

PART C3: SCOPE OF WORKS

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PART C3.1
WORKS INFORMATION

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Part C3.1

SCOPE OF WORK (SERVICE INFORMATION)

1 DESCRIPTION OF WORK

1.1 The contractor shall:-

- 1.1.1 Repair, service and test telecontrol material on an “as and when” basis.
- 1.1.2 Service, repair and test all material in accordance with procedures agreed to between Transnet Freight Rail and the contractor.
- 1.1.3 The contractor shall be responsible for all components, equipment, plant, resources, etc. that will be required.
- 1.1.4 No sub contracting shall be allowed without the written approval of Transnet Freight Rail.

2 SPECIFICATIONS

The latest editions of specifications listed below are applicable to this contract:

2.1 Original Material Manufacturer’s Specifications

- 2.1.1 CSE_11_NK_051_CAT_E22 Synopsis sheet for Telecontrol O/S:Logic rack sub assembly
- 2.1.2 CSE_11_NK_044_CAT_E22 Synopsis sheet for Telecontrol O/S:Logic and Modem Control Unit - LMCU
- 2.1.3 CSE_11BC_007_CAT_E22 Synopsis sheet for Equipped Telecontrol O/S: Modem Card -MC
- 2.1.4 BBB2682 Master record index Telecontrol: SIS 500 Outstation Digital Communications Interface
- 2.1.5 CSE_11_PU_006_CAT_E22 Synopsis sheet for Telecontrol O/S: Power Supply Unit
- 2.1.6 CSE_11BT_009_CAT_E22 Synopsis sheet for Equipped Telecontrol O/S:Digital Output Logic Card - DO
- 2.1.7 CSE_11BT_008_CAT_E22 Synopsis sheet for Equipped Telecontrol O/S:Digital Input Logic Card - DI
- 2.1.8 CSE_11BA_017_CAT_E22 Synopsis sheet for Equipped Telecontrol O/S: Analogue Input Card -ANA
- 2.1.9 SPC-00127_REV_0.01 Specification for batteries and battery chargers for Telecontrol Universal Outstations:MK3

2.2 Standards and specifications

- 2.2.1 Original material manufacturer's specifications shall be strictly adhered to.
- 2.2.2 Components to be replaced shall be the original only. Where replacements (equivalents) are to be used it must be approved by Transnet Freight Rail in writing.
- 2.2.3 The successful contractor shall have the necessary qualifications and knowledge to service, test and repair the material and must be approved by Transnet.
- 2.2.4 The successful contractor shall have the necessary facilities to service, test and repair the material and must be approved by Transnet.
- 2.3 An accredited member of the South African National Accreditation System shall calibrate instrumentation and certificates shall be presented to Transnet on an annual basis.
- 2.4 Transnet reserves the right to be present during the service and repair of material and the testing thereof.

3 MANAGEMENT OF WORKS

3.1 Programming, Methods and Procedures

3.1.1 Documentation and control

- 3.1.1.1 The successful contractors shall have a program (Excel spreadsheet) in place to track the movement of material in order to provide information about items repaired or in the process of being repaired. Transnet shall approve the spreadsheet format.
- 3.1.1.2 Detail Information on each item repaired shall be kept for a minimum of three years and shall be as approved by Transnet.
- 3.1.1.3 The successful contractors shall be responsible for the collection of faulty material and the delivery of repaired material at Office 0/13, Ground Floor, Inyanda House, 21 Wellington Road, Parktown.

3.1.2 Electronic cards service and repair procedures

- 3.1.2.1 All repair work must be done according to the original material manufacturer's specifications.
- 3.1.2.2 All cards must be cleaned by soft brush.
- 3.1.2.3 When unsoldering components all solder must be removed before the new component is soldered on.
- 3.1.2.4 After soldering all flux must be removed and soldering inspected for possible or potential dry joints.
- 3.1.2.5 Care must be taken to ensure that transistor legs or any other open wires do not touch and cause short circuits.
- 3.1.2.6 All cards tested shall comply with the original material manufacturer's specifications.

- 3.1.2.7 A label on the material must contain the following information: Type of card, serial number

3.2 Quality Plans and Control

3.2.1 Testing of serviced and repaired Telecontrol material

- 3.2.1.1 Upon completion of service and repair work, the material must be tested for conformance with the original material manufacturer's specifications.
- 3.2.1.2 These tests shall be carried out at the contractor's premises.
- 3.2.1.3 Test and repair procedures used by the contractor must be approved by Transnet Freight Rail in writing.

3.2.2 Packaging

Telecontrol material shall be wrapped and packed in such a manner that it shall not be damaged during handling and transportation. Transnet must approve the method.

3.2.3 Quality assurance

Transnet requires that the contractor have an approved quality assurance procedure in place. Transnet Freight Rail requires that repaired material will not have a failure rate of more than 2 % per batch.

3.2.4 Turnaround time

Transnet requires that material must be serviced, repaired and tested within 30 days after collection by the contractor.

4 GUARANTEE

Repairs to material undertaken by the contractor will carry a 6 (six) month guarantee on the serviced material from the date of receipt by Transnet Freight Rail on normal failure only. Should any such serviced material be returned to the contractor during this period it will be repaired at no extra cost.

5 INSURANCE

The contractor shall have insurance cover for Telecontrol material whilst in his possession for repair.