

Global Water Partnership – Mediterranean (GWP – Med)
Legally and lawfully represented by the civil non-profit society
MEDITERRANEAN INFORMATION OFFICE FOR ENVIRONMENT, CULTURE
AND SUSTAINABLE DEVELOPMENT – MIO ECSDE

CALL FOR QUOTATIONS
for the supply and installation of equipment ICW for the water reservoir located
at the Ministry for Gozo, Gozo, Malta

Global Water Partnership – Mediterranean (GWP – Med), as legally and lawfully represented by the civil non-profit society “MEDITERRANEAN INFORMATION OFFICE FOR ENVIRONMENT, CULTURE AND SUSTAINABLE DEVELOPMENT – MIO-ECSDE” intends to process a call for quotations for **“The supply and installation of equipment ICW for the water reservoir located at the Ministry for Gozo”** within the framework of the *Non Conventional Water Resources Programme in Malta* (a.k.a. *Alter Aqua*).

Project budget amounts to the maximum sum of twelve thousand five hundred Euros (€12,500.00), exclusive of VAT (VAT not applicable for intra-EU transactions). The Project is funded by the Coca-Cola Foundation.

Completion date of the works is the **20th of December 2014**.

Procurement procedure

The procurement will proceed having regard to:

1. General principles of EU law on public procurements.
2. Internal Rules and Regulations of MIO-ECSDE.
3. The Memorandum of Understanding, dated 23.10.2014, among the Ministry for Gozo, the Ministry for Energy and Health, the Global Water Partnership Mediterranean and the Coca-Cola System in Malta.
4. The present call for quotations
5. The laws of Malta regarding the execution of the works under procurement.

Awarding criterion

The awarding criterion of the tender is the lowest bidding price.

PLACE & TIME OF OFFERS SUBMISSION

Interested Parties shall submit their offers on their own responsibility, either in person or through a specially authorized representative, or by sending it by registered prepaid post with delivery receipt, at the premises of MIO-ECSDE, address: 12 Kyrristou str, 10556 Athens, Greece (Tel: +30-2103247267, -3247490) on the condition that offers shall reach MIO-ECSDE's premises by **Monday 24/11/2014 at 15:00 (CET+1)**.

Offers submitted after the specified date and time or bids that have been duly posted but have not reached the designated place in good time, shall not be taken into consideration and shall be returned as inadmissible, without being unsealed.

Inquiries on the call for quotations terms: Ms Konstantina Toli

Contact tel: +30-210-3247267, -2103247490

e-mail: secretariat@gwpmed.org

The present call for quotations will be posted on the website of GWP-Med(www.gwpmed.org), as well.

Athens, 11/11/2014

Prof. Michael J. Scoullou

Chairman GWP-Med

Chairman MIO-ECSDE

ANNEX 1

INSTRUCTIONS TO BIDDERS

Bidders shall:

1. Fill in the Details of Bidder Form and sign the declaration included therein.
2. Submit a certificate from the competent authority or a solemn declaration stating that the bidder is not bankrupt or subject of proceeding for a declaration of bankruptcy, that s/he is in good standing, operate under no legal restrictions, is not under any liquidation procedure or the subject of proceedings for declaration of liquidation or any analogous situation.
3. Provide evidence attesting to:
 - relevant experience in execution of works of a similar nature (supply and installation of equipment ICW for the reservoir) over the past 3 years, including the nature and value of the relevant contracts, as well as works in hand and contractually committed. The minimum value of projects of a similar nature completed shall be not less than [€50,000] over the 3 year period.

The minimum number of projects of a similar scope/nature completed in the last 3 years must be at least 4 in number. Bidders are also requested to submit letters of recommendation from at least 3 distinct projects as well as 2 photographs of each of the 4 completed projects.

In so listing the end clients, the tenderer is giving his consent to the Evaluation Committee, so that the latter may, if it deems necessary, contact the relevant clients, with a view to obtain from them an opinion on the works provided to them, by the tenderer.

4. Submit literature relating to pumps, control panel and other equipment to be used (form in Annex 7)
5. Submit their bid, in a single sealed envelope, by **Monday 24/11/2014 at 15:00 (CET+1)** at the:

MIO-ECSDE
12 Kyrristou str,
10556 Athens,
Greece

6. Execute the works subject of this quotation in accordance with the schedule of quantities and any specifications contained therein, in accordance with the best practices of the trade, to the satisfaction of the contracting authority and in conformity to the laws of Malta regarding public works.
7. The bidder shall complete all works within three weeks from the order to start works.
8. Be bound by the Special Conditions and the General Conditions which are deemed to form an integral part of this quotation document.
9. Submit any queries to email address: secretariat@gwpmc.org by not later than 4 working days prior to the closing date for the submission of the quotation.

Bidders are hereby informed that:

10. Quoted rate is a lump sum for all items described in this call.
11. Where the General Conditions are in contrast with the Special Conditions, the latter shall take precedence over the former.
12. The contracting authority reserves the right to reject any quotation.
13. Quotations shall be valid for a period of six months.
14. The quotation shall be awarded to the cheapest technically compliant quotation.
15. In submitting this quotation, the bidder is declaring that all employees engaged on this contract shall enjoy working conditions such as wages, salaries, vacation and sick leave, maternity and parental leave as provided for in the relative Employment Legislation. Furthermore, s/he shall comply with Chapter 424 of the Laws of Malta (Occupational Health and Safety Authority Act) as well as any other national legislation, regulations, standards and/or codes of practice or any amendment thereto in effect during the execution of the contract.

The bidder is further declaring that s/he accepts without reserve that, in the event that it is proved otherwise during the execution of the contract, the contract shall be terminated with immediate effect and s/he shall raise no claims for damages or compensation.

ANNEX 2

SPECIAL CONDITIONS

1. The successful bidder shall submit a performance guarantee which shall be for the amount of 10% of the contract value.
2. The performance period for works will be no more than 6 weeks from the issue of the Letter of Acceptance.
3. The Contractor shall be liable to a deduction of €200 per day, for every day of delay, including Sundays and public holidays, up to a maximum of 15% of the contracted amount.
4. The contractor shall provide free maintenance on the works carried out on this contract for a period of one year. As a safeguard for this provision, half of the performance guarantee shall be retained for an additional period of 12 months from the final certification of works.

GENERAL CONDITIONS

It is hereby construed that the bidders have read and accepted in full and without reservation the conditions outlined in the MODEL CONTRACT, and are therefore waiving any standard terms and conditions which they may have.

The MODEL CONTRACT can be viewed/ downloaded from:

www.gwpmed.org

ANNEX 3

FORMS

DETAILS OF BIDDER

Name & Surname: _____

On behalf of
(if applicable): _____

Address: _____

VAT Reg. No. _____

Tel. No: _____

Mobile No: _____

Email Address: _____

Bid value, as lump sum (excluding VAT): _____

Date and
Signature and Stamp:

ANNEX 4

TECHNICAL SPECIFICATIONS

1. MECHANICAL EQUIPMENT WARRANTY PERIOD

A guarantee on all equipment is to be offered for a minimum period of 24 months against faulty workmanship and materials and on the operation of the system as a whole. If during this period any parts or equipment have to be changed, the guarantee on that part is to be renewed for another year from date of replacement. The prospective tenderer shall also guarantee the supply of spares up to the next ten years following the award of the contract.

Earthworks and Civil Works

All earthworks are to be done as per specifications listed in the BOQ at Annex 5. It is imperative that after execution of works site is restored to original condition. For section AB provision in submitted rates must be made to work in confined spaces.

2. PIPES LAYOUT (Refer to Diagram 1 - Layout Plan)

Section AB:

Pipes in section AB shall connect the main courtyard to the buffer tank through two 110mm PVC pipes feeding into the buffer tank by gravity. These pipes will run through existing narrow tunnel and lead to buffer tank under existing pavement/road.

Section BC-CD:

The contractor shall supply and connect a 63mm diameter HDPE PN10 pipe from the submersible pump in the vertical buffer tank leading to the reservoir. Such pipework is to be trenched and/or laid in existing pavement and road and may require going around existing services.

Section DE:

This is the part of the 63mm HDPE PN10 pipe leading from main parking into the reservoir.

3. MECHANICAL AND ELECTRICAL WORKS

PUMPS' CONTROL PANEL

- The buffer tank pump shall be complete with all required switchgears and have its own control panel enclosed in a weatherproof PVC enclosure to IP65. The location of the control panel will be provided by the contracting authority within a radius of 20m from the buffer tank. The panel shall include at least the following:
 - Run/Trip Indicator,
 - Float Switch Connection
 - Dry running protection;
 - High temperature protection;
 - Overload protection;

All electrical specification for pump controls shall couple with the latest edition of the I.E.E. regulations.

- The bowser tank pump shall be complete with all required switchgears and have its own control panel enclosed in a weatherproof enclosure to IP65. Control panel shall be lockable and two keys must be supplied to the contracting authority. The panel shall include at least the following:
 - Soft Start
 - Run/Trip Indicator,
 - Float Switch Connection
 - Dry running protection;
 - High temperature protection;
 - Overload protection;

- Pressure switch sized to system with running lamp indicator, tripped lamp indicator and reset switch

All electrical specification for pump controls shall couple with the latest edition of the I.E.E. regulations.

The contractor shall supply and install a wall mounted cabinet near the reservoir, in which he shall install and connect the control panel, etc.

The contractor shall also be responsible to connect the main distribution board to the control panel using a 4 sq mm five core armored cable clipped to wall as per BOQ.

4. BUFFER TANK WATER PUMP

The pump shall be of the submersible type suitable for pumping water and seepage which may have small amounts of sand particles with it. It shall be capable of delivering 17cu.m./hr at a pressure of 1 bar. The pump shall have a free passageway of at least 30mm. The pump's main components shall be in AISI 304 (DIN 1,430 1) stainless steel.

The pump casing, outer sleeve, lower cover and screws and tie-rods shall be in AISI 304 stainless steel.

Pump impeller/s shall be made of synthetic material or cast iron suitable for the pumping of water.

The pump shaft shall be in AISI 416 (DIN 1, 4005) stainless steel.

Bearings shall be heavy duty type, sealed and lubricated for life.

All other pump parts shall be made from material compatible with pump basic materials and suitable for the liquid being pumped.

Pump castings shall be clean and without defect.

The pump shall be equipped with the following:

- An inlet strainer to prevent larger particles from entering the pump.
- A reliable non-return valve. This shall have a very short closing time to reduce any water hammer effect to a minimum.
- Pre-assembled float switch for automatic operation.

The pump motor shall be of the induction type matched to pump output.

Insulation shall be to class B

Enclosure shall be to IP68, suitable for continuous immersion.

Motor shall be suitable for operation on 400V 50Hz, 3-phase supply.

Built-in Capacitor

Thermal overload protection to stop pump supply in case of overheating.

Pump shall be equipped/supplied with at least 20m of cable.

The contractor shall supply and install such a pump vertically in the buffer tank to be supplied and installed as part of the works and as shown in diagrams attached to this tender. The contractor shall also supply and connect the required pipe work to the reservoir and electrical supply from the pump to the control panel.

5. BOWSER WATER PUMP

The pump shall be of the submersible type suitable for pumping water and seepage which may have small amounts of sand particles with it. The pump shall be pressure switch operated and shall be capable of delivering at least 60cu.m/hr at a pressure of 1 bar. The pump shall have a free passageway of at least 30mm. The pump's main components shall be in AISI 304 (DIN 1,430 1) stainless steel.

The pump casing, outer sleeve, lower cover and screws and tie-rods shall be in AISI 304 stainless steel.

Pump impeller/s shall be made of synthetic material or cast iron suitable for the pumping of water.

The pump shaft shall be in AISI 416 (DIN 1, 4005) stainless steel.

Bearings shall be heavy duty type, sealed and lubricated for life.

All other pump parts shall be made from material compatible with pump basic materials and suitable for the liquid being pumped.

Pump castings shall be clean and without defect.

The pump shall be equipped with the following:

- An inlet strainer to prevent larger particles from entering the pump.
- A reliable non-return valve. This shall have a very short closing time to reduce any water hammer effect to a minimum.
- Pre-assembled float switch for automatic operation.
- Pressure switch for automatic operation
- Heavy duty water volume meter shall be made of brass or polyester coated cast iron or other heavy duty material and fitted directly with polyethylene pipe PN6 65mm internal diameter or greater. Meter shall have a tungsten carbide or other material resistant to abrasive media in water, impeller shaft reading units in liters or meters cubed. Meter shall include a strainer and shall be tamper resistant and have good low flow accuracy. Meter display/registers shall be fog resistant. Meter shall be flange fitted as per manufacturer's recommendations and best practice. Meter should cater for a flow rate of 100 cu m per hour and have an accuracy of 2% or better in the range of 10 to 70cu m/hr and an accuracy of 5% or better in the range up to 100cu m/hr. Manufacturer's recommendations for installation have to be observed.
- Brass or other heavy duty material PN10 ball valve suitable for outdoor use with padlock\tamper proof mechanism. The scope of this mechanism is that only the bowser operator will have access to the water in the reservoir. A retrofitted tamper free mechanism is acceptable given prior approval is granted by and such retrofitting is acceptable to the contracting authority's engineer.
- Pressure Gauges (0 - 10 Bar) fitted to the PE main pipe without reduction in bore of the main pipe fitted upon. Pressure gauge shall be of Brass or

Stainless steel and have full rotary movement for longer life. This shall be heavy duty for operation with water.

- Provision of water bowser hose connection through a galvanized quick fitting galvanized socket of the same bore as pipe fitted upon. Provision is to be made for any extra items for a complete system. The bowser quick connection shall be installed in the wall built adjacent to the reservoir near the MGOZ parking so that the bowser can connect to the rigid quick connection from the MGOZ parking space.

The pump motor shall be of the induction type matched to pump output.

Insulation shall be to class B

Enclosure shall be to IP68, suitable for continuous immersion.

Motor shall be suitable for operation on 400V 50Hz, 3-phase supply.

Built-in Capacitor

Thermal overload protection to stop pump supply in case of overheating.

Pump shall be equipped with at least 10m of cable.

The contractor shall supply and install such a pump in an approx 2ft or 3ft manhole prepared in an already existing reservoir. The contractor shall also supply and connect the required pipe work and electrical supply from the pump to the control panel for a complete system.

6. WATER TANK - (Refer to Diagram 2)

The buffer water tank shall be of a capacity of minimum 2000 litres and shall be of the vertical type and not the bowser/horizontal type. Material shall be polythelene or any other plastic/fiberglass material suitable to contain water and to be buried underground. It shall have a lid which may need to be modified to accommodate fittings. Tank height shall be a minimum of 1.7 metres.

7. INSTALLATION

Workmanship

Except where otherwise stated, workmanship shall comply with British Standard Codes of Practice, where applicable. A high standard shall be maintained throughout the installations. The contractor shall ensure that the standard of finish demanded by this contract is achieved. Branded materials shall be assembled, constructed and joined in accordance with the manufacturer's instructions and recommendations.

Testing and commissioning

a) General

All the works provided as part of the contract shall be inspected and commissioned in accordance with the relevant British Standard Specifications and Codes of Practice to the satisfaction of the Engineer.

All installations shall be inspected and tested in sections as the work proceeds and on completion as complete systems and it shall be noted that the Engineer may require inspecting or testing any equipment during installation. All tests shall be arranged in co-operation with the Engineer and he shall be given prior notice of the time, location and nature of the test. No test shall be considered valid unless the Engineer is present.

Any defects occurring at any time during the test duration shall be made good and a complete re-test shall be carried out, all at no cost to the contract. Where failure during a test, inspection or commissioning process results in damage to the building fabric and/or services not provided as part of this contract, or requires subsequent builders' work then these items are to be made good at no extra cost to the contract.

No section of the works shall be in any way concealed prior to testing and inspection and subsequent concealment where applicable shall only take place following written authority from the Engineer.

8. LITERATURE

The bidder is to provide literature relating to pumps, control panel and other equipment to be used as per Annex 7.

9. PAYMENT TERMS

- An advance of twenty per cent (20%) of the contract price (exclusive of V.A.T.) shall be paid, only after the deposit by the CONTRACTOR of an Advance Payment Guarantee equaling 20% of the value of the contract price, provided by a credit institution or any other legal person lawfully operating in Malta or in the Contractor's country, which is entitled by law to issue such bonds; and against valid invoice.
- Payment will be effected once the terms in this document have been met following the satisfactory execution of the works and supplies.
- Payment will only be effected against a valid invoice (VAT not applicable for intra-EU transactions).

ANNEX 5 - BILL OF QUANTITIES

REF	ITEM	QTY.	UNIT
<p>QUOTED RATES ARE TO TAKE INTO CONSIDERATION ALL DOUBLE HANDLING OF MATERIAL AS WELL AS COMPLIANCE WITH RELEVANT STANDARDS, LEGAL NOTICES AND HEALTH AND SAFETY PROCEDURES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING STRUCTURES AND HAS TO MAKE GOOD AT HIS OWN EXPENSE. RATES FOR EXCAVATED AND DEMOLISHED MATERIAL ARE TO INCLUDE FOR DUMPING OF RESULTANT MATERIAL TO APPROVED SITE. SOME OF THE WORKS MAY NEED TO BE CARRIED OUT IN CONFINED SPACES AND LOW ACCESSIBILITY AND THIS HAS TO BE TAKEN INTO CONSIDERATION - NO EXTRA REMUNERATION WILL BE MADE FOR THIS</p>			
Civil works			
1	EXCAVATION IN ANY TYPE OF MATERIAL AND CARTING AWAY TO APPROVED DUMPING SITE. CONTRACTOR MUST NOTE THAT EXCAVATION SHALL BE CARRIED OUT IN AN AREA WITH VERY LOW ACCESSIBILITY AND MAY REQUIRE TO BE CARRIED OUT USING HAND HELD EQUIPMENT. NO EXTRA RENUMERATION SHALL BE MADE FOR EXCAVATION AROUND PERPENDICULAR OR PARALLEL SERVICES OR ANY OTHER FEATURES WHETHER NATURAL OR MANMADE. CONTRACTOR MAY BE ASKED TO TEMPORARILY SUSPEND THE WORKS SHOULD ANY FEATURES BE DISCOVERED. SITE IS TO BE CLEANED WHEN COMPLETED.	25.00	cum
2	SUPPLY, LAY AND LEVEL C20 CONCRETE. RATE TO INCLUDE FOR THE FORMATION OF ANY FORMWORK REQUIRED BUT TO EXCLUDE FOR ANY REINFORCEMENT.	2.00	cum
3	SUPPLY, DELIVERY AND INSTALL BUFFER WATER TANK CAPACITY 2000 LTRS AS PER SPECIFICATIONS. WATER TANK TO BE TESTED FOR ANY LEAKAGES PRIOR TO INSTALLATION.	1.00	no.
4	SUPPLY AND LAY GRADE C25 BACKFILL CONCRETE AROUND TANK. RATE MUST INCLUDE FOR FILLING TANK WITH WATER WHEN CASTING CONCRETE AND FOR ANY FORMWORK NECESSARY. TANK TO BE EMPTIED ONCE CONCRETE HAS CURED.	6.00	cum
5	SUPPLY AND LAY CAST INSITU GRADE C30 CONCRETE SUSPENDED SLAB MINIMUM THICKNESS 200MM, C503 MESH FLUSH WITH EXISTING PARKING LEVEL. RATE IS TO INCLUDE FOR BROOM FINISH AND FOR THE FORMATION OF A MANHOLE 600MM X 600MM.	5.00	sqm

6	SUPPLY AND LAY , INSTALL D400 CAST IRON MANHOLES OF THE FOLLOWING DIMENSIONS:		
a	600MM X 600MM	3.00	no.
7	SAW-CUTTING IN EXISTING TARMAAC/CONCRETE SURFACES TO ACHIEVE STRAIGHT EDGES; ANY DEPTH	50.00	mrun
8	EXCAVATE TRENCHES IN ANY TYPE OF MATERIAL FOR THE LAYING OF 63 MM PN10 HDPE PIPE IN ITEM 10 OF THE BOQ. RATE TO INCLUDE FOR BACKFILLING OF TRENCH WITH C10 LEAN MIX CONCRETE AND REINSTATEMENT OF SURFACE TO THAT EXISTING OR AS DIRECTED. TRENCH NOMINAL DIMENSIONS 600MM DEEP BY 300MM WIDE. RATE TO INCLUDE FOR THE PASSING UNDER OR OVER ANY EXISTING SERVICES AND REINSTATEMENT OF EXISTING PAVEMENT. NO COMPENSATION SHALL BE DUE FOR ANY OVER EXCAVATION OR BACKFILLING. RATE TO INCLUDE FOR THE REMOVAL OF ANY EXISTING PAVEMENT TILES WITH CARE, EXCAVATION OF TRENCH, LAYING OF MAIN AND RELAYING OF SAME TILES IN A SUITABLE BEDDING.	70.00	mrun
9	CONSTRUCTION OF WALLS IN FRANKA MASONRY BLOCKWORK, CONSISTING OF 1 IN NUMBER 230MM THICK WALLS. RATE TO INCLUDE FOR KEYING IN OF WALLS WITHIN EXISTING BUILDING FEATURES AND FOR THE FORMATION OF ANY SKEW EDGES ETC.	25.00	sqm
	Pipe Works and Pumps		
10	SUPPLY AND LAY 110MM PVC PIPE IN EXISTING UNDERGROUND CULVERT/TUNNEL AND UNDERNEATH PAVEMENT/ROAD LEADING TO BUFFER TANK ACCORDING TO CORRECT GRADIENTS AS DIRECTED. RATE TO INCLUDE FOR ANY FIXTURES REQUIRED FOR THE INSTALLATION OF SUCH PIPE INCLUDING PIPE HANGERS. NO EXTRA REMUNERATION SHALL BE INCLUDED FOR REDIRECTION OF PVC PIPES AROUND EXISTING SERVICES. RATE IS TO INCLUDE FOR REINSTATEMENT OF PAVEMENT/ROAD AS DEEMED NECESSARY.	35.00	mrun

11	SUPPLY AND LAY 63MM OF HDPE PN10 PIPE IN TRENCH ACCORDING TO CORRECT GRADIENTS AS DIRECTED. RATE TO INCLUDE FOR ANY FIXTURES REQUIRED FOR THE INSTALLATION OF SUCH PIPE TILL THE EXISTING WATER RESERVOIR. NO EXTRA REMUNERATION SHALL BE INCLUDED FOR REDIRECTION OF PVC PIPE AROUND EXISTING SERVICES.	70.00	mrn
12	SUPPLY, INSTALL AND CONNECT SUBMERSIBLE 3 PHASE PUMP AS PER SPECIFICATIONS. RATE IS TO INCLUDE FOR ALL NECESSARY FITTINGS, FOR A COMPLETE FUNCTIONAL SYSTEM. PROVISION IS TO BE MADE FOR STRAINER, NON RETURN VALVE, FLOAT SWITCH, PRESSURE GUAGE AND PRESSURE SWITCH TOGETHER WITH RELATED CONTROL PANEL SWITCHGEAR AND EQUIPMENT INDICATED IN SPECIFICATIONS INCLUSIVE OF SOFT START, ETC. PROVISION IS TO BE MADE ALSO FOR CONNECTION OF PUMP TO CONTROL PANEL ABOVE RESERVOIR.	1.00	LS
13	SUPPLY, INSTALL AND CONNECT SUBMERSIBLE SINGLE PHASE PUMP AS PER SPECIFICATIONS. RATE IS TO INCLUDE FOR ALL NECESSARY FITTINGS, ETC, FOR A COMPLETE FUNCTIONAL SYSTEM. PROVISION IS TO BE MADE FOR STRAINER, NON RETURN VALVE AND FLOAT SWITCH TOGETHER WITH RELATED CONTROL PANEL SWITCHGEAR AND EQUIPMENT INDICATED IN SPECIFICATIONS.	1.00	LS
14	WATER METER FOR BOWSER CONNECTION AS PER SPECIFICATIONS INCLUSIVE OF FLANGE CONNECTION TO POLYETHLENE PIPEWORK	1.00	no.
15	TAMPER FREE BALL VALVE AS PER SPECIFICATIONS	1.00	no.
16	SUPPLY AND INSTALL 4MM STAINLESS STEEL WIRE ROPE TO SUSPEND SUBMERSIBLE PUMP	8.00	mrn
17	SUPPLY AND INSTALL THE FOLLOWING FITTINGS:		
a	ELBOWS FOR 63 MM PIPE	10.00	no.
b	110MM PVC ELBOW	4.00	no.
c	110MM PVC EASY BEND	14.00	no.
d	110MM PVC Y	1.00	no.
18	REMOVE EXISTING CLAY OVERFLOW PIPE AND SUPPLY AND INSTALL TWO (2) 150MM CLAY PIPE AS DIERECTED. RATE TO INCLUDE FOR NECESSARY BRACKETS REQUIRED AND PLASTERING AND POINTING WITH SAND/ CEMENT MORTAR AROUND PIPES WERE REQUIRED. PIPE LENGTHS APPROX. 3M	1.00	l.s

	Electrical Works		
19	SUPPLY AND INSTALL 2.5 MM CORE CABLE FOR SINGLE PHASE PUMP, H07RN, IN 25MM PVC, BENEATH PAVEMENT AND IN EXISTING TUNNEL/CULVERT CLIPPED TO WALL AS DIRECTED BY OFFICER IN CHARGE. PROVISION IS TO BE MADE FOR WORKING IN CONFINED SPACES.	20.00	M
20	SUPPLY INSTALL AND CONNECT 5 x 4 SQ. MM XLPE/PVC/SWA/PVC CABLE CLIPPED TO WALL , INCLUDING CONNECTIONS, TERMINATIONS, CLEATS, GLANDS, CLIPS AND ANY OTHER MATERIAL FOR A COMPLETE FUNCTIONAL SYSTEM.	70.00	M
	TOTAL - EXCL. of VAT		

Signature: _____

Date: _____

Name: _____

ID: _____

ANNEX 6 - DIAGRAMS

Diagram 1

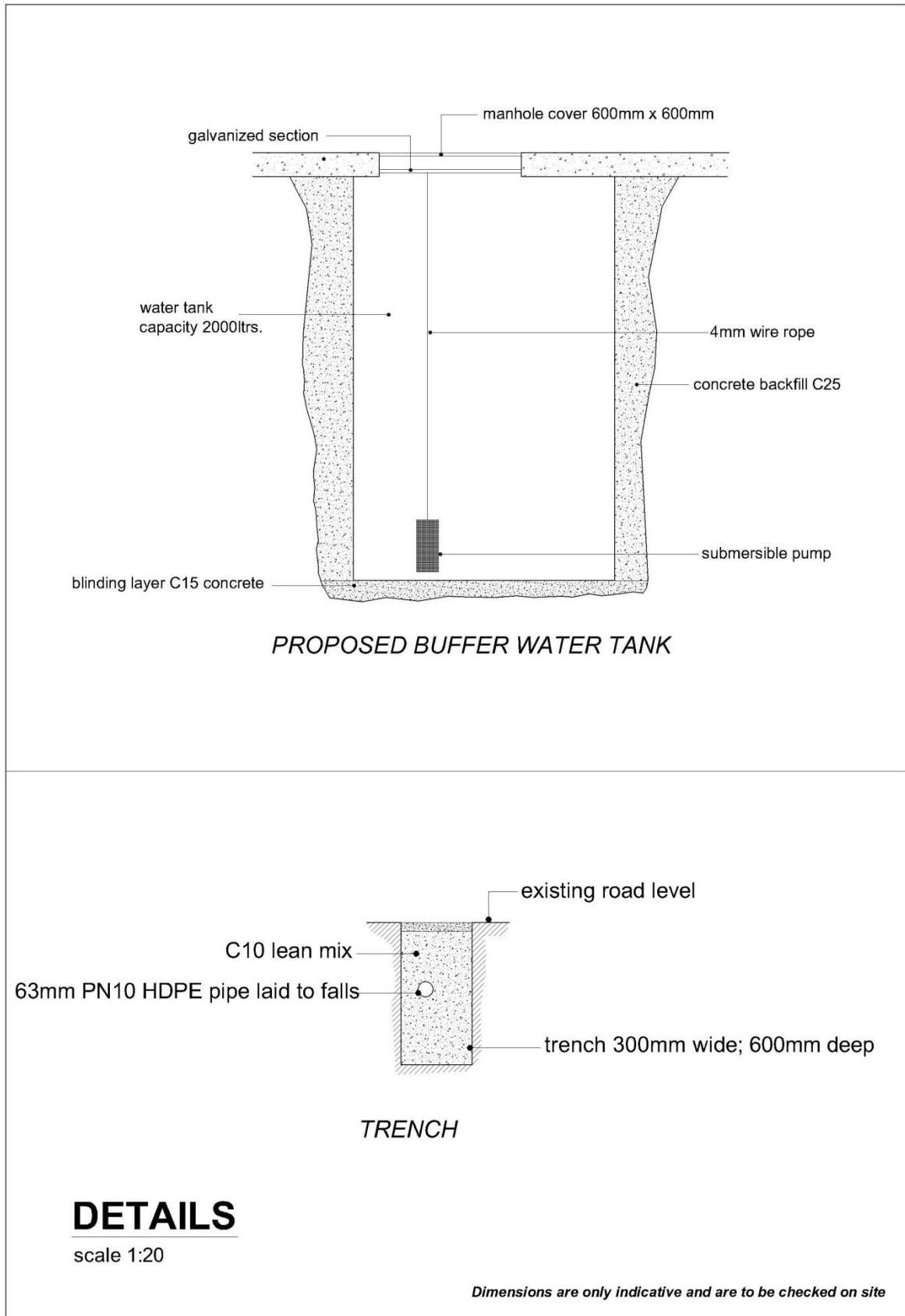
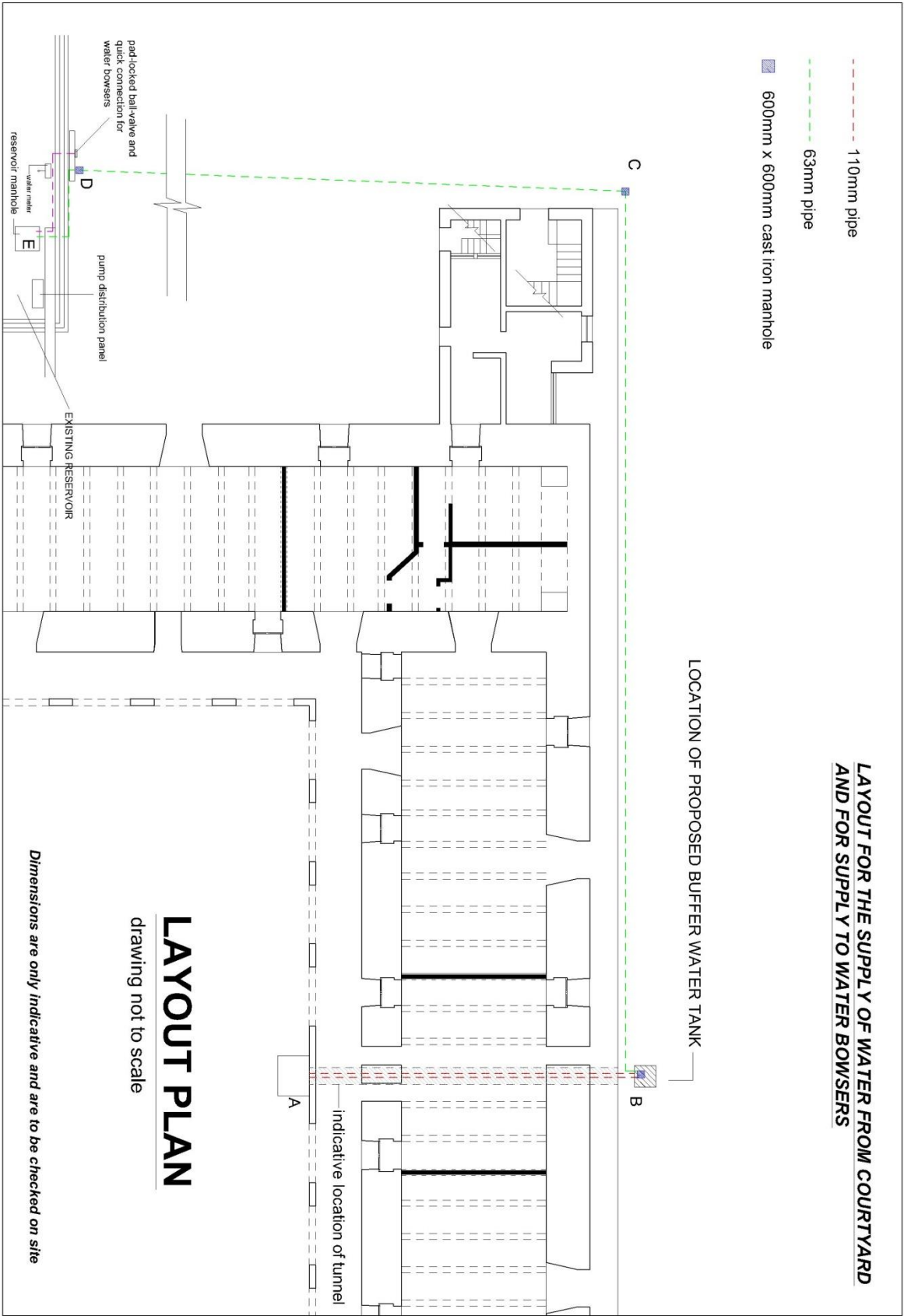


Diagram 2



ANNEX 7 - LITERATURE

1. List of literature to be submitted with the quotation:

Item	Description	Reference in Technical Specifications
1.1	Buffer tank pump, strainer and non return valve	
1.2	Bowser reservoir 3 phase pump	
1.3	Pressure gauge	
1.4	Water meter to be coupled with 3 phase pump	
1.5	Pipes	
1.6	Control units and accessories	
1.7	Ball Valve (padlocked)	
1.8	Vertical buffer tank	
1.9		
2.0		
2.1		
2.2		
2.3		
2.4		
2.5		
2.6		
2.7		
2.8		

Signature:

(the person or persons authorised to sign on behalf of the bidder)

Date: