

Agriculture Sub-Directorate Rehabilitation BoQ in Heet / Anbar

N°	Lot	Detail	Quantity	Unit	Unit Price (USD)	Total Price (USD)
Part 1) Civil works						
1.0	Front fence foundation	supply materials and cast c25 reinforced concrete for the founce foundation 40 cm width , 30 cm thickness over a layer of 20 cm compected sub-base using 6 Bars Dia. 12 mm and stirrups dia.10 mm @ 20 cm according to the drawings and instructions of supervised engineer. the price include excavate the exist soil for 0.9 m and width 0.45 cm	3	M3		
1.1	Damp Roof Course (DPC) for front fence	Provide all materials and labor force to cast the DPC for fence with Size (10 Cm thickness and 25 Cm Wide) usingj fair faced wood for all sides, Cement resistant and Sika with Mixture	25	M.L		
1.2	Front fence building	Supply materials and construct walls under DPC by solid concrete block 15*20*40, using cement plaster ratio 1:3 within gradient height 35 Cm and width 20 Cm and over DPC by 2 m height using hollow concrete blocks 20x20x40 cm . Every 4 meter a column should be installed, and every 12 m using 2 cm styform as a tension and compression gap. Fence thickness 20 Cm The price of all works must be according to specification, drawings and instructions of the site engineer.	12	M3		
1.3	Main Slide Door	Preparation, materials and work execution for installation of iron slide door guage 16 Measuring (4 *2.5 m) , paint with Anti-rust paint and two layers and then with suitable paint and install the appropriate carvings and railroad as instructed by the supervising engineer. the price include all accessories required such as welding, handles, tires and lock.	1	PCs		
1.4	Slide Door Maintenance	Preparation, materials and work execution for maintenance the exist iron slide door. The works include re-locate the door to the south fence side. Price include repair the damage parts, painting Door with anti-rust and suitable color, replace the lock and handles and re-casting the exist columns supporter as per instruction of supervisor engineer. door size 4.1*2.5	1	PCs		
1.5	Shading Area (5*12)m	supply materials and construct key span shading area 0.6 mm thickness with water channels 2 mm thickness, the columns and the beams are from square steel pipes 4 inch , 3 mm thickness fixed to the ground, the height of the shading area from the sides 2.5 m and inclination height not less than 0.5 m with all necessary works painting , welding and cast the floor with reinforced concrete 15 cm thickness with a layer of BRC 6 mm thickness according to the instructions of the site engineer	60	M2		
1.6	Fence Plastering/ Rendering	Preparation, materials and work execution for plastering/scattering and rendering the fence with mortar cement 1:3, sand and grit with suitable color as per instruction of supervisor engineer. The price include repairing the damaged areas by using steel wire mesh and iron bars dia.12 mm to connct the old and new fence walls and esure the verticality of finishing.	65	m2		
1.7	Internal/external walls and fence Painting	Preparation, materials and work execution for the external and internal walls of the building within three layers of painting each layer 0.4-2 mm. the price include using plastic/steel wire mesh on cracks area and ensuring of well leveling of the walls vertically and horizontally and Corners as well. the painting type and color should be approved by supervisor engineer	2100	M2		
1.8	Roof asphalt-Mastic joint	Preperation material, tools and manpower to remove old Roof asphalt (mastic joint) and re-fill/pave with new one for a depth with not less than 2.5 Cm. Works include 1- paint the roof with bitumen 20/30 degree with Al-Dora iraqi brand or equivalent, two layers each layer in one day and in opposite directions using the thermal methodology. 2- replacing the damaged cement plates 25 M2 approx. by using new cement plates size 80*80*4 cm with all works required 3- ensure the insulation of the roof such as (penumatic layers, clean soil, nylon, etc..) 4- fill the outside joints with cement mortar and make joints same as shtyger size. all works required should follow the instruction of GIZ supervisor engineer.	400	M2		
1.9	P.V.C Windows	Supply material and install PVC windows for the indicated places in the drawings, using wide section turkish or equivalent. The price includes removing old steel windows and install new steel frames inside the walls which the windows will be fixed on the frame and must be painted by antirust paint and wall treatment by plastering and painting. The works includes Fixing Steel Rectangular Pipe , glass pan 4 mm and rubber. All other required works according to drawings and instructions of site engineer. Windows sizes as below: (1.5*0.5) m	11	M2		
1.10	Roof fence	Preperation material, tools and manpower to remove demolished rubbles and build roof fence using natural stone and mortar cement 1:3. wall length 10 m and height 1 m with thichness 30 cm. the price include plastering the wall from both side and use metal wire mesh in the area of joint connection. all works must be done following the instruction of supervisor engineer.	3	M3		

1.11	Outdoor footage and walk ways	Supply materials and cast plain concrete class C25 with 10 cm thickness and one layer of Boulders (Jalmod) to the required elevations and laying two layers of thick nylon for the outdoor corridor walkways with all work requirement with slope 1% for walk ways and using joints every 2 m and filling by mastic, according to specification, drawings and instructions of the site engineer. The work includes building walls using solid concrete block for the outside of the walkway with concrete foundation 10 cm thickness if necessary and cement plastering the walls from inside and outside. Note: the works might be modified to maintain exist some work lines instead of casting new areas.	13	M3		
1.12	Porcelain tiles	Supply materials and cladd the floor with Porcelain spanish origin or equivalent size 60*60 cm by using coherence mortar "MAPEI keraflex Maxi S1" or equivalent for not less than 1 cm. the works might include to adjust the floor at one level with repairing exist demolished mosaic floor. the price include fill the joint between porcelain peices by white cement. All works must be done according to the instruction of supervisor engineer.	220	M2		
1.13	Slab Concrete for External area and free spaces	Supply materials and cast plain concrete C20 thickness 15 Cm , the work includes 2 layers of compacted subbase and one layers of BRC 15*15 cm 6 mm thickness and expansion joints filled by mastic each 3 m. the price include removal of exist soil, rubble or concrete in this free spaces for 40 cm depth according to the drawings and the instructions of the site engineer.	300	M2		
1.14	building façade Natural stone cover	Supply materials and fixing Natural Stone (Halan) 30 cm width with marble, 2 cm thickness for the facade of the building. The stone should be fixed by using BRC mesh 15x15 6 mm or for linking with the walls and considering the joint and space between halan and the edge of wall. Price include polishing the natural stone using brush machine and Liquid (Siller) to give shinny apperance according to drawings and instruction of the site engineer.	160	M2		
1.15	Natural Stone (Halan) for Windows frame	Supply materials and fixing Natural Stone (Halan) kopen 5 cm & 10 cm with circulation for all edges of the kopen according to drawings and instruction of the site engineer.	118	M.L		
1.16	Aluminum windows	Supply materials and labor force to replace the exist façade windows with Aluminium windows (1.5*1.2)m turkey made asistal or equivalent. The price includes removing old steel windows and install new steel frames inside the walls which the windows will be fixed on the frame and must be painted by antirust paint and wall treatment by plastering and painting. The works includes Fixing Steel Rectangular Pipe , glass pan 6 mm and rubber. All other required works according to drawings and instructions of site engineer	15	M2		
1.17	Emergency Iron Ladder	Lenght 6-7 M 21 Steps or more type should be Jakerplate width 70 cm, L 30 cm and H 15 cm. Ladder should be covered from the bottom by plate gauge 20 and both sides 4 inch C channel. With installation of iron fence rectangular bar 4 inch with supporting the steps from bottom and fixed with land and wall. the work include as well painting the ladder with anti-rust painting and oil painting and install couple iron door and the entrance of the ladder including hinges, lock and latch	1	PCs		
1.18	Maintenance of Iron windows	preparation, materials supply and work execution for maintenance iron windows with the dimensions (1.25*1.55) m, the price includes accessory handles and Anti-flees cover and painting , installation of glass 4 mm and iron bars protection with all other accessories and as instructed by the supervising engineer.	12	PCs		
1.19	Acoustic Gypsum false ceiling (60*60 cm)	Provide materials and fixing for gypsum false ceiling (Saudi type) or Equivalent for all rooms, hall and the places that indicate by the site engineer. The price includes fixing galvanized steel sections (H-sections-beams) every 60 cm, inverted T-section (Black Sika), screw and fisher, and all necessary works. The work should be done according to the specifications and instructions of site engineer.	25	M2		
1.20	PVC Doors	Preparation, materials supply work execution to replace standards internal Turkey PVC door or equivalent , work including fix the door frame on the wall and all door accessories such as handle,lock and hinges doors dimension 1.0x 2.1 meter or less PVC type. Locations as per supervising Engineer	2	Pcs		
1.21	Aluminum Door and Partion	Preparation, materials supply work execution to install Aluminum Doors and Partions (2.5*2.7)m turkey made asistal or equivalent. The price include install new steel frames inside the walls which the partion and door will be fixed on the frame and must be painted by antirust paint and wall treatment by plastering and painting. The works includes Fixing Steel Rectangular Pipe , glass pan 6 mm and rubber. All other required works and curving according to drawings and instructions of site engineer	2	PCs		
1.22	Wooden Doors, Interior	Providing material and installing standard wooden doors size 1*2.1 M according to details. Canadian white jam wood and double face containing 2 layers of Malaysian teak (saj) 4 mm thickness for each face - the frame (3x6" jawe). Painted with teak paint (sperto) approved by site engineer, 3 layers, sperto. The price also includes Lintels casting above the frames, Door locks (Italian made-three point locks), door stopper, Aluminium sheet protection and wooden frames.	10	Pcs		
1.23	Outside Steel Doors (for the entrances)(2*2 m)	couple door guage 16 and curving of 1/2" completely with hinges, lock, handle and painting. The work include installation of door frame into the column using iron frame size 3" rectangular shape and painting with anti-rust painting. each single door should include horizontal circle bars for pushing and pulling the door in two different direction.	2	PCs		

Total Civil Work in USD

Part 2) PLUMBING WORK

2.0	western toilet	Supply and install ceramic western toilet and flush tank, the work include all fitting required and connect it with sewerage system and install, connect Pidet ½ " with source of water. bultin Flush tank, water float and plastic cover should be a part of western toilet. toilet seat should be placed at height 42 Cm from ceramic floor and glued with white silicon at area of connection with floor as per instruction of supervisor engineer. The toilet is equipped with, toilet paper holder, spare paper holder	1	PCs		
Total Plumbing Work in USD						
Part 3) Fire Fighting extinguishers						
3.0	Powder type fire extinguisher	Deliver and assemble, conceived and designed in accordance with EN 3. Pressure lever faucet (brass), 1-handle operation, internal CO2 pressure gas steel bottle. 9 ltr. or 12 ltr. content, freeze-proof to -30° C (AB), with spray nozzle. Ø 190 mm, height 550 mm. Performance classes / ratings 21 A and 183 B, extinguishing agent units (LE) 6 Permitting in accordance to the governmental rules and regulations.	6	Pcs		
3.1	CO2 type fire extinguisher	Deliver and assemble, conceived and designed in accordance with EN 3. Pressure lever faucet (brass). 1-handle operation. Internal powder. Permitting in accordance to the governmental rules and regulations.	2	Pcs		
Total Fire Fighting extinguishers Work in USD						
Part 4) Electrical Works						
4.0	Main Switch Board (M.S.B.)	Enclosure metal frame with twin internal and external door. Dimensions 150cm x 100 cm x 40cm using rubber gaskets and equipped with the following items and Bus bars 600A 4No with earth bus bar, the price also includes the required 1 Main Curcuit breaker 400 A three phase and 3 Sub-Circuit breaker 100 Amp three phase and one Sub-Circuit breaker 250 Amp . and 1 Piece of Volt- and Amperemeter and 3 pcs. Signal lamps and 1 set Copper Bus-Bar 1000A with lenght 120 Cm, insulators, switches and etc., all items should be arranged properly, affords a high degree of safety operation. Note: Main Curcuit breaker and Sub- Curcuit breakers should be LEGRAND or Group Schneider or ABB original mark or equivalent.	1	L.S		
4.1	Sub-Distribution board 24 lines	Supply and provide material to install Sub-Distribution board 24 lines. The board should include circut breakers and three phase change over with capacity 250 amp Schneider or equivelent using cable 4*35mm2 for connections, insulators, switches and etc., all items should be arranged properly, affords a high degree of safety operation.	2	L.S		
4.2	Automatic transfer unit (ATS) 50 KVA	From public net to generator feed with terminals, two connectors 200 Amp, relays and timer , boards, additional switches and all Boards needed and connections for Synchronizing according the supervisor engineer. (60cm x 60cm), white colour for mounting in false ceiling.	1	L.S		
4.3	Lighting Fixture Led 45 Watt (false ceiling)	Best type in the market, best quality according to instruction of site Engineer. Includes all necessary cable 3 x 1,5mm2 or 3 x 2,5mm2 (HES, Nexans, Prysmian or equivalent), switches and trunks, plastic pipes or conduits fit for purpose.	4	PCs		
4.4	Electric air ventilator	for WC's and Kitchen With all necessary accessories and switches, plastic pipes, conduits. Price includes (3*1.5 mm2) or 3 x 2,5 mm2 (HES, Nexans, Prysmian or equivalent). With self-acting external louvres and contact protection inside Size 6".	2	PCs		
4.5	Switch Socket, 13 A, 230 V AC	incl. central sheet and cover-frame, execution programme according to single description, protective degree IP 2 X, appliance-unit fixing and if necessary with screws and flush mounted box, includes if necessary, cable or 3 x 2,5 mm2 and connections to final distribution line board (Schneider or equivalent) fit for purpose.	30	PCs		
4.6	Air cooler device 1.5 Ton Capacity	he work include install Split 2 tons units 24,000 BTU Single phase of heating and cooling invertor R410 Economic and environmental (TOSOT or equivalent) with good electrical protection device and with Circuit 30 amp MCB installed as per instruction of supervising Engineer. the price include wire connections using 3*4 mm2 and AC condensate dewatering: PVC or PPR pipes, DN 32.	9	PCs		
4.7	Air cooler device (3 Ton)	Supply and install of Air cooler device. The work include install Split 3 tons vertical unit 36,000 BTU Three phase of heating and cooling invertor R410 Economic and environmental (TOSOT or equivalent)with good electrical protection device and with Circuit 60 amp MCB three phase,, all caples should be covered by cable tray as per instruction of supervising Engineer.he price include wire connections using 5*4 mm2 and AC condensate dewatering: PVC or PPR pipes, DN 32.	2	PCs		
4.8	Air cooler device 2.5 Ton Capacity	he work include install Split 2.5 tons units 30,000 BTU Single phase of heating and cooling invertor R410 Economic and environmental (TOSOT or equivalent) with good electrical protection device and with Circuit 30 amp MCB installed as per instruction of supervising Engineer. the price include wire connections using 3*4 mm2 and AC condensate dewatering: PVC or PPR pipes, DN 32.	1	PCs		

4.9	Air cooler device (5 Ton)	Supply and install of Air cooler device. The work include install Split 5 tons vertical unit 60,000 BTU Three phase of heating and cooling inverter R410 Economic and environmental (TOSOT or equivalent)with good electrical protection device and with Circuit 60 amp MCB three phase, all cables should be covered by cable tray as per instruction of supervising Engineer.he price include wire connections using 5*4 mm ² and AC condensate dewatering: PVC or PPR pipes, DN 32.	1	PCs		
4.10	Energy save light 100 watt	Install and operate a surface type ceiling/wall mounted single fluorescent nextlite or equivalent ,100 watt with all wiring system(2x1.5mm ²) and switches, as per the approval of supervisor engineer.The work include connect electrical switch to the source and fluorescent to the switch type and route decide as per supervising engineer	4	PCs		
4.11	Energy save light 75 watt	Install and operate a surface type ceiling/wall mounted single fluorescent nextlite or equivalent ,100 watt with all wiring system(2x1.5mm ²) and switches, as per the approval of supervisor engineer.The work include connect electrical switch to the source and fluorescent to the switch type and route decide as per supervising engineer	30	PCs		
4.12	water pump	Supply and install pump(1 hp), H=60 M, Q=3 m ³ /h with ball valve and all fittings (with steel box for protection)and accessories and a metal box for safety needed. The price include connecting the pump with electrical source using wire 3*2.5 mm and socket.	1	PCs		
4.13	Stand Electric warm water heater 120 liter	with 10mm insulation of Polyurethane foam and thin sheet jacket. For Showers of Annex Building Including: - Electric Connection with all necessary wires 4*2 mm and 32 Amp Circuit breaker. - 2 pcs heating elements with each 1500 watt - All necessary supply and sewerage pipes: Check valve (3/4") and Safety valve (3/4") - two inclined seated shut valve for cold water and hot water inlet (3/4") 50mm diameter for dripping extension water of safety valve. The tank is placed on a galvanized steel frame and rubber pads to avoid direct contact with steel or reinforced concrete pedestal sampling required	1	Pcs		
4.14	4*35 mm cable connection	Supply, transport and connect the electrical cable size 4*35 between the generator board and main electrical board. Pure copper should be used, saudian or equivalent. The price include using the cable tray to cover the cable.	50	M.L		
Total Electrical Work in USD						
Part 5) Generator						
5.0	Concrete Base	supply materials and cast concrete slab 15 cm thickness with mixture 1:2:4 reinforced with steel bars 12mm two layers (10 cm c/c) over a layer of sub-base 15 cm and surrounded by solid concrete blocks. The price includes cement plastering for the walls (inside and outside) according to the drawings and instructions of the site engineer.	7.2	M3		
5.1	Generator House	provide material and install a generator house 6*4 m and height 2.5 m (for the generator and the fuel tank) made of steel frame (5x5 cm, 2mm thickness) and covered by of BRC 5x5cm, 5mm for the sides and by Kerby for the roof, the price includes installing a door (2x1 m) and a galvanized steel plate exhaust to be connected to the exhaust of the generator and painting of the frame with 2 layers of anti-rust paint and 1 layer of colored paint. According to the drawings and instructions of the site engineer.	1	L.S		
5.2	45 KVA Generator	Supplying, setting up and operating a generator (45 KVA PRP, 400V, 3 PHASE, 50 HZ) sound insulated (canopied) and super silent. full automatic, motor quality (PERKNZ) (original type) turbocharged aspiration, water cooling system, Stamford Alternator, AVR excitation system provided with all protective devices and electrical gages with changeover switch including new electrical board. The price including supplying, installing and testing complete earth system with 3 copper rod (2m) for each and steel canopy (cover), with warranty 1 year or 1000 hours operating from the setting up and operating, the price includes fire extinguisher (CO2) type 10 kg weight according to the instructions of the site engineer.	1	L.S		
5.3	Fuel Tank	supplying fuel metal tank, capacity 2000 liter of 4 supports, gauge 16 with fuel filter and volume meter. The price includes connection between tanks and Generator with all fitting required as per instruction of supervisor engineer	1	Pcs		
Total Generator Lot in USD						
1	Total Civil Work in USD					
2	Total Plumbing Work in USD					
3	Total Fire Fighting extinguishers Work in USD					
4	Total Electrical Work in USD					
5	Total Generator Lot in USD					
TOTAL						

Storage & WC & Reception room construction in Agriculture Sub-Directorate BoQ in Heet / Anbar

N°	Lot	Detail	Quantity	Unit	Unit Price (USD)	Total Price (USD)
Part 1) Civil works						
1.0	building removal	provide machinery, labor force and equipment to demolish the exist old building(13.5*7*3)M and remove the rubbles to the area approved by the local authorities. The price include land settlement and site preparation as requested by the supervisor engineer.	1	LS		
1.1	Excavation works	preparation material, labor force and machinery to excavate exist ground "Storage and reception building" width depth 50 cm. the price includes compaction of the base of excavation using Vibrater following the drawings and instruction of supervsior engineer	32	M3		
1.2	Sub-Base Compaction works	Supplying materials and filling a layer with sub-base materials (typer B) where required under foundation area with compaction (according to the specification) not less than 95% in layers 20 cm thickness as per instruction of Supervisor Engineer	20	M3		
1.3	Blinding concrete	Provide all materials and cast 10 cm of Blinding concrete C15 above the compacted foundation. the price include laying two layers of thick nylon. (The nylon should also cover the sides of excavation walls and extend on land for 50 cm to both sides of excavation)	3.4	M3		
1.4	Foundation Concrete casting	Provide all materials and cast reinforced concrete for foundations with size (60*40 CM), using class C25 concrete with Mixture ratio (1:2:4) using Cement resistanc and reinforcement 10 bars dia. 12 mm and stirrups dia.10 mm @25 cm as per drawings.	14	M3		
1.5	Masonry works under DPC	supply materials & construction of walls with natural stone and cement mortar (1:3) under DPC of the building with two thickness gradient 40 and 30 cm and total height 70 cm for the walls under DPC and 30 cm width, the price includes plastering the apparent parts and painting with three layers of plastic paint (flincaot) and all works necessary according to the elevations and dimensions cleared in the drawings and the instruction of site engineer.	16	M3		
1.6	Damp Roof Course (DPC)	Provide all materials and labor force to cast the DPC with Size (10 Cm thickness and 30 Cm Wide) usingjg fair faced wood for all sides, Cement resistant and Sika with Mixture as per drawings and instructions of supervisor engineer	56	M.L		
1.7	Filling works- Clear River sand	Supply works and Labor force to fill and compact clear river sand the foundation and gradients with total depth 1.25 M.	90	M3		
1.8	Masonry works above DPC	supply materials & construction of walls with natural stone and cement mortar (1:3) above DPC of the building with 30 cm width and total height 3.7 M for the walls & roof fence for 1 M height , the price includes ensuring the horizontality and verticality of the walls and dimensions cleared in the drawings and the instruction of site engineer.	75	M3		
1.9	Slab Concrete, lintels and Parapet Casting	Provide all materials and labor force to cast Slab Concrete, lintels, Parapet (20*30 CM)using C25 Concrete following dimensions below and according the specification mentioned into the drawings bars dia 12@20 cm two layers. Slab thickness 0.18 M and reinforcement details as per drawings. Note: all necessary materials such as Vibretors, fair face tools, Cubic samples should be provided by the contractors and as per instruction of GIZ engineer following Structural and architectural drawings .	30	M3		

1.10	Roof protection paving by (shtaygar) Cement plates	<p>Supply materials and paving the roof (slope not less than 1%) according to the following steps:</p> <ol style="list-style-type: none"> 1- clean the roof from the remains of materials. 2- paint the roof with bitumen 20/30 degree, two layers each layer in one day and in opposite directions. 3- Layer of agricultural nylon then a 5 cm compacted Styrofoam with density not less than 20 KG/M3. 4- a layer of average 12 cm thick clean river sand with the proper slope. 5- paving shtyger (80*80*4 cm). 6- fill the joint between the shtyger with bitumen. 7- fill the outside joints with cement mortar and make joints same as shtyger size. 	96	M2		
1.11	Cement plastering (outside)	<p>Providing materials and plastering with cement sand mortar 1:3 wherever needed 20 mm thick min. and the final layer should be very smooth, using aluminum straight edges for plastering guides for outer walls, all work must be done according to the instruction of engineers.</p>	270	M2		
1.12	Gypsum plastering	<p>Supplying materials and plastering with gypsum in 2 layers minimum thickness 15mm, using aluminum straight edges for plastering guides each 80 cm for the inside walls and the area indicated in the drawings. Including plastic wire mesh for the connections of the walls and concrete structures and for the pipes of electric and sanitary works, according to specification, the drawings and instructions of the site engineer.</p>	360	M2		
1.13	Internal/external walls Painting	<p>Preparation, materials and work execution for the external and internal walls of the building within three layers of painting each layer 0.4-2 mm. the price include using plastic/steel wire mesh on walls connections area and ensuring of well leveling of the walls vertically and horizontally and Corners as well. the painting type and color should be approved by supervisor engineer</p>	580	M2		
1.14	Slab Concrete Ground floor (under tiles)	<p>Provide all materials and cast reinforced concrete with mixture (1:2:4) with slab thickness 0.15 m and two layers of BRC for Reinforcement dia. 6 @15 mm C/C for the ground floor "under the tiles", the price including gravel under the slab and DPC, follow instructions of site engineer.</p>	15	M3		

1.15	Outdoor footage and walk ways	Supply materials and cast plain concrete class C25 with 10 cm thickness and one layer of Boulders (Jalmod) to the required elevations and laying two layers of thick nylon for the outdoor corridor walkways with all work requirement with slope 1% for walk ways and using joints every 2 m and filling by mastic, according to specification, drawings and instructions of the site engineer. The work includes building walls using solid concrete block for the outside of the walkway with concrete foundation 10 cm thickness if necessary and cement plastering the walls from inside and outside. Note: the works might be modified to maintain exist some work lines instead of casting new areas.	3	M3		
1.16	Marble tiles	Supply materials and paving Marble tiles (60*60 cm) Turkey origin or equivalent (approved sample) with all necessary works on a layer of cement sand mortar 1:3 or (Besis) for the rooms, according and instructions of site engineer. The price includes repolishing the tiles after the end of the works if necessary.	75	M2		
1.17	Skirting (DPC Ceramic Cladding)	Supply materials and skirting using ceramic tiles spanish or equivalent (10) cm height and cement mortar 1:3, in rooms and main entrance according to instructions of site engineer. The price includes using cement splatter dash with SBR at rate of 30 Gr.\1 m.l.	50	M.L		
1.18	building façade Natural stone cover	Supply materials and fixing Natural Stone (Halan) 30 cm width with marble, 2 cm thickness for the facade of the building. The stone should be fixed by using BRC mesh 15x15 6 mm or for linking with the walls and considering the joint and space between halan and the edge of wall. Price include polishing the natural stone using brush machine and Liquid (Siller) to give shinny apperance according to drawings and instruction of the site engineer.	56	M2		
1.19	Natural Stone (Halan) for Windows frame	Supply materials and fixing Natural Stone (Halan) kopen 5 cm & 10 cm with circulation for all edges of the kopen according to drawings and instruction of the site engineer.	40	M.L		
1.20	Toilet floor Ceramic	Clad the toilets floor with ceramic tiles (30*30) cm spanish type or equivalent (approved sample) and rough surface with all necessary works on a layer of cement sand mortar 1:3 for the bathrooms according to instructions of site engineer. Price include fill the joints with white Cement and ensure curing for all the applied Ceramics	18	M2		
1.21	Toilet wall Ceramic	Clad the toilets and Kitchen Walls with ceramic tiles (30*30) cm spanish type or equivalent (approved sample) with all necessary works on a layer of cement sand mortar 1:3 for the bathrooms according to instructions of site engineer. Price include fill the joints with white Cement and ensure curing for all the applied Ceramics. Works of Cermaics should be leveled Horizontallly and Vertically	94	M2		
1.22	Aluminum windows	Supply materials and labor force to replace the exist façade windows with Aluminuim windows (1.5*1.2)M turkey made asistal or equivalent. The works includes Fixing Steel Rectangular Pipe , glass pan 6 mm and rubber. the price include the installation of Iron protection bars & All other required works according to drawings and instructions of site engineer	7.2	M2		
1.23	Emergency Iron Ladder	Lenght 6-7 M 21 Steps or more type should be Jakerplate width 70 cm, L 30 cm and H 15 cm. Ladder should be covered from the bottom by plate gauge 20 and both sides 4 inch C channel. With installation of iron fence rectangular bar 4 inch with supporting the steps from bottom and fixed with land and wall. the work include as well painting the ladder with anti-rust painting and oil painting and install couple iron door and the entrance of the ladder including hinges, lock and latch	1	PCs		
1.24	false ceiling (60*60 cm)	Provide materials and fixing for gypsum false ceiling (Saudi type) or Equivalent for all rooms, hall and the places that indicate by the site engineer. The price includes fixing galvanized steel sections (H-sections-beams) every 60 cm, inverted T-section (Black Sika), screw and fisher, and all necessary works. The work should be done according to the specifications and instructions of site engineer.	18	M2		
1.25	PVC Doors	Preparation, materials supply work execution to install standards internal Turkey PVC door or equivalent , work including fix the door frame on the wall and all door accessories such as handle, lock and hinges doors dimension 1.0x 2.1 meter or less PVC type. Locations as per supervising Engineer	3	Pcs		
1.26	Outside Steel Doors (1*2 m)	Supply and provide materials to install steel door (1*2.1)m with frame. The price include painting with anti-rust painting then with suitable painting, Hinges, latches and handle. Door design should be half-glazed from Karetal iron.	3	PCs		
1.27	Outside Steel Doors (for the entrances)(2*2 m)	couple door guage 16 and curving of 1/2" completely with hinges, lock, handle and painting. The work include installation of door frame into the column using iron frame size 3" rectangular shape and painting with anti-rust painting. each single door should include horizontal circle bars for pushing and pulling the door in two different direction.	1	PCs		

1.28	Septic Tank	This item will include installation of septic tank 2.5 m x3m x 2m with 1 slabs: on the top(2.5 m x3 m x 0.15) reinforced concrete , using bars 12 mm dia. and concrete block for Walls. the walls foundation width should be 40 and thickness 20 cm. Works shall include but are not limited to all needed and required excavation in all kind of soils, removal of excavated works shall include: vents, manhole withconcrete lid, inlet openings to accommodate all incoming inlet flows and all required connections,and build the walls and complete all sanitary work conection all latrines aand toilets with septic-tanks using pipe 4 in with hollow blocks as per the specifications above. the price include plastering the nearest side wall from the building.	1	PCs		
Total Civil Work in USD						
Part 2) PLUMBING WORK						
2.0	wall-mounted western toilet	Supply and install western toilet and flush tank, the work include all fitting required and connect it with sewerage system and install, connect Pidet ½ " with source of water. Flush tank should be a part of iron frame and hidden inside the wall within specified level and angle valve. toilet seat should be placed at height 42 Cm and as per instruction of supervisor engineer. The toilet is equipped with, toilet paper holder, spare paper holder	1	PCs		
2.1	Installing eastern toilet	Supply of materials, tools and manpower to install a new ceramic eastern toilet and flush tank. Including proper swerage and water connection and siphon installation.gully trap Ø100mm (4"), flexible hose 5mm, Pidet ½ " with source of water, angle valve and ensure the drain of water to the cesspool and All needed work to complete the job will be included within the price as per instruction of supervisor engineer. The toilet is equipped with, toilet paper holder, spare paper holder size 0.45 m x 0.45 m and sink height should be 0.8 m from the floor.	2	PCs		
2.2	Installing wall-mounted handwash basins with water mixer	the work includes high pressure connection steel hose, chromium plated stop valves, two angle valve, flex drain hose and all related accessories, and including connecting to the tanks. All needed works, Paper towel dispenser out of stainless steel, liquid soap dispenser out of white plastic to complete the job will be included within the price. Note: Water mixer handle should be valve handle at a height of 0.90 m from the floor.	4	PCs		
2.3	Water Taps 1/2"	Supply and install chromium water tabs ½ " with all fitting and pipes of European manufacture, Type as per supervisor Engineer	4	PCs		
2.4	Water Tank	Supply and install storage water tank (1000) L in size, PVC type of Minimum three layers reinforced. the price includes the installation and connecting of Plastic pipes measuring 3/4 inch, complete with valves, overflow, floating valves, drain inlets and outlets PVC with all necessary fittings and seat blocks should be place above the building.	2	PCs		
2.5	PVC reinforced Manhole	Supply and install PVC reinforced Manhole heavy duty 50 Cm* 50 Cm * 50 Cm with thckness 10 cm. Price include provision of manhole cover has to by secured by screws against un-authorized opening.	2	PCs		
2.6	Rainwater downpipes	Supply and install 3" PVC rain water drain pipe in lengths of 6m with Iron holder each 1 m for roof including painting and all fitting that is required to make the job complete, noticing that the pipe fixing must be done after finishing plastering the exterior faces of walls	5	PCs		
2.7	PVC or PP sewerage pipes DN 100 (4)" diameter	UV-resistant and high pressure. Supply and install (4") dia. PVC pipes egyption origin or equivelent with all necessary materials and cleaning openings according to the instructions of the site engineer with all necessary work. Including all fittings and attachments.	30	M.L		
2.8	Water pipes connections "Galvanized pipes" Dia. 3/4"	Supply material and provide services to install and equip galvanized water connection dia. 3/4" between the water tank and internal network point with all necessary materials, fittings and attachments as per instruction of supervisor engineer	30	M.L		
2.9	Polypropylene PPR cold/warm water supply pipes Dia. 1/2"	For conducting concealed, in the walls, or false ceiling. Insulated in 5mm thick foam rubber hoses. Bursts of insulation must be sealed with adhesive tape. Supply and install 1/2" dia. PPR pipes with all necessary materials, fittings and attachments. Pipe clamps with hanger bolts in sturdy galvanized fabrication, with rubber insert, at a distance of 1.5m. egyption (Amal Al-Shareef), germany or equivelent , sampling required!	55	M.L		
Total Plumbing Work in USD						
Part 3) Electrical Works						
3.0	Sub-Distribution board 8 lines	Supply and provide material to install Sub-Distribution board 8 lines. The board should include circut breakers and three phase change over with capacity 100 amp Schneider or equivelent using cable 4*35mm2 for connections, insulators, switches and etc., all items should be arranged properly, affords a high degree of safety operation. (circular), white colour for mounting in false ceiling.	1	LS		
3.1	Lighting Fixture Led 18 Watt for WCs	Best type in the markets, best quality according to instruction of site engineer. Includes all necessary cable 3 x 1,5 mm2 or 3 x 2,5 mm2 (HES, Nexans, Prysmian or equivalent). Switches and trunks, plastic pipes or conduits fit for purpose.	4	Pcs		

3.2	Electric air ventilator	for WC's and Kitchen With all necessary accessories and switches, plastic pipes, conduits. Price includes (3*1.5 mm2) or 3 x 2,5 mm2 (HES, Nexans, Prysmian or equivalent). With self-acting external louvres and contact protection inside Size 6".	3	PCs			
3.3	Switch Socket, 13 A, 230 V AC	incl. central sheet and cover-frame, execution programme according to single description, protective degree IP 2 X, appliance-unit fixing and if necessary with screws and flush mounted box, includes if necessary, cable or 3 x 2,5 mm2 and connections to final distribution line board (Schneider or equivalent) fit for purpose.	16	PCs			
3.4	Switch Socket, 32 A, 230 V AC	for air conditions and heaters incl. central sheet and cover-frame, execution programme according to single description, protective degree IP 2 X, appliance-unit fixing with screws with flush mounted box, includes all necessary, cable or 3 x4 mm2 and connections to final distribution line board (Schneider or equivalent) fit for purpose.	2	PCs			
3.5	Out door wall lamp fixtures Lighting Fixture Led 50 Watt	(hemispherical) four outside building and fence corners, waterproof black colour. Best type in the market, the price includes cable (3 x 2.5 mm2) (HES, Nexans, Prysmian or equivalent) & switches and trunks, plastic pipes or conduits fit for purpose and all accessories best quality according to instruction of site engineer.	10	Pcs			
3.6	Air cooler device 1.5 Ton Capacity	he work include install Split 2 tons units 24,000 BTU Single phase of heating and cooling inverter R410 Economic and environmental (TOSOT or equivalent) with good electrical protection device and with Circuit 30 amp MCB installed as per instruction of supervising Engineer. the price include wire connections using 3*4 mm2 and AC condensate dewatering: PVC or PPR pipes, DN 32.	1	PCs			
3.7	Energy save light 75 watt	Install and operate a surface type ceiling/wall mounted single fluorescent nextlite or equivalent ,100 watt with all wiring system(2x1.5mm2) and switches, as per the approval of supervisor engineer.The work include connect electrical switch to the source and fluorcent to the switch type and route decide as per supervising engineer	14	PCs			
3.8	water pump	Supply and install pump(1 hp), H=60 M, Q=3 m3/h with ball valve and all fittings (with steel box for protection)and accessories and a metal box for safety needed. The price include connecting the pump with electrical source using wire 3*2.5 mm and socket.	1	PCs			
3.9	Stand Electric warm water heater 120 liter	with 10mm insulation of Polyurethane foam and thin sheet jacket. For Showers of Annex Building Including: - Electric Connection with all necessary wires 4*2 mm and 32 Amp Circuit breaker. - 2 pcs heating elements with each 1500 watt - All necessary supply and sewerage pipes: Check valve (3/4") and Safety valve (3/4") - two Inclined seated shut valve for cold water and hot water inlet (3/4") 50mm diameter for dripping extension water of safety valve. The tank is placed on a galvanized steel frame and rubber pads to avoid direct contact with steel or reinforced concrete pedestal sampling required	1	Pcs			
Total Electrical Work in USD							
1	Total Civil Work in USD						
2	Total Plumbing Work in USD						
3	Total Electrical Work in USD						
TOTAL							

Women WC Construction in Agriculture Sub-Directorate BoQ in Heet / Anbar

N°	Lot	Detail	Quantity	Unit	Unit Price (USD)	Total Price (USD)
Part 1) Civil works						
1.0	building removal	provide machinery, labor force and equipment to demolish the exist old building(1.65*4.15)M and remove the rubbles to the area approved by the local authorities. The price include land settlement and site preparation as requested by the supervisor engineer.	1	L.S		
1.1	Excavation works	preparation material, labor force and machinery to excavate exist ground "Storage and reception building" width depth 50 cm. the price includes compaction of the base of excavation using Vibrater following the drawings and instruction of supervsior engineer	9	M3		
1.2	Sub-Base Compaction works	Supplying materials and filling a layer with sub-base materials (typer B) where required under foundation area with compaction (according to the specification) not less than 95% in layers 20 cm thickness as per instruction of Supervisor Engineer	2	M3		
1.3	Blinding concrete	Provide all materials and cast 10 cm of Blinding concrete C15 above the compacted foundation. the price include laying two layers of thick nylon. (The nylon should also cover the sides of excavation walls and extend on land for 50 cm to both sides of excavation)	1	M3		
1.4	Foundation Concrete casting	Provide all materials and cast reinforced concrete for foundations with size (60*40 CM), using class C25 concrete with Mixture ratio (1:2:4) using Cement resistanc and reinforcement 10 bars dia. 12 mm and stirrups dia.10 mm @25 cm as per drawings.	4	M3		
1.5	Masonry works under DPC	supply materials & construction of walls with natural stone and cement mortar (1:3) under DPC of the building with two thickness gradient 40 and 30 cm and total height 70 cm for the walls under DPC and 30 cm width, the price includes plastering the apparent parts and painting with three layers of plastic paint (flincaot) and all works necessary according to the elevations and dimensions cleared in the drawings and the instruction of site engineer.	4.5	M3		
1.6	Damp Roof Course (DPC)	Provide all materials and labor force to cast the DPC with Size (10 Cm thickness and 30 Cm Wide) usingj fair faced wood for all sides, Cement resistant and Sika with Mixture as per drawings and instructions of supervisor engineer	12	M.L		
1.7	Filling works- Clear River sand	Supply works and Labor force to fill and compact clear river sand the foundation and gradients with total depth 1.15 M.	9	M3		
1.8	Masonry works above DPC	supply materials & construction of walls with natural stone and cement mortar (1:3) above DPC of the building with 30 cm width and total height 3.7 M for the walls & roof fence for 1 M height , the price includes ensuring the horizontality and verticality of the walls and dimensions cleared in the drawings and the instruction of site engineer.	20	M3		
1.9	Slab Concrete, lintels and Parapet Casting	Provide all materials and labor force to cast Slab Concrete, lintels, Parapet (20*30 CM)using C25 Concrete following dimensions below and according the specification mentioned into the drawings bars dia 12@20 cm two layers. Slab thickness 0.18 M and reinforcement details as per drawings. Note: all necessary materials such as Vibretors, fair face tools, Cubic samples should be provided by the contractors and as per instruction of GIZ engineer following Structural and architectural drawings .	5	M3		

1.10	Roof protection paving by (shtaygar) Cement plates	<p>Supply materials and paving the roof (slope not less than 1%) according to the following steps:</p> <ol style="list-style-type: none"> 1- clean the roof from the remains of materials. 2- paint the roof with bitumen 20/30 degree, two layers each layer in one day and in opposite directions. 3- Layer of agricultural nylon then a 5 cm compacted Styrofoam with density not less than 20 KG/M3. 4- a layer of average 12 cm thick clean river sand with the proper slope. 5- paving shtyger (80*80*4 cm). 6- fill the joint between the shtyger with bitumen. 7- fill the outside joints with cement mortar and make joints same as shtyger size. 	7	M2		
1.11	Cement plastering (outside)	<p>Providing materials and plastering with cement sand mortar 1:3 wherever needed 20 mm thick min. and the final layer should be very smooth, using aluminum straight edges for plastering guides for outer walls, all work must be done according to the instruction of engineers.</p>	42	M2		
1.12	Gypsum plastering	<p>Supplying materials and plastering with gypsum in 2 layers minimum thickness 15mm, using aluminum straight edges for plastering guides each 80 cm for the inside walls and the area indicated in the drawings. Including plastic wire mesh for the connections of the walls and concrete structures and for the pipes of electric and sanitary works, according to specification, the drawings and instructions of the site engineer.</p>	7	M2		
1.13	Internal/external walls and fence Painting	<p>Preparation, materials and work execution for the external and internal walls of the building within three layers of painting each layer 0.4-2 mm. the price include using plastic/steel wire mesh on walls connections area and ensuring of well leveling of the walls vertically and horizontally and Corners as well. the painting type and color should be approved by supervisor engineer</p>	40	M2		
1.14	Slab Concrete Ground floor (under tiles)	<p>Provide all materials and cast reinforced concrete with mixture (1:2:4) with slab thickness 0.15 m and two layers of BRC for Reinforcement dia. 6 @15 mm C/C for the ground floor "under the tiles", the price including gravel under the slab and DPC, follow instructions of site engineer.</p>	1	M3		
1.15	building façade Natural stone cover	<p>Supply materials and fixing Natural Stone (Halan) 30 cm width with marble, 2 cm thickness for the facade of the building. The stone should be fixed by using BRC mesh 15x15 6 mm or for linking with the walls and considering the joint and space between halan and the edge of wall. Price include polishing the natural stone using brush machine and Liquid (Siller) to give shiny apperance according to drawings and instruction of the site engineer.</p>	5	M2		

1.16	Toilet floor Ceramic	Clad the toilets floor with ceramic tiles (30*30) cm spanish type or equivalent (approved sample) and rough surface with all necessary works on a layer of cement sand mortar 1:3 for the bathrooms according to instructions of site engineer.Price include fill the joints with white Cement and ensure curing for all the applied Ceramics	7	M2		
1.17	Toilet wall Ceramic	Clad the toilets Walls with ceramic tiles (30*30) cm spanish type or equivalent (approved sample) with all necessary works on a layer of cement sand mortar 1:3 for the bathrooms according to instructions of site engineer.Price include fill the joints with white Cement and ensure curing for all the applied Ceramics. Works of Ceramics should be leveled Horizontally and Vertically	55	M2		
1.18	false ceiling (60*60 cm)	Provide materials and fixing for gypsum false ceiling (Saudi type) or Equivalent for all rooms, hall and the places that indicate by the site engineer. The price includes fixing galvanized steel sections (H-sections-beams) every 60 cm, inverted T-section (Black Sika), screw and fisher, and all necessary works. The work should be done according to the specifications and instructions of site engineer.	7	M2		
1.19	PVC Doors	Preparation, materials supply work execution to install standards internal Turkey PVC door or equivalent , work including fix the door frame on the wall and all door accessories such as handle,lock and hinges doors dimension 1.0x 2.1 meter or less PVC type. Locations as per supervising Engineer	3	Pcs		
Total Civil Work in USD						
Part 2) PLUMBING WORK						
2.0	wall-mounted western toilet	Supply and install western toilet and flush tank, the work include all fitting required and connect it with sewerage system and install, connect Pidet ½ " with source of water. Flush tank should be a part of iron frame and hidden inside the wall within specified level and angle valve. toilet seat should be placed at height 42 Cm and as per instruction of supervisor engineer. The toilet is equipped with, toilet paper holder, spare paper holder	1	PCs		
2.1	Installing eastern toilet	Supply of materials, tools and manpower to install a new ceramic eastern toilet and flush tank. Including proper sewerage and water connection and siphon installation.gully trap Ø100mm (4"), flexible hose 5mm, Pidet ½ " with source of water, angle valve and ensure the drain of water to the cesspool and All needed work to complete the job will be included within the price as per instruction of supervisor engineer. The toilet is equipped with, toilet paper holder, spare paper holder size 0.45 m x 0.45 m and sink height should be 0.8 m from the floor.	1	PCs		
2.2	Installing wall-mounted handwash basins with water mixer	the work includes high pressure connection steel hose, chromium plated stop valves, two angle valve, flex drain hose and all related accessories, and including connecting to the tanks. All needed works, Paper towel dispenser out of stainless steel, liquid soap dispenser out of white plastic to complete the job will be included within the price. Note: Water mixer handle should be valve handle at a height of 0.90 m from the floor.	3	PCs		
2.3	Water Taps 1/2"	Supply and install chromium water tabs ½ " with all fitting and pipes of European manufacture, Type as per supervisor Engineer	3	PCs		
2.4	Water Tank	Supply and install storage water tank (1000) L in size, PVC type of Minimum three layers reinforced. the price includes the installation and connecting of Plastic pipes measuring 3/4 inch, complete with valves, overflow, floating valves, drain inlets and outlets PVC with all necessary fittings and seat blocks should be place above the building.	1	PCs		
2.5	PVC reinforced Manhole	Supply and install PVC reinforced Manhole heavy duty 50 Cm* 50 Cm * 50 Cm with thickness 10 cm. Price include provision of manhole cover has to be secured by screws against un-authorized opening.	2	PCs		
2.6	Rainwater downpipes	Supply and install 3" PVC rain water drain pipe in lengths of 3m with Iron holder each 1 m for roof including painting and all fitting that is required to make the job complete, noticing that the pipe fixing must be done after finishing plastering the exterior faces of walls	2	PCs		
2.7	PVC or PP sewerage pipes DN 100 (4)" diameter	UV-resistant and high pressure. Supply and install (4") dia. PVC pipes egyptian origin or equivalent with all necessary materials and cleaning openings according to the instructions of the site engineer with all necessary work. Including all fittings and attachments.	20	M.L		
2.8	Water pipes connections "Galvanized pipes" Dia. 3/4"	Supply material and provide services to install and equip galvanized water connection dia. 3/4" between the water tank and internal network point with all necessary materials, fittings and attachments as per instruction of supervisor engineer	15	M.L		
2.9	Polypropylene PPR cold/warm water supply pipes Dia. 1/2"	For conducting concealed, in the walls, or false ceiling. Insulated in 5mm thick foam rubber hoses. Bursts of insulation must be sealed with adhesive tape. Supply and install 1/2" dia. PPR pipes with all necessary materials, fittings and attachments. Pipe clamps with hanger bolts in sturdy galvanized fabrication, with rubber insert, at a distance of 1.5m. egyptian (Amal Al-Shareef), germany or equivalent , sampling required!	35	M.L		
Total Plumbing Work in USD						

Part 3) Electrical Works							
3.0	Lighting Fixture Led 18 Watt for WCs	(circular), white colour for mounting in false ceiling. Best type in the markets, best quality according to instruction of site engineer. Includes all necessary cable 3 x 1,5 mm2 or 3 x 2,5 mm2 (HES, Nexans, Prysmian or equivalent). Switches and trunks, plastic pipes or conduits fit for purpose.	6	Pcs			
3.1	Electric air ventilator	for WC's and Kitchen With all necessary accessories and switches, plastic pipes, conduits. Price includes (3*1.5 mm2) or 3 x 2,5 mm2 (HES, Nexans, Prysmian or equivalent). With self-acting external louvres and contact protection inside Size 6".	3	PCs			
3.2	Switch Socket, 13 A, 230 V AC	incl. central sheet and cover-frame, execution programme according to single description, protective degree IP 2 X, appliance-unit fixing and if necessary with screws and flush mounted box, includes if necessary, cable or 3 x 2,5 mm2 and connections to final distribution line board (Schneider or equivalent) fit for purpose.	3	PCs			
3.3	Out door wall lamp fixtures Lighting Fixture Led 50 Watt	(hemispherical) four outside building and fence corners, waterproof black colour. Best type in the market, the price includes cable (3 x 2.5 mm2) (HES, Nexans, Prysmian or equivalent) & switches and trunks, plastic pipes or conduits fit for purpose and all accessories best quality according to instruction of site engineer.	2	Pcs			
3.4	Energy save light 75 watt	Install and operate a surface type ceiling/wall mounted single fluorescent nextlite or equivalent ,100 watt with all wiring system(2x1.5mm2) and switches, as per the approval of supervisor engineer.The work include connect electrical switch to the source and fluorcent to the switch type and route decide as per supervising engineer	3	PCs			
3.5	Stand Electric warm water heater 120 liter	with 10mm insulation of Polyurethane foam and thin sheet jacket. For Showers of Annex Building Including: - Electric Connection with all necessary wires 4*2 mm and 32 Amp Circuit breaker. - 2 pcs heating elements with each 1500 watt - All necessary supply and sewerage pipes: Check valve (3/4") and Safety valve (3/4") - two Inclined seated shut valve for cold water and hot water inlet (3/4") 50mm diameter for dripping extension water of safety valve. The tank is placed on a galvanized steel frame and rubber pads to avoid direct contact with steel or reinforced concrete pedestal sampling required	1	Pcs			
Total Electrical Work in USD							
1	Total Civil Work in USD						
2	Total Plumbing Work in USD						
3	Total Electrical Work in USD						
TOTAL							

Mayor office Rehabilitation BoQ in Heet / Anbar

N°	Lot	Detail	Quantity	Unit	Unit Price (USD)	Total Price (USD)
Part 1) Civil works						
1.0	Excavation works	preparation material, labor force and machinery to excavate exist ground "Storage and reception building" width depth 50 cm. the price includes compaction of the base of excavation using Vibrater following the drawings and instruction of supervisor engineer	11	M3		
1.1	Sub-Base Compaction works	Supplying materials and filling a layer with sub-base materials (typer B) where required under foundation area with compaction (according to the specification) not less than 95% in layers 20 cm thickness as per instruction of Supervisor Engineer	2.5	M3		
1.2	Blinding concrete	Provide all materials and cast 10 cm of Blinding concrete C15 above the compacted foundation. the price include laying two layers of thick nylon. (The nylon should also cover the sides of excavation walls and extend on land for 50 cm to both sides of excavation)	1	M3		
1.3	Foundation Concrete casting	Provide all materials and cast reinforced concrete for foundations with size (60*40 CM), using class C25 concrete with Mixture ratio (1:2:4) using Cement resistanc and reinforcement 10 bars dia. 12 mm and stirrups dia.10 mm @25 cm as per drawings.	4.5	M3		
1.4	Masonry works under DPC	supply materials & construction of walls with natural stone and cement mortar (1:3) under DPC of the building with two thickness gradient 40 and 30 cm and total height 70 cm for the walls under DPC and 30 cm width, the price includes plastering the apparent parts and painting with three layers of plastic paint (flincaot) and all works necessary according to the elevations and dimensions cleared in the drawings and the instruction of site engineer.	4.5	M3		
1.5	Damp Roof Course (DPC)	Provide all materials and labor force to cast the DPC with Size (10 Cm thickness and 30 Cm Wide) usinjg fair faced wood for all sides, Cement resistant and Sika with Mixture as per drawings and instructions of supervisor engineer	16	M.L		
1.6	Filling works- Clear River sand	Supply works and labor force to fill and compact clear river sand the foundation and gradients with total depth 1.05 M.	16	M3		
1.7	Masonry works above DPC	supply materials & construction of walls with natural stone and cement mortar (1:3) above DPC of the building with 30 cm width and total height 3 M for the walls & roof fence for 1 M height , the price includes ensuring the horizontality and verticality of the walls and dimensions cleared in the drawings and the instruction of site engineer.	22	M3		
1.8	Slab Concrete, lintels and Parapet Casting	Provide all materials and labor force to cast Slab Concrete, lintels, Parapet (20*30 CM)using C25 Concrete following dimensions below and according the specification mentioned into the drawings bars dia 12@20 cm two layers. Slab thickness 0.18 M and reinforcement details as per drawings. Note: all necessary materials such as Vibretors, fair face tools, Cubic samples should be provided by the contractors and as per instruction of GIZ engineer following Structural and architectural drawings .	7.5	M3		
1.9	Roof protection paving by (shtaygar) Cement plates	Supply materials and paving the roof (slope not less than 1%) according to the following steps: 1- clean the roof from the remains of materials. 2- paint the roof with bitumen 20/30 degree, two layers each layer in one day and in opposite directions. 3- Layer of agricultural nylon then a 5 cm compacted Styrofoam with density not less than 20 KG/M3. 4- a layer of average 12 cm thick clean river sand with the proper slope. 5- paving shtyger (80*80*4 cm). 6- fill the joint between the shtyger with bitumen. 7- fill the outside joints with cement mortar and make joints same as shtyger size.	20	M2		
1.10	Cement plastering (outside)	Providing materials and plastering with cement sand mortar 1:3 wherever needed 20 mm thick min. and the final layer should be very smooth, using aluminum straight edges for plastering guides for outer walls, all work must be done according to the instruction of engineers.	100	M2		
1.11	Gypsum plastering	Supplying materials and plastering with gypsum in 2 layers minimum thickness 15mm, using aluminum straight edges for plastering guides each 80 cm for the inside walls and the area indicated in the drawings. Including plastic wire mesh for the connections of the walls and concrete structures and for the pipes of electric and sanitary works, according to specification, the drawings and instructions of the site engineer.	75	M2		

1.12	Slab Concrete Ground floor (under tiles)	Provide all materials and cast reinforced concrete with mixture (1:2:4) with slab thickness 0.15 m and two layers of BRC for Reinforcement dia. 6 @15 mm C/C for the ground floor "under the tiles", the price including gravel under the slab and DPC, follow instructions of site engineer.	3	M3		
1.13	Marble tiles	Supply materials and paving Marble tiles (60*60 cm)Turkey origin or equivalent (approved sample) with all necessary works on a layer of cement sand mortar 1:3 or (Besis) for the rooms, according and instructions of site engineer. The price includes repolishing the tiles after the end of the works if necessary.	20	M2		
1.14	Internal/external walls and fence Painting	Preparation, materials and work execution for the external and internal walls of the building within three layers of painting each layer 0.4-2 mm. the price include using plastic/steel wire mesh on cracks/damaged area and ensuring of well leveling of the walls vertically and horizontally and Corners as well. the painting type and color should be approved by supervisor engineer	2975	M2		
1.15	polish the natural scree (Hillan) of the external walls	using polish machine and mixer of white cement with dust to treat the scree and fill the joint and keep the corners intense, then glaze with sillar to isolate the scree from the liquid and give shiny appearance. The work include compensate damaged part with quantity not exceeding 20 M2 as per supervisor engineer.	395	M2		
1.16	Skirting (Ceramic Cladding)	Supply materials, tools and labors to remove old skirting and apply new one using ceramic tiles spanish or equivalent(13) cm height and cement mortar 1:3, in steps in front of the building & reception room according to instructions of site engineer. The price includes using cement splatter dash with SBR at rate of 30 Gr.\1 m.l.	86	M.L		
1.17	Exist Sunshade maintenance	Supply materials and labor force to paint the exist shading area with anti-rust painting then with a suitable color. The price include compensating the missing "Kerpy panels 20 M2 Max" and upgrade supports within additional columns and beams if necessary as per instruction of supervisor engineer	150	M2		
1.18	Maintenance of iron interior/Exterior doors	preparation and materials supply and work execution for maintenance to Iron doors and painting with Anti-rust paint and then any suitable color and fix in position with all accessories such as handle, lock, latch and hinges, all as instructed by the supervising engineer. Door size 1.2*2 m	4	PCs		
1.19	Slab Concrete for External area and free spaces	Supply materials and cast plain concrete C20 thickness 15 Cm , the work includes 2 layers of compacted subbase and one layers of BRC 15*15 cm 6 mm thickness and expansion joints filled by mastic each 3 m. the price include removal of exist 20 cm soil and replace with 20 cm thickness sub-base according to the instructions of the site engineer.	75	M2		
1.20	Toilet floor Ceramic	Preperation materials, tools and labor force to demolish current ceramic floor and remove rubble to area approved by local authority and Clad the floor with ceramic tiles (30*30) cm spanish type or equivalent (approved sample) and rough surface with all necessary works on a layer of cement sand mortar 1:3 for the bathrooms according to instructions of site engineer.Price include fill the joints with white Cement and ensure curing for all the applied Ceramics	25	M2		

1.21	Toilet wall Ceramic	Preparation materials, tools and labor force to demolish current ceramic walls and remove rubble to area approved by local authority and Clad the toilets Walls with ceramic tiles (30*30) cm spanish type or equivalent (approved sample) with all necessary works on a layer of cement sand mortar 1:3 for the bathrooms according to instructions of site engineer. Price include fill the joints with white Cement and ensure curing for all the applied Ceramics. Works of Cermaics should be leveled Horizontally and Vertically	50	M2		
1.22	Shading Area (7*12)m	supply materials and construct key span shading area 0.6 mm thickness with water channels 2 mm thickness, the columns and the beams are from square steel pipes 4 inch , 3 mm thickness fixed to the ground, the height of the shading area from the sides 2.5 m and inclination height not less than 0.5 m with all necessary works painting , welding and cast the floor with reinforced concrete 15 cm thickness with a layer of BRC 6 mm thickness according to the instructions of the site engineer	74	M2		
1.23	Slide Door Maintenance	Preparation, materials and work execution for maintenance the exist iron slide door. The works include repair the damage parts, painting Door with anti-rust and suitable color, replace the lock and handles as per instruction of supervisor engineer. door size 4.2*2.5	1	PCs		
1.24	Aluminum windows	Supply materials and labor force to install Aluminum windows (2*2)m turkey made asistal or equivalent. The price includes install new steel frames inside the walls which the windows will be fixed on the frame and must be painted by antirust paint and wall treatment by plastering and painting. The works includes Fixing Steel Rectangular Pipe , glass pan 6 mm and rubber. All other required works according to drawings and instructions of site engineer	4	M2		
1.25	Outside Steel Doors (1*2 m)	Supply and provide materials to install steel door (1*2.1)m with frame. The price include painting with anti-rust painting then with suitable painting, Hinges, latche and handle. Door design should be half-glazed from Karetal iron.	4	PCs		
1.26	Maintenance of Iron windows	preparation, materials supply and work execution for maintenance iron windows with the dimensions (1.2*1.8) m, the price includes accessory handles and Anti-flees cover and painting, " installation of glass 4 mm if broken" with all other accessories and as instructed by the supervising engineer.	28	PCs		
1.27	PVC Doors	Preparation, materials supply work execution to replace standards internal Turkey PVC door or equivalent , work including fix the door frame on the wall and all door accessories such as handle, lock and hinges doors dimension 1.0x 2.1 meter or less PVC type. Locations as per supervising Engineer	6	Pcs		
1.28	Aluminum Door and Partion	Preparation, materials supply work execution to install Aluminum Doors and Partions (1.65*1.45)m2 turkey made asistal or equivalent. The price include install new steel frames inside the walls which the partion and door will be fixed on the frame and must be painted by antirust paint and wall treatment by plastering and painting. The works includes Fixing Steel Rectangular Pipe , glass pan 6 mm and rubber. All other required works and curving according to drawings and instructions of site engineer	2.5	M2		
1.29	Sandwich Panel covering	Provide materials, labor force to cover Ceiling of Mayor office by Sandwich panel thickness 5 cm with density 40 Kg/M3. Fixing should be as per instruction of supervisor engineer and considering the connection positions should be treated by Silicon. The price include fixing by Bolts and rubber nets with all requirements to complete the works and painting the exist structure with anti-rust painting and suitable color.	75	M2		

Total Civil Work in USD

Part 2) PLUMBING WORK

2.0	wall mounted western toilet	Supply and install ceramic western toilet and flush tank, the work include all fitting required and connect it with sewerage system and install, connect Pidet ½ " with source of water. bultin Flush tank, water float and plastic cover should be a part of western toilet. toilet seat should be placed at height 42 Cm from ceramic floor and glued with white silicon at area of connection with floor as per instruction of supervisor engineer. The toilet is equipped with, toilet paper holder, spare paper holder	2	PCs		
2.1	Installing eastern toilet	Supply of materials, tools and manpower to install a new ceramic eastern toilet and flush tank. Including proper swerage and water connection and siphon installation.gully trap Ø100mm (4"), flexible hose 5mm, Pidet ½ " with source of water, angle valve and ensure the drain of water to the manhole and All needed work to complete the job will be included within the price as per instruction of supervisor engineer. The toilet is equipped with, toilet paper holder, spare paper holder	3	PCs		
2.2	Water Tank	Supply and install storage water tank (1000) L in size, PVC type of Minimum three layers reinforced. the price includes the installation and connecting of Plastic pipes measuring 3/4 inch, complete with valves, overflow, floating valves, drain inlets and outlets PVC with all necessary fittings and seat blocks should be place above the building.	4	PCs		

2.3	Installing wall-mounted handwash basins with water mixer	size 0.45 m x 0.45 m and sink height should be 0.8 m from the floor. the work includes high pressure connection steel hose, chromium plated stop valves, two angle valve, flex drain hose and all related accessories, and including connecting to the tanks. All needed works, Paper towel dispenser out of stainless steel, liquid soap dispenser out of white plastic to complete the job will be included within the price. Note: Water mixer handle should be valve handle at a height of 0.90 m from the floor.	5	PCs		
2.4	PVC or PP sewerage pipes DN 100 (4") diameter	UV-resistant and high pressure. Supply and install (4") dia. PVC pipes egyptian origin or equivalent with all necessary materials and cleaning openings according to the instructions of the site engineer with all necessary work. Including all fittings and attachments.	30	M.L		
2.5	Polypropylene PPR cold/warm water supply pipes Dia. 1/2"	For conducting concealed, in the walls, or false ceiling. Insulated in 5mm thick foam rubber hoses. Bursts of insulation must be sealed with adhesive tape. Supply and install 1/2" dia. PPR pipes with all necessary materials, fittings and attachments. Pipe clamps with hanger bolts in sturdy galvanized fabrication, with rubber insert, at a distance of 1.5m. egyptian (Amal Al-Shareef), germany or equivalent , sampling required!	30	M.L		
2.6	Water Taps 1/2"	Supply and install chromium water tabs ½ " with all fitting and pipes of European manufacture, Type as per supervisor Engineer	3	PCs		
Total Plumbing Work in USD						
Part 3) Electrical Works						
3.0	Lighting Fixture Led 45 Watt (false ceiling)	square or circle white colour for mounting in false ceiling as per instruction of supervisor engineer. Price includes all necessary cable 3 x 1,5mm2 or 3 x 2,5mm2 (HES, Nexans, Prysmian or equivalent), switches and trunks, plastic pipes or conduits fit for purpose.	10	PCs		
3.1	Electric air ventilator	for WC's With all necessary accessories and switches, plastic pipes, conduits. Price includes (3*1.5 mm2) or 3 x 2,5 mm2 (HES, Nexans, Prysmian or equivalent). With self-acting external louvres and contact protection inside Size 6".	6	PCs		
3.2	Switch Socket, 13 A, 230 V AC	incl. central sheet and cover-frame, execution programme according to single description, protective degree IP 2 X, appliance-unit fixing and if necessary with screws and flush mounted box, includes if necessary, cable or 3 x 2,5 mm2 and connections to final distribution line board (Schneider or equivalent) fit for purpose.	12	PCs		
3.3	Air cooler device 2 Ton Capacity	he work include install Split 2 tons units 24,000 BTU Single phase of heating and cooling invertor R410 Economic and environmental (TOSOT or equivalent) with good electrical protection device and with Circuit 30 amp MCB installed as per instruction of supervising Engineer. the price include wire connections using 3*4 mm2 and AC condensate dewatering: PVC or PPR pipes, DN 32.	2	PCs		
3.4	Air cooler device 1.5 Ton Capacity	he work include install Split 2 tons units 24,000 BTU Single phase of heating and cooling invertor R410 Economic and environmental (TOSOT or equivalent) with good electrical protection device and with Circuit 30 amp MCB installed as per instruction of supervising Engineer. the price include wire connections using 3*4 mm2 and AC condensate dewatering: PVC or PPR pipes, DN 32.	1	PCs		
3.5	Ceiling fan	Supply and installation ceiling fan, 3 blades, 120cm length, including regulator, including ceiling hook etc. Using wires (3 * 1.5) mm 2 and in specific places, according to the selection and guidance of the supervising engineer .	2	PCs		
3.6	Energy save light 100 watt	Install and operate a surface type ceiling/wall mounted single fluorescent nextlite or equivalent ,100 watt with all wiring system(2x1.5mm2) and switches, as per the approval of supervisor engineer.The work include connect electrical switch to the source and fluorcent to the switch type and route decide as per supervising engineer	14	PCs		
3.7	Out door wall lamp fixtures Lighting Fixture Led 50 Watt	(hemispherical) four outside building and fence corners, waterproof black colour. Best type in the market, the price includes cable (3 x 2.5 mm2) (HES, Nexans, Prysmian or equivalent) & switches and trunks, plastic pipes or conduits fit for purpose and all accessories best quality according to instruction of site engineer.	4	Pcs		

3.8	Stand Electric warm water heater 120 liter	<p>with 10mm insulation of Polyurethane foam and thin sheet jacket. For Showers of Annex Building Including:</p> <ul style="list-style-type: none"> - Electric Connection with all necessary wires 4*2 mm and 32 Amp Circuit breaker. - 2 pcs heating elements with each 1500 watt - All necessary supply and sewerage pipes: Check valve (3/4") and Safety valve (3/4") - two Inclined seated shut valve for cold water and hot water inlet (3/4") 50mm diameter for dripping extension water of safety valve. <p>The tank is placed on a galvanized steel frame and rubber pads to avoid direct contact with steel or reinforced concrete pedestal sampling required</p>	2	Pcs		
Total Electrical Work in USD						
Part 4) Generator house ad hoc						
4.0	Concrete Base	<p>supply materials and cast concrete slab 20 cm thickness with mixture 1:2:4 reinforced with steel bars 12mm two layers (10 cm c/c) over a layer of sub-base 15 cm and surrounded by soil concrete blocks.</p> <p>The price includes cement plastering for the walls (inside and outside) according to the drawings and instructions of the site engineer.</p>	7.2	M3		
4.1	Generator House	<p>provide material and install a generator house 6*6 m and height 2.5 m (for the generator and the fuel tank) made of steel frame (5x5 cm, 2mm thickness) and covered by of BRC 5x5cm, 5mm for the sides and by Kerby for the roof, the price includes installing a door (2x1 m) and a galvanized steel plate exhaust to be connected to the exhaust of the generator and painting of the frame with 2 layers of anti-rust paint and 1 layer of colored paint.</p> <p>According to the drawings and instructions of the site engineer.</p>	1	L.S		
4.2	Fuel Tank	<p>supplying fuel metal tank, capacity 1000 liter of 4 supports, guage 16 with fuel filter and volume meter.</p> <p>The price includes connection between tanks and Generator with all fitting required as per instruction of supervisor engineer</p>	1	Pcs		
Total Generator Lot in USD						
1	Total Civil Work in USD					
2	Total Plumbing Work in USD					
3	Total Electrical Work in USD					
4	Total Generator Lot in USD					
TOTAL						

Heet building Sub-Directorate Rehabilitation and Storage construction Cost Summary		
No	Description	Cost (USD)
1	Agriculture Heet SubDirectorate	
2	Storage & WC & Reception room	
3	Women WC	
4	Mayer office	
Total		

Important notes and conditions	ملاحظات و شروط مهمة
<p>01- Access situation to the site premises has to be checked in advance.</p> <p>02- All the work items should be according to IRAQI General Technical Specifications (IGTS), all applicable Iraqi standards, Iraqi construction codes, Iraqi general conditions for the civil engineering works' contracts (part 1 & part 2), and the Iraqi general conditions for the electrical, mechanical, and chemical engineering works' contracts.</p> <p>03- All materials must be NEW from best type and passed the lab tests as approved by supervisor. .</p> <p>04-The unit prices include transportation and providing the materials mentioned in the BoQ.</p> <p>05-The contractor shall prepare a Time Schedule for the whole project.</p> <p>06- The contractor must set up project boards.</p> <p>07- All works in the Bill of Quantities will be done according to supplied design details, specifications, instructions and directions of supervisor.</p> <p>08- The contract will be executed as "re-measurement contract" with exact values according to the Iraqi standards not to the common market measuring procedure.</p> <p>09- Bidder MUST fill these excel sheets as soft copy and send them within the financial offer.</p> <p>10- Bidder MUST print the pdf sheets, fill them by handwriting, sign and stamp every sheet, and scan and send them as a soft copy within the financial offer.</p> <p>11- Bidder MUST submit a work schedule timeline with a total duration NOT more than four months..</p> <p>12- Submitting bid means that the bidder has read all these conditions and notes and accepts all the conditions.</p> <p>13- Bidder MUST carefully read and follow Bidding conditions document, failure to follow this document leads to exclusion of the offer.</p>	<p>يجب التأكد من وضع الطريق و امكانية الدخول الى مناطق العمل مقدما</p> <p>جميع الاعمال يجب ان تكون وفق المواصفات العامة العراقية, جميع المواصفات القياسية العراقية النافذة, مدونة الانشاءات العراقية, الشروط العامة لمقاوات اعمال الهندسة المدنية بقسميها الاول والثاني العراقية, و الشروط العامة لمقاوات اعمال الهندسة الكهربائية و الميكانيكية و الكيمائية العراقية.</p> <p>جميع المواد المستخدمة يجب ان تكون جديدة و من افضل نوعية و خاضعه للفحص المختبري و حسب موافقة المشرف</p> <p>اسعار الفقرات تشمل النقل و توفير كافة المواد و المستلزمات كما في جدول الكميات</p> <p>المقاول يجب ان يعد مخطط زمني للمشروع</p> <p>على المقاول نصب لوحات دلالة للمشروع</p> <p>جميع الاعمال في جدول الكميات يجب ان تنفذ حسب التصاميم و المواصفات المذكورة و حسب توجيهات المشرف</p> <p>يتم تنفيذ المشروع بطريقة الذرع الموقعية و بالذراعات الحقيقية حسب المواصفات الهندسية العراقية و ليس حسب الطرق الشائعة</p> <p>يجب على مقدي العطاءات ملئ جداول الاكسل المرفقة و تقديمها بصيغه اكسل مع العرض المالي</p> <p>يجب على مقدي العطاءات طباعه جداول الكميات بصيغه (بي دي اف) ثم ملئها يدويا ثم تصويرها الكترونيا ثم ارسالها بملف بصيغة (بي دي اف) مع العرض المالي</p> <p>يجب على مقدي العطاءات تقديم مخطط زمني لجدول تقدم العمل بمدة عمل كلية لا تزيد عن أربعة اشهر</p> <p>تقديم العطاء يعني قراءة هذه الشروط و الملاحظات و الموافقة عليها من قبل مقدي العطاءات</p> <p>على مقدي العطاءات قراءة مستند شروط التقديم بعناية و اتباع تعليماته, الفشل في اتباع هذا المستند يؤدي الى استبعاد العرض</p>