

NTL069-BOQ Rehabilitation of Al-Zahraa Park in Al-Zahraa Neighborhood- Mosul				
	Coordinates	36.386889 N	43.209278 E	
	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	Qty	Total IQD
	Civil Work for The Park			
1	Site preparation- for Garden of Park 5400 m² Supply of materials, tools, machineries and manpower for site preparation. The work includes : 1-Pruning and cutting branches from high trees, then excavation the garden soil to a depth of 10 cm and removing all harmful weeds.2-Removing all waste from the septic tank and storage tank well water and all the waste from stones and light rubble inside the park,remove old steel frame for old swimming pool. 3-Demolishing the old guard room(dimensions 4 x3.3 x 3 m) and old toilets(4 x 1.2 x3 m) and removing all debris from the walls, ceiling and foundation completely.4-The work includes backfilling the concrete water tank underground using clean excavation soil.5-Removing part of the old walkways, approximately 60 m ² , to be replaced with garden soil later. 6-Excavation and remove the soil under New Guard room Caravan+ new Administration room Caravan to depth 45 cm from top of soil.7-Excavation and remove the soil under new W.C Uints + Store room to depth 85 cm. 7-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."	L.S	1	0
2	New-construction Wall by (solid concrete blocks) Increase the hight of the fence: Supply of materials, tools and manpower for building walls, by using solid concrete blocks 15x20x40cm with width 20cm and for columns 40 x40 cm, with 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.	m ³	54	0
3	New Cement Plastering for new solid blocks in fence : Supply of materials, tools and manpower for cement plastering with 20mm thickness smooth-finished for walls and fences walls using aluminum straight edges. The price includes three layers as follows: one layer of cement splash dash, one layer of rough (kafmal) and finally smooth finished cement plastering with cement-sand mortar. All needed works to complete the job will be included within the price.	m ²	550	0

4	Cement Plastering without crack repairing for old solid blocks of fence: Supply of materials, tools and manpower to remove the damaged cement plastering from the exterior or internal walls and fences and apply new layer of cement plastering (20 mm thickness) using cement and sand mortar (1:3) and using aluminum straight edges. Also include removing all the rubble to a site approved by local authorities. All needed work to complete the job will be included within the price.	m ²	330		0
5	Masonry works (Koben limestone) for covering fence: Supply materials, tools, and the manpower to the work of wrapping the upper face of the fence and columns with a smooth Kubin limestone thickness (5) cm and a width (30) cm for wall of fence and 50 cm for columns of fence rounded from both sides of a good type of clean and free of rust stains (stone pulp), including the price mortar cement and sand and stabilizers for stone (staph) and sutures with cement white and (Ghubrah) (1:1) and fill the joints and all required work and technical specifications and remove the damaged old koben limestone parts with the mortar and as directed by the supervising engineer.	m.l	410		0
6	Crown of column from limestone (Hillan) for columns of fence: Supplying materials and tools and doing packaging work from the top side of the columns with a cup in the form of a crown using the smooth limestone thickness (10) cm with dimensions (70 × 80) cm from the bottom, then working in it in the form of crumbs so that its dimensions from the top (80 × 90) cm and Of good quality, clean and free from rust stains (stone pulp), including price, cement mortar, sand, stone-fixing material (staph), seams with white cement mortar and (Ghubrah) (1:1), filling joints and everything required by work and technical specifications and directed by the supervising engineer.	no.	56		0
7	Plastic painting (extrenal) for fence: 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	1100		0
8	Repair old steel Handrail up hight (52 piece with dimensions L 5m xH 1.2m) : Supply of materials, tools, machineries and manpower to repair the damaged Handrail.the work include Re-fixing the steel handrail on new level of fence. Price of works shall include oil painting and accessories. All needed work to complete the job will be included within the price..	m.l	261		0

9	Backfilling works under stamp concrete 150 m²(For added walkways location) + 27 m² to increase the space for Children's games : Supply of materials, tools, machinery, and manpower for backfilling, by using subbase materials from natural sources free from clay, silt, or any or organic materials. Backfilling material shall be applied on layers of 25 cm thickness, watered, and compacted to min 95% of MDD (Maximum density dryer).the work include cut surface soil about 15 cm from top. All needed works to complete the job should be included within the cost. All needed works to complete the job should be included within the cost.	m ³	60		0
10	Concrete with BRC under Rubber Floor Tile :- Supply of materials, tools and manpower for casting (10cm) with a layer of BRC(200x200x5mm) concrete (C25MPa) using sulphate resistance cement to cast under Rubber Floor Tile. The price includes adding bonding agent material between the old and new concrete(if any). The work includes all the requirements of concrete covers and formworks.NOTE: the final layer of the floor should be smooth by using a helicopter concrete finishing, also using the cutter to have a joint. All needed works to complete the job will be included within the price.	m ²	190		0
11	Stamp Concrete: Supply of materials, tools, machineries and manpower to cast colored stamp concrete(C25MPa) thicknees10cm with a layer of BRC(200x200x5mm) for the walkways.the stamp concrete will be apply on old walkways with exist part apply on new backfilling near main gate (5x3m). The work includes all the requirements, concrete covers, formworks , leveling and concrete curing.Using steel bars Ø10 mm ,length 15 cm hammering in old concrete no.2@1m from length connect with New BRC ,Then using SBR to bond between old and new concrete before casting.the work include construction ramps for people with disabilities according instructions of supervising engineer. All needed works to complete the job will be included within the price.NOTE: using the cutter to have a joint.	m ²	1050		0
12	Water Pump 1.5 hp: Supplying materials , tools and manpower to install, connect and commissioning water pump of capacity(1.5 hp) 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.	2		0

13	Water tank: Supply of materials, tools and manpower for installing plastic water tank of 5000 liters. Cylindrical shape, supported by solid concrete blocks base with height 0.5 m , including the connection of the inlet and outlet pipes. The price of work includes all piping and fittings, valves, float valves, accessories. The work include installing sun shed for steel frame using steel tube 100x 50 x2 mm (columns and beam) for purline using steel tube 50 x50 x2 mm @ 80 cm C/C, for ceiling using Corrugated metal sheet thickness 0.5mm, the water tanks covered by scorrugated sheet from 2-side All needed work to complete the job will be included within the price.	no.	3		0
14	Cover of manhole: Supply of materials, tools and manpower to install of cast iron manhole cover of (60x60)cm. All needed works to complete the job should be included within the cost.	no.	3		0
15	Main Gate (3x2.5m): Supply materials, tools and manpower to remove the damaged main gate door and install new main gate steel door of dimensions (3x2.5m), consisting on 2 leaves. By using steel pipe 40x40x3mm as design of engineer with out covering by steel plate. Including door handles, hinges, locks, stopper, cleaning the steel surface from rust and dust before painting by using two (2) layers of anti-rust paint and three (3) layers of oil paint. All needed works to complete the job will be included within the price.	no.	2		0
16	Main Gate (5x2.5m): Supply materials, tools and manpower to remove the damaged main gate door and install new main gate steel door of dimensions (5x2.5m), consisting on 2 leaves. By using steel pipe 40x40x3mm as design of engineer with out covering by steel plate. Including door handles, hinges, locks, stopper, cleaning the steel surface from rust and dust before painting by using two (2) layers of anti-rust paint and three (3) layers of oil paint. All needed works to complete the job will be included within the price.	no.	1		0

17	Main Distribution Board: Supply, install and connect Main distribution board with metal stand consist of metal board box of (60*80) cm dimension, digital screens of Ammeter, voltage and frequency meters, 3 signal lamps,3 bus bar of 100 Amp capacity for each one 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.) 3ph, kilowatt hour (kWh) meter ,Three-phase four-wire 3×220V/380V , 3×100 A] B- [(1NO.) 250A, 3Ph. MCCB type electronic release of breaking capacity 25 kA.] C- [(2 No.) 3ph 40 A , MCCB Type .] D- [(1 NO.) 3ph 20 A, MCB type] E - [(1 No.) selector switch] F - [(2 No.) Outlet Socket (13 Amp)] G-Photo Cell, magnetic contactor,(1No RCCB)2x16A ,1No 3*20 A	NO.	1		0
18	High Lighting Poles: Supply, install, connect and commission of high galvanized lighting poles 9m,With a mounting board on top of the column to fix the lighting units on it.supply and install 4-Lighting LED 400W waterproof type IP66 with 4- Photocells 5A then connect the lighting by Using cable 4*4mm2 into resistance pvc pipe from M.D.B to top of tower.Grounding of the column with a copper rod 16 mm ² and length 1.0 m with (1*2.5mm ²) wire.The work includes Excavation, casting the column base with concrete and reinforcement,using base plate and Anchor bolts type hook for fixing the column.All the needed works to complete the job shall be included within the price.	no.	4		0
19	Cable 4x16mm²: Supply, lay and connect Unarmored cable of (4x16) mm ² of low tension type from the national electricity power line to the main distribution board, and the main Source with all accessories . The price includes supplying, installing, connecting, laying and commissioning drilling, cutting to complete works as required	m.l	30		0
20	Playgrounds slids for children: Supplying and installing a Playgrounds slids for children placed in parks Dimension 1000*670*570 cm with specification :Game Name-High Quality Multi-Function Custom Design Children Play Amusement, Outdoor type.Allowable Passenger(5-10).Age 3-12 Years ,Function -Suitable for Slide, Swing, Obstacle, Climbing Sliding and So on.Strong plastic handrail with all the requirements to protect children while playing. All the needed works to complete the job shall be included within the price. See attached drawings.	no.	1		0

21	children's jumping toys: Supplying and installing good quality children's jumping toys that placed in garden, approve on the samples according to supervisor engineer. All the needed works to complete the job shall be included within the price.	no.	1		0
22	Triple Steel metal swings: Supplying and installing a triple swings, with dimensions 323 x 205x 200cm. The 3 Swing Set includes adjustable ropes and plastic seats that will In addition to the structure.	no.	2		0
23	Outdoor Gym Equipment for Children: Supplying and installing a Outdoor Gym Equipment for Children. All the needed works to complete the job shall be included within the price.	no.	2		0
24	Wooden Garden Bench : Supply materials, tools and labors to installation of a sitting bench the model, design and distribution as direction by the supervising authority with all installation requirements. All the needed works to complete the job shall be included within the price.	no.	50		0
25	Trash Basket: Supply and install new waste bin, 60l size and the models according to the needed.	no.	25		0
26	Polygonal shape from colored stones Supply materials, tools and labors to build a Polygonal shape of colored stones with dimensions of 5m diameter, according to the design of the supervising engineer.. All the needed works to complete the job shall be included within the price.	no.	1		0
27	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 of 2 cm and dimensions of 40cm* 40cm. All needed works to complete the job will be included within the price.	m²	190		0
SUB TOTAL FOR Civil Work of the park cost IQD					0
Agricultural Works					

28	Soil Supply for Gardens 4050 m² Supply of materials, tools, and manpower to supply and laying garden soil of 30 cm depth. The price includes leveling the ground to prevent rain water from accumulating in the garden. Garden soil must be clean and free of any harmful or growth-promoting materials. All needed work to complete the job will be included within the price.	m ³	1215		0
29	Pre-germinated grass Supplying and Grassing with USA-indian grass Or grass that suitable the environment of Mosul city , 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.	m ²	4050		0
30	planting trees. Supplying materials, tools and manpower, making a hole with a depth of (60) cm in diameter, replacing the soil, planting trees as below, at a height of not less than (1.25) meter (measuring the height from the soil surface) with irrigation and all work requirements and according to the directions of the supervising engineer.				
a	Cassia glauca tree	no.	30		0
b	Thuja trees	no.	30		0
31	planting gori seedlings Supply of materials, tools, manpower and planting gori seedlings. The price includes all work requirements and as directed by the supervising engineer	no.	75		0
32	Colors Interlock- garden edging : Supply materials, tools and labor to supply new Interlock dimensions (30x10x10 cm) ,the work include good fixing for Interlock in soil of garden, according the agricultural specifications. All the needed works to complete the job shall be included within the price.	m.l	500		0

33	Irrigation system: Supply of materials, tools and manpower for A- installing sprinkles system that cover the required area with suitable diameter and rotation in 360°, including use a piece of pvc pipe 6" with length 20cm to put the sprinkler inside it, and all accessories, and fittings, valves, accessories, B- installing Irrigation GR Pipe 20mm Diameter, external nozzles for trees C- PPR pipes (1"): Supply and install water pipes (1") diameter, to supply the water tank by the water from the main source, The price includes all fittings and accessories, install pipes on the walls by using double conduit clamp and drilling in walls wherever needed. D- connect chrome water tap size 1/2". Price of the work shall include water connections. All needed work to complete the job will be included within the price.				
A	Sprinkles with pipes	no.	30		0
B	GR Pipe 20mm	m.l	500		0
C	PPR pipes (1")	m.l	300		0
D	Taps size 1/2"	no.	16		0
SUB TOTAL FOR Agricultural Works cost IQD					0
Guard room Caravan+ Administration room Caravan + W.C Uints(construction by blocks) + Store room(construction by blocks)					
34	Backfilling works for floor under Caravans+ W.C Uints + store room: Supply of materials, tools, machinery, and manpower for backfilling, by using subbase materials from natural sources free from clay, silt, or any organic materials. Backfilling material shall be applied on layers of 25 cm thickness, watered, and compacted to min 95% of MDD (Maximum density dryer). the work include cut surface soil about 15 cm from top. All needed works to complete the job should be included within the cost.	m³	20		0
35	Reinforced Concrete for foundation (30x60cm) under W.C Uints + store room : Supply of materials, tools, and manpower for casting reinforced concrete for foundation (40x60cm) using concrete (C25MPa) and reinforcing steel 8-Ø12mm and rings Ø10mm @25cm C/C, with using the vibrate machine, using sulphate resisting cement SRC. The work includes all the requirements, concrete covers, formworks, laying a sheet of polyethylene of 1mm thickness, leveling and concrete curing. The price include cleaning the bed of the excavation. All needed works to complete the job will be included within the price.	m³	6.5		0
36	Masonry works above foundation (W40xH30)cm : Supply of materials, tools, and manpower to rebuild walls above foundation using solid concrete blocks (15x20x40) cm with width 40cm and height 30cm, with cement sand mortar (1:3). The wall should be levelled vertically and horizontally. All needed works to complete the job will be included within the price.	m³	5		0
37	New-construction Wall by (solid concrete blocks): Supply of materials, tools and manpower for building walls (height of walls for W.c uints and store room 2.8m), by using solid concrete blocks 15x20x40cm with width 15cm, with 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	13		0

38	Reinforced Concrete slab, beam and parapet: Supply of materials, tools and manpower for casting reinforced concrete slab, beam and parapet, using concrete (C25MPa). The price includes adding bonding agent material between the old and new concrete (if any). The work includes all the requirements of steel reinforcement, concrete covers and formworks. All needed works to complete the job will be included within the price. Slab: Ø12mm @20cm c/c two layers and both directions. Beam: 3Ø12 top, 3Ø12 bottom and stirrups Ø10mm @25cm c/c. ,parapet:Ø12mm @20cm C/C in two direction-one layer.	m ³	12		0
39	New Cement Plastering for external wall of W.c Units and (internal-External)walls os store : Supply of materials, tools and manpower for cement plastering with 20mm thickness smooth-finished for walls and fences walls using aluminum straight edges. The price includes three layers as follows: one layer of cement splash dash, one layer of rough (kafmal) and finally smooth finished cement plastering with cement-sand mortar. All needed works to complete the job will be included within the price.	m ²	190		0
40	Plastic painting (extrenal) for external wall of W.c Units and (internal-External)walls os store : 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	190		0
41	Ceramic tiles(30x60cm) for internal walls of W.c units Supply of materials, tools and manpower to apply ceramic tiles(30x60cm) using cement mortar (1:2) and straight edge. the price includes filling the joints with white cement plaster. The price includes one layer of cement splash dash under ceramic tiles with cement-sand mortar. All needed work to complete the job well be included within the price.	m ²	120		0
42	Steel Ladder for rooftop of W.c: Supply of materials, tools and manpower to fabricate and install (60 cm width) vertical steel ladder by using square steel pipe (50x50x3mm) with protection ring using steel plate (50x3) mm and fixing with the floor by using steel plate 4mm, anchor bolts and screws. The work includes clean all existing steel from rust and dust before painting with two (2) layers using anti-rust and three (3) layers oil paint. All needed works to complete the job will be included within the price.	no.	1		0
43	PVC Drain pipes2.5": Supply of materials, tools to install new PVC pipes dimatere 2.5" length 3.2m . Including all connections and needed accessories to fix on roof and walls. All needed work to complete the job will be included within the price.	no.	4		0
44	Plain Concrete:- Supply of materials, tools and manpower for casting (10cm) plain concrete (C20MPa) using sulphate resistance cement to cast under Caravans. The price includes adding bonding agent material between the old and new concrete (if any). The work includes all the requirements of concrete covers and formworks. All needed works to complete the job will be included within the price.	m ²	55		0

45	"Caravan-Steel Structure with Sandwich Panel -the size as below : 1-Steel columns (100mmx100mmx3mm)3 m hight-(clear hight 3m from Tiles to Gypsum board Suspended Ceiling). The columns should be provided and installed at the intersections, corners of all the walls and where required according to drawings. 2-Use Main beam frame (100mmx100mmx3mm)on all perimeter of frame to connect the columns from top and bottom . 3- purlins for ceiling of frame use (100mmx50mmx3mm) (spaced @ 1.2 m c/c) in two direction. 4-The steel column will be fixing with the floor seel beam and concrete of floor by steel bars and welding. 5-Install channel-shape(2mm thickness) under and above walls, around the door and windows openings to fixing the sandwich panel. 6-Install channel-shape(2mm thickness) under and above walls, around the door and windows openings to fixing the sandwich panel. 7-X-bracing section angle 70mmx70mmx7mm in the roof steel structure at first panel and last panel to withstand against lateral force of wind pressure and same type of bracing between first and last columns rows at short direction. 8-All steel sections shall be painted by one layer of anti-rusted paint and 3 layers of oil paint with pistoled before being mounted Roof. 10-Installation of sandwich panel (roof and external walls) best quality, 5 cm thickness, density 16-24 kg/m3, load bearing capacity 1.00 kN/m2, K-value 0.32 W/m2K(resistant fire type, according to the BS EN ISO 1182 2020 Code or equivalent),the sandwich panel ceiling extended from all directions 50cm , fixed by screws and overlapped in order to prevent water leakage and fill the joints between the sandwich panels and the joints between the walls and the floor by silicone material.10-Rain water drainage and cover joint on top (galvanized sheets Cage 16) and cover joint on top with rain water pipes 3in diameter each 3m.All needed work to complete the job will be included within the price.	no.			
	Room-Size 3 x 3 m-	no.	2		0
46	Mosaic Tiles for floors: Supply of materials, tools and manpower to apply mosaic tiles size (30*30cm NO.4) for floors, using cement sand mortar(1:3), filling the joints with white cement.the work include using site polishing after apply the tiles to obtain smooth face. All needed work to complete the job will be included within the price.	m²	80		0
47	PVC Windows (1x1.5m): Supply of materials, tools and manpower to install PVC windows. The PVC section should be wide section. The windows include clear glass 4mm.the work include installation steel burglar for the windows using 12mm square steel bar every 15cm and the outer frame of steel tube section 40x30x2mm connect with main frame by members same it. The price includes hinges, handles, locks,anti-insects wire mesh and frosted glass (4mm). All needed works to complete the job should be included within the cost.	no.	5		0
48	PVC Windows (0.5x 0.5m): Supply of materials, tools and manpower to install PVC windows. The PVC section should be wide section. The windows include clear glass 4mm. The price includes hinges, handles, locks, and frosted glass (4mm). All needed works to complete the job should be included within the cost.	no.	5		0

49	PVC door with frame (1x2m): Supply of materials, tools and manpower to install PVC doors with frame. The PVC section should be wide section, The price includes lintel steel tube (10x5x0.2 cm) length 1m hinges, handles, locks. All needed works to complete the job should be included within the cost.	no.	9		0
50	Steel door with the frame(1x2 m) for store room: Supply of materials, tools and manpower to install steel door with frame, with steel plate gauge 18(1.41mm) on double face, using steel tube 80x40x2mm for fram and members of door, including a layer of Styrofoam to be placed between the two faces, hinges, doors handles, locks and fixing a stopper on the floor or wall. The price of work includes the painting of steel door using anti- rust and 2 layers of oil paint.the work include repairing the gypsum plastering and cement plastering of the edges. All needed work to complete the job will be included within the price.	no.	1		0
51	Gypsum board Suspended Ceiling : Supply of materials, tools and manpower to install suspended ceiling 60x60 cm, 8mm 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. 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.	m ²	26		0
52	Plastic Suspended Ceiling : Supply of materials, tools and manpower to install Plastic suspended ceiling 60x60 cm, 8mm 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. 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.	m ²	22		0
53	Ceiling Lighting LED 36W 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 all accessories. The price includes supplying, installing, connecting, laying, drilling & cutting (concrete wall if required) and commissioning to complete works as required.	no.	20		0
54	Outlet Socket (13 Amp): Supply, connect and operate outlet socket 13 Amp 2P+E,) by using wire (2x2.5mm ²) PVC insulated copper cable with all accessories. The work includes using PVC trunk cable in exposed areas, or by surface wiring using cable clamps as per the engineer instructions. with all installation and connection accessories all the required works to complete the job.	no.	7		0

55	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
56	Exhaust fan size 10" : Supplying, Installation, testing and commissioning of exhaust fan size 10" 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
57	Exhaust fan size 6" : Supplying, Installation, testing and commissioning of exhaust fan size 6" 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.	5		0
58	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.	5		0
59	Taps size 1/2" : Supply of materials, tools and manpower to connect chrome water tapssize 1/2". Price of the work shall include water connections. All needed work to complete the job will be included within the price.	no.	5		0
60	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.	no.	4		0

61	Western toilet for persons with disability: Supply of materials, tools and manpower to install new ceramic western toilet. Including siphon(flush tank), gully trap Ø100mm (4"), flexible hose and water connections,the work include installation support members stainless steel for persons with disability,siphon and bidet sprayer. All needed work to complete the job will be included within the price.	no.	1		0
62	PVC pipe 4" (Ø 100mm): Supply, installation, testing and commissioning of PVC 4"(100mm) 6 bar for drainage pipes down to manholes with all required fittings including excavation, back filling, incasing with sulphate resistant cement concrete and roof vent caps,the work include installation 4-stainless steel water drain holes according the supervising engineer. All needed works to complete the job, will be included within the price.	m.l	50		0
63	Manholes Circular 20 cm Diameter: Supply and install Plastic Manholes Circular 20 cm Diameter dimensions 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."	no.	5		0
64	Manholes 50x50cm: Supply of materials, tools and manpower to build the external manhole using solid concrete blocks and cement mortar with cement plastering from inside and outside using cement-sand mortar (1:3). The work includes excavation, casting 15cm concrete (C20Mpa) using sulphate resistant cement, installation of cast iron manhole cover of (50x50)cm. All needed work to complete the job will be included within the price.	no.	2		0
65	PPR pipes (3/4"): Supply and install water pipes (3/4)" diameter, to supply the water tank by the water from the main source, The price includes all fittings and accessories, install pipes on the walls by using double conduit clamp and drilling in walls wherever needed. All needed work to complete the job will be included within the price.	m.l	80		0
66	PPR pipes (1"): Supply and install water pipes (1)" diameter, to supply the water tank by the water from the main source, The price includes all fittings and accessories, install pipes on the walls by using double conduit clamp and drilling in walls wherever needed. All needed work to complete the job will be included within the price.	m.l	60		0

67	Water tank (galvanized)1250 L: Supply of materials, tools and manpower for installing galvanized water tank 1250 L. with cylindrical shape and with plate gauge 18(1.41mm), supported by steel base made with 75mm (3") angle shape thickness 3mm, height of steel base 2m using X-bracing section angle(3") from all directions for supporting, 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.	no.	3		0
68	Split Unit Air-Conditioning inverter type(wall mounted)(1.5ton) Supply, install, connect, and commission wall type Split unit Air-conditioning (Cool & Heat) 1.5ton, (18000BTUH), 1PH, for the halls, Technical specification and Type of compressor T3, Type of refri. gas(R410a) includes wiring/connecting with 1.0 kV grade 3*4mm²PVC 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
69	Cable 4x10 mm²: Supply, lay and connect Unarmored cable of (4x10) mm² of low tension type from the main distribution board to S.D.B with all accessories . The price includes supplying, installing, connecting, laying and commissioning drilling, cutting to complete works as required	m.l	20		0
70	Sub Distribution Board SDB -12 Way(30x40cm): Supply, test, and operate Sub distribution board metal enclosure , according to technical specification and instruction of Supervisor Engineers,The SDB will include the following breakers; Main MCB 2pole 63A, MCB 16 Amps /No 4, MCB 25 Amps /No 4, MCB 35 Amps/No 2 and magnetic contactor.All connection and installation accessories with .All the required works to complete the Job.	NO.	1		0
71	Waterproof Lighting Fixture: Supply, connect and operate Waterproof Lighting Fixture lighting with lamp of 24 W capacity using wire (2x1.5mm²) PVC insulated copper cable with all accessories The work includes using PVC trunk cable in exposed areas , or by surface wiring using cable clamps as per the engineer instructions . All connection and installation accessories with all the required works to complete the Job.	NO.	6		0
72	Fire extinguisher-Weight 6 kg: Supply materials,tools and manpower to supply Fire extinguisher with weight Weight 6 kg(dry powder), with good quality. All needed works to complete the job will be included within the price.	no.	3		0

73	Electrical boiler-150 liter, with 150 watt.: Supplying, installing , connect and commissioning of electrical heater with 150 liter- 150 watt capacity, and power with complete fittings & accessories connecting with (2x4mm ²) PVC cable and 20A switch. supported by steel base made with 50mm (2") angle shape on hight (2m).The price includes supplying, installing, testing, commissioning with all accessories to complete work as required	no.	1		0
74	Flag Pole (4m): Supply materials,tools and manpower to install new Flag pole, height 4m, using steel pipe Ø 2.5", 3 mm thickness, fixing on the ground by using base plate (300x300x4mm) and supported by using steel angle section 50x50x3mm. Including purchasing new IRAQ flag size (1.2x1.8m). Price of the work shall include two (2) layers of anti-rust and three (3) layers of oil painting. All needed works to complete the job will be included within the price.	no.	1		0
75	Curtains (Zebra Type) Supply and install windows blinds (curtains) with all needed to complete work from good origin and good type.	m ²	10		0
SUB TOTAL FOR Guard room Caravan+ Administration room Caravan + W.C Uints(construction by blocks) + Store room(construction by blocks)					0
TOTAL cost IQD					0