2	Disassemble the outdoor double girder 5Ton overhead support structure.	

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8.1.3	Disassemble the two indoor 20/5 double girder FB overhead crane mechanically and electrically	
8.2	**Transportation**	
8.2.1	Transport the outdoor double girder 5Ton overhead crane from Transnet Engineering De Aar to Transnet Engineering Bloemfontein Wheel Park, which is 380Km	
8.2.2	Transport the two 20/5 Ton indoor double girder FB overhead crane from Transnet Engineering De Aar to Transnet Engineering Bloemfontein Bay 46 and Bay 47, which is 380Km	
8.3	**Erect and assemble**	
8.3.1.	Erect the support structure of the outdoor double girder 5Ton overhead crane in Transnet Engineering Bloemfontein Wheel Park	
8.3.2	Assemble the outdoor double girder 5Ton overhead electrically and mechanically and install it at wheel park.	
8.3.3	Clear area between the old overhead cranes and the workshop for the erection of the outdoor double girder 5Ton overhead crane.	
8.3.4	Build a level crossing 24 meters in length for trucks to load wheels	
8.3.5	Assemble the two 20/5 Ton indoor double girder overhead electrically and mechanically at Bay 46 and Bay 47.	
8.4	**Assessment and Repairs**	
8.4.1	Asses the outdoor double girder 5Ton overhead crane for electrical defects and repair the defects • Long travel • Cross travel • Hoist	
8.4.2	Asses the outdoor double girder 5Ton overhead crane for mechanical defects and repair the defects • Long travel • Cross travel • Hoist	

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	• Structure	
8.4.3	Supply and install pendant control system.	
8.4.4	Asses the 20/5 Ton indoor double girder FB overhead crane for electrical defects and repair the defects • Long travel • Cross travel • Hoist	
	Asses the 20/5 Ton indoor double girder FB overhead crane for mechanical defects and repair the defects • Long travel • Cross travel • Hoist • Structure	
8.5	**Electricity supply**	
8.5.1	Provide and terminate supply cable to the outdoor double girder 5Ton overhead crane DSL power supply system and pick-ups from Transnet point of supply.	
8.5.2	Provide and terminate supply cable to the two 20/5 Ton indoor FB overhead crane and connect to existing overhead power supply and pickups from Transnet point of supply	
8.6	***Testing and Commissioning***	
8.6.1	Commissioning and testing of the new equipment shall be done by the tenderer, and a commissioning certificate shall be issued and signed off by Transnet.	
8.6.2	As this project is “Turn-Key” the successful tenderer is responsible for disassembling the outdoor double girder 5Ton overhead crane and two 20/5 Ton in De Aar Transnet Engineering plant, transport from De Aar Transnet Engineering plant to Bloemfontein Engineering plant, erect in Transnet Engineering Bloemfontein plant, asses and repair identified defects of the outdoor double girder 5Ton and two indoor 20/5 Ton overhead crane and commission. The complete project team and PEMM responsible persons will participate in final commissioning.	

8.6.3	Before the cranes are load/performance tested, all the documents requested/required (Acceptance Documents as per SANS 7363: Latest) shall be submitted to the Contract Manager, the drawings shall be approved, and the findings of the pre-inspection (SANS 10375) shall be rectified.	
8.6.4	Static and dynamic testing will be done in accordance with SANS 4310:2002 Edition 1, in the presence of Transnet Engineering's Plant Engineer and the Mechanical (LMI's) and Electrical Examiners.	
8.6.5	The cranes will be tested for conformity to specification according to the crane's load / characteristics, and the following will be verified: • Hook approach. • Load lifting speed. • Load lowering speed. • Crane traveling. • Trolley traveling speed. • Function and limit devices. • Performance of driving medium i.e. motor currents under test conditions. • No crabbing occurs.	
8.6.6	The following overload tests will be done to demonstrate the structural competence of the crane. • Before the crane is put into service, it shall with overloads appropriately set, be tested to lift and sustain a test load of 125% of the safe working load when located at the center of the span. • During the overload test, each motion in turn shall be maneuvered in both directions and the crane shall sustain the load under full control. The specified speed needs not be attained, but the	

	crane shall show itself capable of dealing with the overload without difficulty. • The test shall be successful if all the specified criteria have been met, no cracks, permanent deformation, paint flaking or damage which affects the function and safety of the crane is visible and no connections have loosened or have been damaged.	
	Start-up lubricants and consumables shall be supplied by the contractor.	
8.7	**Documentation on day of commissioning:** **4 sets off hard copies each with a USB flesh drive containing documentation in PDF Format.**	
8.7.1	Electrical Schematics.	
8.7.2	Mechanical Drawings.	
8.7.3	Hard copy of Parameters of all systems including PLC, CNC and Drives.	
8.7.4	Setup guides for Software on Computer.	
8.8	**Guarantee**	
8.8.1	The supplier shall guarantee for a period 12 months preferable 24 months after successful commissioning of the electric overhead travelling crane 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.	
8.8.2	The supplier shall agree to replace at his/her cost any defective items discovered within the guaranteed period.	
8.8.3	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 3 hours.	
8.8.4	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.	
8.8.5	Maintenance/servicing of the equipment during guarantee period shall be included in the price.	
8.9	**Price Schedule**	
8.9.1	Bidders to give a full price breakdown for the individual areas identifying all equipment that shall be supplied and work that they will perform.	
8.10	**General**	
8.10.1	All material used shall be SANS approved, A-grade first class.	
8.10.2	All work delivered shall be of a high standard.	
8.10.3	All rubble shall be removed on a daily base.	
8.10.4	Regular inspections will be carried out during construction by Transnet engineering Quality Assurance staff.	
8.10.5	The appropriate PPE must be always worn (Safety shoes, Reflector jacket, etc).	
8.10.6	The contractor and its employees shall always adhere to Transnet Engineering security and safety procedures.	