

1. SCOPE OF WORK:

The contractor is to Engineer, Supply, Install, Test and document the new Telephony, optical and data network to the Mission Warehouse at Plot 66/67 Portbell Road, Bugolobi. The existing data infrastructure spans over three neighboring office and warehouse blocks. The network design required as part of this effort will be in compliance with Department of State specific requirements and regulations. The contractor shall perform all work necessary to ultimately make the new computer and telephony network infrastructure completely operational and also provide an estimate period within which to complete this project. If required, a follow-up SOW for additional efforts will be issued.

The scope of work shall include the following tasks and deliverables:

COMPUTER

- Lay a new computer network infrastructure parallel to the existing network (design, structuring and cabling)
- The terminations should be 582A standard
- Labeling of all the drops using a nomenclature that is according to the acceptable standards.
- Preferably use gray cabling and preferably use Panduit products
- Contractor is welcome to review existing infrastructure
- The contractor will provide scaled design drawings and documentation
- Provide four (4) or more network drops depending on room size
- Provide 6U rack units in a few areas.
- The contractor is encouraged to specifically identify any material used that is of high quality
- The contractor will NOT tamper with the existing infrastructure without explicit permission
- Contractor will carry out testing of every network drop to confirm that all are working acceptably.

TELEPHONY

- Lay a new telephone network infrastructure parallel to the existing network (design, structuring and cabling)
- Telephone Cabling should be done using single (solid) strand Cat5 or UTP or higher quality.

- Preferably use blue cabling and preferably use Panduit products
- Use the T-568B Color Code for RJ-45 Plug termination standard
- Provide a telephone drop for every computer drop provided.
- Labeling of all the drops using a nomenclature that is according to the acceptable standards.
- Provide scaled design drawings and all necessary documentation of the network, both in soft and hard copy.
- Provide an MDF block located in a position that will be provided, having a total of 200 pairs of punch down terminals.
- Provide three (3) DF blocks located in positions that will be provided, one with total of 100 pairs of punch down terminals and the rest each, with a total of 25 pair punch down terminals.
- Provide lightening arrestors for two (2) punch down blocks, of 25 pairs each.
- The contractor will NOT tamper with the existing infrastructure without explicit permission
- Contractor will carry out testing of every voice drop to confirm that all are working acceptably.