

STH088 BoQ of Abdullah Ibm Um Maktoom School/Thamarat Al-Mustaqbal School Rehab.					
	General Specification				
1	All works and the materials supplied by the contractor must be in according with the relevant Iraq's standard Specifications (It's the contractor responsibility to obtain any relevant Iraqi specifications by visiting ministry of construction and housing web site: www.moch.gov.iq (or physically obtain those documents from the mentioned ministry) in addition to Iraqi technical specification for building works.				
2	The contractor must provide samples, catalogues for testing / inspection and approval by the site engineer.				
3	Contractor must pay the cost for samples including any laboratory tests, both inside and outside the country as required.				
4	The price of works includes all job requirements as per Iraq's standard specification.				
5	The contractor must provide PPE for all laborer's, personnel, engineers and possible visitors to the site.				
#	Item Description	Unit	Quantity	Unit Price IQD	Amount IQD
1	Site preparation- light clean site: Supply of materials, tools, machineries and manpower for site preparation. The work includes : 1-Cleaning the site from light debris, scattered stones, undesired plants and other Organic materials, destroyed furniture, dust and soil on the floors. 2- Triming trees, Removing un-wanted shrups and grass. 3- The price include removing soil of 30 cm depth for an area of 700 m². 4- The price include relocating a 5000l tank and demolishing of the concrete base if required. 5-Dumping of all the rubble of cleaning site to a site approved by the local authorities. All needed work to complete the job will be included within the price.	m²	2600		0
2	Cement/Gypsum plastering (repair): Supply of materials, tools, and manpower to remove the damaged cement/Gypsum plastering of walls and plaster with cement mortar 1:3 and using SBR at a rate of 200gr per m² and afterward putting a layer of metal fence mesh type 10 cm at corners and where the concrete touches the brick overlap each side on the area with 3 layers of cement plastering 1:3. All needed works to complete the job should be included within the cost.	m²	300		0
3	Oil painting Internal (Classrooms, Corridors and Management Rooms): Supply of materials, tools and manpower to paint the exterior and interior walls with three layers of (oil 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, shall be included within the price.	m²	5300		0
4	Emulsion painting (External & Front Fence): Supply of materials, tools, and manpower to paint the exterior walls, with 3 layers of emulsion paint. The job includes cleaning the walls and ceilings, 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 price. The price include crack repair.	m²	2600		0
5	Repair Steel Windows: 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..	m²	150		0
6	Curtains (Zebra Type) Supply and install windows blinds (curtains) with all needed to complete work from good origin and good type.	m²	180		0
7	Lighting (Internal) for Classrooms and Corridors Supplying, Installation, testing and commissioning of 40W Low Voltage LED. The price includes wiring/connecting with 1.0 kV grade 2*1.5mm² PVC insulated copper cable/wires if required with all accessories. The price includes supplying, installing, connecting, laying, drilling & cutting (concrete wall if required) and commissioning to complete works as required. The price also include supply and install light switch. All needed works to complete the job, shall be included within the price.	No.	175		0
8	Ceiling fan: Supplying, installing, test and commission of ceiling fan (240 volt A.C 1400 rpm,1400mm sweep with 56"), down rod of standard length unto 300mm with accessories such as down rod, sweep 3 Nos., canopy 2 Nos., condenser, fan body and fan regulator includes wiring with (2x1.5mm²) 1.0kV grade , PVC insulated copper cable/wires laid inside existing concealed PVC pipe and if required laid through new surface PVC pipe (20 mm dia) wherever not possible with all accessories. The price includes supplying, installing, connecting, laying, drilling & cutting (concrete wall if required) and commissioning to complete works as required. The price include fixing the fans to the concrete slab of the room	no.	30		0
9	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*2.5mm² 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 includes supplying, installing, connecting, laying, drilling & cutting (concrete wall if required) and commissioning to complete works as required.	no.	40		0
10	Repair steel doors (2.3*1m): Supply of materials, tools, machineries and manpower to repair the damaged steel doors. Price of works shall include door lock, handles, hinges, oil painting and accessories. The price also include painting with two layers of anti rust and two layers of oil paint. All needed work to complete the job will be included within the price.	No.	20		0
11	Repair steel doors (2.3*2m): Supply of materials, tools, machineries and manpower to repair the damaged steel doors. Price of works shall include door lock, handles, hinges, oil painting and accessories. The price also include painting with two layers of anti rust and two layers of oil paint. All needed work to complete the job will be included within the price.	No.	1		0
12	Steel Plate for a Burglar Supply material tools and manpower to install aluminum plates for an existing burglar. The price include all accessories necessary to complete th work as per the instructions of the supervising engineer.	m²	40		0
13	Maintenance of Electric Subboards Supply materials tools and manpower to arrange the sub-board and replacing damaged MCB's and supply a cover for the board. The price include all accessories to complete the work as per the instruction of the supervising engineer.	No,	2		0
Student WC for Two Schools					
14	Remove Deteriorated Floor and Wall Ceramic and General Cleaning for (WC) Area is 100 m² Supply of materials, tools, and manpower to remove old floor, washing basin, old water pipes, sewage pipes toilet, removing wall ceramic and any other cleaning required to prepare the WC for the rehabilitation. Debris must be dumped in places approved by MoH and Authorities to prevent polluting the environment. The price also includes washing the external surfaces using water jet and clean water. All works should be done according to the instructions of the supervising engineer.	LS	1		0
15	Flooring for (WC) Supply of materials, tools, and manpower to install ceramic. The price includes all the material needed to install the ceramic using polymer enhanced cementitious mortar and all other material necessary to have the work complete. The price include the casting a 10 cm concrete as a bed for flooring if needed.All works should be done according to the instructions of the supervising engineer. The price price include all work and material to install 3 drains and connect them to the seware line using 4" pipes with all attached accessories and gullies. The price also include sloping the floor to drain water	m²	100		0
16	Cement plastering: Supply of materials, tools, and manpower to remove the damaged cement/Gypsum plastering of walls and plaster with cement mortar 1:3 and using SBR at a rate of 200gr per m² and afterward putting a layer of metal fence mesh type 10 cm at corners and where the concrete touches the brick overlap each side on the area with 3 layers of cement plastering 1:3. All needed works to complete the job should be included within the cost.	m²	265		0
17	Oil Painting: Supply of materials, tools and manpower to paint the exterior and interior walls with three layers of (oil 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, shall be included within the price.	m²	265		0

18	Eastern Toilet Supply of materials, tools and manpower to install new ceramic eastern toilet. Including siphon(flush tank), gully trap Ø100mm (4"), flexible hose and water connections. All needed work to complete the job will be included within the price. The price includes all the material needed to install the Toilet using polymer enhanced cementitious mortar. The price also includes sanitary/sewer works necessary to connect it to the main sewage network. All work should be done according to the instructions of the supervising engineer.	No.	10		0
19	Western toilet: Supply of materials, tools and manpower to remove the damaged western toilet pan if any and to install new ceramic western toilet with siphon. Including siphon(flush tank), gully trap Ø100mm (4"), flexible hose and water connections. All needed work to complete the job will be included within the price.he price include all the material needed to install the toilet using polymer enhanced cementitious mortar. The price also includes sanitary/sewer works necessary to connect it to the main sewage network. All work should be done according to the instructions of the supervising engineer.	No.	2		0
20	Emulsion painting (External): Supply of materials, tools, and manpower to paint the exterior walls, with 3 layers of emulsion paint. The job includes cleaning the walls and ceilings, 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 price.	m²	360		0
21	Bidet Sprayer Toilet with water Tap Supply material, manpower and tools to install Bidet sprayer in the toilet and all other accessories. The price includes supplying of material, tools and manpower for all necessary plumbing to connect it the main water source to have it fully functional. All works should be done according to the instructions of the supervising engineer.	No.	12		0
22	Lighting (Internal) Supplying, Installation, testing and commissioning of 40W Low Voltage LED. The price includes wiring/connecting with 1.0 kV grade 2*1.5mm² PVC insulated copper cable/wires if required with all accessories. The price includes supplying, installing, connecting, laying, drilling & cutting (concrete wall if required) and commissioning to complete works as required. The price also include supply and install light switch. All needed works to complete the job, shall be included within the price.	No.	30		0
23	Lighting (External) Supplying, Installation, testing and commissioning of 40W Low Voltage LED. The price includes wiring/connecting with 1.0 kV grade 2*1.5mm² PVC insulated copper cable/wires if required with all accessories. The price includes supplying, installing, connecting, laying, drilling & cutting (concrete wall if required) and commissioning to complete works as required. The price also include supply and install light switch. All needed works to complete the job, shall be included within the price.	No.	4		0
24	Exhaust Fans for (WC) Supply and install exhaust fan of 10 inches size. The work includes all necessary ducting work with connecting wire 2*1.5mm², with 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. All works should be done according to the instructions of the supervising engineer.	No.	12		0
25	Water Heater Supplying, installing, connect and commissioning of electrical heater with the below capacity of 150 l , and power of 1800 watt with complete fittings & accessories connecting with (2x4mm²) PVC cable and 20A switch. The price includes supplying, installing, testing, commissioning with all accessories to complete work as required. The price include installing RCCB for the water heater	No.	1		0
26	PVC door with frame (1x2.2)m: Supply of materials, tools and manpower to install PVC doors with frame. The PVC section should be wide section. The lower 1.0m portion of the door to be covered by PVC sheets and the upper portion will be covered by frosted glass 6mm. The price includes hinges, handles, locks and frosted glass (6mm). All needed works to complete the job should be included within the cost.	No.	14		0
27	Water Pump 1hp: Supplying materials, tools and manpower to install, connect and commissioning water pump of capacity 1 hp (with suitable discharge and head), including all required water connections using PVC pipe, electrical connections using outdoor waterproof type socket switch, with providing galvanized protective metal frame cage to cover the pump & accessories and all other requirements to complete a good work. The price include installing RCCB for the water pump.	No.	1		0
28	Connection to Electricity Source Supplying ,Installation, testing and commissioning of electric connection using wire of 2*4mm² to supply electricity to the WC. The price includes supplying, installing, connecting, laying, drilling & cutting (concrete wall if required) and commissioning to complete works as required. The price also include supply and install circuit breaker of 15 amp capacity. All needed works to complete the job, shall be included within the price.	m.l	60		0
29	Windows Glass Installation Supply of materials, tools, and manpower to install glass for windows with 6mm clear and transpernt type. The price includes connecting, laying, drilling & cutting to complete work as required. The price also include fixing paste and all other accessories to have the work complete. The price include removing the old windows and painting the frames using oil paint. All works should be done according to the instructions of the supervising engineer.	m²	4		0
30	Ceramic for External and Internal Wash Basin Supply of materials, tools, and manpower to install high quality ceramic . The price include all the material needed to install the mosaic using polymere enhanced cementitious mortor and all other material necessary to have the work complete. All works should be done according to the instructions of the supervising engineer. The price price include all work and material to install 6 drains and connect them to the seware line using 3" pipes with all attached accessories	m²	100		0
31	sewage pipes: Supply of materials, machine and manpower to install new sewerage pipes net starting from the toilets, manholes to the main septic tank or the seware network. The work includes using 6" pipes and replace the damaged manhole covers and others with new one. The price also include all digging, backfilling and casting concrete. The price iclude casting concrete for the walkway. All needed work to complete the job will be included within the price.	m.l	35		0
32	Manholes: Supply and install Plastic Manholes of various diameters and to any depth,durable type of plastic (Polypropylene) that is resistant to oils and chemical substances. plastic manholes have a solid structure with input and output connections on all four sides. Price to include excavation, backfilling, benching, rubber gasket at inlets and outlets, installation plastic cover. All needed work to complete the job will be included within the price.				0
	40x40 cm	no.	12		0
33	Mixer taps: Supply of materials, tools and manpower to install mixer taps and all needed material and accessories for completing water connections to the tanks and water heater. All needed works to complete the job should be included within the cost.	no.	22		0
34	Water tank (Polyethylene) 1 Cubic Meter: Supply of materials, tools and manpower for installing polyethylene water tank. with cylindrical shape, and including the connection of the inlet and outlet pipes. The price of work includes all piping and fittings, valves, float valves, accessories The price include the piping to toilet and piping from water source to the tanks. The price also include fixing, welding, repairing and painting the existing steel base for the tanks or constructing new steel base of 4 m height The price also include the concrete foundation for the steel structure. All needed work to complete the job will be included within the price. The price include using steel plate as base for the water tanks and above that supply and install pvc base for tanks (Qty:4)	No.	2		0
35	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*2.5mm² 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 includes supplying, installing, connecting, laying, drilling & cutting (concrete wall if required) and commissioning to complete works as required.	no.	4		0
Teachers WC					
36	Cement plastering: Supply of materials, tools, and manpower to remove the damaged cement/Gypsum plastering of walls and plaster with cement mortar 1:3 and using SBR at a rate of 200gr per m² and afterward putting a layer of metal fence mesh type 10 cm at corners and where the concrete touches the brick overlap each side on the area with 3 layers of cement plastering 1:3. All needed works to complete the job should be included within the cost.	m²	40		0

37	Oil Painting: Supply of materials, tools and manpower to paint the exterior and interior walls with three layers of (oil 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, shall be included within the price.	m²	40		0
38	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.	2		0
39	Water tank (Polyethylene) 1 Cubic Meter: Supply of materials, tools and manpower for installing polyethylene water tank. with cylindrical shape, and including the connection of the inlet and outlet pipes. The price of work includes all piping and fittings, valves, float valves, accessories The price include the piping to toilet and piping from water source to the tanks. The price also include fixing, welding, repairing and painting the existing steel base for the tanks or constructing new steel base of 4 m height The price also include the concrete foundation for the steel structure. All needed work to complete the job will be included within the price. The price include using steel plate as base for the water tanks and above that supply and install pvc base for tanks (Qty:4)	No.	1		0
40	Bidet Sprayer Toilet with water Tap Supply material, manpower and tools to install Bidet sprayer in the toilet and all other accessories. The price includes supplying of material, tools and manpower for all necessary plumbing to connect it the main water source to have it fully functional. All works should be done according to the instructions of the supervising engineer.	No.	2		0
41	Lighting (Internal) Supplying, Installation, testing and commissioning of 40W Low Voltage LED. The price includes wiring/connecting with 1.0 kV grade 2*1.5mm² PVC insulated copper cable/wires if required with all accessories. The price includes supplying, installing, connecting, laying, drilling & cutting (concrete wall if required) and commissioning to complete works as required. The price also include supply and install light switch. All needed works to complete the job, shall be included within the price.	No.	4		0
42	Repair Wooden Doors and Frames: Supply materials, tools, and manpower to maintenance of wooden door with the frames, including work remove the damage layers of Saj, with looks, and hang, and adding new layers, with skimming the old paint, smoothing, and painting with wood paint three layers and all that is needed.	no.	3		0
43	Water Pump 1hp: Supplying materials, tools and manpower to install, connect and commissioning water pump of capacity 1 hp (with suitable discharge and head), including all required water connections using PVC pipe, electrical connections using outdoor waterproof type socket switch, with providing galvanized protective metal frame cage to cover the pump & accessories and all other requirements to complete a good work. The price include installing RCCB for the water pump.	No.	1		0
44	Water Heater Supplying, installing, connect and commissioning of electrical heater with the below capacity of 150 l , and power of 1800 watt with complete fittings & accessories connecting with (2x4mm²) PVC cable and 20A switch. The price includes supplying, installing, testing, commissioning with all accessories to complete work as required. The price include installing RCCB for the water heater	No.	1		0
45	Exhaust Fans for (WC) Supply and install exhaust fan of 10 inches size. The work includes all necessary ducting work with connecting wire 2*1.5mm², with 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. All works should be done according to the instructions of the supervising engineer.	No.	4		0
46	Maintenance of sewage pipes: Supply of materials, machine and manpower to clean the sewerage pipes net starting from the toilets, manholes to the main septic tank or to the sewage network using high pressure air/water. The work includes replace the damaged manhole covers and others with new one. The price also include replacing the the piping if damaged with all digging, backfilling and casting concrete. All needed work to complete the job will be included within the price.	m.l	15		0
Split Unit and Electric Board					
47	Main Distribution Board (3ph MDB): Supply, install and connect Main distribution board with metal stand consist of metal board box of (100cm x 600cmx 40cm) 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- [(1 No.) 300A, 3 Pole. MCCB type, breaking capacity 25KA, 415 volt A.C]. B- [(30 No.) 63A, 1 Pole. MCB type, miniature circuit breaker 16KA, 415 volt A.C]. C- [(4 No.) 16A, 1 Pole. MCB type, miniature circuit breaker 16KA, 415 volt A.C]. D- [(3 No.) CT - 200 amp Metering Class Current Transformers E- fire extinguisher. F- (4 strips) Copper Bus-Bar 80 cm length 500A, (for three phase lines and neutral) with separate earth strip,	No.	1		0
48	Split Unit Air-Conditioning : Supply, install, connect and commission wall mounted Split unit Air-conditioning inverter type (Cool & Heat) (2)ton 24000BTU, Technical specification and Type of compressor T3, Type of refri. gas(R410a) includes wiring/connecting with 1.0 kV grade 3*6mm² 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. The wiring for the split units should be through safe cable trays or trunks.	No.	22		0
Garden					
49	Soil Supply Supply of materials, tools, and manpower to supply and laying sandy soil "known locally رملج" of 25 cm depth. The price includes leveling the ground to prevent rain water from accumulating in the park.	m³	175		0
50	Pre-germinated grass: Grass type, including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing including supplying good earth if needed. All needed work to complete the job will be included within the price. Grass shall be planted using ready grown rolled strips of grass laid on the soil with all necessary preparing and fertilizing.	m²	700		0
51	Sprinkles System (USA origion or equal) for irrigation system: Supply of materials, tools and manpower for installing sprinkles system. The price include the pump(with suitable discharge and head to cover the irrigation system by water, the price include connecting to the electricity source with circut breaker), Piping, Valves, Valves Covering Boxes, Sprinkles, The Piping from water source, and fittings, accessories. The price includes connecting the system to the main water source All needed work to complete the job will be included within the price.	m²	700		0
52	Planting Tree: Supply and plant trees (according to the below types) according to approved locations inside the garden by the engineer with a minimum (clear trunk height 2 m without leaves and root), Price includes excavation a hole of (2x2x1.2 m, the hole require jagging concrete floor of 20 cm thickness) filling it agricultural soil, support and mulch wherever needed according to design drawing and engineers instruction.				0
52a	Acacia trees, 3m length, 3 years old	No.	10		0
52b	Washingtonia, 1.5-2m hight, 3 years old	No.	5		0
53	Water tank (Polyethlene) 5000 Litre : Supply of materials, tools and manpower for installing polyethylene water tank. with cylindrical shape, and including the connection of the inlet and outlet pipes. The price of work includes all piping and fittings, valves, float valves, accessories. All needed work to complete the job will be included within the price. The price include concrete base of 20 cm thinkness and the dimenssion is 30 cm larger than the dimensions of the tank. (one layers of BRC of 6 mm dia, (15 X 15 cm) compressive strength for conc cubes is 30 at 28 day).	No.	1		0
54	Fill-in Water Pump 2hp: Supplying materials, tools and manpower to install, connect and commissioning water pump of capacity 2hp (with suitable discharge and head), including all required water connections using PVC pipe, electrical connections using outdoor waterproof type socket switch, with providing galvanized protective metal frame cage to cover the pump & accessories and all other requirements to complete a good work.	No.	1		0
55	Trash Basket : supply and install trash basket with 60-80l with all requirement the location for each one according the instructions.	No.	4		0

56	Wooden Garden Bench: Supply materials, tools and labors to installation of a sitting bench, (16 rectangular+4 circular) the model, design and distribution as direction by the supervising authority with all installation requirements. The price include concrete base for the banches All the needed works to complete the job shall be included within the price.	No.	4		0
57	Walkways Interlock tiles: Supply and provide all materials, tools and machines to install interlock tiles; through compacting of ground by applying sub-base when necessary and with required thickness according to supervisor engineer (5-20 cm), and providing crashed gravel (بحص) or sand as per the instruction of the supervising engineer. under the tiles with thickness not less than (10cm)), then applying layer of interlock tiles (5cm), with cement-sand mortar (1:3), with locking the path from both side with reinforced concrete (BRC-6mm) (10x30cm, ratio 1:3), and all required work, considering required elevations and necessary slope according to supervising engineer.	m²	110		0
Total IQD					0