

Scope of Works

Works Information

2.0 Description of work

- 2.1 Supply, Installation and Commissioning of an Optical Fibre Route : Union – Germiston – Kaserne in accordance with the Main Specification and Specifications PRC 000112,PRC00106,PRC 00107,SOP-OH 00 SPC 00029, SPC 00033, SPC000568, SPC 000571,SPC 573 ,SPC 583, SPC 588, SPC 01242, SPC 01279 attached.

INSTALLATION

- 3.1 The Contractor shall be responsible for the transport to site, off-loading, handling, storage and security of all material required for the construction/execution of the works.
- 3.2 All fasteners on steelwork, components and electrical connections (nuts and bolts) shall be secured using flat as well as lock washers.

4.0 INTERCONNECTION OF EQUIPMENT

- 4.1 All dissimilar metal connections (Cu to Al) shall be made using bi-metallic clamps that are specifically designed and manufactured to make that particular connection (ad hoc fabricated clamps are not acceptable).

5.0 DRAWINGS,INSTRUCTION MANUALS AND SPARE PART CATALOGUES

- 5.1 All as built drawings shall be supplied in electronic format (Microstation/Acad).
- 5.2 The successful Contractor shall be required to submit all drawings (paper prints), within four weeks of award of the tender, to the Employer for approval. No construction or manufacturing activity will be allowed prior to the associated drawings having been approved.
- 5.3 During the duration of the contract period, the successful Contractor will be required to inform the Employer of any changes to these drawings and will have to resubmit the affected drawings for approval prior to it being used on this contract.
- 5.4 All drawings, catalogues, instruction book and spares lists shall be in accordance with Transnet Freight's Rail specifications.

5.5 All final as built drawings shall be provided to Transnet Freight Rail within four weeks after commissioning.

6.0 **SITE TESTS**

6.1 The Optical fibre cable shall be inspected/tested and approved by Transnet Freight Rail Quality Assurance. Only once the approval has been granted can the Optical Fibre Cable be taken to site for installation.

6.2 The Contractor shall be responsible for carrying out of on-site test and commissioning of all equipment supplied and installed in terms of this Specification and the contractual agreement.

6.3 Functional on-site tests shall be conducted on all items of equipment to prove the proper functioning and installation thereof.

6.4 The Contractor shall submit a detailed list of on-site tests for the approval of the Employer.

6.5 The Contractor shall arrange for the Employer or his representative to be present to witness the on-site test.

6.6 Acceptance by the Employer of satisfactory completion of on-site test in no way relieves the Contractor of his obligation to rectify defects which may have been overlooked or become evident at a later stage.

7.0 **COMMISSIONING OF EQUIPMENT**

7.1. Commissioning will only take place after all defects have been rectified to the satisfaction of the Employer.

7.2 On completion of commissioning, the Contractor will hand the equipment over to the Employer in terms of the relevant instruction.

GUARANTEE AND DEFECTS

8.1 The Contractor shall guarantee the satisfactory operation of the complete installation supplied and erected by him and accept liability for maker's defects that may appear in design, materials and workmanship.

8.2 The Contractor shall be issued with a completion certificate with the list of all defects to be repaired within 14 working days after commissioning.

- 8.3 The guarantee period for these standby plants shall expire after: A period of 12 months commencing on the date of completion of the contract or the date the standby plant was handed over to Transnet Freight Rail.
- 8.4 Any defects that may become apparent during the guarantee period shall be rectified to the satisfaction of Transnet Freight Rail, and to the account of the Contractor.
- 8.5 The contractor shall undertake work on the rectification of any defects that may arise during the guarantee period within 7-days of him being notified by Transnet Freight Rail of such defects.
- 8.6 Should the Contractor fail to comply with the requirement stipulated above, Transnet Freight Rail shall be entitled to undertake the necessary repair work or effect replacement of defective apparatus or materials, and the Contractor shall reimburse Transnet Freight Rail the total cost of such repair or replacements, including the labour costs incurred in replacing defective material.
- 8.7 Any specific type of fault accruing three times within the guarantee period and which cannot be proven to be due to other faulty equipment not forming part of this contract e.g. faulty locomotive or overhead track equipment etc., shall automatically be deemed an inherent defect. Such inherent defect shall be fully rectified to the satisfaction of the Employer and at the cost of the Contractor.
- 8.8 If urgent repairs have to be carried out by Transnet Freight Rail staff to maintain supply during the guarantee period, the Contractor shall inspect such repairs to ensure that the guarantee period is not affected and should they be covered by the guarantee, reimburse Transnet Freight Rail the cost of material and labour.
- 9.0 **QUALITY AND INSPECTION**
- 9.1 Transnet Freight Rail shall inspect the equipment under contract on the premises of the Manufacturer if so required.
- 9.2 The Contractor shall notify Transnet Freight Rail 14 days in advance of such an inspection date.