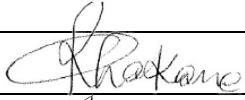
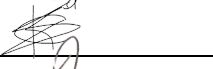




Description: Specification to conduct periodic inspection, load testing of overhead cranes, jib cranes, non-fixed load-lifting attachments and lifting tackles at Transnet Engineering Bloemfontein plant for a period of 12 months.

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Location:	Bloemfontein			

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1.3 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.	4
1.4 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.	4
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2.1 Comply with the Occupational Health and Safety Act (Act85 of 1993), as amended.	4
2.2 Adhere to the SANS 10375: 2018: The inspection, testing and examination of overhead cranes.	4
2.3 Adhere to the SANS 7363: Cranes and lifting appliances - Technical characteristics and acceptance documents.	4
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2.5 SANS 4309/ISO 4309, Cranes – Wire ropes – Care, maintenance, installation, examination, and discard. Cranes, examination, hoists, lifting equipment, materials handling, wire ropes.	4
2.6 All lifting equipment around the plant must be inspected, tested, and endorsed by an ECSA registered LMI.	4
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1. Scope of Work

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2. Technical Requirements:

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- 2.5 SANS 4309/ISO 4309, Cranes – Wire ropes – Care, maintenance, installation, examination, and discard. Cranes, examination, hoists, lifting equipment, materials handling, wire ropes.
- 2.6 All lifting equipment around the plant must be inspected, tested, and endorsed by an ECSA registered LMI.
- 2.7 Current and Valid Registration of the company with the Department of Labour as a Lifting Machinery Entity (LME)

3. Specific Requirements:

	REQUIRED	DETAILS OF OFFER Comply (Yes) / Do not comply (No)
	Specification to conduct periodic inspection, testing of cranes, non-fixed load-lifting attachments and lifting tackles for a period of 12 months at Transnet Engineering Bloemfontein plant.	
	Scope of work:	
	The supplier is required to perform the following:	
3.1	Functional testing	
3.1.1	Lifting machinery inspector is required to check the operation of each motion of the crane including controls (remote controls and pendant), contactors, brakes, and safety devices. The adjustments of the brakes and load limit shall be checked without the application of a load to determine whether the equipment performs as the manufacturer intended.	
3.2.	Performance testing	
3.2.1	Check operation of each motion of the overhead crane including brakes and safety devices with the safe working load (SWL) applied to determine whether the equipment performs to the manufacturer's requirements.	
3.3.	Overload testing	
3.3.1.	Proper operation of the overhead crane with an applied load exceeding the safe working load (SWL) to determine whether the crane is structurally sound and compliant for the use it was intended.	
3.4	Competent person whilst carrying out an inspection, sees that the overhead crane or lifting accessories are not safe for any reason, this, in addition to defects caused by deterioration, shall be reported to the user and endorsed in the logbook.	

	REQUIRED	DETAILS OF OFFER Comply (Yes) / Do not comply (No)
3.5.	Where the competent person identifies defects that need to be rectified within a specified period, he/she shall promptly submit a report to allow the user to take the necessary action within the required period.	
3.6.	Examine the structure of the crane for damage, cracks, wear, distortion, corrosion and missing parts, including the following parts: end carriages; bridge girders, and their mechanisms; crabs; gantry rails the whole length of the long travel and cross travel.	
3.7.	Examine the long travel and cross travel mechanisms for damage, cracks, wear, alignment, distortion, corrosion, missing parts, and lubrication.	
3.8.	Examine long travel or cross travel wheels, as relevant the maximum allowable flange wear shall be 50 % of original thickness.	
3.9	Examine the hoist mechanism for damage, cracks, wear, alignment, distortion, corrosion, missing parts, and lubrication.	
3.10.	Examine all wire ropes, and chains, anchorages, and their fittings. (For wire ropes apply the requirements of SANS 4309: 2021)	
3.11.	Provision of labour on site for Inspections, annual Load Testing of Lifting equipment (shackles, chain slings, flat duplex slings, webbing slings, endless round slings, lifting beams and spreaders, Crawler beam, Hoist, Chain Block), ladle, jib cranes and provide certificate.	
3.12.	Examine the hook or bottom or return block assembly for damage, seizure, alignment, cracks, wear, distortion, corrosion, missing parts, and lubrication as per Annexure E of SANS 10375:2018	
3.13.	Post-test inspections and certification	

	REQUIRED	DETAILS OF OFFER Comply (Yes) / Do not comply (No)
3.13.1.	On completion of the tests, an examination shall be carried out by the Lifting machinery inspector to determine whether the crane has withstood testing without signs of structural damage that could affect the safety of the crane, such as cracking, permanent deformation, paint flaking, and loosening of or damage to structural connections.	
3.13.2.	After completion of the test, the Lifting machinery inspector shall issue the appropriate certificate, which shall be appended to the report of inspection. All results and findings shall be recorded in the record book in the form of a report (see clause 9 and annex H of SANS10375:2018).	
3.12.3.	All load tests, inspections, etc. must be noted and signed off on the log sheet by a Competent Person or Lifting Machinery Inspector. The correct log sheet must be used for the correct type of equipment, (Log sheets, numbers 9, 10 and 66,).	
3.13.	Documentation	
3.13.1	Documentation required at tender stage:	
3.13.1.1.	Current and Valid Registration of the company with the Department of Labour as a Lifting Machinery Entity (LME)	
3.13.1.2	Current and Valid Registration of supplier's technician as Lifting machinery inspector (LMI) with ECSA.	
3.14.	General Safety	
	The appropriate PPE must be always worn (Safety shoes, Reflector jacket, Hardhat, etc).	
	The contractor and its employees shall always adhere to Transnet Engineering security and safety procedures.	

4. ANNEXURE A: LABOUR AND TRAVELLING COST SCHEDULE

Corridor/Centre	Labour Rate/hour	Estimated Labours Hours per year	Total Labour per year
Bloemfontein Main Centre	R	500	R

Travelling Cost	Cost per return trip	Estimated Number of trips per year (Qty)	Total Estimate Amount per trip
Departure City: _____ To Bloemfontein	R	36	R

5. ANNEXURE B: LIST OF EQUIPMENT

List of Cranes in Bloemfontein Plant

Bay	Asset no.	O.H. Cranes	SWL
Bay 9	28042755	AJM Crane	7Ton
Bay 9	28003463	Alpheus Williams Crane	5Ton
Bay 9	28042749	AJM Crane	15Ton
Bay 9	28022644	Lasch Crane	5Ton
Bay 10	28025583	Morris Crane	15Ton
Bay 10	28025584	Morris Crane	15Ton
Bay 10	28042731	AJM Crane	15Ton
Bay 10	28042732	AJM Crane	15Ton
Bay 11	28042756	AJM Crane	7Ton
Bay 11	28042750	AJM Crane	15Ton
Bay 11	28020581	Morris Crane	10Ton
Bay 11	28020582	Morris Crane	10Ton
Bay 11	28034091	FB Crane	15Ton
Bay 11	28034090	FB Crane	15Ton
Bay 11	28003446	Morris Crane	10Ton

Bay 11	28003448	Morris Crane	10Ton
Bay 11	28003467	Alpheus Williams Crane	10Ton
Bay 11	28003450	Morris Crane	10Ton
Bay 11	28003465	African National Crane	8Ton
Bay 12	28010601	R Martin Crane	10Ton
Bay 12	28003563	Morris Crane	10Ton
Bay 12	28043754	Kone Crane	10Ton
Bay 12	28043753	Kone Crane	10Ton
Bay 12	28003502	Lasch Crane	10Ton
Bay 12	28003471	Morris Crane	5Ton
Bay 12	28003703	Stothert & Pitt Crane	7Ton
Bay 13	28003469	Morris Crane	5Ton
Bay 13	28039012	Morris Crane	15Ton
Bay 13	28039014	Morris Crane	15Ton
Bay 13	28003517	Morris Crane	7Ton
Bay 13	28003519	Morris Crane	7Ton
Bay 13	28039031	Morris Crane	15Ton
Bay 13	28039013	Morris Crane	15Ton
Bay 13A	28003498	Morris Crane	10Ton
Bay 13A	28003506	OH Crane	12,5Ton
Bay 13A	28042731	AJM Crane	15Ton

RFR Store	28046130	RGM Crane	5Ton
RFR Store	28046131	RGM Crane	5Ton
RFR Store	28046132	RGM Crane	5Ton
Bay 16	28047716	RGM Crane	10Ton
Bay 16	28039497	Morris Crane	10Ton
Bay 16	28037109	Morris Crane	16Ton
Bay 17	28042752	AJM Crane	15Ton
Bay 17	28042751	AJM Crane	15Ton
Bay 17	28046133	FB Crane	15Ton
Bay18	28039498	Morris Crane	10Ton
Bay18	28004310	OLY D.E. Crane	25Ton
Bay 13 out side west	28039801	Morris Crane	2Ton
Out side WB store north	28037304	Morris Crane	2Ton
Bay 37	28003358	Alpheus Williams Crane	5Ton & 18Ton
Bay 36	28003500	Morris Crane	10Ton
Bay 37	28003705	Morris Crane	7Ton
Bay 37	28032316	Morris Crane	15Ton
Bay 37	28032315	Morris Crane	15Ton
Bay 36	28003701	Alpheus Williams Crane	5Ton & 18Ton
Bay 36	28030089	H.R. Crane	12,5 Ton & 50Ton
Foundry Bay 1	28036707	Stothert & Pitt Crane	7Ton
Foundry Bay 1	28036708	Lasch Crane	7Ton

Foundry Bay A1	W1215800	Booth Rodley Crane	5Ton
Foundry Bay A1	W1215900	Morris Crane	5Ton
Foundry Bay A1	28036709	HJH Crane	5Ton
Foundry Bay 2	28036704	Booth Rodley Crane	5Ton
Foundry Bay 2	28036703	Alpheus Williams Crane	10Ton
Foundry Bay 3	28036705	Stothert & Pitt Crane	7Ton
Foundry Maintenance	28036701	Lasch Crane	3Ton
Patern Shop	28036702	Asea Crane	5Ton
Compressor House	17/200	Hand operating Crane	5Ton
47	28003567	Lasch Crane	5000
47	28003568	Morris	7000
47	28003571	Lasch Crane	2000
47	28003573	Lasch Crane	2000
47	28003583	Morris	7000
47	28003576	Lasch Crane	5000
47	28003579	Lasch Crane	5000
Wheel Park	28003574	Morris	3000
Wheel Park	28025627	FB Cranes	3000
47	28030092	Morris	5000
Wheel Park	28003575	Alpheus & Williams & Dowse	5000
Wheel Park	28003580	Morris	5000

46	28003582	Morris	7000
46	28003581	Morris	5000
40	28003384	Herbert & Morris	7000
40	28003390	Herbert & Morris	7000
40	28003386	Babcox & Wilcox	7000 & 75000
40	28003392	Babcox & Wilcox	7000 & 75000
41	28008833	Alpheus & Williams & Dowse	5000
41	28039136	Morris	5000
42	28003374	Herbert & Morris	7000
42	28003376	Herbert & Morris	7000
42	28003379	Babcox & Wilcox	7000 & 75000
42	28003380	Babcox & Wilcox	7000 & 75000
43	28003454	Morris	10000
43	28003366	Alpheus & Williams & Dowse	5000
44	28003672	Herbert & Morris	10000
45	28003565	Alpheus & Williams & Dowse	5000 & 25000
25	28003382	Alpheus & Williams & Dowse	5000 & 25000
25	28018315	HJH Crane	20000

26	28003711	Vaughn	15000
26	28009875	Morris	7000
27	28003562	Morris	3000 & 15000
27	28003593	Booth & Rodley	5000
27	28043729	Morris	5000
27	28045763	Prostar AJM	5000
28	28003557	SGP Wien	5000
29	28003556	James Brown	5000
29	28032314	Morris	15000
29	28037772	Prostar AJM	3000
29	28045765	Prostar AJM	5000
29	28045766	Prostar AJM	5000
29	28045764	Prostar AJM	5000
31	28015495	Condra	10000
32	28003674	Booth	5000
32	28003521	Williams	7000
Bay 32	28037108	Morris Crane	16Ton
32	28003697	Morris	10000
33	28003509	SGP Wien	5000
33	28003459	Morris	5000
33	28003442	Lasch Crane	3000
33	28003444	Lasch Crane	3000

34	28003699	Herbert & Morris	10000
34	28037107	Prostar AJM	10000
35	28003676	Stothert & Pitt	7000
35	28003678	Morris	7000
35	28045762	Prostar AJM	5000
38	28003372	Morris	7000
38	28036401	Prostar AJM	16000
38	28043730	Morris	5000
50	28000270	James Brown	5000
52	28003591	SGP Wien	5000
Locos Store	253	Anderson & Grice	2000