



EMBASSY OF THE UNITED STATES OF AMERICA

In Windhoek Namibia

**SCOPE OF WORK
FOR THE PURPOSE OF A
CONTRACT**

**TECHNICAL SPECIFICATIONS
For
Water Tanks**

LABOR-MATERIAL REQUIREMENTS TO PERFORM SERVICES

FOREWORD

The Embassy of the United States of America, in Windhoek Namibia is soliciting services of labor, materials and fully comprehensive work to perform the installation of emergency water tanks, pump, and expansion tank.

I. GENERAL

- The contractor shall provide all materials necessary for the fully comprehensive work, unless otherwise specified.
- The provision of skilled labor means Certified/trained laborers with at least three years experience in their particular field, equipped with all hand/electrical tools, etc. necessary to carry out their work.
- The contractor shall be able to operate simultaneously with two teams of laborers and schedule the work with a two-day advance notice
- The contractor shall furnish the following documentation at time of bid.
 - Price breakdown of work per install according to SOW
 - Timeline for work
 - Certifications of skill sets for all foremen/supervisors
 - Contact information for on-site supervisor
 - Copy of insurance policy for civil liability
 - 3 references of previous work (Pictures and contact info)

The above documentation is **mandatory** at time of Bid. Otherwise contractor will be deemed “Unacceptable”.

II. WORK TO BE DONE

- Leveling the ground and installing interlocks for the equipment to sit on.
- Run electricity from the house/building to the pump location. Location will need to be verified at site visit. Electrician performing work shall have at least a journeyman's credentials.
- Installation of emergency water tank will require the moving into place a 2,500/5,000 liter tank and installing a pump to be able to pressurize a tank to provide adequate water pressure to the building. A main bypass will also be required.
- The water line shall have an isolator valve prior to entering the tank. There shall be a float valve that will be able to handle the pressure from the city. On the tank there will be an overflow indicator pipe that will have a check valve to prevent rodents or insects from contaminating the water supply. There shall also be a fill indicator to quickly monitor the level of the water.
- An isolator valve and a check valve shall be placed prior to the pump exiting the tank along with an inline filter to prevent debris and other sediment from entering the pump. The pump shall be a positive displacement pump. There should also be an isolator valve after the pump. A pressure switch shall be installed to be able to regulate the water pressure entering the house/ building. The pump and the pressure switch will need to have electricity. The power requirements are 220V 1 phase. Isolation valves need to be placed according to the schematic, allowing replacement of parts if needed. Install a pressure tank, another name is expansion tank, to allow constant pressure to the building. After the pressure tank the main bypass will rejoin the plumbing that services the building.
- Install an all-weather cover over the pump and expansion tank to protect them from the elements.

MATERIAL TO QUOTE:

Water Tank: 2,500 Liter Tank: N\$_____

Water Tank: 5,000 Liter Tank: N\$_____

Pump and Expansion Tank Package: N\$_____

- Pump: Contractor Provided. Shall be adequate sized for building *specify size in Quote.
- Expansion Tank: Contractor Provided. Shall be adequate sized for building *specify size in Quote.
- Pressure Sensor: Contractor Provided. Shall be adequate sized for building *specify size in Quote.
- Pre pump filter
- All valves shall be ¼ turn ball valves
- All piping shall be non-corrosive due to weather exposure.

Give a Linear Meter Price for pipe work that is outside the normal pump and tank package. (For example if the site only allows to install the tank 10 meters away from the main line than the price for that house would be the normal pump and tank package + 20 meters of piping (10 m for supply and 10 m for the return)

N\$/Meter of pipe work_____

Electrical work: Install cable from the closest outlet and install a weather proof isolator. Give a linear meter price for electrical work **N\$/Meter_____**

Give a linear meter price for electrical work including pavers/cement work if necessary **N\$/Meter_____**

Cover for pump: Contractor Provided N\$_____

After each install provide an invoice per house. Total number of installs/houses is yet to be determined. Current estimation is around 40 homes/tanks.

Site Limitations: Working hour restriction will be Monday – Friday 8:00 – 17:00.

Special hours can be arranged especially when water is taken offline to be able to connect to the new system.

All workers will need to have their names submitted along with their ID #'s to be allowed on premise.

No sleeping on the job. If a worker is caught sleeping on site, the worker will be required to leave the site and a N\$1,000 fine will be issued per occurrence. If during the 1 hour lunch break a worker decides to nap, they must go offsite and not near the front entrance.

Performance period: Provide 2 schedules. Provide a per-house schedule and a 40-home schedule.

Work will be completed by end of performance period or Contractor agrees to pay a N\$1,200 fine for going over the date. If there are any concerns regarding the performance period please raise the concern during the site visit.

Warranty of work: The contractor agrees that

- Materials and equipment used by the contractor and any subcontractor will be new and of good quality unless otherwise required
- The work will be **free from defects for a period of 1 year** and other than those inherent in the work as specified
- Work will conform to the requirements of the contract documents.

Site Conditions: The site will be free of any debris related to the construction services at the end of the project. Cutting or welding on the ground shall not leave any markings of any kind. To prevent marking the ground it is recommended that the cutting or welding be done offsite or have a protective layer for the pavers/ concrete.

III.LABOR

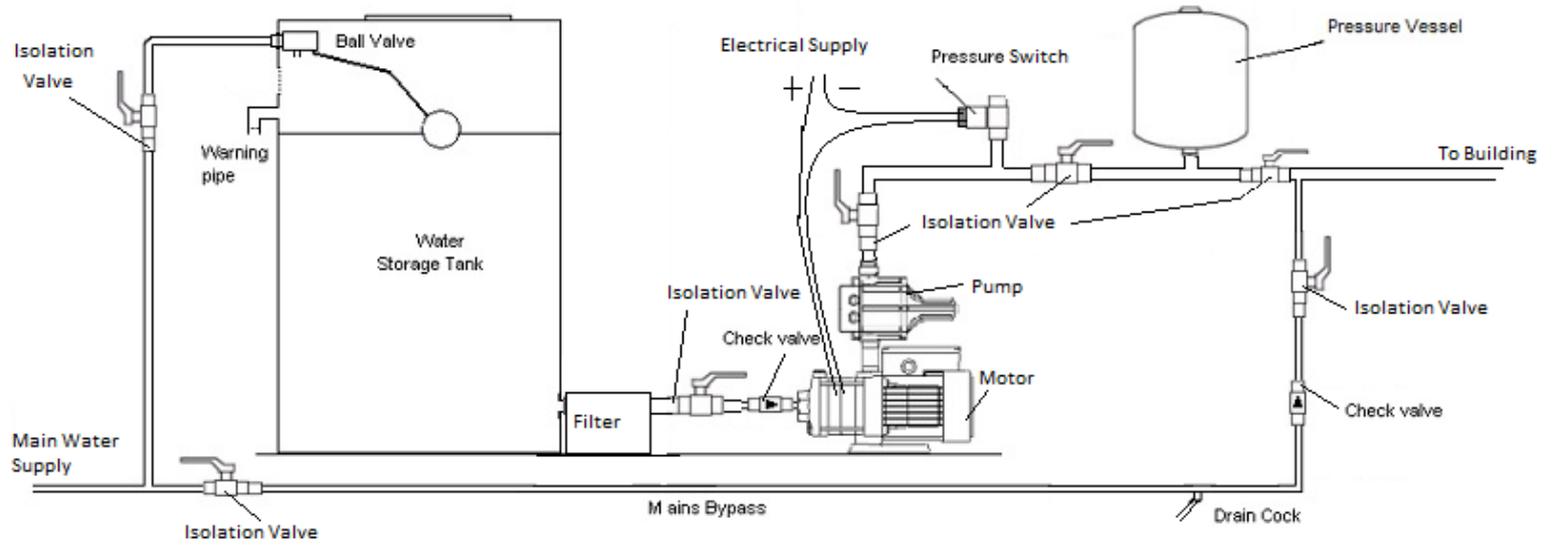
All the work to be carried out at the site, not described in the list of the fully comprehensive work shall be calculated on a time and material basis approved by the COR.

Schedule a walkthrough with the COR at least one week prior to the completion of work for a SUBSTANTIAL COMPLETION walkthrough. At which point the COR and the contractor will agree upon a punch list or items remaining to be completed prior to FINAL COMPLETION. Both parties will agree upon a time frame for the work to be done. At the Final Completion a walkthrough will be done and a certificate will be signed. The one year of warranty will be based upon that date. A retainage of 10% of the contract value will be withheld until the Final Completion Certificate has been issued.

IV. EVALUATION OF OFFERS

Evaluation for awarding the contract shall be based upon economic offer and proven performance verified by references or already quality or work.

Water Tank Schematic:



Embassy of the United States of America



Windhoek, Namibia

Final Completion Certificate

I, (COR) _____ here by award (Contractor) _____
with a Final Completion Certificate for their work at _____.

The work has been deemed complete and satisfactory according to the Scope of
Work. Any and all remaining payments are authorized to be released to the
contractor.

Signature _____ Date _____