

NTL071 (Baghdadi Kindergarten)					
TECHNICAL SPECIFICATION AND BILL OF QUANTITIES					
Location		(33.8820090, 42.5245230)			
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 assessment by the contractor is mandatory.					
e) Please, read all the documents carefully, then price it.					
NO.	ITEM	UNIT	QTY	Cost IQD/ Unit	Total cost IQD
1	Site preparation (600 m²): Supply of materials, tools, machinery, and manpower to clean, grub, and strip the site of the project. The work includes removing all debris and waste materials inside the site, cleaning, grubbing and levelling the areas around the site. All needed works to complete the job should be included within the cost.	L.S.	1		0
2	Rubber Floor Tile: Supplying materials, tools and any necessary equipment and covering for the concrete floor under children playground slides with rubber tiles heat resistant from 40 - 100 °C and water resistant thickness not less than 2cm and dimensions of 100 cm* 100 cm. All needed works to complete the job will be included within the price.	m²	150		0
3	Fence Masonry works (hollow concrete blocks): Supply of materials, tools and manpower for building walls, by using hollow concrete blocks 20x20x40cm, with using cement mortar (1:3) mix ratio. The wall should be leveled vertically and horizontally. The cost of the work shall include all the requirements to complete the job.	m³	20		0
4	New Cement Plastering : Supply of materials, tools and manpower for cement plastering with 20mm thickness smooth-finished for walls and roof using aluminum straight edges. The price includes three layers as follows: one layer of cement splash dash, one layer of rough (kafmal) and finally	m²	150		0
5	Polishing of Lime stone (Hillan) : Supply of materials, tools and manpower for polishing the lime stone (hillan) & Marble, including filling all the cracks, joints and holes of the lime stone & Marble with white cement paste and apply a layer of varnish . All needed works to complete the job will be included within the price.	m²	120		0
6	PVC Doors with Frame (2.1 * 1) m: Supply of materials, tools and manpower to install PVC doors with frame. The PVC section should be wide section (Min. 60mm). Price of the work shall include removing the damaged doors and hinges, handles, locks and repairing the door edges from both sides . All needed works to complete the job, will be included within the price	no.	2		0
7	Repair steel doors (2.1 * 0.8 m): 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.	4		0
8	Repair Wooden Doors and Frames (2.1 *1)m: 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.	4		0
9	Repair Main steel Gate (3.5 *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		0
10	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.	m²	500		0
11	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		0

12	Repair Steel Windows (2.1 * 1.2) m: 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.	6		0
13	Western toilet: Supply of materials, tools and manpower to remove the damaged western toilet pan and to install new ceramic western toilet. Including siphon(flush tank), gully trap Ø100mm (4"), flexible hose and water connections. the work include remove the old one. All needed work to complete the job will be included within the price.	no.	2		0
14	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 work	no.	1		0
15	Sewer system cleaning 25 ml: Prepare equipment and workers to clean all sewer pipes, open blockages for all system of school , including digging, and replace flooring if necessary.	L.S.	1		0
16	Main water supply PPR pipeline: Supply of materials, tools and manpower remove the damaged main supply water pipeline and installing new PPR water pipeline as diameter 1" (25.4mm). Including excavation (W30xDepth 30cm), pipe fittings, demolishing, concrete works, cement plastering, all required connections, accessories, pressure test applied as 5 bar for 6 hours for the whole pipe, connections between the tanks on the roof, concreting 10 cm around the pipes and backfilling. All needed works to complete the job will be included within the price	m.l	40		0
17	PPR Pipes 25 mm: Preparing the equipment, materials and manpower to establish the water network from the tank to all outlets using PPR pipes, and from main pipe to water pump then th water tank .including the price of all valves, mounting clamp, accessories and everything required to complete the work completely.	m.l	60		0
18	Floor Drain: Supply of materials, tools and manpower to remove damaged floor drain and install a new 100mm (4") new one with all connections and accessories to attach it to the floor. All work necessary to complete the job must be included in the cost.	no.	3		0
19	Drain pipes (roof Drain) 4m : Supply of materials, tools and manpower to remove damaged water drain and install new PVC pipe 100mm (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.	6		0
20	Water tank (Polyethylene) 1000 liter: Supply of materials, tools and manpower for installing polyethylene water tank. with cylindrical shape, and including the connection of the inlet and outlet pipes.with plastic base . 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.	no.	2		0
21	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.	4		0
22	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.	8		0
23	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
24	Mixer Taps: Providing the materials, tools and manpower necessary to install water taps and all accessories necessary to complete the water connections. Including hoses, drain hoses and water valves. All work necessary to complete the job must be included in the cost.	no.	3		0
25	Maintenance of Sub Distribution Board 12 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.		1		0

26	LV Power Cable (4*10 mm2): Supply, install, test and lay 1.0 kV grade PVC insulated sheath-un-Armored copper cable. laid in side PVC pipe , The price includes supplying, installing, connecting, laying, drilling & cutting (concrete wall if required) and commissioning include (cable termination with Cu lugs at both end) to complete works as required.	m.l	40		0
27	Main Distribution Board (3ph MDB): Supply, install and connect Main distribution board with metal stand consist of metal board box of (80cm x 60cmx 30cm) 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.) 100A, 3 Pole. MCCB type, breaking capacity 25KA, 415 volt A.C]. C- fire extinguisher. D- Signal lamps with current and voltage meters	no.	1		0
28	Electric bell: Supplying and replacing of electrical call bell 1 ph/5W includes rewiring/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 door bell switch with all accessories. The price includes supplying,replacing,connecting,laying, drilling & cutting (concrete wall if required) and commissioning to complete works as	no.	1		0
29	Exhaust fan 12 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.	2		0
30	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.	6		0
31	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 includes supplying, installing, connecting, laying, drilling & cutting (concrete wall if required) and commissioning to complete works as required.	no.	8		0
32	External Lighting ((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.	10		0
33	Ceiling Lighting 24w: 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.	60		0
34	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 (2x1.5mm ²) 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.	no.	3		0

35	Electrical boiler 80 liter 2000 watt:: Supplying, installing , connect and commissioning of electrical heater with the below capacity, and power 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	no.	2		0
36	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*4mm² 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		0
37	Split Unit Air-Conditioning inverter type (1.5 ton): Supply, install, connect, and commission wall mounted Split unit Air-conditioning inverter type (Cool & Heat)1.5 ton, (18,000 btu), Technical specification and Type of compressor T3, Type of refri. gas(R410a) includes wiring/connecting with 1.0 kV grade 3*4mm² 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.	1		0
38	Kitchen sink: Supply, installation and operation of a stainless kitchen sink, size 50 cm*60 cm, equipped with a chrome-plated mixer for kitchen sinks. It is installed on an aluminum counter with dimensions of 120 * 90 * 60 cm and contains doors, drawers and everything the work requires to complete it perfectly.	no.	1		0
39	Zebra curtain (1.8 *2)m: Supply and installation of window blinds (curtains) with everything necessary to complete the work, of good origin and quality.	no.	5		0
40	Steel Wheel Waste Bins 770 Liter: Preparing and installing a large waste container made of galvanized iron, mounted on wheels, equipped with a movable cover, and all its accessories	no.	1		0
Total Amount IQD					0