

TRANSNET



**APPOINTMENT OF A CONTRACTOR TO CONDUCT THE
OCCUPATIONAL HYGIENE SURVEYS AT TRANSNET
ENGINEERING (TE) DURBAN REGION AND SURROUNDING
DEPOTS FOR 24 MONTHS.**

**TRANSNET ENGINEERING, DURBAN MAIN CENTRE, 311
SOLOMON MAHLANGU DRIVE, ROSSBURGH.**

REFERENCE NO.: RS_SHE_DBN_ESR_SOW_033

Scope Revision: 0

Date of release: JULY 2022

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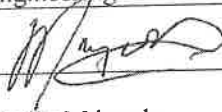
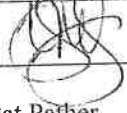

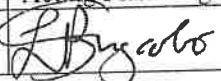
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Signature of Bidder/s: _____

Date: _____



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|------------------|--|
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| Signature & Date |  14/07/2022 |
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| Designation | Acting Plant Engineer, KZN Region |
| Signature & Date |  14/07/2020 |

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1. INTRODUCTION / SCOPE OF WORK

This specification is for the:

| # | TASK | REQUIRED |
|----|-------------------|----------|
| 1 | Assessment | |
| 2 | Design | |
| 3 | Manufacture | |
| 4 | Supply | |
| 5 | Conducting survey | ✓ |
| 6 | Delivery | |
| 7 | Documentation | ✓ |
| 8 | Installation | |
| 9 | Training | |
| 10 | Servicing | |

Of the specified:

| # | ITEM | REQUIRED |
|---|---|----------|
| 1 | Proposals for conducting the occupational hygiene surveys at Transnet Engineering (TE) Durban region. | ✓ |
| 2 | Submission of project completion documents. | ✓ |

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.

- This specification states the minimum requirements relating to the project and in no way absolves the contractor from the responsibility for sound ethical practice.**

2. SITE INSPECTION

- 2.1 All prospective contractors shall be required to undertake a site inspection to fully acquaint themselves with all aspects involved.
- 2.2 Arrangements to visit the site and confirmation of the date and time of the site inspection shall be made with Transnet Engineering Contract Manager.
- 2.3 The site inspection certificate shall be completed and countersigned by the Contract Manager on the day of the visit and must be submitted with the tender documents.

3. INFORMATION REQUIRED

- 3.1 Offers will not be considered unless full particulars and sufficient literature are provided at the tendering stage to enable Transnet Engineering Technical Officers the opportunity to assess each technical offer properly.

Signature of Bidder/s: _____ Date: _____



- 3.2 Prospective Contractors will complete the relevant questionnaire in full and must indicate whether their offer complies with each item of the specification
- 3.3 Should there be insufficient space for furnishing full details; contractors shall provide the additional details in their covering letter. The additional details shall be numbered in accordance with the applicable clause specified in the specification.
- 3.4 As prospective contractors are considered to be experts in their field, they are obliged to identify any shortcomings, such as omissions or sub-standard requirements, to the completeness of this specification. These must be brought to the attention of Transnet Engineering at tender stage with alternatives to address these shortcomings. However, each offer shall be quoted for separately.

4. TECHNICAL REQUIREMENTS

Transnet Engineering (TE) requires that Occupational Hygiene Surveys be carried out in line with the following, but not limited to, legal requirements:

- All applicable South African National Standards (SANS) referred to in the Occupational Health and Safety Act (Act 85 of 1993 as amended), as well as Railway Safety Legislation (SANS 3000-4:2011 (Section 5 Physical Environmental factors) and all regulations incorporated under this Act.
 - Transnet Engineering SHE IMS Corporate Standards and Policies.
 - Compensation for Occupational Injuries and Diseases Act (Act 130 of 1993).
 - TE code of practices.
 - International standards and best practices.
 - TE Ambient Noise standard.
 - TE Ambient vibration standard.
 - The Occupational Health and Safety Act – Act 85 of 1993.
- 4.1 Except where otherwise provided for in the specification, all materials offered will comply with the requirements of the relevant standard specifications of the SABS or SANS, if published.
 - 4.2 Where materials offered complies with the recognized standards of the country of manufacture and not specifically with the standards required by this specification, such materials will be considered at the discretion of Management. In this case, tenders shall state fully all respects in which the materials depart from the standard laid down in this specification.

5. SPECIFIC REQUIREMENTS

Any person with the intention of procuring the material shall ensure that the information below is complied with. The requirements are binding.

- 5.1 Environment
 - Indoors and outdoors.
- 5.2 Supply, delivery and works
 - The materials shall be supplied and delivered at the sites of works (Durban Main Centre, 311 Solomon Mahlangu drive, Rossburgh).

Signature of Bidder/s: _____ Date: _____



| Business Unit | Type of Survey | Survey Required Yes/No | Physical address | Bay numbers |
|-----------------------|--|------------------------|---------------------------|-------------|
| Coaches | Vibration | Yes | Coaches | |
| Coaches | HBA | Yes | Coaches | |
| Coaches | Thermal | Yes | Coaches | |
| Coaches | Noise | Yes | Coaches | |
| Coaches | Illumination | Yes | Coaches | |
| Coaches | Ergonomics | Yes | Coaches | |
| Coaches | HCS (incl fumes, dust, etc) | Yes | Coaches | |
| Coaches | Ventilation | ? | Coaches | |
| Coaches | Ventilation and Extraction efficiency (Spraybooth and Shotblast booth) | Yes | Coaches | |
| | | | | |
| Nsezi Locomotive | Ventilation | Yes | Off R102 Richard bay 3900 | |
| Nsezi Locomotive | Thermal (Heat) | Yes | Off R102 Richard bay 3900 | |
| Nsezi Locomotive | Illumination (Lux) | Yes | Off R102 Richard bay 3900 | |
| Nsezi Locomotive | HCS (incl fumes, dust, etc) | Yes | Off R102 Richard bay 3900 | |
| Nsezi Locomotive | Noise | Yes | Off R102 Richard bay 3900 | |
| Nsezi Locomotive | Ergonomics | Yes | Off R102 Richard bay 3900 | |
| Nsezi Locomotive | Vibration | Yes | Off R102 Richard bay 3900 | |
| Nsezi Locomotive-2279 | Heat stress: workshop | YES | | |
| Nsezi Locomotive-2279 | Heat Stress: Yard | YES | | |
| Nsezi Locomotive-2279 | Night Lighting: Yard | YES | | |
| Nsezi Locomotive-2279 | Night Lighting: Office | YES | | |
| Nsezi Locomotive-2279 | Noise: Yard | YES | | |
| Nsezi Locomotive-2279 | Ergonomic | | | |
| | | | | |

Signature of Bidder/s: _____ Date: _____



| | | | | |
|----------------------|--------------------------------------|-------------------------------|----------------------------------|--------------------|
| Nsezi Wagons | Vibration | Yes | Ware house R76A Richard bay 3900 | 2 |
| Business Unit | Type of Survey | Survey Required Yes/No | Physical address | Bay numbers |
| Nsezi Wagons | Noise: Workshop | Yes | Ware house R76A Richard bay 3900 | 2 |
| Nsezi Wagons | Noise: Yards | YES | | |
| Nsezi Wagons | Illumination | Yes | Ware house R76A Richard bay 3900 | 2 |
| Nsezi Wagons | Ergonomics | Yes | Ware house R76A Richard bay 3900 | 2 |
| Nsezi Wagons | Ergonomics: Yard | No | | |
| Nsezi Wagons | HCS | Yes | Ware house R76A Richard bay 3900 | 2 |
| Nsezi Wagons | Thermal (Heat) | Yes | Ware house R76A Richard bay 3900 | 2 |
| Nsezi Wagons | Thermal: workshop | ? | | |
| Nsezi Wagons | Thermal: Yard | YES | | |
| Nsezi Wagons | Ventilation: workshop | ? | | |
| Insezi wagons 2279 | Ergonomics | ? | | |
| Insezi wagons 2279 | Night Lighting: Yard | YES | | |
| Insezi wagons 2279 | Night light: Office | YES | | |
| Insezi wagons 2279 | Noise: Yard | YES | | |
| Insezi wagons 2279 | Ventilation: Ablutions And Mess Room | YES | | |
| Insezi wagons 2279 | Ventilation: Offices | YES | | |
| | | | | |
| South Dunes Wagons | Thermal (Heat) Workshop | Yes | Eleanor Road Richard bay 3900 | 3 |
| South Dunes Wagons | Thermal : Yard | YES | | |
| South Dunes Wagons | Workshop | Yes | Eleanor Road Richard bay 3901 | 3 |
| South Dunes Wagons | Noise | Yes | Eleanor Road Richard bay 3902 | 3 |
| | | | | |
| South Dunes Wagons | Noise: Yard | No | Eleanor Road Richard bay 3902 | |
| South Dunes Wagons | Illumination | Yes | Eleanor Road Richard bay 3903 | 3 |
| South Dunes Wagons | Illumination: Night | Yes | Eleanor Road Richards Bay 3904 | |

Signature of Bidder/s: _____

Date: _____



| | | | | |
|-----------------------------------|-----------------------|-------------------------------|---|--------------------|
| South Dunes Wagons | Ergonomics | Yes | Eleanor Road Richard bay 3904 | 3 |
| Business Unit | Type of Survey | Survey Required Yes/No | Physical address | Bay numbers |
| South Dunes Wagons | Ergonomics: Yard | yes | Eleanor Road Richard bay 3904 | |
| South Dunes Wagons | HCS | Yes | Eleanor Road Richard bay 3905 | 3 |
| South Dunes Wagons | HBA | Yes | Eleanor Road Richard bay 3905 | 3 |
| South Dunes Wagons | Ventilation: workshop | Yes | Eleanor Road Richard bay 3905 | |
| | | | | |
| Ports Auxiliary | Vibration | Yes | Container Depot- off Solomon Mahlangu Drive | 1 |
| Ports Auxiliary | Noise | Yes | Container Depot- off Solomon Mahlangu Drive | 1 |
| Ports Auxiliary | Illumination | Yes | Container Depot- off Solomon Mahlangu Drive | 1 |
| Ports Auxiliary | Ventilation | Yes | Container Depot- off Solomon Mahlangu Drive | 1 |
| Ports Auxiliary | Ergonomics | Yes | Container Depot- off Solomon Mahlangu Drive | 1 |
| Ports Auxiliary | HBA | Yes | Container Depot- off Solomon Mahlangu Drive | 1 |
| Ports Auxiliary- Washout Facility | Noise | yes | 311 Solomon Mahlangu Drive | 1 |
| | | | | |
| Port Equipment | Noise | Yes | 311 Solomon Mahlangu Drive | 4 |
| Port Equipment | Ventilation | Yes | 311 Solomon Mahlangu Drive | |
| Port Equipment | Thermal (Heat) | Yes | 311 Solomon Mahlangu Drive | 4 |
| Port Equipment | Vibration | Yes | 311 Solomon Mahlangu Drive | 4 |
| Ports Equipment | Illumination | Yes | 311 Solomon Mahlangu Drive | 4 |
| Port Equipment | Ergonomics | Yes | 311 Solomon Mahlangu Drive | 4 |
| Port Equipment | HCS (21_) | Yes | 311 Solomon Mahlangu Drive | 4 |
| Port Equipment | HBA | Yes | 311 Solomon Mahlangu Drive | 4 |
| | | | | |
| PD Wagons & Research and | Noise | Yes | | 2 |

Signature of Bidder/s: _____ Date: _____



| | | | | |
|-----------------------------|-----------------------|-------------------------------|----------------------------|--------------------|
| Development | | | | |
| PD Wagons | Thermal (Heat) | Yes | 311 Solomon Mahlangu Drive | 2 |
| PD Wagons | Vibration | Yes | 311 Solomon Mahlangu Drive | 2 |
| Business Unit | Type of Survey | Survey Required Yes/No | Physical address | Bay numbers |
| PD Wagons | Illumination | Yes | 311 Solomon Mahlangu Drive | 2 |
| PD Wagons | Ergonomics | Yes | 311 Solomon Mahlangu Drive | 2 |
| PD Wagons | HCS | Yes | 311 Solomon Mahlangu Drive | 2 |
| PD Wagons | HBA | Yes | 311 Solomon Mahlangu Drive | 2 |
| PD Wagons | Ventilation | Yes | 311 Solomon Mahlangu Drive | |
| | | | | |
| Wheels (incl Bay 10) | Noise | Yes | 311 Solomon Mahlangu Drive | 7 |
| Wheels (incl Bay 10) | Thermal (Heat) | Yes | 311 Solomon Mahlangu Drive | 7 |
| Wheels (incl Bay 10) | Vibration | Yes | 311 Solomon Mahlangu Drive | 7 |
| Wheels (incl Bay 10) | Illumination | Yes | 311 Solomon Mahlangu Drive | 7 |
| Wheels (incl Bay 10) | Ergonomics | Yes | 311 Solomon Mahlangu Drive | 7 |
| Wheels (incl Bay 10) | HCS | Yes | 311 Solomon Mahlangu Drive | 7 |
| Wheels (incl Bay 10) | HBA | Yes | 311 Solomon Mahlangu Drive | 7 |
| Wheels (incl Bay 10) | Ventilation | Yes | 311 Solomon Mahlangu Drive | |
| | | | | |
| School of Engineering | Noise | Yes | 311 Solomon Mahlangu Drive | 3 |
| School of Engineering | Thermal (Heat) | Yes | 311 Solomon Mahlangu Drive | 3 |
| School of Engineering | Vibration | Yes | 311 Solomon Mahlangu Drive | 3 |
| School of Engineering | Illumination | Yes | 311 Solomon Mahlangu Drive | 3 |
| School of Engineering | Ergonomics | Yes | 311 Solomon Mahlangu Drive | 3 |
| School of Engineering | HCS | Yes | 311 Solomon Mahlangu Drive | 3 |
| School of Engineering | HBA | Yes | 311 Solomon Mahlangu Drive | 3 |
| School of Engineering | Ventilation | | | |
| | | | | |
| School of Engineering - ETC | Noise | Yes | Fish Eagle Road | 2 |
| School of Engineering - | Thermal | Yes | Fish Eagle Road | 2 |

Signature of Bidder/s: _____ Date: _____



| | | | | |
|-----------------------------|-----------------------|-------------------------------|-------------------------|--------------------|
| ETC | | | | |
| Business Unit | Type of Survey | Survey Required Yes/No | Physical address | Bay numbers |
| School of Engineering - ETC | Vibration | Yes | Fish Eagle Road | 2 |
| School of Engineering - ETC | Lighting | Yes | Fish Eagle Road | 2 |
| School of Engineering - ETC | Ergonomics | Yes | Fish Eagle Road | 2 |
| School of Engineering - ETC | HCS | Yes | Fish Eagle Road | 2 |
| School of Engineering - ETC | HBA | Yes | Fish Eagle Road | 2 |
| | | | | |
| Tip Top Training Centre | Ventilation | | | |
| Tip Top Training Centre | Noise | Yes | Near Durban Station | 1 |
| Tip Top Training Centre | Thermal (Heat) | Yes | Near Durban Station | 1 |
| Tip Top Training Centre | Vibration | Yes | Near Durban Station | 1 |
| Tip Top Training Centre | Illumination | Yes | Near Durban Station | 1 |
| Tip Top Training Centre | Ergonomics | Yes | Near Durban Station | 1 |
| Tip Top Training Tip | HCS | Yes | Near Durban Station | 1 |
| Tip Top Training Centre | HBA | Yes | Near Durban Station | 1 |
| | | | | |
| Wheels Richards Bay | Noise | Yes | Richard bay 3900 | 1 |
| Wheels Richards Bay | Thermal | Yes | Richard bay 3900 | 1 |
| Wheels | Vibration | Yes | Richard bay 3900 | 1 |

Signature of Bidder/s: _____ Date: _____



| | | | | |
|----------------------------|-----------------------|-------------------------------|----------------------------|--------------------|
| Richards Bay | | | | |
| Wheels Richards Bay | Illumination | Yes | Richard bay 3900 | 1 |
| Business Unit | Type of Survey | Survey Required Yes/No | Physical address | Bay numbers |
| Wheels Richards Bay | Ergonomics | Yes | Richard bay 3900 | 1 |
| Wheels Richards Bay | HCS | Yes | Richard bay 3900 | 1 |
| Wheels Richards Bay | HBA | Yes | Richard bay 3900 | 1 |
| Wheels Richards Bay | Ventilation | | | |
| | | | | |
| Rolling Stock Equipment | Noise | Yes | 311 Solomon Mahlangu Drive | 9 |
| Rolling Stock Equipment | Thermal | Yes | 311 Solomon Mahlangu Drive | 9 |
| Rolling Stock Equipment | Vibration | Yes | 311 Solomon Mahlangu Drive | 9 |
| Rolling Stock Equipment | Illumination | Yes | 311 Solomon Mahlangu Drive | 9 |
| Rolling Stock Equipment | Ergonomics | Yes | 311 Solomon Mahlangu Drive | 9 |
| Rolling Stock Equipment | HCS | Yes | 311 Solomon Mahlangu Drive | 9 |
| Rolling Stock Equipment | HBA | Yes | 311 Solomon Mahlangu Drive | 9 |
| (incl Spring Shop) | | Yes | 311 Solomon Mahlangu Drive | 9 |
| Rolling Stock Equipment | Ventilation | | | |
| | | | | |
| CNR Locomotive | Noise | Yes | 311 Solomon Mahlangu Drive | 12 |
| CNR Locomotive | Thermal | Yes | 311 Solomon Mahlangu Drive | 12 |
| CNR Locomotive | Vibration | Yes | 311 Solomon Mahlangu Drive | 12 |
| CNR Locomotive | Illumination | Yes | 311 Solomon Mahlangu Drive | 12 |
| CNR Locomotive | Ergonomics | Yes | 311 Solomon Mahlangu Drive | 12 |
| CNR Locomotive | HCS | Yes | 311 Solomon Mahlangu Drive | 12 |
| CNR Locomotive | HBA | Yes | 311 Solomon Mahlangu Drive | 12 |
| CNR Locomotive | Ventilation | | | |
| | | | | |

Signature of Bidder/s: _____ Date: _____



| | | | | |
|-------------------------|-----------------------|-------------------------------|------------------------------------|--------------------|
| BT Locomotive | Noise | Yes | 311 Solomon Mahlangu Drive | 6 |
| Business Unit | Type of Survey | Survey Required Yes/No | Physical address | Bay numbers |
| BT Locomotive | Thermal | Yes | 311 Solomon Mahlangu Drive | 6 |
| BT Locomotive | Vibration | Yes | 311 Solomon Mahlangu Drive | 6 |
| BT Locomotive | Illumination | Yes | 311 Solomon Mahlangu Drive | 6 |
| BT Locomotive | Ergonomics | Yes | 311 Solomon Mahlangu Drive | 6 |
| BT Locomotive | HCS | Yes | 311 Solomon Mahlangu Drive | 6 |
| BT Locomotive | HBA | Yes | 311 Solomon Mahlangu Drive | 6 |
| BT Locomotive | Ventilation | | | 6 |
| | | | | |
| Wentworth Locomotives | HBA | Yes | Wentworth Depot- off Teakwood Road | 19 |
| Wentworth Locomotives | HCS | Yes | Wentworth Depot- off Teakwood Road | 19 |
| Wentworth Locomotives | Noise | Yes | Wentworth Depot- off Teakwood Road | 19 |
| Wentworth Locomotives | Lighting | Yes | Wentworth Depot- off Teakwood Road | 19 |
| Wentworth Locomotives | Ergonomics | Yes | Wentworth Depot- off Teakwood Road | 19 |
| Wentworth Locomotives | Thermal | Yes | Wentworth Depot- off Teakwood Road | 19 |
| Wentworth Locomotives | Ventilation | Yes | Wentworth Depot off Teakwood Road | 19 |
| | | | | |
| Locomotives Masons Mill | HBA | Yes | Masons Mill- Moses Madiba Road | 3 |
| Locomotives Masons Mill | HCS | Yes | Masons Mill- Moses Madiba Road | 3 |
| Locomotives Masons Mill | Noise | Yes | Masons Mill- Moses Madiba Road | 3 |
| Locomotive Masons Mill | Noise: yard | Yes | | |
| Locomotives Masons Mill | Lighting | Yes | Masons Mill- Moses Madiba Road | 3 |
| Locomotive Masons Mill | Night Lighting: Yard | Yes | | |
| Locomotives Masons Mill | Ergonomics | Yes | Masons Mill- Moses Madiba Road | 3 |
| Locomotives: | Ergonomics: Yard | Yes | | |

Signature of Bidder/s: _____ Date: _____



| | | | | |
|----------------------------|-------------------------|---------------------------------------|--------------------------------|------------------------|
| Masons Mill | | | | |
| Locomotives Masons Mill | Thermal | Yes | Masons Mill- Moses Madiba Road | 3 |
| Business Unit | Type of Survey | Survey Required Yes/No | Physical address | Bay numbers |
| Locomotives Masons Mill | Thermal Yard | No | | |
| Locomotives Masons Mill | Ventilation | Yes | Masons Mill- Moses Madiba Road | 3 |
| | | | | |
| RM and Coil Shop | HBA | Yes | 150 Eel Road | 6 |
| RM and Coil Shop | HCS | Yes | 150 Eel Road | 6 |
| RM and Coil Shop | Noise | Yes | 150 Eel Road | 6 |
| RM and Coil Shop | Lighting | Yes | 150 Eel Road | 6 |
| RM and Coil Shop | Ergonomics | Yes | 150 Eel Road | 6 |
| RM and Coil Shop | Thermal | Yes | 150 Eel Road | 6 |
| RM and Coil Shop | Ventilation | Yes | 150 Eel Road | 6 |
| | | | | |
| Wagons Bayhead | Lighting | Yes | Bayhead | 5 |
| Wagons Bayhead | Noise | Yes | Bayhead | 5 |
| Wagons Bayhead | Vibration | Yes | Bayhead | 5 |
| Wagons Bayhead | Ergonomics | Yes | Bayhead | 5 |
| Wagons Bayhead | Thermal | Yes | Bayhead | 5 |
| Wagons Bayhead | Ventilation | Yes | Bayhead | 5 |
| Wagons Bayhead | HCS (inc welding fumes) | Yes | Bayhead | 5 |
| Wagons Bayhead | HBA | Yes | Bayhead | 5 |
| | | | | |
| King Rest | HBA | Yes | 3 Crane Road Bayhead | 1 |

Signature of Bidder/s: _____ Date: _____



| | | | | |
|-----------------------|-----------------------|-------------------------------|--------------------------------|--------------------|
| King Rest | HCS | Yes | 3 Crane Road Bayhead | 1 |
| King Rest | Lighting | Yes | 3 Crane Road Bayhead | 1 |
| Kings Rest | Night Lighting: Yard | NO | | 1 |
| Business Unit | Type of Survey | Survey Required Yes/No | Physical address | Bay numbers |
| King Rest | Noise | Yes | 3 Crane Road Bayhead | 1 |
| King Rest | Vibration | Yes | 3 Crane Road Bayhead | 1 |
| King Rest | Ergonomics | Yes | 3 Crane Road Bayhead | 1 |
| King Rest | Thermal | Yes | 3 Crane Road Bayhead | 1 |
| Kings Rest | Thermal: Yard | No | | |
| Kings Rest | Ventilation: workshop | | | |
| | | | | |
| Newcastle Locos | HCS | Yes | Andre Wessel Drive , Newcastle | |
| Newcastle Locos | Lighting | Yes | Andre Wessel Drive , Newcastle | |
| Newcastle Locos | Noise | Yes | Andre Wessel Drive , Newcastle | |
| Newcastle Locos | Vibration | Yes | Andre Wessel Drive , Newcastle | |
| Newcastle Locos | Ergonomics | Yes | Andre Wessel Drive , Newcastle | |
| Newcastle Locos | Thermal | Yes | Andre Wessel Drive , Newcastle | |
| Newcastle Locos | Ventilation | Yes | Andre Wessel Drive , Newcastle | |
| Newcastle Locos | HBA | Yes | Andre Wessel Drive , Newcastle | |
| | | | | |
| Locomotives Danskraal | HCS | Yes | 2 Diamana Road, Ladysmith | 2 |
| Locomotives Danskraal | Lighting | Yes | 2 Diamana Road, Ladysmith | 2 |
| Locomotives Danskraal | Noise | Yes | 2 Diamana Road, Ladysmith | 2 |
| Locomotives Danskraal | Vibration | Yes | 2 Diamana Road, Ladysmith | 2 |
| Locomotives Danskraal | Ergonomics | Yes | 2 Diamana Road, Ladysmith | 2 |
| Locomotives Danskraal | Thermal | Yes | 2 Diamana Road, Ladysmith | 2 |
| Locomotives Danskraal | Ventilation | Yes | 2 Diamana Road, Ladysmith | 2 |
| Locomotives Danskraal | HBA | Yes | 2 Diamana Road, Ladysmith | |
| | | | | |
| Wagons Newcastle | HCS | Yes | Wagons Newcastle | 1 |
| Wagons | Lighting | Yes | Wagons Newcastle | 1 |

Signature of Bidder/s: _____

Date: _____



| | | | | |
|----------------------|-----------------------|-------------------------------|-------------------------|--------------------|
| Newcastle | | | | |
| Wagons Newcastle | Noise | Yes | Wagons Newcastle | 1 |
| Business Unit | Type of Survey | Survey Required Yes/No | Physical address | Bay numbers |
| Wagons Newcastle | Vibration | Yes | Wagons Newcastle | 1 |
| Wagons Newcastle | Ergonomics | Yes | Wagons Newcastle | 1 |
| Wagons Newcastle | Thermal | Yes | Wagons Newcastle | 1 |
| Wagons Newcastle | Ventilation | Yes | Wagons Newcastle | 1 |
| Wagons Newcastle | HBA | Yes | Wagons Newcastle | 1 |
| | | | | |
| Locomotives ELD UBO | HCS | Yes | 152 Eel Road, Umbilo | 3 |
| Locomotives ELD UBO | Lighting | Yes | 152 Eel Road | 3 |
| Locomotives ELD UBO | Lighting: Yard | yes | | |
| Locomotives ELD UBO | Lighting: Office | Yes | | |
| Locomotives ELD UBO | Noise | Yes | 152 Eel Road | 3 |
| Locomotives ELD UBO | Noise: Yard | Yes | | |
| Locomotives ELD UBO | Vibration | Yes | 152 Eel Road | 3 |
| Locomotives ELD UBO | Ergonomics | Yes | 152 Eel Road | 3 |
| Locomotives ELD UBO | Thermal | Yes | 152 Eel Road | 3 |
| Locomotives ELD UBO | Ventilation | Yes | 152 Eel Road | 3 |
| Locomotives ELD UBO | HCS | Yes | 152 Eel Road | 3 |
| Locomotives ELD UBO | HBA | Yes | 152 Eel Road | |
| | | | | |
| PEMM | HCS | Yes | 311 Solomon Mahlangu | 3 |
| PEMM | Lighting | Yes | 311 Solomon Mahlangu | 3 |
| PEMM | Noise | Yes | 311 Solomon Mahlangu | 3 |
| PEMM | Vibration | Yes | 311 Solomon Mahlangu | 3 |
| PEMM | Ergonomics | Yes | 311 Solomon Mahlangu | 3 |
| PEMM | Ergonomics: Yard | YES | | |
| PEMM | Thermal | Yes | 311 Solomon Mahlangu | 3 |
| PEMM | Ventilation | Yes | 311 Solomon Mahlangu | |

Signature of Bidder/s: _____ Date: _____



| | | | | |
|----------------------|-----------------------|-------------------------------|----------------------------|--------------------|
| PEMM | Noise Survey: Yard | No | 311 Solomon Mahlangu | |
| PEMM | Night Lighting Survey | ? | 3121 Solomon Mahlangu | |
| | | | | |
| Business Unit | Type of Survey | Survey Required Yes/No | Physical address | Bay numbers |
| Locomotives Vryheid | HCS | Yes | Vryheid | 2 |
| Locomotives Vryheid | Lighting | Yes | Vryheid | 2 |
| Locomotives Vryheid | Night Lighting: Yard | NO | Vryheid | |
| Locomotives Vryheid | Noise | Yes | Vryheid | 2 |
| Locomotives Vryheid | Noise: Yard | Yes | Vryheid | |
| Locomotives Vryheid | Vibration | Yes | Vryheid | 2 |
| Locomotives Vryheid | Ergonomics | Yes | Vryheid | 2 |
| Locomotives Vryheid | Ergonomics: Yard | Yes | Vryheid | |
| Locomotives Vryheid | Thermal | Yes | Vryheid | 2 |
| Locomotives Vryheid | Ventilation | Yes | Vryheid | 2 |
| | | | | |
| Wagons Factory | HCS | Yes | 311 Solomon Mahlangu Drive | 9 |
| Wagons Factory | Lighting | Yes | 311 Solomon Mahlangu Drive | 9 |
| Wagons Factory | Noise | Yes | 311 Solomon Mahlangu Drive | 9 |
| Wagons Factory | Vibration | Yes | 311 Solomon Mahlangu Drive | 9 |
| Wagons Factory | Ergonomics | Yes | 311 Solomon Mahlangu Drive | 9 |
| Wagons Factory | Thermal | Yes | 311 Solomon Mahlangu Drive | 9 |
| Wagons Factory | Ventilation | Yes | 311 Solomon Mahlangu Drive | 9 |

5.3 Scope of work

| Item no. | <u>REQUIREMENTS</u> | Complying Yes (if complying) No (if not complying) |
|----------|--|--|
| 5.3.1 | This scope of work shall be read with Annexure 1 (Transnet Engineering Safety, Health and Environmental Management specification) and contractor management SOP 014. Bidders shall | |

Signature of Bidder/s: _____ Date: _____



| | | |
|----------|------------------------------|--|
| | include costs of compliance. | |
| Item no. | <u>REQUIREMENTS</u> | Complying Yes (if complying) No (if not complying) |

| | | |
|--------|--|--|
| | <u>AIA COMPETENCY</u> | |
| 5.3.3 | The service provider must be an Approved Inspection Authority (AIA), approved by the Department of Labour and in the process of SANAS accreditation. The valid Certificate of approval must accompany the quotation. TE will require a valid / recent copy of the certificate with each report supplied. | |
| 5.3.4 | Personnel involved in the services of the Approved Inspection Authority must be registered with the Southern African Institute of Occupational Hygiene (SAIOH). TE will require copies of the certificates with each report supplied. The Approved Inspection Authority must include at least one Occupational Hygienist. | |
| 5.3.5 | Assistant Occupational Hygienists must be under the direct supervision of the Occupational Hygienist if they are to conduct monitoring surveys. | |
| 5.3.6 | An Occupational Hygiene Technologist must be registered with SAIOH and hold a valid legal competency certificate. TE will require copies of the certificates with each report supplied. | |
| 5.3.7 | Site inspection by the AIA is imperative before submitting quotations so as to be familiar with the occupational health hazards and risks in the workplace. | |
| | <u>MONITORING EQUIPMENT REQUIREMENTS</u> An AIA shall satisfy the following conditions:- | |
| 5.3.9 | Be in possession of technical equipment required for sampling. | |
| 5.3.10 | Be able to provide the valid calibration certificates for each piece of equipment used for sampling. | |
| 5.3.11 | Be accountable and responsible for the correct operation and calibration of all equipment used, whether it belongs to them or not. | |
| 5.3.12 | Be accountable and responsible for the result obtained if external accredited analytical laboratories (e.g. SANAS) are used for sample analysis. | |
| 5.3.13 | Instruct the laboratory on specific method of sampling analysis required (in accordance with legislation and SABS/SANS codes). | |
| 5.3.14 | Certify that the given method was used for the sampling analysis. Any | |

Signature of Bidder/s: _____ Date: _____



| | | |
|----------|--|--|
| | deviation from the sampling method must be recorded and the reason for such deviation must be motivated. | |
| Item no. | <u>REQUIREMENTS</u> | Complying Yes (if complying) No (if not complying) |
| 5.3.15 | Certify that the given method was used for the sampling analysis. Any deviation from the sampling method must be recorded and the reason for such deviation must be motivated. | |
| 5.3.16 | Give explanation, control measures and recommendations regarding findings and non-conformances as part of his report. | |
| 5.3.18 | Identification and Evaluation Occupational Health Stressors <ul style="list-style-type: none"> For risk identification, AIA shall list all activities from the start of its process to the end and identify the following stressors:- Chemical Stressors <ul style="list-style-type: none"> - Dust (e.g. Asbestos, Silica, etc). - Smoke (e.g. Smoke from stacks, etc). - Fumes (e.g. Exhaust emissions from Diesel Locomotives, metal fumes, etc). - Mist (e.g. Spray Painting). - Gases (e.g. Hazardous chemicals) and - Vapors (e.g. Lead from soldering processes). | |
| 5.3.20 | An AIA shall:- Conduct air monitoring to determine the measurement of the airborne concentrations of the HCS to which employees are exposed and rate these in terms of the significance as outlined in the HCS Regulation. Refer to chemical stressors in 5.1.1 and also consider other chemical substances not mentioned above. | |
| 5.3.22 | Physical Stressors <ul style="list-style-type: none"> -Whole-body Vibration to operators who operates shunting equipment like Traversers, Funky, Track mobile, Hunslet and Zepher. - Environmental Noise according to the SANS code 10103:2008. Ventilation and In-door air quality An AIA shall:- <ul style="list-style-type: none"> - Measure air velocity to determine if the air breathed by employees does not endanger their health as determined by the Occupational Exposure Limit (OEL). -Take into consideration the carbon dioxide, Carbon monoxide, Nitrogen dioxide, Sulphur dioxide, Formaldehyde and Soot content of the air in line with Regulation 5(c) of the Environmental Regulations for Work Places. - Measure ventilation and efficiency of extractions systems in the spray painting booths, shot blast booths and other similar systems. - Apply best practices and legislative requirements. | |

Signature of Bidder/s: _____ Date: _____



| Item no. | <u>REQUIREMENTS</u> | Complying Yes (if complying) No (if not complying) |
|----------|--|--|
| 5.3.23 | Ergonomics (Human Factors in Design) An AIA shall:- - Conduct assessment to consider human abilities and limitations in relation to work positions and machines. - Identify and evaluate risks, also taking into consideration Human Factor standard (SANS 3000-4:2011) (e.g. Inside Cabs of shunting equipment, Operational equipment such as Point tumblers, Commode handles, Access to shunting equipment, walk ways). - Provide practical recommendations and appropriate control measures, taking into consideration the hierarchy of controls. | |
| 5.3.24 | <u>Lighting</u> To assess lighting levels in all business against the prescribed standards. | |
| 5.3.25 | Noise also taking into account the Rail Safety Regulations where shunting operations are said to take place. This includes measurements inside shunting vehicles. | |
| 5.3.26 | Extraction Efficiencies These surveys shall also include extraction efficiencies of Local Extraction Systems already in place. | |
| 5.3.27 | DELIVERABLES A comprehensive Monitoring reports with clear recommendations as per National Business and per Region. The Environmental Stressors measured shall have tabulated information compared against the SANS standards and associated Environmental Legislation limits as indicated above written in the Monitoring reports. Final documents must be submitted in hard copies and also in an electronic format. | |
| 5.3.28 | WORK SCHEDULE: The Respondents must submit with their proposals a detailed schedule of the work to be undertaken as this will form part of the adjudication criteria. The schedule should also indicate time frames and be accompanied by a detailed budget breakdown per Region. The expected delivery date will be discussed with a successful tenderer. | |

- No work will be accepted by Transnet without the satisfaction of the conditions above.

6. OTHER INFORMATION RELATED TO THE SCOPE

- 6.1 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.
- 6.2 Any matter relating to this work, which requires a decision from Transnet Engineering shall be presented to the Project Manager in charge.

Signature of Bidder/s: _____ Date: _____



- 6.3 All offers shall be completed in every respect with this specification. Only completed tenders shall be considered.
- 6.4 The Technical Officer reserves the right to have the proposal checked independently by a third party.
- 6.5 Tenders must allow for monthly progress and clarification meetings on site initially and after commissioning for defect meetings when required. A meeting will be held after issuing of the tender to establish the exact scope and magnitude of the contract. No tender will be considered unless it has this certificate signed by the Engineer or his representative(s).

7. HEALTH AND SAFETY REQUIREMENTS

- 7.1 All repair work whether detailed in this scope of work or not shall comply with the requirements of the Occupational Health and Safety Act 85 of 1993 as amended and all other applicable legislation including specific set of regulations and local authority bylaws where applicable.
- 7.2 All the necessary safety equipment such as guards over rotating equipment shall be supplied and the equipment shall comply fully with all the requirements of the South African Occupational Health and Safety Act, Act 85 of 1993 and all other applicable legislation including specific set of regulations and local authority bylaws where applicable. At all times during the manufacture, assembly and testing of the equipment the contractor will be responsible for the safety of all persons on site and the equipment.

7.3 SHE SPECIFICATION

Prior to commencement of contract, the contractor shall be issued with a SHE specification in order to compile a SHE file in line with TE requirements. Prior to establishing on site, it is an explicit requirement of this contract that all of the Contractor's personnel directly involved with this contract, including those of sub-contractors, 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 adhoc basis.

The contractor must allow for all additional charges because of these requirements as no claims for extras will be accepted in connection with the foregoing.

7.4 As part of the legislative and TE SHE requirements.

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 two weeks prior to the commencement of the actual project. A safety file and associated documents will be required from a successful tenderer and such will be communicated by the Risk department.

Signature of Bidder/s: _____

Date: _____



7.5 Requirements for prevention of Covid-19

7.5.1 COVID-19 Safety Plan.

7.5.2 Daily Screening questionnaire.

7.5.3 Return to work induction register

- Induction Presentation/TE will also conduct the COVID-19 induction.

7.5.4 COVID-19 Employee questionnaire checklist.

7.5.5 Fitness Certificates.

7.5.6 Risk Assessments register.

7.5.7 COVID-19 PPE issue register/sanitizer.

8. SPECIALIST SUB-CONTRACTORS

- 8.1 Only specialist sub-contractors who have previously successfully completed work of the type and extent specified in this document should be engaged.

The tenderer shall provide the technical officer with sufficient proof of having suitable experience regarding the design and manufacturing of similar equipment. To this end, complete and detailed reference list shall be submitted with the tender. Reference list shall include addresses as well as contact person who may be visited for inspection of the equipment during the adjudication period.

- 8.2 The tender shall submit a complete list of proposed sub-contractors and suppliers of major components with his tender.
- 8.3 The tenderer shall be prepared to commit themselves in writing to the technical officer with an adequate, experienced and stable project team for the duration of the contract.
- 8.4 Transnet Engineering will not consider any Tenderer's offer that, in the sole opinion of Transnet Engineering, does not have adequate experience in the design and manufacture of such equipment.
- 8.5 Contractors shall do the installation simultaneously with other contractors on-site busy with other work and shall plan work that it integrates with other work performed.

9. GENERAL REQUIREMENTS

Operation will be in the following conditions:

| | |
|---------------------|--------------|
| Altitude | Sea level |
| Ambient temperature | 0°C to 45°C |
| Relative humidity | 50% to 100% |
| Atmosphere | Heavy saline |

- 9.1 Tenderers shall indicate clause-by-clause either that they comply in every respect with the specific requirements, or if not, exactly how it differs.

10. DEFINITIONS AND ABBREVIATIONS

Service Provider: Refers to the tenderer in terms of this specification.

Client: Refers to Transnet Engineering (TE).

Technical officer: Project Manager, Transnet Engineering Durban.

Signature of Bidder/s: _____ Date: _____



Contractor: Contractor appointed under this specification document.

SABS: South African Bureau of Standards.

SANS: South African National Standards.

11. GENERAL

- 11.1 The successful tenderer will be subjected to a workshop inspection by Transnet Engineering, to ensure that the facilities are to the satisfaction of the Transnet Engineering in terms of the quality control and equipment capabilities for manufacturing such type of equipment.
- 11.2 The tenderers shall guarantee that the rating and size etc. of the equipment offered, will be adequate to perform the duties required.

12. SITE ESTABLISHMENT

- 12.1 The contractor shall be solely responsible for safety of his staff and for providing security to safeguard his works and material on site, until such a time.
- 12.2 The contractor shall be required to attend site meetings when convened by the Project Leader controlling the contract.
- 12.3 The contractor will be responsible for any damages caused by his staff to the building and civil works on site.

13. PENALTY CLAUSES

- 13.1 Due to the criticality of this project, penalties will be levied for late deliveries.

Signature of Bidder/s: _____ Date: _____



TRANSNET LIMITED

14. SCHEDULE OF PRICES:

All prices **exclude Vat** and additional items listed (with prices) shall be clearly labelled as optional or essential.

| Item | Unit | Price per item | Qty | Price |
|---|------|----------------|------------|----------|
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| | | | | |
| Total (Excl. VAT) to tender form | | | Qty | R |

Tenderer: _____

Date: _____

Witness 1: _____

Date: _____

Witness 2: _____

Date: _____

Signature of Bidder/s: _____

Date: _____



15. TENDER EVALUATION CRITERIA

The following criteria will be used to award the tender. Should there be a criteria over and above the listed below, that will be used, such criteria will be specifically stated.

Technical evaluation criteria

| No. | Technical Evaluation Criteria | Weightings | Scoring guideline | | | | | |
|---|--|------------|---|--|--|-----------|---|----------|
| 15.1 | The methodology, standards, working procedures and list of calibrated measuring instruments that will be used in the execution of this contract (detailed written process and project plan to be supplied by the bidder): The methodology that will be used in the execution of this contract shall be provided. A process /project plan for the execution of this contract is provided. | 5 points | As the response from the supplier / service provider <table><tr><td>Methodology and process / project plan provided and fully detailed (very clear).</td><td>5 points</td></tr><tr><td>Methodology and process / project plan not provided • Where any of the required documents are not submitted, 0 points will be allocated.</td><td>0 points</td></tr></table> | | Methodology and process / project plan provided and fully detailed (very clear). | 5 points | Methodology and process / project plan not provided • Where any of the required documents are not submitted, 0 points will be allocated. | 0 points |
| Methodology and process / project plan provided and fully detailed (very clear). | 5 points | | | | | | | |
| Methodology and process / project plan not provided • Where any of the required documents are not submitted, 0 points will be allocated. | 0 points | | | | | | | |
| 15.2 | The measuring instruments that will be used in the execution of this contract is provided. The list of measuring instruments and calibration certificates. | 5 points | <table><tr><td>Attached list of measuring instruments, including their valid calibration certificates.</td><td>5 points</td></tr><tr><td>No attached list of calibrated measuring instruments and/or no attached valid calibration certificates.</td><td>0</td></tr></table> | | Attached list of measuring instruments, including their valid calibration certificates. | 5 points | No attached list of calibrated measuring instruments and/or no attached valid calibration certificates. | 0 |
| Attached list of measuring instruments, including their valid calibration certificates. | 5 points | | | | | | | |
| No attached list of calibrated measuring instruments and/or no attached valid calibration certificates. | 0 | | | | | | | |
| 15.3 | Compliance to scope of work Adherence to TE scope of work (read, completed and signed off all the pages and return with tender document). | 30 points | Completed and signed off the scope of work / specification. <table><tr><td>Scope of work document returned (complete and signed off)</td><td>30 points</td></tr><tr><td>Scope of work document returned but not fully completed, not signed off on all the pages or the document not returned at all.</td><td>0</td></tr></table> | | Scope of work document returned (complete and signed off) | 30 points | Scope of work document returned but not fully completed, not signed off on all the pages or the document not returned at all. | 0 |
| Scope of work document returned (complete and signed off) | 30 points | | | | | | | |
| Scope of work document returned but not fully completed, not signed off on all the pages or the document not returned at all. | 0 | | | | | | | |
| 15.4 | Experience Specific knowledge of conducting surveys occupational hygiene: Previous experience of conducting the occupational hygiene surveys in the past 5 years, with contactable references on a letter head of the company | 20 points | Three (3) contactable references, in the format of letters on client's letterhead submitted = 20 points Two (2) contactable references, in the format of letters on client's letterhead submitted = 10 points One (1) contactable references, in the format of letters on client's letterhead submitted = 5 points Zero (0) /no reference letters submitted = 0 | | | | | |
| 15.5 | Supplier to have a valid AIA certificate of approval from the Department of Labour and in process of SANAS accreditation (copy to be attached to the tender document). | 20 points | <table><tr><td>Submitted certified copies of valid AIA certificate of approval from the Department of Labour and proof of SANAS accreditation (or proof of ongoing process leading to SANAS accreditation).</td><td>20 points</td></tr><tr><td>No submitted certified copies of valid AIA certificate of approval from the Department of Labour and proof of SANAS accreditation (or proof of ongoing process leading to SANAS accreditation).</td><td>0 points</td></tr></table> | | Submitted certified copies of valid AIA certificate of approval from the Department of Labour and proof of SANAS accreditation (or proof of ongoing process leading to SANAS accreditation). | 20 points | No submitted certified copies of valid AIA certificate of approval from the Department of Labour and proof of SANAS accreditation (or proof of ongoing process leading to SANAS accreditation). | 0 points |
| Submitted certified copies of valid AIA certificate of approval from the Department of Labour and proof of SANAS accreditation (or proof of ongoing process leading to SANAS accreditation). | 20 points | | | | | | | |
| No submitted certified copies of valid AIA certificate of approval from the Department of Labour and proof of SANAS accreditation (or proof of ongoing process leading to SANAS accreditation). | 0 points | | | | | | | |
| 15.6 | <ul style="list-style-type: none">Proof of registration with | 20 points | <table><tr><td>Submitted certified copies of registration</td><td>20 points</td></tr></table> | | Submitted certified copies of registration | 20 points | | |
| Submitted certified copies of registration | 20 points | | | | | | | |

Signature of Bidder/s: _____

Date: _____



| No. | Technical Evaluation Criteria | Weightings | Scoring guideline | |
|-----|--|------------|---|---|
| | (SAIOH) for all employees that will be assigned to the project. With at least one registered Occupational Hygienist. | | with (SAIOH) for all employees that will be assigned to this project, including proof of registered Occupational Hygienist. | |
| | | | No submission of certified copies of registration with (SAIOH) for all employees that will be assigned to this project, including proof of registered Occupational Hygienist. If either proof is not submitted, no points would be allocated to the bid. | 0 |

Total Weighting:

Minimum qualifying score required:

| | |
|--|-------------------|
| | 100 points |
| | 80 points |

Signature of Bidder/s: _____

Date: _____



16. COMPLIANCE VERIFICATION

ITS IS MANDATORY FOR ALL THE SUPPLIERS/BIDDERS TO COMPLETE THIS FORM. AN INCOMPLETE FORM WILL RESULT IN DISQUALIFICATION.

| No. | Heading/Subsection | Comply | | | Comment |
|-----|--------------------------------|--------|----|-----|---------|
| | | Yes | No | N/A | |
| 4. | Technical Requirements | | | | |
| 5. | Specific requirement | | | | |
| 5.1 | Environment | | | | |
| 5.2 | Supply and delivery | | | | |
| 5.3 | Scope of work | | | | |
| 5.5 | Warranty | | | | |
| 8. | Health and safety requirements | | | | |
| 14. | Penalty clauses | | | | |

TENDERERS: PLEASE NOTE THAT YOUR TENDER WILL BE REJECTED IF ANY OF THE ABOVE ITEMS ARE OMITTED OR NOT FILLED.

Signature of Bidder/s: _____

Date: _____