



KINGDOM OF SAUDI ARABIA
THE SAUDI FUND FOR DEVELOPMENT (SFD)

PROJECT NAME

Reconstruction and repair works of more than 150 effected houses for non-refugees and
Rehabilitation and Furniture for field playgrounds and a culture center

Lot#10-B

Construction Of The External Toilet Units in Beit hanoun playgrounds

DONATED BY

Kingdom of Saudi Arabia through the Saudi Fund for Development (SFD)

EMPLOYER

United Nations Relief and Works Agency (UNRWA)
Through United Nations Development Programme (UNDP/PAPP)

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Bill No (A): Beit Hanoun Toilet Block

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
	General Notes: 1- Complete detailed shop drawings should be submitted to the Engineer for approval prior the commencement of work. Samples of all materials shall also be delivered to the Engineer to take his approval, 2-Contractor shall take into consideration that all – direct and indirect works and their relevant expenses required for proper implementation of the project including temporary facilities, fencing, securing utilities (water, wastewater, telephone and electricity systems) 3-The contractor will expect that more than one contractor will be carrying out works in the play ground at the same time, the Contractor is presumed to make all necessary coordination and facilitate accessibility to and other work-related issues 4-All works and installations listed here below should be carried out, tested and commissioned by specialized responsible skilled labours in full coordination with play ground administration , all in accordance with drawings, specifications and relevant standards, and the instruction of the Engineer. The Engineer has the right to reject any component of the work not complying with the specifications and the terms of the contract. The site exists in premises for sport club that is used during implementation. Accordingly , safety measures to protect the people, buildings and utilities will be strickly applied including steel fence. The unit rates include all such costs.				
1.Excavation & Earth Works					
	Contractor shall take into consideration that all – direct and indirect Works and expenses required for the completion of the coming items are included in the unit price. Measurement is engineering measurement. All Works must be according to drawings, specification and engineer instructions. Rates shall include : 1. Shoring the sides of excavation and preserving the adjacent buildings as well as existing infrastructure utilities (sewage, water, telecommunication and electricity Works). In case of damages that may incur, all relevant necessary repairs will be the contractor responsibility to cover its relevant costs. 2. Cleaning the site and removing all debris, surplus unwanted materials and rubbles to approved dump site. 3. Backfilling in layers not more than 25cm thick for each layer and compaction to 98% of MDD. 4. All required Tests by an accredited laboratory. 5. The cadastral survey and leveling of existing status at grids not exceeding 5 m in both directions. 6. part of the toilet unit is inside the existing boundary wall. The price include to demolish the boundary wall and reinstate the tile and the boundary wall by the contractor expense 7.Leveling and backfilling from imported sand dune in case excavated materials are not approved for backfilling and up to the level of the top of external ground beams levels and to the formation level of apron and surrounding landscaping.				
1.1	Excavation in any soils until level below the replacement layer including supplying and backfilling with imported sand material around replaced soil, foundations & any other element up to ground slab level in layers not more than 25cm thick for each layer with compaction to 97% of MDD. The price also includes transportation of the surplus unwanted excavated material to approved dump area according to engineer's instructions. Water and necessary equipment all according to engineers's instruction.	L.S	1		

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
1.2	Supply, fill & compact Kurkar material below foundations with 1 m thickness with (CBR> 30) according to drawings in layers not more than 25cm thick for each layer with compaction to 98% of MDD. The work must be carried out according to the specifications, drawings & the engineer's instructions. The price includes excavation and transfer of any samples unwanted materials to approved dump area, water, all according to engineer's instructions.	M ³	30		
Total					
2. Concrete Works.					
	<p>Rates of Concrete Works shall include:-</p> <ol style="list-style-type: none"> 1. All form Works and shuttering (new lumber for shuttering painted by special oil (fuel or burnt oil is not accepted) in any form, shape and size . Making chamfered and curved edges, allowing for and making grooves and sleeves and using Tie Rods (Batant) for concrete walls ; removal of forms and cleaning of all exposed tie wires and rods. Steel forms must be used in shuttering the external decorations. 2. Supplying, Casting, vibrating and curing as per specifications. 3. Approved additives and admixtures. 4. Developing new Concrete Job Mix Designs, Sampling , testing and providing test results certificates, storing and saving of samples. 5. Painting of exposed surfaces of underground reinforced concrete elements with two coats of hot bituminous paint (75/25) after primer layer , the strokes of each layer to be opposite to each other. 6. Preliminary installations for Electrical, plumbing and floor drainage in floor slabs including final floor slab. 7. Compaction and testing under the foundation, ground beams, ground slabs and Apron. the compaction should not be less than 98% of MDD. 8. All Works according to specifications , drawings and supervisor engineer instructions 9. Supply, fabricate and fix reinforcement steel (fy= 410 N/mm2) for all the structural elements according to drawings and engineer's instructions for any grade, size and length as detailed in the drawings, storing on site including cutting, bending and fixing in position and providing all tying wires, spacers, shop drawings, testing and bar bending schedules .All Works according to specifications , drawings and supervisor engineer instructions 10. In rehabilitation Works, supply fabricate and fix steel dowels to the existing concrete using special materials. In case of lapping with existing steel reinforcement, rates will include cleaning rust and treatment with special materials 11. In case after excavation the new columns locations and relevant footings coincide with the existing ones, the contractor will make modification to adapt implementation to the existing conditions and deemed to include in his rates relevant costs accordingly. <p>All rehabilitation Works will include the necessary extra steel reinforcement and concrete to be applied in layers if necessary in addition to the necessary special materials and accessories.</p>				
2.1	Supply and cast ready mix plain concrete B (200) kg/cm2 for Blinding beds 5 cm thick including polythene sheets as per specifications and drawings.	M3	1		
2.2	Supply and cast ready mix reinforced concrete B(250) kg/cm2 for the ground slab 8cm thick with steel mesh 8mm diameter every 20cm including polythene sheets below concrete slab and compacting the soil beneath the slab to 98% of MDD.as per specifications and drawings	M2	25		

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
2.3	Supply and cast ready mix reinforced concrete B (300) kg/cm2 for foundations (isolated, strip footing, strap & inverted T sec.) as per specifications and drawings.	M3	4		
2.4	Ditto but for ground beams.	M3	4		
2.5	Ditto but for sills, lintels, coping, concrete wall .etc.	M3	2		
2.6	Supply and cast ready mix reinforced concrete B (300) kg/cm2 for columns and columns necks as per specifications and drawings.	M3	3		
2.7	Supply and cast ready mix concrete B (300) kg/cm2 for suspended slab 25cm thick, including the reinforced steel, concrete hollow block 40*25*17 cm all drop and inverted beams everywhere in the slab and all other materials as per specifications and drawings.	M2	42		
2.8	ditto, but B250 reinforced concrete for Apron 10 cm thick including edge beam (surface treated with mechanical steel troweled finish) the price include polythene sheets. Reinforcement Ø 8mm / 15 cm in both way and reinforced edge beam with dimensions 20*30cm as well as expansion joints. The price including leveling, 20 cm thick compacted Kukar to 100% of MDD and making of expansion joints including its approved filling materials (sika flex or equivalent) according to drawing and specification.	M2	30		
Total					
3. Building Works					
	The price include: 1- supplying hollow or solid cement block from good and approved factory in perfect dimension and build it in good manner with a compressive strength 35 kg/cm2 for hollow block and 60 kg/cm2 for solid block. This item will include cement mortars, galvanized steel ties, reinforced concrete infill (B250) between columns & block walls (10-20 cm wide) with 1Ø8mm/40cm horizontally and 2Ø8mm vertically according to drawings, pipes encasement, false columns 20x20 cm/4.0m among the parapet wall with 4Ø12mm and bituminous paper between block work and drop beams and testing as well as all requirements needed to finish the Works according to the drawings, specification and to the supervision engineer instructions.				
3.1	Supply and build hollow cement blocks 40x20x20cm	M2	60		
3.2	Ditto but 40x20x 10 cm thick.	M2	25		
Total					
4.Aluminum, Carpentry & Metal Works					
	The items include supplying aluminum windows section 7000 matching the existing ones, with min. wall thickness 1.5mm (to be approved by representative engineer) as frame, glass 4 mm thick, ironmongery , accessories and hard ware along with fixing as per specification and drawings. Steel work should be properly treated and prepared, painted with two coats of Hamer paint, one primer (polyzinc) and one undercoat. The price shall include removing the damaged aluminum and steel Works and handing to the play ground admistration.				
4.1	Supply and fix colored aluminum window section 7000 type WA1 overall size225 x 50cm, complete with frame, four sliding leaves ,clear glass 4mm thick, ironmongery and hardware. and as per specification and drawing.	No	2		
4.2	Supply and install colored aluminum window section 4500 type WA2 overall size60 x 40cm, complete with frame, hinged ,clear glass 4mm thick, ironmongery and hardware. and as per specification and drawing.	No	6		
4.3	Supply and fix flush galvanized steel double external door D.S1 size (100 x220), new double sheets (2-mm thick), complete with frame 3mm thick, ironmongery, hardware and one primer coat, one under coat and minimum two coats of colored hummer paint, with hard ware locked type Viro switch or equivalent and all requirement as latches, locks...etc. as specified in the drawings and specifications .	No	1		

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
4.4	Supply and fix flush galvanized steel single internal door D.S1 size (80 x220), one single sheets (2-mm thick), complete with frame 3mm thick, ironmongery, hardware and one primer coat, one under coat and minimum two coats of colored hummer paint, with hard ware locked type Viro switch or equivalent and all requirement as latches, locks...etc. as specified in the drawings and specifications .	No	6		
4.5	Supply and fix steel protection for windows .the prices including mild steel frame size 40 x 8mm thick, vertical steel plate size 20mm wide x 8mm thick fixed every 12cm (clear distance), decorative circles 20x2mm, all by welding to the frame. Fixed on walls by steel angle ties and plates, painting with one coat of primer, undercoat and at least two coats of hummer paint, all according to drawing, specification and engineer instructions.	m2	6		
4.6	Make opening in the existing boundary wall including supply and install galvanized steel double leaves window size 80* 100 ew single sheets (2-mm thick), complete with frame 3mm thick, ironmongery, hardware and one primer coat, one under coat and minimum two coats of colored hummer paint, with hard ware locked type Viro switch or equivalent and all requirement as latches, locks...etc. as specified in the drawings and specifications. the price include reinstating the finishing around the opening according to engineer instructions.	No	2		
Total					
5. Finishing Works					
	A- Plaster Works All Works must be according to drawings, specification and engineer instructions. Rates shall include : 1-Supply of all needed materials, including galvanized angles for the corners, windows and external decoration as well as the use of galvanized wire mesh between concrete and block work. 2-Preparation Works by covering all conduits of electricity, water supplies , etc., with a galvanized wire mesh at least 20cm width coated by mortar (1:1) cement : sand and the work includes removal of wires and nails and cleaning of surfaces to be ready for plastering. 3- Contractor shall take into consideration that all – direct and indirect Works and expenses required for the completion of the coming items are included in the unit price. 4-Trimming of concrete chippings, removing the wires and etc. and cleaning of existing surfaces to be ready for plastering. 5- Checking out all of the preliminary installation in ceilings and walls such as Electrical, water supply and waste water pipes and repairing the damages if anv. 6- Curing with water for at least three days for each coat. This should be done prior to commencement of plastering and after obtaining a written approval from the supervision engineer. B- Tiles Works All Works must be according to drawings, specification and engineer instructions. Rates shall include : 1. Samples for approval and all the required tests. 2. Cleaning, mechanical polishing and pointing using grout. 4. Plastic angle beads for ceramic wall tiles at the corners and top and sides of ceramic edges. 5. Local marble must be Grade (A) free cracks and clay flaws. 6. Measuring the stockpiled quantities of tiles and obtaining the engineer approval prior to shipment to the site. 7.Transporting and carefully handling the stored quantities to the site.				

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
5.1	Supply and make internal plastering 13 mm thick for ceiling ,walls and soffits. The work includes rough primer nail rendering to form a key with (mix 1:1) cement sand, second layer 13mm: Base-Coat "Rendering" with (1:3:0.25) cement: sand : lime and third layer: Finishing Coat with (1:1:1) cement: sand : lime . Works include all materials needed to finish the Works according to specifications , drawings and supervisor engineer's instructions	M2	40.00		
5.2	Supply and make external plastering 20mm thick to walls with three faces : the first is the rough nail rendering (mix 1:1) cement sand; the second is 5mm thick mortar (mix 1: 2) cement: sand, the third is the undercoat 13mm (mix 1: 3 :0.25) cement:sand:lime, and all is according to specifications , drawings and supervisor engineer's instructions	M2	100.00		
5.3	Supply and make one coat of primer and colored external plastering (Italian plastering) according to specifications ,price includes drawings and logos specified by the supervisor engineer's instructions. Colores will be selected by engineer.	M2	100.00		
5.4	Supply, install and fix 200x200mm Floor un-glazed ceramic tiles, of European type, including cement mortar bed, cleaning, pointing and polishing .	M2	35.00		
5.5	Supply, install and fix 200x200mm wall glazed ceramic tiles, of European type, including cement mortar bed, cleaning, pointing and polishing .	M2	130.00		
5.6	Supply and install local marble 25cm wide x 3cm thick of the floor tiles including smoothing edges as per specifications and drawings.	.Mr	10.00		
5.7	Supply and make internal Emulsion painting for ceiling . The work includes fines the surface by using the following coats: 1-tow coats of bandrol, 3 coats of white washable acrylic emulsion paint . Works include all materials needed to finish the Works according to specifications , drawings and supervisor engineer's instructions	M2	40.00		
Total					
6-Isolation works					
6.1	Supply and cast foam concrete with fine aggregates for roof screeding of average thickness 10 cm as shown in drawing.	M2	35.00		
6.2	Supply and lay one layer of plasticized bitumen roofing membrane with chipping 4 mm thick, including priming concrete surface prior to laying, dressing into rainwater outlets to form waterproofing seal and cover with angle fillets. The rate includes verticals parts skirting as per specification and drawings.	M2	40		
	Note: Measurement will be for the horizontal projection				
Total					
7. Mechanical works					
	(1)In general rates for Mechanical works shall include for: 1. Developing shop and as built drawings 2. Cutting and forming all chases, recesses, holes, and the like, 3. Pipe sleeves, 4. Building of concrete and/or brick ducts in floors, walls ...etc., 5. Excavation, forming of trenches for services, concreting, bedding and back filling and ramming after laying, 6. Fixing brackets, clips, holder bats, hangers, and the like, 7. Temporary and final fixing, 8. Nails, screws, bolts, nuts, washers, holes, plugs, sleeves and the like, 9. Building in or cutting and pinning, 10. Testing and drawings, 11. Painting of pipes, 12. All work of other trades in connection with Mechanical work including all making good.				

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
	(2) Rates for manholes and pits shall include excavation, concrete, benching, plastering, backfilling and cover as per Drawings and Specifications, (3) Rates for sanitary fittings, isolated taps and gullies shall also include all pipe work in connection therewith and connections thereto including connection to the nearest manhole or gully and to the cold water storage tank. (4) Rates for pipe work including pipe work in frames to shading sheds shall include for: 1. Joints in the running length, 2. Nipples, connections, sockets, ferrules, couplings, back nuts, unions, and the like, 3. Bends, elbows, tees, reducers, access doors, cleaning eyes, blank caps, stop valves, and the like, 4. Welded joints and connections including grinding, 5. Lagging and wrapping, 6. Excavation, bedding and backfilling.				
	Sewage Works:-				
7.1	Supply and install concrete manhole of internal diameter 60 cm ,and (50-100) cm depth according to the required level, 10cm thick plain concrete for walls and base, slab, with cast iron cover with frame 50cm opening, 8 ton bearing capacity, including excavation, backfilling, hunching and making good according to specification, drawing and the engineer instructions	No	7		
7.2	Supply and install Floor Trap Gully (F.T.G) Ø 4", Including Stainless steel Covers,Ø 4" pipes, vent. pipes, cap for ventilation pipes and connected to out site manhole, with all connections and fittings.	No.	10		
7.3	Ditto but Floor Clean Out Ø 4", Including Stainless steel Covers, piping , with all connections and fittings.	No.	2		
7.4	Supply and install UPVC pipeØ 6" (SN8) including excavation for trench, backfilling, compaction, fittings , and all connections .	Lm	25		
	Drainage (Rain Water) Works:-				
7.5	Supply and install Roof Trap drain Ø 4", Including Stainless steel Covers,Ø 4" pipes, vent. pipes, cap for ventilation pipes and connected to out site manhole, with all connections and fittings.	No.	2		
	Domestic Water Works:-				
7.60	.Supply and install Collector Box for (CB-T1) hot and cold water distribution system completed with all necessary Rozabita granite boxes 100x50x12 cm(two leaves aluminum door and lock) ,with Italian made connections, fittings ,main valves, valves for each line, the price includes supply, install, connect to fixtures and distribution boxes, and test as shown on drawings and as per specifications for hot water & cold water PE-X pipes 16mm outer diameter and 2.2mm thick wall with flexible polyethylene corrugated conduit of 25mm outer diameter and 20mm inside diameter, with all connections, collectors , records , and as required by drawings , specification and Engineer satisfaction	No.	1		
7.7	Supply and fix water storage plastic tank 1.5 m3 capacity with locks for cover, with approved type not less than 32 kg weight, complete with lockable cover,1 inch diam. automatic float valve, overflow pipe (1" diam), all required pipes (inlet and outlet) ventilation pipe and drip tray, with all connections for rising main and distribution pipe work and stop valves 1" with all accessories as specification and drawings, including painting tanks with white oil paint .	No.	2		
	Finishing Works:-				

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
7.80	Supply and fix white glazed fireclay European W.C. suite (Vitra type - grade A), or equivalent complete with heavy duty cover (Vitra type - grade A) , 9 liter plastic double action flushing cistern, and fixed chromium plated tap 1/2" Tibesa type or equivalent, including all water supply pipes 16mm(Golany) to the nearest dist. box (DB), flushing hose sprayer, glazed fire clay paper holder, angle valves, UPVC drainage pipe connecting to the nearest manhole or sewage header as per specifications , cap for ventilation pipes sprayer hose , all valves , fireclay toilet paper holders white color with all connections, and fittings according to drawings and supervisor engineer instructions..	No.	2		
7.90	Ditto but Oriental type.	No.	4		
7.10	Supply & fix white glazed porcelain squatting W.C.for urinals (vitra type or equivalent) complete with porcelain flushing cistern, pipe hose, 1/2" dia. UPVC 100 cm long flushing pip hose for toilets, including paper holder tiled into block walls (size 15cmx15cm), 4" dia. P.V.C. drainage pipe to the nearest main drainage line, all needed accessories & the pipe concrete encasement. The price includes Rosabitta partition 2cm thick to be fixed into the wall with 40x120cm dimensions	No.	3		
7.11	Supply and fix white glazed fire clay hand wash basin size 56cm x43cm (Vitra type - grade A) or equivalent, complete with all water supply pipes 16mm (Golany) to the nearest distribution box (DB), waste fitting, trap, plug and chain, chromium water mixer (Egmaturn jack, wall mounted type or equivalent), mirror with 60*40 cm dimensions, glazed fire clay soap holder, and the drainage line 2" to the floor trap	No.	3		
7.12	Supply & fix pre-cast terrazzo drinking point units size 214x50x25cm including the followings; - polishing and smoothing, forming slope. - built on 3 concrete piers 15cm thick, at least 3 piers per unit. - required pipes 1/2"and fittings for cold water supply and 4 taps 1/2 " (Hamat type or equivalent). - 2" PVC drainage pipe to the nearest manhole - 60cm high of white glaze tiles above it . - painted steel cover box for protections, wire mesh grill complete with frames and lock, brass grating & complete with all fittings according to the drawing, and specifications	Unit	1		
Total					
7. Electrical works					
	<u>NOTES :</u>				
*	supply and erecting of the electrical works as per drawings, specifications, and engineer's instructions. The price of the following items includes, all necessary junction boxes, wires, conduits, clamps, bolts, connectors and connecting all cables All installation shall be in accordance with : * The drawings , specifications and instructions and demands of the engineer. * The electricity law and electrical code requirements of the BRITISH Standards. *. The unit price includes all Preliminary installations and foundation works for Electrical and telecommunication in floor slabs, walls and grounds with all needed wires, conduits, fittings, boxes, accessories and any other needed materials to complete the job as per engineer instructions. The contractor should refer to the drawings , specifications and other Contract Documents . The prices will be deemed to include for the full cost as described in all Documents.				
A-	DISTRIBUTION BOARD :				

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
*	Supply, install sub-distribution board with 30% spare Sub distribution-board 12 CB capacity The price includes all needed bus bars , neutral and earthing terminal with all necessary accessories and all needed civil works according to engineer instructions , (Type is HAGAR or equivalent),	No.	1		
1	Supply,install MCB 1X25A. (Type is MOELLER FAZ-C25 or equivalent).	No.	1		
2	Ditto but MCB 1X16A. (Type is MOELLER FAZ- C16 or equivalent).	No.	2		
3	Ditto but MCB 1X10A. (Type is MOELLER FAZ- C10 or equivalent).	No.	2		
4	Ditto but, ELCB circuit breaker 2X40/0.03A. (Type is MOELLER FAZ-2- B40-FIM0.03 or equivalent).	No.	1		
B-	LIGHTING FITTINGS :				
*	Supply and install ceiling mounting round led light luminaire (for Toilets) 14 watt with driver ,220 V, with lumen range not less than (70-80 L/watt) ,warm light complete with lamps and needed accessories as per drawings, specifications and according to supervisor engineer instructions. The price includes wires, conduits, fittings, accessories and any other needed materials and workmanship to complete the job as per drawings specifications and the engineer's instructions. (Type is GAASH/ NISKO or equivalent brand name).	No.	10		
1-	Supply, install, connect and test 6 inch extractor fan with 300 m3/h capacity , complete with PVC conduits, J. boxes, louvers, mesh, wiring, and all necessary accessories. (Type is Venta or equivalent).	No.	3		
C-	SOCKETS :				
	supply, install connect and, testing single socket outlet, water proof type 16A, 220v, 2p+E for flush or surface mounting, complete with PVC conduits, J.boxes, covers, wiring, and all necessary accessories. (Type is GEWISS CHORUS or equivalent)	No.	2		
D-	CABLES And Conduits:				
*	Supply,install ,lay and termination of XLPE cable. The price includes supply and install underground PVC pips or Conduits for the underground electrical network as per drawings, excavation works (depth of excavation over the pipes is at least 0.9 m.), laying pipes, sand bedding 10cm around the pipes, backfilling watering and compaction with layers 25cm to 97% MDD and wiring tape. The price includes Dismantling, and reinstating of the existing interlock or any other layers, also includes replacing the damages interlocks, tiles, .. etc with new materials to match the existing one, as per supervisor instructions				
1	Supply, laying and termination of XLPE Cu (3X4)mm2 including pvc Condiutes 2 inch.	L.M	60		
Total					

Summary of Toilet building

DESCRIPTION	Total Amount \$
1. Excavation & Earth Works.	
2. Concrete Works.	
3. Building Works	
4. Aluminum, Carpentry & Metal Works	
5. Finishing Works	
6. Isolation	
7..Mechanical works	
8. Electrical Works	
Sub total (\$)	

Bill No (B): Al Yarmouk play ground

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
1.Aluminum, Carpentry & Metal Works					
	The items include supplying aluminum windows section 7000 matching the existing ones, with min. wall thickness 1.5mm (to be approved by representative engineer) as frame, glass 4 mm thick, ironmongery , accessories and hard ware along with fixing as per specification and drawings. All maintenance Works include all needed materials for reinstatement and workmanship. Steel work should be properly treated and prepared, painted with two coats of oil paint, one primer (polyzinc) and one undercoat. The price shall include removing the damaged aluminum and steel Works and handing to the play ground admistration.				
1.1	Supply and fix colored aluminum window section 7000 type WA1 overall size160 x 120cm, complete with frame, white color, four sliding leaves ,clear glass 4mm thick, ironmongery and hardware. and as per specification and drawing.	No	2		
1.2	Ditto but for half circle windows for the spetator according to drawings.	M2	20		
1.3	Supply and fix colored aluminum window louver type, overall size 60 x 60cm. complete with frame, glass strips 4mm thick, ironmongery and hardware as per specifications, drawings and engineer's instructions.	No	2		
1.4	Supply and fix flush galvanized steel double external door D.S1 size (100 x220), galvanized steel sheets (2-mm thick), complete with frame 3mm thick, ironmongery, hardware and one primer coat, one under coat and minimum two coats of colored hummer paint, with hard ware locked type Viro switch or equivalent and all requirement as latches, locks...etc. as specified in the drawings and specifications .	No	3		
1.5	Supply and fix steel protection for windows with all sizes .the prices including mild steel frame size 40 x 8mm thick, vertical steel plate size 20mm wide x 8mm thick fixed every 12cm (clear distance), decorative circles 20x2mm, all by welding to the frame. Fixed on walls by steel angle ties and plates, painting with one coat of primer, undercoat and at least two coats of hummer paint, all according to drawing, specification and engineer instructions	m2	8		
1.6	Supply, fix Aluminum single door section P1001 single leaves door type D5, overall size 80 x 220 x 4.5cm the price includes 4mm thick fiber board , 6mm Reinforced glass and high quality European switch, iron mongeries and all required accessories to complete the work according to specifications and engineer's instructions.	No	1		
1.7	Supply and install galvanized steel profile 80x40x2mm to be fixed on the longitudinal direction on each step in the VIP area in Al-Yarmouk playground western grand stand. The price includes all the supports, bolts and the base plates needed to fix profile according to the Engineer instructions.	M.R	70		
Total					

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
2. Finishing Works					
	B- Tiles Works All Works must be according to drawings, specification and engineer instructions. Rates shall include : 1. Samples for approval and all the required tests. 2. Cleaning, mechanical polishing and pointing using grout. 4. Plastic angle beads for ceramic wall tiles at the corners and top and sides of ceramic edges. 5. Local marble must be Grade (A) free cracks and clay flaws. 6. Measuring the stockpiled quantities of tiles and obtaining the engineer approval prior to shipment to the site. 7. Transporting and carefully handling the stored quantities to the site.				
2.1	Supply, install and fix 200x200mm Floor glazed ceramic tiles, of European type, including cement mortar bed, cleaning, pointing and polishing .	M2	6.00		
2.2	Supply, install and fix 200x200mm wall glazed ceramic tiles, of European type, including cement mortar bed, cleaning, pointing and polishing .	M2	15.00		
2.3	Supply and install local marble 25cm wide x 3cm thick of the floor tiles including smoothing edges as per specifications and drawings.	Mr	3.00		
2.4	Supply and make internal Emulsion painting . The work includes fines the surface by using the following coats: 1-tow coats of bandrol, 3 coats of white washable acrylic emulsion paint . Works include all materials needed to finish the Works according to specifications , drawings and supervisor engineer's instructions.	M2	80.00		
2.5	Supply and install high quality Granite 2cm thick (Tiger) for top cover of buffet bench. The price includes granite Rozabita grade A for two direction supporting including aluminum doors (kitchen doors), floor, mid separators, marble necessary to close around and bottom of sink, and shelves, skirting and all accessories, fitting and making holes for sinks and water and gas supply as per specification and drawings and to be approved by the representative engineer.	M.R	2.50		
Total					

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
3. Mechanical works					
	<p>(1) In general rates for Mechanical works shall include for:</p> <ol style="list-style-type: none"> 1. Developing shop and as built drawings 2. Cutting and forming all chases, recesses, holes, and the like, 3. Pipe sleeves, 4. Building of concrete and/or brick ducts in floors, walls ...etc., 5. Excavation, forming of trenches for services, concreting, bedding and back filling and ramming after laying, 6. Fixing brackets, clips, holder bats, hangers, and the like, 7. Temporary and final fixing, 8. Nails, screws, bolts, nuts, washers, holes, plugs, sleeves and the like, 9. Building in or cutting and pinning, 10. Testing and drawings, 11. Painting of pipes, 12. All work of other trades in connection with Mechanical work including all making good. <p>(2) Rates for manholes and pits shall include excavation, concrete, benching, plastering, backfilling and cover as per Drawings and Specifications,</p> <p>(3) Rates for sanitary fittings, isolated taps and gullies shall also include all pipe work in connection therewith and connections thereto including connection to the nearest manhole or gully and to the cold water storage tank.</p> <p>(4) Rates for pipe work including pipe work in frames to shading sheds shall include for:</p> <ol style="list-style-type: none"> 1. Joints in the running length, 2. Nipples, connections, sockets, ferrules, couplings, back nuts, unions, and the like, 3. Bends, elbows, tees, reducers, access doors, cleaning eyes, blank caps, stop valves, and the like, 4. Welded joints and connections including grinding, 5. Lagging and wrapping, 6. Excavation, bedding and back-filling. 				
3.1	Supply and install Floor Trap Gully (F.T.G) Ø 4", Including Stainless steel Covers, Ø 4" pipes, vent. pipes, cap for ventilation pipes and connected to out site manhole, with all connections and fittings.	No.	1		
3.2	Supply and fix water storage plastic tank 500 litter capacity with locks for cover, with approved type not less than 14 kg weight, complete with lockable cover, 1 inch diam. automatic float valve, overflow pipe (1" diam), all required pipes (inlet and outlet) ventilation pipe and drip tray, with all connections for rising main and distribution pipe work and stop valves 1" with all accessories as specification and drawings, including painting tanks with white oil paint . the price also includes galvanized steel stand 40 cm height with required 5cm wood under water tank and painting with one primer coat and two coats of hummer paint.	No.	1		
3.3	Supply and fix white glazed fireclay European W.C. suite (Vitra type - grade A), or equivalent complete with heavy duty cover (Vitra type - grade A) , 9 liter plastic double action flushing cistern, and fixed chromium plated tap 1/2" Tibesa type or equivalent, including all water supply pipes 16mm (Golany) to the nearest dist. box (DB), flushing hose sprayer, glazed fire clay paper holder, angle valves, UPVC drainage pipe connecting to the nearest manhole or sewage header as per specifications , cap for ventilation pipes sprayer hose , all valves , fireclay toilet paper holders white color with all connections, and fittings according to drawings and supervisor engineer instructions.,	No.	1		
Total					

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
4. Electrical works					
	NOTES :				
*	supply and erecting of the electrical works as per drawings, specifications, and engineer's instructions. The price of the following items includes, all necessary junction boxes, wires, conduits, clamps, bolts, connectors and connecting all cables All installation shall be in accordance with : * The drawings , specifications and instructions and demands of the engineer. * The electricity law and electrical code requirements of the BRITISH Standards. *. The unit price includes all Preliminary installations and foundation works for Electrical and telecommunication in floor slabs, walls and grounds with all needed wires, conduits, fittings, boxes, accessories and any other needed materials to complete the job as per engineer instructions. The contractor should refer to the drawings , specifications and other Contract Documents . The prices will be deemed to include for the full cost as described in all Documents.				
A-	LIGHTING FITTINGS :				
*	Supply and install ceiling mounting round led light luminaire (for Toilets) 14 watt with driver ,220 V, with lumen range not less than (70-80 L/watt) ,warm light complete with lamps and needed accessories as per drawings, specifications and according to supervisor engineer instructions. The price includes wires, conduits, fittings, accessories and any other needed materials and workmanship to complete the job as per drawings specifications and the engineer's instructions. (Type is GAASH/ NISKO or equivalent brand name)	No.	2		
1-	Supply, install, connect and test 6 inch extractor fan with 300 m3/h capacity , complete with PVC conduits, J. boxes, louvers, mesh, wiring, and all necessary accessories. (Type is Venta or equivalent).	No.	1		
C-	SOCKETS :				
1-	supply, install connect and, testing single socket outlet, water proof type 16A, 220v, 2p+E for flush or surface mounting, complete with PVC conduits, J.boxes, covers, wiring, and all necessary accessories. (Type is GEWISS CHORUS or equivalent)	No.	2		
Total					

Summary of Al Yarmouk play ground

DESCRIPTION	Total Amount \$
1. Aluminum, Carpentry & Metal Works	
2. Finishing Works	
3.Mechanical works	
4. Electrical Works	
Sub total (\$)	

Bill No (C): Palestine Miscellaneous Works

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
1. Finishing Works					
	<p>All works must be according to drawings, specification and engineer instructions. Rates shall include :</p> <p>1. Samples for approval and all the required tests.</p> <p>2. Cleaning, mechanical polishing and pointing using grout.</p> <p>3. Plastic angle beads for ceramic wall tiles and Aluminum angle for ceramic of walls at the corners and top and sides of ceramic edges.</p> <p>4. Local marble must be Grade (A) free from cracks and clay flaws.</p> <p>5. Measuring the stockpiled quantities of tiles at supplier store and obtaining the engineer approval prior to shipment to the site.</p> <p>6. Transporting and carefully handling the stored quantities in the site.</p>				
1.1	For the first step in each floor in the southern grand stand, Supply and install Marble chips floor tiles (bazelt chips) grade A, size 25cmx25cmx2.5cm laid on 2cm mortar bed and 5 cm thick sand bed including skirting 25cmx 7cmx1cm and Supply and install Floor Traps Gully (F.T.G) Ø 4", Including Stainless steel Covers, Ø 4" pipes, vent. pipes, cap for ventilation pipes with all connections and fittings. and all needed materials as per specifications , drawings and supervisor engineer instructions	M2	100		
Total					
2. Metal Works					
	<p>All works must be according to drawings, specification and engineer instructions. Rates shall include :</p> <p>1. Submitting samples for approval of material, accerrories, color and fixation method.</p> <p>2. Hard ware locked type Viro, switch or equivalent for all doors, door stopper ,and all other accessories.</p> <p>3. All metal works include the fixation for frames and leaves, cocrete and all required material and accessories according to the engineer's instructions.</p> <p>4. Painting after grinding and filling all the voids with putty, applying primer coat and hammer paint. In in case of galvanized steel the primer should be poly zinc.</p>				
2.1	Supply and fix protection steel for windows according to specifications , drawings and engineer instructions	M2	80		
2.2	Supply and fix flush galvanized steel double grill external doors for audiances toilets (in several places) including fixed parts, complete with frame profile 60*30*3mm thick, ironmongery, hardware and oil painting, with hard ware locked type Viro switch or equivalent and all requirement as latches, locks...etc as specified in the drawings and specifications for ground floor.	M2	12		
2.3	Supply and install Fixed Galvanized Steel Ladder including Galvanized steel tubes 1.5 inch diameter Thickness (1.65 mm) Steel plates 25*25*5 mm for fixation Hammer Paint. The price includes all required bolts, welding rods, and fixation	M.R	4		

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
2.4	Supply and fix galvanized Fences with height 2.8m including 1.5 m wide gate , consist of galvanized steel box section (80 x80x3mm) for columns ,galvanized steel box section (40 x40x3mm) for horizontal strengthening, the price include galvanized steel mesh size 50x50x3mm complete with all accessories ,galvanized steel wire 5mm th. /55 cm , G.S. plates for fixing and topcover for columns , painting include primer and under coat, etc. as per specifications , drawings and engineer instructions Price include all the needed additional profeels, hinges, ironmongery and high quality locks to make gate with dimendions 120*220 cm of the same type of the fence	M2	35		
Total					
3.Carpentry works					
	The items include supplying carpentry works from good wood grade “A” including frame cover mould, architrave, sanding sealer, prime coats , at least two coats of oil paint, 15cm Aluminum kick plate 1mm thick from both sides , hard ware, locke type Wally switch or equivalent and brass hinges 10cm height, door stopper and all other fitting according to specification and drawing.				
3.1	Supply, fix & paint flushed wooden external double leaves door type D1, overall size 140x 220 x 4.5cm thick, complete with the above preamble.	No	1		
Total					

Summary of Palestine Miscellaneous Works

DESCRIPTION	Total Amount \$
1.Finishing Works	
2. Metal Works	
3.Carpentry works	
Sub total (\$)	

OVERALL SUMMARY

NO.	Description	Total price (\$)
A	Beit Hanoun Playground Works	
B	Al Yarmouk Playground Works	
C	Palestine Playground Works	
Total		

Total in numbers:

Total in letters:

Name of the contractor:

Authorized signature:

Signature and Sealing:.....

Title:

Telephone:.....

Fax:

Mobile: