TRANSNET ENGINEERING

SPECIFICATION FOR THE SUPPLY, TESTING AND COMMISSIONING OF BREAKDOWN RECOVERY EQUIPMENT FOR CAPECOR LOCOMOTIVE MAINTENANCE DEPOTS; WENTWORTH DIESEL DEPOT; GERMISTON LOCOMOTIVES MAINTENANCE DEPOT AND KRUGERSDORP LOCOMOTIVES MAINTENANCE DEPOT.

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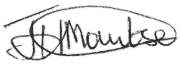
Recommended By: Snr Manager - RSM	**Johannah Huma Montse**	**Signature:** 
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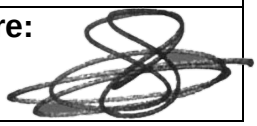
Approved By: Business Manager - RSM	**Siyabulela Siyo**	**Signature:** 

NATIONAL ROLLING STOCK MAINTENANCE

TRANSNET ENGINEERING

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PROJECT SPECIFICATION

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1. Introduction

1.1 This specification is for the supply, testing and commissioning of Breakdown Recovery Equipment for various Transnet Engineering Locomotive Maintenance Depots

2. Scope

2.1. Transnet Engineering wishes to contract a supplier to supply, test and commission breakdown recovery equipment as stated in this specification.

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

3. Health and Safety and Operational Requirements

3.1 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 and its regulations.

3.2 At all times during supplying and testing of equipment, the supplier will be responsible for the safety of all persons on the site and the equipment.

3.3. All tenderers shall ensure that they fully understand the environment in which the equipment will be delivered. It is an explicit requirement of this contract that all the Contractors personnel directly involved with this contract, including those of sub-contractor to attend a safety induction course. Transnet will provide the course free of charge and attendance is compulsory for all personnel under the control of the contractor who during the duration of the contract will be present on site whether on a full time or ad-hoc basis.

3.4. The successful contractor is required to conduct a risk assessment to ascertain all potential risks associated with this project. The completed risk assessment is to be formally submitted to the risk department via the project manager at least 2 weeks prior to the commencement of the actual project. A safety file and associated documents will be required from the successful tenderer, and such will be communicated by the risk department.

3.5. The employees of the contractor/supplier shall always adhere to Transnet Engineering's security and safety procedures.

3.6. The appropriate PPE to be always used.

3.7. Contractors shall always adhere to covid 19 regulations.

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4. Specific Requirements

Contractors shall complete the following information by writing “yes” where she/he meets the specification requirement or give a brief description where his/her offer differs.

Item No:	Required	Quantity	Comply (yes/no)
4.1.	**Supply Portable Remote Area Lighting System**	**4**	
4.1.1.	The lights should meet the following minimum requirements:		
4.1.2.	LIGHT:		
4.1.3.	Lumens (High): 3000; Lumens (Low): 1500;		
4.1.4	Lamp Type: LED; Lamp Heads: 1; Number of LEDs: 6		
4.1.5	Beam Spread: 125 degrees; IP Rating 54		
4.1.6	POWER:		
4.1.7	Run Time (High): 8 hours; Run Time (Low): 15 hours		
4.1.8	Rechargeable; Battery Type: SLA; Battery Lifespan: 500 cycles		
4.1.9	Primary and Auxiliary Sockets; Voltage = 12V		
4.1.10	The Lights must be complete with 12/24V vehicle charger and a 3-meter extension cord.		
4.2	**Supply 2-inch wood packing blocks**	20	
4.2.1	The block must be made of Balau wood		
4.2.3	Length = 171.5cm; Width = 21cm; Height = 50cm		
4.2.4			
4.3	**Supply 3-inch wood packing blocks**	20	
4.3.1	The block must be made of Balau wood		
4.3.2	Length = 171.5cm; Width = 21cm; Height = 75cm		
4.3.3.			
4.4	**Supply 6-inch wood packing blocks**	20	
4.4.1	The block must be made of Balau wood		
4.4.2	Length = 171.5cm; Width = 21cm; Height = 150cm		
4.4.3			

4.5	**Supply Simplex Railroad Jack, 5T**	**1**	
4.5.1	Supply complete with load testing certificate		
4.5.2	Operations and Maintenance Manual		
4.6	**Supply Simplex Railroad Jack, 10T**	**1**	
4.6.1	Supply complete with load testing certificate		
4.6.2	Operations and Maintenance Manual		
4.6	**Supply Simplex Railroad Jack, 15T**	**1**	
4.6.1	Supply complete with load testing certificate		
4.6.2	Operations and Maintenance Manual		
4.7	**Supply Power Generator**	**2**	
4.7.1	Voltage: 220v		
4.7.2	Output: 5kVA		
4.8	**Supply Portable Compressor**	**10**	
4.8.1	Max Working Pressure: 10bar		
4.8.2	Flowrate: 5m^3/min		
4.9	**Supply Lighting Plant with Spotlights**	30	
4.9.1	The Lighting Plant should meet the following minimum requirements:		
	It must be complete with diesel powered engine, high LED tower lights		
4.9.2	The light tower should reach at least 9 meters height		
4.9.3	It must be supplied complete with 6 x 160W LED high efficiency lights.		
4.9.4	Lights should adjustable and tiltable by hand with reinforced heavy duty brackets.		
4.9.5	ENGINE:		
4.9.6	Diesel powered with full run time capacity of at least 450 hours		
4.9.7	Engine Battery: 12V		
4.9.8	Solar Back up of 60W minimum		
4.9.9	Generator output: 3,5 kVA		
4.9.10	Power Battery Pack: 24VDC		

5	**General**	
5.1	The following documentation should be supplied with the equipment	
5.1.1	Operations and Maintenance Manuals.	
5.1.2	Mechanical Drawings	
5.1.3	Load Test Certificates for the jacks	
5.1.4	Spares List	
6	Guarantee	
6.1.1.	The supplier shall guarantee for a period 12 months after successful commissioning of the project and 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.	
6.1.2.	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 not more than 72 hours. (Response time shall be the time from receiving a call until the time the company technicians arrive on site to attend to situation).	
6.1.3.	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.	

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