

Horniman Museum and Gardens

Appendix A

Scope of works: Radio System Upgrade

Introduction:

In 1901 Frederick Horniman gave the Horniman Museum and Gardens as a free gift to the people for their education, recreation and enjoyment, this vision still remains central to the Horniman today. A blend of high quality collections spanning the natural, multicultural and musical worlds; 16 acres of well managed urban open space; community based educational and leisure programmes and a wide range of performance, events and activities provide an unrivalled opportunity for a diverse range of visitors to encounter and understand the richness and variety of the World in which we live.

Radio System Upgrade:

The current radio system at the Horniman consists of x72 HYT TC- 610 two way radios originally purchased in assisted by a repeater which was installed around 2015. The TC-610 is an analogue two way radio manufactured by Hytera. As it is built to IP66 standards the TC-610 is protected from dust and it can be fully submersed in water of up to 3 meters. A standard 1200mAh Li-Ion battery comes with the radio itself and can keep the TC610 operating for up to 12 hours. The radio stands at 117mm tall and 54mm wide. There are currently 2 radio channels in operation on site covered by one Ofcom Licence. The second channel is only usable by a few radios, so is not really used day to day.

The TC 6-10 radios are no longer available to purchase through nationwide suppliers due to age and reduced functionality. This has resulted in some operational difficulty for the teams on site when one breaks. Although well maintained the current radio system has reached the end of its life and requires full renewal. Tender bids are required for a new radio system at the Museum to the specification below:

System Specification:

1. Hand Held Radios:

- a. The Motorola DP3441Ex 45 and DP3661e x 25 would be the required solution for site.
- b. The radio is IP68 rated with almost complete immunity to dust and water.
- c. Orange Emergency Alert button for priority interrupt should be operational
- d. Support for indoor and outdoor location tracking – this will not be something we will be including initially, however will be looking to add it into the system at a later date.
- e. Supports Lone worker & man down functions – this will be a function we will require for 25 of the radios.
- f. The tendering contractor will be responsible for ensuring the radio system has full coverage across the entire London Road estate, including 16 acres of gardens.

2. Technical Specification

- a. The system should be equipped with 4 radio channels (additional 2), to improve communication across site and reduce radio traffic on one channel – this will require the tender having two radio licences included.
- b. The radios should be supported by a PC based monitoring software called TRBOnet to be located in the Security Control Room. This should include the following features:
 - i. TRBONET ENTERPRISE PACKAGE c/w 15 user licences.
 - ii. Additional radio licences (55)
 - iii. Additional dispatcher station.
 - iv. Indoor positioning module
 - v. Guard tour/route management
- c. The PC should be stand alone.

- d. The System should be simple to operate.
- e. The system should include a priority or Transmission Interrupt function, allowing key users to cut into transmissions. This should be programmed onto 5 key radios.
- f. The system should include voice recording for auditing and evidential purposes with an auto deleting function.

3. Maintenance

- a. As part of your tender return provide an annual service proposal on a 12 monthly basis with annual renewal option.
- b. Should include detail on response time to issues, callout costs, materials mark-up and any other costs or exclusions detailed.
- c. If possible, should include remote access for dialling in to faults.
- d. Details of fault reporting system.
- e. All equipment supplied must come with stated manufacturer's warranty, and a warranty on the installation.

4. Training

- a. All tenders received must allow for full onsite or virtual training for 10 members of staff.

5. Pricing

- a. Tenders must complete the pricing schedule included in the tender documents.
- b. Tenderers should provide a breakdown of each cost, excluding VAT.
- c. Any assumptions or exclusions should be declared.
- d. This tender is for the outright purchasing of the system with an additional cost for an annual maintenance agreement as stated above. The Horniman Museum and Gardens is not in a position to undertake hire purchase.
- e. All tenderers are to be familiar with the terms and conditions of the Horniman Museum and Gardens and provide tender returns in line with our terms and conditions. These are provided as Appendix C.
- f.

6. Installation and Lead time

- a. Included in the proposal should be the lead time from the date of order to going live on site.
- b. A detailed programme of works should also be provided to detail install on site, install on site must be completed by the 31st March 2021.