



## **Technical Specification**

For the  
Construction of Community Water Kiosks in Greater Monrovia- Liberia

**Nov 2019**

## **1. Background and General Description of the Works**

The intent of this contract is to CONSTRUCT WATER KIOSKS at selected locations in Greater Monrovia as per drawings, specification and contract. The project is executed under Cities Alliance Liberia Country Program, a partnership initiative undertaken by the Government of Liberia and its partners to align urban development efforts at the national, city and community levels. The program aims to:

- Strengthen organization and meaningful participation of slum dwellers and working poor organizations in city governance, inclusive planning and responsive service delivery.
- Improve climate resilient and inclusive urban planning, slum upgrading and incremental housing strategies with investments in the provision of community driven services and affordable housing.
- Enhance the national enabling environment for resilient and inclusive urbanization benefitting economic growth, local governments and the urban poor.

This works under the contract is funded using the Community Upgrading Fund (CUF).

**The primary works required for full closure or completion of the contract include:**

- Complete construction of water kiosks at selected locations, drawings, BoQ and specification.
- Connection water kiosks to the nearest LWSC's water distribution point respectively (min. 4,000ft pipeline), which is to include testing and commissioning (hydraulic pressure & leakage tests, disinfection and cleaning) of the system and construction of chamfer pit for hosting main valve & meter.

Detailed requirements or specifications for the task are provided in the following sections.

## **2. Detailed Scope of Work and Technical Requirements**

### **2.1. General Requirements**

The works will be implemented under a measured priced contract as per BOQ.

Cities Alliance will furnish the full set of construction working drawings including site development plan, architectural, civil/structural, and supervising Owner's Engineer to monitor the overall progress of works, and ensure that standards, specifications and quality workmanship are applied.

The Contractor is responsible for the following tasks:

- Site signage, utility supply for the works and office if required
- Site preparation (Contractor shall Fence off the construction area temporarily to prevent access during construction and after the close of the day).
- Supply of materials and equipment to hand over a finished project as per the drawings and the requirements of the contract and this technical specification.
- Health, Safety, and Environmental compliance.
- Ensure community involvement and cordial coordination with beneficial communities.

The work is taken together as a whole and any item required to interface or is implied by the separate items of work as listed shall be supplied by the Contractor to deliver a complete and functional facility.

Cities Alliance in compliance with the Labor Laws of Liberia will not allow any worker on the site who is below 18 -years old. The Contractor must ensure that all workers hired for the project are above this age.

The Contractor shall demonstrate evidence of consideration of employing some of the workers within beneficiary communities for the works and shall maintain record of such and report to Cities Alliance engineer on local community involvement in the construction works.

***2.1.1. Preliminaries, etc.***

*Pre-Construction Works:* The Contractor and Cities Alliance shall carry out a joint condition-in survey using video or digital photographs to record the condition of the site upon handover to the Contractor. This will determine the state of the site that the Contractor must hand back upon completion of the works. The Contractor shall carry out a detailed site set out survey for the works and submit the following; Work Method Statement; Program; Schedule of Materials; Installed Equipment to City Alliance within 2 days of site handover. This will be reviewed at the Pre-Construction Meeting with the Contractor. The Contractor will be issued with the Notice to Proceed. If the documentation is incomplete, the Contractor will have two (2) calendar days to revise and resubmit the documentation for approval. The contract period begins on the day the Notice to Proceed is issued. The Contractor must mobilize on the project site within two (2) calendar days of the date of issue of the Notice to Proceed.

*Site Restrictions:* The Contractor shall comply with any restrictions on site area, access or working times as advised by the Cities Alliance's engineer. Access to and within the site, use of the site for temporary works and constructional plant, including working and storage areas, location of offices, workshops, sheds, roads and parking, shall be restricted to the areas as agreed with Cities Alliance's engineer.

*Occupied areas of site or buildings:* For the parts of the site designated as occupied areas, the Contractor shall allow occupants to continue using the area for the required period; make available safe access for occupants; arrange work to minimize nuisance to occupants and ensure their safety; and protect occupants against weather, dust, dirt, water or other nuisance, by such means as temporary screens.

*Protection of persons and property:* The Contractor shall provide and maintain required barricades, guards, fencing, shoring, temporary roadways, footpaths, signs, lighting and traffic flagging at all times during the construction period. The Contractor shall not obstruct or damage roadways and footpaths, drains and watercourses and other existing services in use on or adjacent to the site. The Contractor shall identify the location of such services and if damage occurs, shall immediately repair it at the Contractors cost. The Contractor shall not damage property, which is to remain on or adjacent to the site, including adjoining property encroaching onto the site. If damage occurs, the Contractor shall immediately repair it at his own cost.

*Existing services:* The Contractor shall attend to existing services in the working areas if the service is to be continued, repaired, divert or relocate as required and if the service is to be abandoned, cut and seal or disconnect, and make safe. Submit proposals to Cities Alliance's engineer for action for existing services before starting this work.

*Adjoining property:* For properties which are adjoining to the sites, the Contractor shall inspect the properties with the Employer's Representative and owners and occupants of the properties; make detailed records of conditions existing within the properties, especially structural defects and other damage or defacement; arrange for at least 2 copies of each record, including drawings, written descriptions, and photographs, to be endorsed by the owners and occupants, or their representative , as evidence of conditions existing before commencement of work; submit one

endorsed copy of each record to the Employer's Representative. The Contractor shall keep the other endorsed copy for its own record.

***Project signboard:*** The Contractor shall provide, erect and maintain a signboard at the main entrances to the Site and where instructed by the Employer's Representative. There will be no separate payment for this temporary project signboard. The boards, with suitable inscription, shall include the name of the Project, the name of the Employer, the name of the Donor, the name of the Client and the name of the Contractor, etc. Cities Alliance's engineer shall approve the board, its layout, colors and dimensions before erection. The signboard shall be erected not later than 7 days prior to the date of the commencement of the Permanent Works. The Contractor shall remove the signboard at the end of the Defects Liability Period.

***Post construction Works:*** The Contractor shall provide to the Employer's Representative the following documentation after all site construction has been completed: Warranty Statement, Material Test Certificates, As-Built Drawings. Defects inspection survey shall be conducted during defects liability period by the Contractor and Cities Alliance's engineer at which defects will be identified. Cities Alliance's engineer will determine if the Contractor is to make repairs or if the damage will be deducted from the Contractor's final invoice.

Within 5 working days after practical completion, the contractor shall remove temporary works and construction plant that are no longer required.

#### ***2.1.2. Required Permits***

The Contractor is responsible to obtain information from the regulatory Ministries and Agencies in Liberia for all and any other required permits not listed below. A copy of the required permits shall be submitted to the Owner's Engineer and kept on site prior to commencing works where required.

- *Site permit and zoning*, shall be obtained by the Contractor from the Ministry of Public Works prior to commencing construction activities.
- *Electrical permit and plans* (if required by the relevant authority). It is the Contractor's responsibility to obtain said permit.
- *Environmental Protection Agency (EPA) and health department approval, well and septic connections*, shall be obtained by the Contractor.

The Contractor is responsible to check with the relevant agencies to obtain information on the required plans, procedures and permits to point construction, if any.

#### ***2.1.3. Standard References***

- The Contractor shall follow and apply the standards and specifications as listed in the working drawings, general project notes and the technical specifications; any need for further clarification shall be addressed to the Cities Alliance Engineer.
- The materials and equipment provided shall be new, good quality and of known origin. Cities Alliance must inspect all inputs to project. The Cities Alliance Country manager in consultation with the assigned Project Manager, may reject any item that does not meet standards and specifications, including Cities Alliance's Health, Safety, Environmental and quality procedures, MoH and EPA standard for water facility construction.
- The Contractor will maintain a safe and clean site during all phases of construction, and maintained records of materials, labor, and progress.
- All accumulated trash must be kept in bins at the site, and must be removed at regular intervals.

- The Contractor will be responsible for security of materials and equipment at site throughout the construction phases.
- The Contractor shall warrant all materials and equipment and workmanship to be free of defects under normal service and use for a period of 6 months after acceptance of substantial completion of works.

#### ***2.1.4. Safety and Protective Equipment***

The Contractor shall be responsible for the personal safety requirements of its personnel that includes but is not limited to the provision of the following minimum requirements.

- Safety helmets (hard hats)
- Close-toed footwear
- Safety glasses (goggles) when performing tasks requiring eye and face protection
- Work-gloves
- Respiratory protection (dust mask) when executing tasks which create dust and/or other hazardous substances to breathing
- Protection of excavation, site warnings and provide secure working environment for tools, plants, equipment and works

### ***2.2. Site Improvement Works Requirements***

The Contractor in accordance with approved lot grading plans, and all applicable codes adopted and enforced by relevant agency, if any, shall implement all site/grading, erosion, and sediment control mechanism.

#### ***2.2.1. Clearing and Grubbing***

All vegetation and debris within the limits of construction (except as designated to remain) shall be cleared, grubbed, removed, and disposed of. All vegetation and objects to remain shall be protected in keeping with the Liberian EPA Laws.

All construction debris may be placed in containers and removed from site. The dump requirements as with “hazardous” debris shall be determined by the Contractor in accordance with the EPA standards.

The contractor shall provide all materials necessary for the profiling/layout of the building before the commencement of excavation. Excavation shall be carried out according to the drawings or as directed by Cities Alliance Engineer on site.

### ***2.3. Architectural Requirements***

- Contractor shall construct/install the following as per drawings and schedules; windows, fittings, finishing as per schedule, color scheme as specified by Owner’s Engineer, flooring patterns, and walls as with specified plans, doors, ironmongery, and joinery.
- Follow detailed working drawings to include schematic diagrams, plan, elevation, cross sections, etc. to accomplish the construction works.
- All door and window shall have R.C lintel beam on top of them.
- All tile works shall be carried out in a professional and good workmanship manner and in accordance with technical scope and drawings.
- Internal wall surfaces of building shall be finished with mortar plastering and paint finishes unless otherwise specified.

- Extruded tiles shall be in plain colors and produced with key back profiling complying with the specification or equivalent as with acid and alkali resistant, average water absorption of at most 1.5, and scratch resistant. Tiles shall be suitable for heavy-duty purposes as recommended by the manufacturer for similar building types.

#### **2.3.1. Doors & Windows**

- All doors shall be Hygienic Doors for the building.
  - Bacteria Resistant
  - Water Resistant
  - Fire Resistant
  - Impact Resistant
  - Rust resistant
- All doors and windows shall be of the dimension and sizes shown on the drawings, rough openings are openings in walls. Contractor must allow for plastering and tiling when ordering metal.
- Windows shall be supplied complete with all relevant hardware.
- Fabrication and erection shall be carried out as specified.
- Sealant works shall be carried out as specified in accordance with drawings.
- Hardware & ironmongery shall be installed as specified on drawings

#### **2.3.2. Painting**

All coats of paint on any one item or surface shall be of the same type and manufacturer and shall be applied as recommended by the manufacturer. Cities Alliance shall determine color. Latex Weather Coat Texture paint, made of a special grade acrylic based emulsion to provide defense against the weather conditions of Liberia shall be used.

- The Contractor shall complete painting of the facilities hereinafter scheduled, including, but not limited to exterior walls, exterior ceilings, columns and beams, side surfaces of stairs and concrete platform, doors and door trim, windows and window trim, and miscellaneous trim.
- The Contractor shall complete painting of all exterior wood or ferrous metal where required.
- All surfaces specified to be painted shall be dry and cleaned free of all dirt, grit, grease, mold, mildew, foreign substances and all loose, blistering, and chalking.
- All surfaces exhibiting water stains shall be sealed with a solvent based, alcohol soluble sealer by the Contractor.
- Each coat of paint shall be evenly worked out and allowed to dry according to the manufacturer's recommendations before subsequent coats are applied. Each coat of primer and paint shall be a different tint from that of the preceding coat.
- The finished work shall be free from runs, sags, defective brushing or stippling, and clogging of lines and angles of the trim.

#### **2.3.3. Roofing**

- Contractor to supply all labor, materials, supervision and equipment for the roofing application as per in the drawings.
- The Contractor shall install roof in accordance with manufacturer's recommended specifications.

- All work shall be in accordance with the requirements, direction and specifications of building envelope. It is the Contractor's responsibility to familiarize himself with the specifications and requirements of the roofing product.
- The Contractor shall supply and install all required metal or wood flashings to all perimeter edges, up-stands, and all other roof locations as may be required.
- The Contractor shall load all material onto roofs in such a pattern that will ensure uniform distribution of weight on the roof framing as required per the drawings.
- Install new pressure treated 1"x 8" fascia boards around the perimeter of the roof overhang.
- Prime and paint newly installed rafters, purlins, fascia board and all exposed cut areas. All wood/timber shall be season dry.
- The Contractor shall install at any time, excerpt otherwise indicated a 28 Gauge Alu Alloy corrugated or Onduline roofing sheets over roof as per the manufacturer's guide.

#### **2.3.4. Flooring**

- Throughout the interior of the building and top surfaces of stairs and concrete platform, the Contractor shall install new non-slip porcelain ceramic tiles. Color will be determined by Cities Alliance.
- Prepare floors for tiling so the finish floor will be either perfectly level or slope properly to drains.
- Floor drain shall be installed by the Contractor through floor where designated by the design.

#### **2.3.5. Wall Finishing**

- Apply paint and related material with an undercoat plus two coats of selected finish color or with the number of coats specified in accordance with the manufacturer's recommendations.
- Allow each coat to harden for the drying time (or time between coats) recommended by the manufacturer.
- Finish - Ensure each coat of paint is uniform in color, gloss, thickness and texture and free of runs, sags, blisters, or other discontinuities.
- Use only premium quality lines from approved manufacturers. Use only unadulterated paint except as per manufacturer directions. Do not combine paints from different manufacturers. On clear timber, finishes use only combinations of putty, stain and sealer recommended by the Manufacturer of the topcoats. Use only the type and quantity of thinners recommended by the paint manufacturer.
- All painted surfaces are to present a clean and even appearance with no evidence of poor workmanship. Finished paint surfaces shall be free from sags, wrinkles, drips and other defects or imperfections.
- Do not paint over dirt, dust, scale, grease, moisture or conditions detrimental to the formation of a durable and acceptable finish.

#### **2.4. Structural Requirements**

- The work under this section shall include all materials, labor and equipment necessary to achieve a finished product, including but not limited to the items in the structural general note and those shown on the working drawings. Work includes, but is not limited to building footings, floor slabs, block walls, concrete platform, foundation layout, concrete beams and columns, etc.

- All procedures and materials under this section, where not specifically stated on drawing or specification shall be in accordance with standards and recommendations Code Requirements to **ACI 301-10 "Specification of Structural Concrete"**, **ACI 318-14 "Building Code Requirements for Structural Concrete"**.
- Building framing shall be in accordance with grids as shown on construction drawings.

#### **2.4.1. Concrete Works**

- Concrete shall have a 28-day test age compressive strength of not less than 3000psi (20MPa), using mix ratio of 1:2:3 and maximum water-cement ratio of 0.5. Unless otherwise stated on the drawing. Mix design requirements are as follows:
  - W/C Ratio: Water-cementitious ratios shall be based on the total weight of the cementitious materials. Maximum ratios are controlled by strength noted above and durability requirements given in ACI 301 Section 4.3.
  - Aggregates shall conform to ASTM C33.
  - Slump: Conform to ACI 301 Section 4.2.2.2. Slump shall determine at point of placement.
  - Shrinkage Limit: Concrete used in elevated slab and beams shall have a shrinkage limit of 0.035% at 20 days measured in accordance with ASTM C157.
- All concrete sampling and testing shall be performed in accordance with ACI 301-10.
- Concrete testing shall be conducted for main structure concrete elements: Foundation, beams, columns, slabs. The Contractor shall provide the apparatus and true slumps when requested by Cities Alliance for verification. In order to determine the workability of concrete, a slump test shall be performed as directed by the Owner's Engineer.
- All concrete shall be consolidated by vibratory compaction tool of appropriate size and shape.
- Concrete which has become stiff or has been contaminated with foreign materials and which has not been placed in half an hour of mixing water with cement shall be rejected and disposed of as directed by the Owner's Engineer.
- Adequate curing is vital to quality concrete. In all applications, care needs to be taken to properly cure concrete, and achieve best strength and hardness. The curing of concrete shall be done in accordance with ACI 308R-01 Guide for Curing of concrete. The concrete must be kept moist for minimum 7 days to maximum 21 days depending on the ambient temperatures. The concrete must be kept moist using wetted burlap for at least 72 hours.
- All equipment used for mixing concrete shall be maintained in clean condition after every use of concrete placement.

#### **Concrete Aggregates**

- Cement - Unless otherwise specified on drawing, cement shall be ordinary Portland cement. The Contractor shall be responsible for payment and transport of cement to the site from any authorized source. The Contractor is responsible for cement storage in dry and secure location within the project site. Damaged or partly set cement will not be allowed to be used and must be removed from the site.
- All fine and coarse aggregates proposed for use in the project shall be approved by the Owner's Engineer prior to any use. As defined in ASTM C33, which refers to proportions of aggregates, concrete is stronger and more structurally effective when all particles in the mix are well graded in size.



- The coarse aggregate (gravel) should be rough and clean with broken faces; rounded particles will not adhere well in the mixture and must be avoided. Dirt and organics in the mix will also decrease strength, and any aggregate containing soil must be washed until clean.
- Maximum gravel size is 1 inch. Maximum aggregate size must be less than: 0.2 times narrowest dimension between form walls, 0.33 times the depth of slab, and 0.75 times the distance from rebar to the exposed surface.
- Sand size should also be graded. It shall be clean and free from impurities. If sand is collected from the beach, it must be washed with fresh water. River sand is preferred but it must be checked for any soil, silt content.
- The water use for concrete (or for mortar or grout) must be clean, and of good for human consumption quality if possible. Dirty or salty water should not be used in a concrete or mortar mix. In addition, no water from swamps or ponds must be used as it may contain organic matter. Water found satisfactory for mixing is also suitable for curing concrete; however, water used for curing shall not produce any objectionable stain or unsightly deposit on the concrete surface. The presence of tannic acid or Iron compounds is objectionable. The Contractor shall make arrangements for and provide all the water necessary for concrete, mortar, curing or any other purpose on the work.

#### **2.4.2. Formworks**

- Formwork shall be of timber, plywood, or metal. Before the concrete is actually placed in position, formwork work shall be inspected for safety, conform to the shapes, lines and dimensions as shown on the drawings. Formwork shall be strong enough to withstand concrete vibration. The timber used as formwork shall be well seasoned and free from sap (wood fluid), worm's holes, warps or other surface defects and interior surfaces cleaned and oiled.
- The Contractor shall record on a register the date upon which the concrete is placed in each part of the work and the date on which the shuttering is removed. Formwork should be left in place for at least 72 hours. Contractor shall consult the Owner's Engineer on reasonable time for striking of formwork.

#### **2.4.3. Admixture**

If the need arises to use Calcium Chloride, such as in mass concrete works, it shall be dissolved in water and added to the mixing water in an amount not to exceed 1.5 percent of the weight of cement in each batch of concrete. Admixture shall be used in accordance with the manufacturer's instructions and in control with the Engineer.

#### **2.4.4. Steel reinforcement**

- Materials for steel reinforcement shall conform to:
  - Reinforcing Bars.....ASTM A615, Grade 40, deformed bars
  - Bar Supports.....CRSI MSP-09, Chapter 3 "Bar Supports"
- All reinforcing steels shall be embedded in concrete and with specified size installed appropriately as per drawings. Reinforcement in beams, slabs and columns to be adequate for the proper confinement of concrete.
- Ribbed reinforcing steel (rebar) shall be of good quality and have the approval of the Engineer prior to use, installed to size, bend and detailed specified in the drawings. The Contractor must take measures for safe storage of rebar for prevention of corrosion. All rebar shall be clean, free from grease, oil, paint, or any other material that will destroy or reduce the bond.

- Installation of rebar must be strong and solid and must be approved by the Owner's Engineer before pouring concrete.
- Cast-in-place concrete cover: Conform to the following cover and corrosion protection requirements unless otherwise in the drawings:

	Minimum Cover
Footing Bottom Reinforcing	3"
Footing Top Reinforcing	2"
L1 & L2 Slab Top Reinforcing	1"
L1 & L2 Slab Bottom Reinforcing	0.75"
L3 Slab Top Reinforcing	1"
L3 Slab Bottom Reinforcing	1"
Columns & Beams	1.5" to ties

- Standard hooks: Conform to ACI 318-14, Section 25.3. Refer to Table 25.3.1 "Standard hook geometry for development of deformed bars in tension", and Table 25.3.2 "Minimum inside bend diameters and standard hook geometry for stirrups, ties, and hoops" for those specific elements. Standard hooks indicated on individual sheets shall control over the schedule.
- Lap Splices: Conform to ACI 301, Section 3.3.2.7, "Splices" or ACI 318-14 Section 25.5. Refer to "Typical Lap Splice and Length Schedule" for typical reinforcement splices. Refer to "Column Vertical Reinforcing Splice Schedule" for those specific elements. Splices indicated on individual sheets shall control over the schedule.

#### **2.4.5. Masonry Works**

- All masonry works shall be in compliance with drawings and in relation to sizes and shapes.
- All block wall shall be sandcrete hollow masonry and fully grouted to comply with ASTM C476 where specified, and shall be inspected on site by the Owner's Engineer before installation.

### **2.5. Mechanical – Hydraulic Services Requirements**

The Contractor shall provide all labor, materials, equipment and site supervision to complete the plumbing installations as shown and specified, including but not limited to the following technical specification sections provided by the architectural blueprints.

- All pipes shall be uPVC pipes type
- All pipes to be used shall be not less than schedule 40 including bends, elbows, sockets.
- All water faucet shall have maximum flow rate of 2.2gpm at a flowing pressure of 60 psi
- Individual control valves will be provided to control each group of fixtures as required.
- Plumbing shall comply with all LWSC guidelines and the International Plumbing Code
- This work shall include PVC drainage lines where applicable. Water lines and hookups for all fixtures and appliances as required per specifications on architectural blueprints. Furnish and/or install fixtures, trim and hookups to include but not limited to the specifications as provided by the architectural blueprints.

The Contractor shall ensure that each kiosk's water line is connected to the nearest LWSC water distribution point for adequate supply under the direction and supervision of the LWSC.

The Contractor shall supply all necessary appliances and labor for testing of the complete water supply system at such time and as directed by the Cities Alliance's engineer. Such testing shall require, as a minimum, the pressurizing of the complete water supply system to a pressure of not less than 4.5bar. The pipe work and fittings shall retain this pressure for a minimum of 1 hour following the commencement of the test.

## ***2.6. Electrical Requirements***

The Water Kiosk lighting (total light needs 60watts) shall be powered by renewable energy off grid solar panel system. The Contractor shall supply and install "Lighting Global certified pico-solar home system (<100W)", which has the following: minimum three (3) - Lighting points, Mobile phone charging, solar fan. The system shall be permanently mounted to the roof the structure.



**Figure 1** Pico-solar home system

The Contractor will submit the pico-solar home system for approval by the Cities Alliance engineer before installation. The Contractor shall supply all necessary appliances and labor for testing of the pico-solar home system after installation.

## ***2.7. Modification of Design and Works***

The Cities Alliance may issue to the Contractor, if necessary, a change order for substitution or modification or cancellation of materials or works in the design of the project and/or the drawings of the project. The Contractor shall be informed and guided accordingly verbally and in written form. The Contractor shall notify in case of any required adjustments in terms of payments in advance to Cities Alliance and the Contractor agreed in writing. The Contractor must ensure that any change of works is acknowledged and documented in writing as per the contract terms.

## ***2.8. Payments and Submission Procedure***

- Cities Alliance UNOPS contract is based on a delivery. Therefore, contractor payment is based on net actual quantities of approved works delivered satisfactorily to quality as certified by Cities Alliance engineer. All payment is based on unit price as per the BoQ. No advance payments are to be made to Contractor.
- Cities Alliance Supervising Engineer check and validate the achievement of the works and signed off a validation form, attached to Contractor's request for payment.

## **3. Price Schedule**

The Contractor is required to price all obligation herein required for completion of the technical specification, drawings and whole of the contract in the pricing of the overall works in the BOQ. The Tendered Rates and the Tender Price shall include all obligations of the Contractor that are described or that can be reasonably inferred for the Tender. The Price Schedule is not intended to be an exhaustive list of items to complete the Works. The Contractor should assess the facility to

confirm quantities of the same. For any of the Works that are not itemized, it shall be assumed that such Works are included in the Contractor's overall Price.

The Contractor shall enter unit price against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of Items against which the Contractor has failed to input a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.

Attached: BOQ *\_PRICE SCHEDULE FOR THE CONSTRUCTION OF WATER KIOSKS*

#### **4. Drawings**

A complete list of the Drawings should be set out here and are referenced by drawing number, title, date and revision number, of which the latest of each prevails and the Drawings attached. Attached drawings: *CONSTRUCTION DRAWINGS FOR CONSTRUCTION OF WATER KIOSKS*