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PRICE SCHEDULE DETAILED INFORMATION

1. GENERAL

The bill of quantities does not purport to be either exhaustive or explanatory of all the obligations and duties of the Contractor who shall be deemed to have satisfied himself as to the correctness and sufficiency of the rates and prices entered by him in the bill of quantities all of which shall cover all his obligations under the Contract (including those in respect of the supply of work, goods, materials, equipment, services or contingencies) and all matters and things necessary for the proper execution and completion of the works and the remedying of any defects therein and which may reasonably be inferred to be necessary for the works as described in the Contract Documents whether expressly mentioned therein or not.

The price shall include all necessary for completion of the works and shall include the prices for all necessary building work such as forming box outs, temporary and permanent supports, plinths, trenches and the like and all necessary safety and access measures including guardrails, handrails, firefighting equipment and the like.

Works in the present bill of quantities will be re-measured on completion and valued at the rates inserted by the Contractor hereinafter in accordance with the Contract Documents.

The Contractor shall be deemed to have visited the Site and taken into account all local and existing conditions.

The Contractor shall be responsible for carrying out any necessary associated design changes, which shall be submitted to the approval of the Supervisor and shall be at no extra cost to the Contracting Authority.

The unit prices are to be fully inclusive of the works described in the specifications, in the drawings, in the bill of quantities or ordered by the Supervisor for proper execution of the Works and Contract and inclusive works that are not clearly stated in the above documents or by the Supervisor, but implicitly required to bring to a satisfactory completion all Works under the scope of this contract.

The rates entered against the items defined in this bill of quantities shall cover the construction of all the works that shall include but not be limited to the supply of material, labor, tools, equipment, consumables and transport to the various parts of the project (easy to access or not) and all costs, services, taxes, overheads and profits required for the proper completion of all the works (structures, pipelines, etc . . .) under this Contract without any exception and without any reservation. All the works shall be executed as described in and according to the Conditions of Contract, Specifications, Bill of Quantities, Drawings, rules of the trade and the Supervisor's requirements. All material used in construction shall be of best quality and in compliance with the specifications and internationally recognized standards and shall

be approved by the Supervisor prior to the beginning of the works. The rates shall also include but not be limited to the following:

- 1) Installation and maintenance of site equipment and temporary facilities, dismantling and removal of site equipment and temporary facilities after completion of the works.
- 2) Construction and maintenance of all access roads including safety measures and traffic signaling.
- 3) Supply of material, labor, tools, equipment, consumables, machinery and all the required items for the completion of the works and for the subsequent operation, maintenance and repair. All goods, materials, equipment and accessories shall be submitted to the Supervisor for approval,
- 4) Supply and installation of all the necessary house connections in order to link the consumers to the potable water network in accordance with the Supervisor and local authorities requirements.
- 5) Performing all kinds of testing during construction (water quality, hydraulic pressure tests for pipes and accessories and all other required tests in conformity with the specifications and as directed by the Supervisor.
- 6) Providing site security.
- 7) Preparation of drawings, reports, submittals and all other required office work in order to complete the works with their related expenses.
- 8) Protection of public and private properties, preservation of the existing utilities and indemnification against all damages caused by the construction activities,
- 9) Providing all necessary safety measures as barriers, signs, lightings, etc ... to ensure the safety of the workers, people and traffic and to delineate the boundaries of the work zone day and night.
- 10) Providing traffic control in areas of construction including the construction of roads and pathways, the erection of signs, barriers and lighting.
- 11) Insurance for all works, equipment and personnel.
- 12) All costs pertaining to the Contractor work area (stores, workshops, repair zones)
- 13) All taxes and customs fees,
- 14) Supply of water and power including piping and wiring to all parts of the project and all related costs,

15) Supply of fuel, oil, spare parts, etc..... for all the vehicles and equipment involved in the construction works related to this Contract..

16) Providing qualified personnel, technicians, workmen, etc ... needed for the proper execution of all works and their related charges (salaries, pensions, etc ...),

17) Execution of all survey works to position structures, monitor the progress and verify the locations (X,Y,Z) of all constructions and prepare topographic layouts to be submitted to the Supervisor on paper and electronic copy.

18) Preparation of all kinds of submittals, reports and studies required by the Conditions of Contract, the specifications, the drawings and the Supervisor.

2. DESCRIPTION OF ITEMS

Sections 14, 15, 16, 17 and 18 here below are price schedules to the sections of the Bill of Quantities. They give a detailed description of the work involved and of the conditions under which and the manner in which the work is to be done and measured, for each item of the Bill of Quantities.

Each item in these sections shall bear the same number as the item number allocated to it in the B.O.Q.

For this Bill of Quantities, certain sections may not be applicable.

3. PRICES TO BE FULLY INCLUSIVE

No omission in the description shall relieve the Contractor from his obligation to design and carry out the whole of the Works as specified and in accordance with the best current practice to the satisfaction of the Supervisor. Where an item necessary for the proper completion of the Works is not itemized in the Bill of Quantities, Bidder shall include it in the unit prices of the priced items.

In the pricing of the items of the following Bill of Quantities, Bidder shall include and shall be deemed to have included for all work, services and materials which may be reasonably inferred as necessary for completion of the Works as described in the Specification and Schedules whether expressly mentioned therein or not.

Where an installation of any nature (reservoir, pipeline, etc....) is to be rehabilitated or a new installation is to be installed adjacent to an existing one, the prices shall include for:

- All temporary works as may be necessary to maintain the existing installation in operation during erection of the new installation including for all temporary connections, blanking off of pipework connections, and all measures needed to ensure the continuous safe working and operation of the existing installation.

- Demolition and removal from site of redundant installations and making good including all building and civil work associated with the removal of existing installation and the erection of the new one.
- Arranging for and carrying out any necessary temporary shutdown or diversion of flows in pipes, ducts, and channels and reinstating flow.
- Draining down existing pipes, tanks, ducts, and channels including pumping as required.
- Connecting into and modifying existing installations, including any investigations required to ensure that the modifications are compatible with the existing installation.
- Testing, disinfecting and commissioning the new installation and the hook up between the old and new installation.

4. COVERAGE

Where the bill of quantities does not include separate items for Contractor's equipment, temporary works, temporary site facilities of all kind and the like, the Contractor shall be deemed to have covered his obligations in these respects in the unit rates of the B.O.Q.

5. BIDDER TO PRICE EACH ITEM

The Contractor shall be deemed to have inserted against each item in the bill of quantities such rates and prices as he may deem necessary to cover the requirements of the Contract. Where neither price nor rate is entered against an item it shall be deemed to be "nil" and measured accordingly. The term "included" or any such similar term shall be deemed to be nil. Rates and prices shall be inserted in the unit price and total prices columns of the bill of quantities. However not pricing an item of the B.O.Q does not relieve the Contractor from fulfilling the complete requirements set out in the Contract documents related to this project.

6. DISCREPANCIES BETWEEN RATES

In case of a discrepancy between unit rates and total prices unit rates shall govern. In case of a discrepancy between the price of an item and a sub-total or total, the item price shall govern.

7. MEASUREMENT

All measurements in the bill of quantities are strictly net. The principle of net measurements shall apply to all works executed. All quantities measured for payment shall be measured by the Supervisor on the basis of actual net quantities installed.

Net measurements shall be done according to net dimensions. The net dimensions are the dimensions shown on the contract drawings. In case of lack of details on some drawings and in case of design changes approved by the Supervisor, the Contractor shall prepare and submit to the approval of the Supervisor any necessary

associated drawings. Accordingly, the net dimensions shown on the above drawings and approved by the Supervisor shall be the base for the measurements.

Lump Sum items shall not be subject to re-measurement and shall include the prices of all necessary equipment, construction, installation, testing and commissioning among others. The lump Sum entered in the bill of quantities shall include the price for a complete installation as described in the bill of quantities, specifications and other documents forming this Contract.

The quantities given in the bill of quantities are only estimations. In no sense shall such quantities be considered as limiting or extending the amount of the work to be done by the Contractor and of the materials to be supplied by him. The Contractor shall be responsible for checking quantities and for making any necessary surveys and investigations prior to submitting his bid and eventually placing any order for materials.

8. ALTERNATIVE STANDARDS OF EQUIPMENT

If alternative equipment of equal or better standard is proposed by the Contractor and accepted by the Supervisor the Contract Price shall be deemed to include for such alternative equipment and no additional payment will be made.

9. WATER AND ELECTRICITY

Unless otherwise explicitly stated in the Contract, water and electricity for the purpose of constructing, cleaning, testing, commissioning the works and human consumption shall be provided by the Contractor at his own expense, and shall not be measured separately.

10. DISPOSAL SITES

All disposal sites shall be provided by the Contractor in accordance with the local authorities and shall not be used by the Contractor prior to the approval of the Supervisor. All costs related to such sites and the preparatory works involved are deemed to have been included in the priced items of the Bill of Quantities.

11. TRANSPORT OF MATERIAL

All materials shall be transported at the Contractor's expense from and to all works sites (including Contractor work area, storage areas, etc . . .) whether these sites are accessible or not. The Contractor shall bear all charges related to access roads construction unless a separate item for access roads construction is included in the bill of quantities.

12. SPARES

The Bidder shall submit a Lump Sum price for a supply of spare parts suitable for 5 years of operation for all electrical and mechanical equipment supplied under the scope of this Contract (valves, flowmeter, gages, etc...). During Contract execution, the Contractor shall submit a detailed list of spares with a price breakdown. The Contracting Authority shall reserve the right to purchase all, some or none of the spares scheduled.

In addition, the Contractor shall obtain from the manufacturer of each and every piece of electrical and mechanical equipment offered, the manufacturer's list of recommended spares including consumables and lubricants necessary for servicing and maintaining the equipment for a period of five years of continuous operation after the end of the Defects Liability Period. The spare parts lists shall be individually described and priced.

The Tenderer shall ensure that very careful consideration is given by each manufacturer to the preparation of the spare parts lists such that the quantities truly relate to the needs to be expected in the light of local conditions of operation, and the environment. The Contractor shall ensure the sufficiency and completeness of the spares, parts, consumables and lubricants inventory and shall, if necessary, include for any additional spares over and above those specified by the manufacturer to ensure proper and continuous equipment operation for a five year period

Prices shall include all costs for the supply, packaging and delivery to site or to the Contracting Authority's store as directed.

13. DEFINITIONS

The following definitions shall apply to items in the bill of quantities

Extra-Over

Any "Extra-Over" (EO) item shall be measured and paid in addition to the measurement of the basic item to which it relates.

Included

Where the term included is used in the Price schedule or in the bills any items stated to be included within another item shall not be subject to measurement and their costs shall be deemed to be included within the rates of the billed item.

Provisional Items

Provisional Items shall be used at the discretion of the Supervisor and only if ordered or required by the Supervisor in writing.

14. PRICE SCHEDULE TO SECTION I OF THE B.O.Q “GENERAL”

14.1 ITEM I.1 - MOBILIZATION / DEMOBILIZATION

This item shall include but not be limited to:

Supplying all resources, equipment, vehicles, etc.... necessary for the execution and completion of the works; preliminary site survey visits and necessary measures and stakes to locate structures on the ground, construction, operation and maintenance of offices, stores, workshops, clinics, fully equipped site laboratories, labor living quarters and all other facilities required for the completion of the works under this Contract, insurance, removing all above stated equipment and facilities at the end of the contract period or when requested by the Supervisor and returning the site to its original conditions all as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

The price for this item shall be paid as a lump sum.

14.2 ITEM I.2 - SHOP DRAWINGS

This item shall include but not be limited to:

Revision and Verification of all conceptual design drawings and other Contract document, gathering of data, site topographical survey, preparation and submission of shop drawings (three copies on paper, one sepia and one electronic copy) including all design data, details and calculations necessary for the execution of the works, modifications to drawings, making copies of the shop drawings permanently available on site and all other necessary work for the proper execution of this item all as required by the specifications and / or deemed necessary by the Supervisor.

The price for this item shall be paid as a lump sum.

14.3 ITEM I.3 - AS-BUILT DRAWINGS

This item shall include but not be limited to:

Final survey of the executed works, preparation of As built drawings and submissions (three copies on paper, one sepia and one electronic copy), modifications to as built drawings, making copies of the shop drawings permanently available on site and all other necessary work for the proper execution of this item all as required by the specifications and / or deemed necessary by the Supervisor.

The price for this item shall be paid as a lump sum

14.4 ITEM I.4 - TESTING AND DISINFECTION

This item shall include but not be limited to:

Supplying labor, material, transportation, storage, equipment, instruments, facilities, fresh water, specialized services and all other necessary resources to carry out pressure tests for the piping system, all kinds of water tests required (chemical and bacteriological), compaction tests (for soil, asphalt, backfill etc.....), reservoir leakage tests, concrete strength

tests, reservoir roof waterproofing tests, electrical tests and all other necessary tests for the proper execution of the construction works to the required quality called for in the project drawing, in the specifications and required by the Supervisor.

This item shall include the costs pertaining to tests performed by the Contractor or those carried out by third party.

The price for this item shall be paid as a lump sum.

14.5 ITEM I.5 - OPERATION & MAINTENANCE MANUALS

This item shall include but not be limited to:

Preparation of operation and maintenance manuals defining all equipments and particularly valve chambers and reservoirs equipments (gate valves, float valves, pressure gages, flowmeters, waterproofing, paint...) and showing all necessary instructions for the control and maintenance of these equipments; collecting details and catalogues, gathering data sheets and manufacturer's catalogues, all as required by the specifications and / or deemed necessary by the Supervisor.

Operation and Maintenance manuals shall be supplied written in English and Arabic languages except where instructed otherwise by the Supervisor. All parts and equipment listings shall be in English.

The price for this item shall be paid as a lump sum

14.6 ITEM I.6 - PROTECTION OF PROPERTY AND UTILITIES

This item shall include but not be limited to:

Supplying labor, material, transportation, storage, equipment, facilities, services, and all other necessary resources to carry out works and topographical surveys to locate existing utilities, design and implementation of procedures and installations necessary for the preservation of all utilities (potable water pipes, sewer pipes, drains, irrigation canals and pipes, channels, telephone and power lines, etc ...) in a good and serviceable condition during the construction of the works as well for the protection and making good of properties used as spoil areas or temporary dumps or the like all as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

This item should include provisions for the repairs of damaged utilities and property as well as the consequent liabilities involved, for spraying water on dirt traffic areas for dust control and for all formalities necessary when a permit is required from public authorities or operators to carry out construction works in public areas or in the vicinity of public utilities.

The price for this item shall be paid as a lump sum

14.7 ITEM I.7 - SPARE PARTS

This item shall include but not be limited to:

Procurement, transportation and storage of spare parts, consumables and all other material for the proper operation of the installed equipment for a period of 5 years after the Defect and Liability period. Approval of spares and consumables to be procured shall be at the discretion of the Supervisor.

The price for this item shall be paid as a lump sum.

15. PRICE SCHEDULE TO SECTION II OF THE B.O.Q "PIPEWORK"**15.1 ITEM II.1 - ASPHALT AND CONCRETE REMOVAL**

This item shall include but not be limited to:

Cutting on both sides of the trench using asphalt saw, trench widening where required, removal of asphalt or concrete layers and aggregates to the disposal sites, installation of warning signs and lights and all other necessary work for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

Asphalt or concrete removal for digging pipe trenches shall be measured by linear meter along the centerline of pipes.

15.2 ITEM II.2 - EXCAVATION FOR PIPELAYING

This item shall include but not be limited to:

Surface clearing, stripping, grubbing, disposal of the waste material and trees, excavation to the required width and depth, drilling, blasting, dewatering, removing and hauling excavated material and storing it in approved areas for backfilling whenever permitted, removal and disposal of all excess spoil to designated spoil areas, bottom of trench preparation, removal of material that may result from land slides, removal of loosened earth or rock, preparation of rock bed where applicable, installation of warning signs and lights, thrust blocks construction and all other necessary works for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

The excavation shall be carried out according to the dimensions shown on the drawings or directed by the Supervisor. The price shall neither account for extra excavation depth nor for extra excavation width caused by trench wall sliding or any other reason. Unless otherwise specified, items for trench excavation shall apply to all kinds of soil, including rock

Excavation for pipe laying will be measured for payment in linear meters measured along the centerline of the pipeline.

15.3 ITEM II.3 - PIPE BEDDING

This item shall include but not be limited to:

Supplying the proper bedding material, dumping in trench in layers not exceeding 15 cm, hand compaction, concrete encasement where necessary and all other necessary works for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

Pipe bedding shall be measured in linear meters measured along the centerline of the pipeline.

15.4 ITEM II.4 - PIPELAYING**15.4.1 DUCTILE CAST IRON PIPES**

This item shall include but not be limited to:

Procuring, transporting, storing, installing, painting, remedying of all defects that may appear while testing of K9 ductile iron pipes and fittings (elbows, tees, adaptors, short pipes, puddle flanges, flanges) in roads, off roads and in special crossing areas (bridges, watercourses, terraced ground, steep slopes, etc ...) and all other necessary works for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

The price shall also include marking tapes, thrust blocks, pipe cutting, chamfering, jointing material and accessories necessary to connect ductile iron pipes to ductile iron pipes, polyethylene pipes, valves, accessories, manholes and to other pipes and structures.

This Item shall be measured per linear meter, K9 ductile iron pipes shall be classified for payment according to pipe diameter and nominal pressure.

15.4.2 HIGH DENSITY POLYETHYLENE PIPES

This item shall include but not be limited to:

Procuring, transporting, storing, installing, remedying of all defects that may appear while testing of polyethylene pipes and fittings in roads, off roads and in special crossing areas (bridges, watercourses, terraced ground, steep slopes) and all other necessary works for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

The price shall also include marking tapes, thrust blocks, pipe cutting, chamfering and all types of joints, (compression fittings, butt fusion jointing, electro-fusion jointing, flanged jointing, etc ...), elbows, adaptors, end plugs and jointing material and equipment necessary to connect polyethylene pipes to polyethylene pipes, ductile iron pipes, valves, accessories, manholes, valve control systems, house connections and to other pipes and structures.

This Item shall be measured per linear meter, Polyethylene pipes shall be classified for payment according to pipe outer diameter.

15.5 ITEM II.5 - GATE VALVES

This item shall include but not be limited to:

Procuring, transporting, storing, installing, painting, remedying of all defects that may appear while testing, of gate valves and related accessories (bolts nuts, gaskets) and all other necessary works for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

Gate valves shall be measured by piece and shall be classified for payment according to diameter and nominal pressure.

15.6 ITEM II.7 - WASHOUT VALVES

This item shall include but not be limited to:

Procuring, transporting, storing, installing, painting, remedying of all defects that may appear while testing of wash out valves and related accessories (ductile iron or polyethylene pipe of specified diameter, joints) and all other necessary works (excavation, trench backfilling, manhole construction, culvert preparation, etc...) for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

Washout valves shall be measured by piece and shall be classified for payment according to diameter and nominal pressure.

15.7 ITEM II.8 - AIR RELIEF VALVES

This item shall include but not be limited to:

Procuring, transporting, storing, installing, painting, remedying of all defects that may appear while testing, of air relief valves and related accessories (joints, shut off valve) and all other necessary works (excavation, trench backfilling, manhole construction, culvert preparation, etc...) for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

Air relief valves shall be measured by piece and shall be classified for payment according to diameter and nominal pressure.

15.8 ITEM II.9 - FIRE HYDRANTS

This item shall include but not be limited to:

Procuring, transporting, storing, installing, painting, remedying of all defects that may appear while testing, of air fire hydrants and related accessories (joints, shut off valve) and all other necessary works (manholes, thrust block, excavation, backfilling, etc) for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

Fire hydrants shall be measured by piece and shall be classified for payment according to diameter and nominal pressure.

15.9 ITEM II.10 - VALVE CHAMBERS

This item shall include but not be limited to:

Provision for labor, material, transportation, equipment, storage and other necessary services for the execution of valve chambers including excavation, erection of reinforced concrete valve chambers, backfilling, metal accessories (access trap, steps, supports...), painting, spool pipes with puddle flanges, bitumen layer waterproofing, waterproofing membrane, tanking, flanged adaptors, heavy duty manhole covers and all other necessary works for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

Reinforced concrete valve chambers shall be measured by piece and shall be classified for payment according to chamber type.

15.10 ITEM II.11 - BACKFILLING OF PIPE TRENCHES

This item shall include but not be limited to:

Supplying the proper backfill material, dumping in trench in layers not exceeding 25 cm, watering, compacting, installing marking posts and all other necessary works (safety markers, backfilling of any excess excavation) for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

Backfilling of pipe trenches shall be measured by linear meters along the centerline of pipes. It shall not take into account the type of area where backfilling is taking place (paved or unpaved areas).

15.11 ITEM II.12 - REINSTATEMENT OF ROADS

This item shall include but not be limited to:

Supplying the proper aggregate and bituminous material, spreading in layers not exceeding 25 cm before compaction, compacting the aggregate base course(s) , cleaning the surface and applying the tack layer followed by the bituminous layer(s) or the concrete layer and all other necessary works (safety markers, repairs, re-cutting of asphalt required by collapse of trench edges and repairing of existing paved areas damaged by the Contractor's construction works) for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

Reinstatement of pipe trenches shall be measured by linear meters along the centerline of pipes.

15.12 ITEM II.14 – REHABILITATION OF TRANSMISSION LINE

This item shall include but not be limited to:

Provision for labor, material, transportation, equipment, storage and other necessary services for the execution of the rehabilitation works for the existing transmission pipe including all necessary pipe fittings, spool pieces, chambers, excavation, backfilling, drainage, disinfection, safety barriers and markers, blind flanges and all other necessary works for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

This item shall be measured as a lump sum.

15.13 ITEM II.15 – HOUSE CONNECTIONS**15.13.1 ITEM II.15.1 HDPE PIPES**

This item shall include but not be limited to:

Procuring, transporting, storing, installing, remedying of all defects that may appear while testing of polyethylene pipes and fittings in roads, off roads complete with tapping collar on main distribution line including all excavations, backfilling & road reinstatement and civil

works and all other necessary works for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

The price shall also include thrust blocks, pipe cutting, chamfering and all types of joints, (compression fittings, butt fusion jointing, electro-fusion jointing, flanged jointing, etc ...), elbows, adaptors, end plugs and jointing material and equipment necessary to connect polyethylene pipes to polyethylene pipes, ductile iron pipes, valves, accessories.

This Item shall be measured per linear meter, Polyethylene pipes shall be classified for payment according to pipe outer diameter.

15.13.2 *ITEM II.15.2 STOP VALVES*

This item shall include but not be limited to:

Procuring, transporting, storing, installing, painting, remedying of all defects that may appear while testing, of stop valves and related accessories (bolts nuts, gaskets) complete with surface box including civil works and all other necessary works for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

Stop valves shall be measured by unit and shall be classified for payment according to diameter and nominal pressure.

15.14 ITEM II.16 – END CAPS

This item shall include but not be limited to:

Procuring, transporting, storing, installing, painting, remedying of all defects that may appear while testing, of end caps and related accessories (bolts nuts, gaskets) complete with all civil works and all other necessary works for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

End caps shall be measured by piece and shall be classified for payment according to diameter and nominal pressure.

16. PRICE SCHEDULE TO SECTION III OF THE B.O.Q “RESERVOIRS WORKS”

16.1 ITEM III.6 - WATERPROOFING AND THERMAL INSULATION

16.1.1 *Waterproof coating inside reservoir*

This item shall include but not be limited to:

Supplying, transporting, storing, protecting and placing multiple coats of waterproof material on all interior surfaces of the reservoirs. Work to include reservoir surface preparation, provision for ventilation, lighting, scaffolds, safety gear and all other necessary works for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

This item shall be measured in square meter and shall be the net area.

16.1.2 *WATERPROOFING AND THERMAL INSULATION FOR ROOF SLAB*

This item shall include but not be limited to:

Supplying, transporting, storing, roof surface preparation, protecting, placing binding layer and waterproofing membrane, thermal insulation boards with Kraft paper backing, sand layer, lean concrete and bitumen sealant, repairs in case of water proofing test failure and all other necessary works repairs in case of test failure for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

This item shall be measured in square meter and shall be the net area.

16.2 ITEM III.7 - PAINTWORK

This item shall include but not be limited to:

Provision for labor, material, transportation, equipment, storage and other necessary services for the execution of paint work including surface preparation, applying primer and finish paint coats, repairs, provision of scaffolding and safety implements and all other necessary works repairs in case of test failure for the proper execution of this item as shown on the drawings, required by the specifications and / or deemed necessary by the Supervisor.

This item shall be measured in square meter and shall be the actual surface area without including opening surfaces.