






PD_PEL_NAT_SPEC_075

Description: (Specification for the supply of an Air Flow Measurement Logger kit for PD Locomotives Business at Koedoespoort Depot).				
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Local Business:	PD (Product Development): Locomotives			
Location:	Bay 9 Koedoespoort Depot			



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1. Scope of Work

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

This specification states the minimum requirements relating to the material to be supplied and in no way absolves the contractor from responsibility for sound engineering practice.

The contractor shall supply all equipment.

2. Site Inspection

Not applicable for this tender.

3. Information Required

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

4. Technical Requirements:

All equipment 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.

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. Operational Parameters:

6.1 Environment:

The equipment will be required to operate in the climatic conditions of the city of Pretoria, Gauteng Province, South Africa.



7. Testing:

Not applicable for this tender.

8. Specific Requirements:

	REQUIRED	DETAILS OF OFFER Comply (Yes) / Do not comply (No)
	Specification for the supply of an Air Flow Measurement Logger kit for PD Locomotive Business at Koedoespoort Depot.	
	Scope of work:	
	Supply an Air Flow Measurement Logger kit with digital Vane probe (Ø 100 mm)	
1	General Features	
1.1	Operating temperature: -20 to +50 °C	
1.2	Connectable probes: Digital Wire Probe Temperature Probe Digital Bluetooth probe Differential pressure (internal)	
1.3	Battery type: AA 1.5 V batteries	
1.4	Interface Bluetooth® USB	
1.5	Velocity Probe head diameter: 100 mm	
2	Differential pressure measurement	
2.1	Measuring range: -150 to +150 hPa	
2.2	Accuracy: ±0,05 hPa (0 to 1,00 hPa) ±0,2 hPa + 1,5 % of mv (1,01 to +150 hPa)	
2.3	Resolution: 0,01 hPa	



	REQUIRED	DETAILS OF OFFER Comply (Yes) / Do not comply (No)
3	Velocity / Volume flow measurement	
3.1	Measuring range: 0,3 to 35 m/s	
3.2	Accuracy: $\pm(0,1 \text{ m/s} + 1,5 \% \text{ of mv})$ (0,3 to 20 m/s) $\pm(0,2 \text{ m/s} + 1,5 \% \text{ of mv})$ (20,01 to 35 m/s)	
3.3	Resolution: 0,01 m/s	
4	Operability	
4.1	Adjustable Measurement Interval	
4.2	Memory: Up to 7500 measurement protocols	