

Specification (Measurement)

**Transport and Main Roads Specifications
MRS221 Help Phones**

July 2017

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1 Introduction

This Specification applies to the requirements for the design, supply of materials and equipment, installation, testing, commissioning and maintenance, handover and documentation of the Provision of Help Phones.

This Specification should be read in conjunction with MRS01 *Introduction to Specifications*, MRTS221 *Help Phones* and other Specifications as appropriate.

This Specification forms part of the Transport and Main Roads Specifications Manual

2 Measurement of works

2.1 Standard Work Items

In accordance with the provisions of Clause 2 of MRS01 *Introduction to Specifications*, the Standard Work Items covered by this Specification are listed in Table 2.1.

Table 2.1 – Standard Work Items

Standard Item No.	Description	Unit of Measurements
Help phones		
63301	Supply, installation and connection of Help Phone with mains supply and direct connection into the Transport and Main Roads communications network [<i>list locations</i>]	each
63302	Supply, installation and connection of Help Phone with solar power and telecommunications service provider [<i>wireless / wired</i>] connection [<i>list locations</i>] [<i>type</i>], excluding the SIM card	each
Removal of existing help phone equipment		
63391	Removal of Help Phone equipment for re-use	each
63392	Removal of Help Phone equipment for disposal	each

2.2 Work Operations

Item 63301 **Supply, installation and connection of Help Phone with mains supply and direct connection into the Transport and Main Roads communications network [*list locations*]**

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) general equipment requirements stated in MRTS201
- c) supply, fabrication, installation, testing and documentation of equipment in accordance with the requirements of MRTS221
- d) provision for Energex labour, materials and documentation, and
- e) provision of handover documentation in accordance with MRTS201, and MRTS210.

Item 63302 Supply, installation and connection of Help Phone with solar power and telecommunications service provider [wireless / wired] connection [list locations] [type], excluding the SIM card

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) general equipment requirements stated in MRTS201
- c) supply, fabrication, installation, testing and documentation of equipment in accordance with the requirements of MRTS221, and
- d) provision of telecommunications service.

Item 63391 Removal of Help Phone equipment for re-use

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) disconnection of electrical supply, including termination and 'making safe' of supply cable where applicable
- c) disconnection of telecommunications connection
- d) removal of help phone and supporting pole, and
- e) transport of all components to Principal's storage facility or designated site storage area for re-use.

Item 63392 Removal of Help Phone equipment for disposal

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) disconnection of electrical supply, including termination and 'making safe' of supply cable where applicable
- c) disconnection of telecommunications connection
- d) removal of help phone and supporting pole, and
- e) transport of all components and disposal.

2.3 Method of measurement of provision of help phones

This Specification provides Standard Work Items for:

- a) supply and installation

of Help Phones.

Any combination of Standard Work Items relating to these methods of measurement may be used in the Schedule of Rates. However, where a Standard Work Item for supply and installation of a particular component or group of components is included in the Schedule of Rates, no supply only, nor installation only Standard Work Item shall also apply to that component or group of components as applicable.

2.4 Supply of materials

Any materials to be supplied by the Principal will be as stated in the Principal Supplied Material List Form C6827. All other material shall be supplied by the Contractor.

The responsibility for transport to the Site of materials supplied by the Principal shall be as stated in the Principal Supplied Material List Form C6827. Transport to the Site of all other materials shall be the responsibility of the Contractor.

