

NTL068 (Al- Qdis Health Centert in Al-Baghdadi)					
TECHNICAL SPECIFICATION AND BILL OF QUANTITIES					
Location	(33.8777470, 42.5298370)				
Notes:					
a) All the works and materials must be approved by the project engineer					
b) The contractor must employ a permanent resident engineer to be present at the project site during the execution period.					
c) All the materials shall be new and deemed to be of best available type in the local market and as approved by the project engineer.					
d) The contractor shall check all items and measurements given in the BoQ. All changes, additional quantities etc. require the written approval by the project engineer. A site					
e) Please, read all the documents carefully, then price it.					
NO.	ITEM	UNIT	QTY	Cost IQD/ Unit	Total cost IQD
1	Diesel Generator (150) kVA: Supplying, installing, connections, test of diesel engine generator as below size KVA prime Power), output 400/230 V, 3-phase, 4-wire, 50 Hz, 1500 RPM,intake air temperature of 50 °C at 0.8 power factor, full automatic (auoto run)with all mechanical and electrical connection by ATS and Control System, (Sound and weatherproof enclosure). the Price includes supplying, installing, test, connection and all connections of fuel pipes and exhaust, test and commission, necessary cutting, drilling and (cable termination with Cu lugs) to complete works as required also the spare parts include 1-Oil filter /10 No. 2-Fuel Filter/5 No. 3-Air filter /3No. All needed works to complete the job, shall be included within the price.	no.	1		
2	Aluminum Partitions: Supply of materials, tools and manpower required for the installation of aluminum partition (S55) (height as per engineer's instructions) including doors (1.0 x 2.0 m) and opening part. The work includes the use of square steel tube (4 cm x 4 cm x 2 mm) in two directions if the section area exceeds 2.5 m x 2.5 m. The price of the work includes door locks, handles, hinges and 4 mm frosted glass. The work includes removing the old plastic partitions and delivering them to the beneficiary. All works required to complete the task will be included in the price.	m²	110		
3	Drain pipes (roof Drain)(3.5 m): Supply of materials, tools and manpower to remove damaged water drain and install new PVC steel pipe 110 mm (4") with all connections and accessories to fix with the roof and wall. All needed works to complete the job should be included within the cost.	no.	12		
4	Cleaning sewerage System(150 m.I): Supply of materials, machine and manpower to clean the sewerage pipes net starting from the toilets, manholes to the main septic tank using high pressure air/water. The work includes replace the damaged manhole covers and others with new one. All needed work to complete the job will be included within the price.	L.S	1		
5	Repair Steel Windows (2*1.7): Supply of materials, tools and manpower to repair damaged steel windows. Including anti-insects wire mesh, hinges, handles, welding of damaged parts, cleaning the rust stains and removing the old paint before painting with two (2) layers of anti-rust and three (3) layers of oil paint, then providing clear glass of 4mm with new paste. All needed works to complete the job should be included within the cost..	no.	15		
6	Repair Main steel Gate (4*2) m: Supply of materials, tools, machineries and manpower to repair the damaged main steel door. Price of works shall include door lock, handles, hinges, oil painting, accessories, and repairing the door edges from both sides. All needed work to complete the job will be included within the price.	no.	1		
7	Repair steel doors : Supply of materials, tools, machineries and manpower to repair the damaged steel doors. Price of works shall include door lock, handles, hinges, oil painting with 3 layers and accessories. All needed work to complete the job will be included within the price.	no.	22		
8	Crystal clear glass 4mm: Supply of materials, tools and manpower to remove the damaged glass and paste and to install new crystal clear glass 4 mm with new paste, dumping of all debris to a site approved by local authorities. All needed work to complete the job will be included within the price.	m²	2		
9	Zebra curtain(2.3 *2) m: Supply and installation of window blinds (curtains) with everything necessary to complete the work, of good origin and quality, and according to the following measurements:	no.	22		
10	Suspended Ceiling(Plastic board) : Supply of materials, tools and manpower to install suspended ceiling 60x60 cm, 10mm thickness, by using necessary accessories L, T sections, hold down clips, galvanized steel rod 5mm (1.2x1.2m) for fixing with the ceiling by screws for WC. The price includes the removal of old damaged suspended ceiling, dumping of all debris to a site approved by local authorities, in case it is needed. All needed work to complete the job will be included within the price.	m²	50		

11	Ceramic Tiles for Window Floors: Supply of materials, tools and labor necessary for the installation of high quality ceramic tiles. The price includes all materials necessary for the installation of ceramic tiles using polymer reinforced cement mortar and all other materials necessary to complete the work. The work also includes the removal of damaged plaster, cleaning the place and re-repairing the edges after completion of the work. All work must be carried out in accordance with the instructions of the supervising engineer.	m ²	15		
12	Plastic painting (extrenal): Supply of materials, tools and manpower to paint the exterior walls and fence, with three layers of plastic (silicon water proof) paint. The job includes cleaning the walls, removing the dirt and dust, repairing all the cracks and filling all the holes before painting. All needed works to complete the job should be included within the cost.	m ²	1400		
13	Mixer taps: Supplying the materials, tools, and manpower necessary to install water mixers for washbasins, along with all valves, connection hose, and water drainage hoses. The price includes all materials to complete the work completely.	no.	10		
14	Ceramic wash basin: Supply of materials, tools and manpower to install ceramic wash basin with stand, mixer taps, valves, mirror(60x50)cm and all fittings with complete water connections. All needed work to complete the job will be included within the price	no.	3		
15	Western Toilet: Supply of materials, tools and manpower to remove the damaged eastern toilet bowl and install a new ceramic western toilet. Including siphon (drain tank), Ø100 mm (4 inch) drain trap, flexible hoses and water connections. All work required to complete the job will be included in the price.	no.	2		
16	Siphon (Flush Tank): Supply of materials, tools and manpower to install siphon, valves and all needed accessories for completing water connections. All needed works to complete the job should be included within the cost.	no.	8		
17	Taps 0.5 & 0.75 inch: Supply of materials, tools and manpower to connect chrome water taps. Price of the work shall include water connections. All needed work to complete the job will be included within the price.	no.	20		
18	Water tank (polyethylene) 1000 liters: Supply of materials, tools and manpower required for installation of polyethylene water tank. It has a cylindrical shape, including a connection to the inlet and outlet pipes. The work includes making a concrete or plastic base for the tank. The job price includes all pipes, fittings, valves, float valves and accessories. All work necessary to complete the job will be included in the price.	no.	4		
19	Water Pump 0.75 hp: Supplying materials , tools and manpower to install, connect and commissioning water pump of capacity(0.75 hp) with automatic booster switch including all required water pipe connections using 3/4 inch PPR pipe, electrical connections using 1.0kV grade 2x2.5 sq.mm and outdoor waterproof type, with socket switch, with providing galvanized protective metal frame cage to cover the pump & accessories and all other requirements to complete a good	no.	1		
20	Floor drain cover for water sink: Supplying materials, tools and manpower to remove the damaged floor drain and install a new drain measuring (15*15) cm with all connections and accessories to install it on the floor. All work necessary to complete the job must be included in the cost.	no.	6		
21	Electrical boiler 120 liter 3000 watt:: Supplying, installing , connect and commissioning of electrical waterBoiler120 liter, with electrical heater element 300 watt and power with complete fittings & accessories connecting with (2x4mm ²) PVC cable and 20A switch. The price includes supplying, installing, testing, commissioning with all accessories to complete work as required	no.	2		
22	Socket Switch(13A): Supplying & fixing of combine 13A, 5 pin universal switch-socket with shuttered & indicator outlet, on PVC molded tough surface box includes wiring/connecting with 1.0 kV grade 3*2.5mm ² PVC insulated copper cable/wires laid inside existing concealed PVC pipe and if required laid through new surface PVC pipe (20 mm dia) with all accessories. The price	no.	25		
23	Exhaust fan 6 inch: Supplying, Installation, testing and commissioning of exhaust fan with Aluminum louvers 220 volt A.C 1400 rpm with all accessories such as frame with arm 3 Nos. sweep 3 Nos., condenser and fan body etc., price includes connecting SP 1-way 6A switch with 1.0 kV grade 2x1.5 mm ² single core PVC insulated copper wire, passing through surface PVC conduit pipe, The price includes supplying, installing, connecting, laying and commissioning drilling, cutting to complete works as required.	no.	8		

24	Exhaust fan 12 inch: Supply, installation, testing and commissioning of false ceiling type exhaust fan, 220V AC, 1400rpm, with all accessories like frame, hose, dust suppressor, three-digit sweep arm, condenser, fan body, etc. Price includes SP delivery. One way 6A with single core PVC insulated copper wire 1.0kV 2 x 1.5mm ² , running through PVC surface duct pipes. The price includes supply, installation, delivery, commissioning, drilling and cutting to complete the works as required.	no.	8		
25	Ceiling Lighting 48 w: Supplying ,Installation, testing and commissioning of prewired ceiling LED fittings of all pendant type complete set, includes wiring/connecting with 1.0 kV grade 2*1.5mm ² PVC insulated copper cable/wires laid inside existing concealed PVC pipe and if required laid through new surface PVC pipe (20 mm dia) with 6 A switches with all accessories. The price includes supplying, installing, connecting, laying, drilling & cutting (concrete wall if required) and commissioning to complete works as required.	no.	50		
26	Maintenance of Sub Distribution Board (36 way): Perform rearranging and replacing the door of exist distribution boards(vertical or horizontal) and if required (damaged wires, MCB..etc) with all accessories. The price include supplying, replacing missing parts/items, installing ,laying, connecting, drilling, cutting, painting, fixing with all accessories to complete as required.	no.	3		
27	External Lighting36 w (Bulk head light): Supplying ,Installation, testing and commissioning of prewired LED water proof fittings of all pendant type complete set with 24W includes wiring/connecting with 1.0 kV grade 2*1.5mm ² PVC insulated copper cable/wires if required, with 6 A switches with all accessories. The price includes supplying, installing, connecting, laying, drilling & cutting (concrete wall if required) and commissioning to complete works as required. All needed works to complete the job shall be included within the price.	no.	20		
28	Projector LED Light 150 w: Supplying, Installing, connection ,and commission of LED light projector 230V, with drives (not less than IP66) and connecting wire 2*2.5mm ² 1.0kv for each projector in side PVC pipe with switches and junctions fixed with wall ,connect with existing source points and all accessories,The price includes supplying, installing, connecting, laying and commissioning drilling, cutting to complete works as required.	no.	10		
29	Ceiling Lighting 48 w: Supplying ,Installation, testing and commissioning of prewired ceiling LED fittings of all pendant type complete set, includes wiring/connecting with 1.0 kV grade 2*1.5mm ² PVC insulated copper cable/wires laid inside existing concealed PVC pipe and if required laid through new surface PVC pipe (20 mm dia) with 6 A switches with all accessories. The price includes supplying, installing, connecting, laying, drilling & cutting (concrete wall if required) and commissioning to complete works as required.	no.	10		
30	Split Unit Air-Conditioning inverter type (2 ton): Supply, install, connect, and commission wall mounted Split unit Air-conditioning inverter type (Cool & Heat) 2ton, (24,000 btu), Technical specification and Type of compressor T3, Type of refri. gas(R410a) includes wiring/connecting with 1.0 kV grade 3*4mm ² PVC isolated copper cable/wires laid inside existing concealed PVC pipe and if required laid through new surface PVC pipe (20 mm dia.) with 25 A switches with all accessories. The price includes supplying, installing, connecting, laying, drilling & cutting, and commissioning to complete works as required. All needed work to complete the job will be included within the price.	no.	4		
31	Split Unit Air-Conditioning inverter type (4 ton): Supply, install, connect, and commission wall mounted Split unit Air-conditioning inverter type (Cool & Heat) 4 ton, (48,000 btu), Technical specification and Type of compressor T3, Type of refri. gas(R410a) includes wiring/connecting with 1.0 kV grade 3*6 mm ² PVC isolated copper cable/wires laid inside existing concealed PVC pipe and if required laid through new surface PVC pipe (20 mm dia.) with 25 A switches with all accessories. The price includes supplying, installing, connecting, laying, drilling & cutting, and commissioning to complete works as required. All needed work to complete the job will be included within the price.	no.	2		
32	Air curtain (1.1 m): Preparing equipment, materials and manpower to install and inspect air curtain on entrance doors. The price includes connecting the electrical cable measuring 3 * 1.5 mm2, and connecting the control switch. air capacity 1650 m³/hr., silent operation, high efficiency, with all accessories required.	no.	2		

33	Main Distribution Board (3ph MDB): Supply, install and connect Main distribution board with metal stand consist of metal board box of (140cm x 100cmx 50cm) with IP66 outdoor boards, digital screens of Ammeter, voltage and frequency meters, signal lamps, bus bar, with all connection and installations items with all accessories. The Price includes supply, install, connect, and commission, necessary cutting, drilling, testing with all accessories to complete works as required. A- [(1No.)3 ph., kilowatt hour (kWh)meter, 400V, 200 A] B- [(1 No.) 250A, 3 Pole. MCCB type, breaking capacity 25KA, 415 volt A.C]. C- [(2 No.) 150A, 3Ph. MCCB type, breaking capacity 25KA, 415 volt A.C]. D- [(1 No.) 100A, 3Ph. MCCB type, breaking capacity 16KA, 415 volt A.C]. E- fire extinguisher. F- (4 strips) Copper Bus-Bar 80 cm length 500A, (for three phase lines and neutral) with separate earth strip, G- A 250 amp three-phase power Auto Change over device H- Signal lamps with current and voltage meters	no.	1		
Total Amount IQD					0