بسم الله الرحمن الرحيم

TERMS OF REFFERENCE

SUPPLY AND INSTALLATION OF CCTV SYSTEM AT MALE' DISTRIBUTION UNIT (MDU),

MALDIVES GAS

MGPL-I/PD/2020/17

Date: 07th October 2020

Contents

OBJECTIVE

Maldive Gas seeks to achieve full surveillance system through supplying and installing of CCTV network with required equipment.

- Cover Key areas in without any blind spot, key areas will be marked in the drawing of site (Drawing attached as an annex to this document)
- The key areas coverage should be able to monitor easily in live feed and prevent intrusion.
- Ability to Provide Evidence as CCTV footage when needed.

SCOPE OF WORK

- Supply and installation of hardware and configuration of new CCTV network at Maldive Gas, Male' Distribution Unit.
- The system should facilitate viewing of live feed and control of system to authorized users.
- All the recording shall be done in 1080px and the system shall be capable of providing minimum 50 days of recording.
- The system should be able to expand in the future without any limitation.
- The contractor may advise for best suited location or the camera besides the drawing provided by Maldive Gas.
- Work must meet the acceptable quality standards
- Basic setup concept will be provided with this document along with specification as an annex to this document
- Contractor may suggests better options to hardware devices, specs and location of CCTV

NETWORKING

a. All the networking works should be done at highest quality, conduit piping must be used where its necessary to avoid damaging to network cables, and other accessories as highest quality networking is recommended.
b. NVR should be installed in a wall mount box in Server room where POE switch will be installed.
c. Based on the drawing if additional power is required the contractor should use necessary devices to boost up the power such as POE extender.
d. UPS should be used to support CCTV system with minimum of running hours of 2 hours based on power consumption as per drawing provided.
e. The system should provide live feed to server room as well as to security room.

f.   All the equipment must be new and up to date for the time of proposal. The bidder shall not bid any equipment which is likely to declare end of sale or end of production in a time period of 1 year from the date of proposal.

ACCESS TO SITE AND COMPLETION DATE

- The contract should not take more than 2 weeks to complete the work (this Includes Delivery, installation and configuration from the date of signing the agreement.)
- The contractor will have full access to site in working hours with supervision from Maldives.

WARRENTY

g.   Contactor must provide minimum 1 year warranty after successful installation.

SAFETY (COVID-19)

h.   HPA guidelines must be followed during the installation work.
   i.   Any worker from contractor should maintain social distancing according to HPA guide line with Maldive Gas staff
i.   If contractor fails to follow HPA guidelines, Maldive Gas has right to take action against contractor including termination of contract.
j.   If any symptoms found from the contractor workers, the contractor shall inform immediately to the Maldive Gas (Supervisor assigned to monitor CCTV Installation by Maldive Gas)

ANNEX 1: SPECIFICATIONS

Camera (Out Door) Specification. (Qty: 26)

- o 6 MP IR Varifocal Bullet Network Camera 2.8-12mm or better
- o Must support MPEG-4 Advanced Simple Profile or H.264 video compression standards or better.
- o IR night vision
- o IR range: Up to 50 m or better
- o Good quality video support

Camera (In Door) Specification (Qty: 13)

- o 5MP Network Dome IP Camera IP67 or better
- o Up to 5 megapixel high resolution
- o Must support MPEG-4 Advanced Simple Profile or H.264 video compression standards or better.
- o IR night vision
- o IR range: Up to 30 m or better
- o Good quality video support

NVR (Qty: 1)

- o Minimum 45 Channel IP camera
- o Must support decoding format H.264, H.264+, H.265, H.265+
- o Minimum 12MP live view
- o Minimum 2 HDMI (Different Source)
- o Morethan 2 HDD should support for continues recoding
- o Recommended for RAID support

ANNEX 2: DRAWING

Male' Distribution Unit (CCTV DRAWING)
Total: 26 Camera