



KINGDOM OF SAUDIA 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

<u>Lot#7</u>

Installation of Stadium Lighting System for 3 playgrounds (Beit-Hanoun, Al-Dorra and Khanyounis playgrounds)

DONATED BY

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

EMPLOYER

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





<u>B.o.Q.</u>

SECTION 7 PRICE SCHEDULE (Bill of Quantities)

A .The Price Schedule must provide a detailed cost breakdown for each item. UNDP to determine compliance of Bid with specifications as per Schedule of including its subsidiary organs, is exempt from taxes. (IBM compatible).

E. 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. All works must be according to drawings, specification and engineer instructions. Rates shall include :

1. Shore up the sides of excavation and take all precautions to keep the adjacent buildings and existing infrastructure utilities (sewage, water, electricity, telecommunication and pavement works)safe. And repair any damage occure in the site. And repair any damage that occcur in the site. Any damages to any utility or structure will be repaired at the contractor's expense.

2. Cleaning the site and removing all debris and rubbles to approved dump site.

3. Approval of Bench mark and leveling network before excavation works.

4. Backfilling in layers not more than 25cm thick for each layer and compaction to 97% of MDD.

5. Safety precautions to protect neighbor utilizes and persons. Including steel fence

6. All required Tests should be accommedated by an approved lab.

7. Laying out the structure coordinates to be carrid out by profesional surveyor using total station device.

8.price include leveling and backfilling from imported sand to make up level around buildings up to the top of external ground beams levels.

9. 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.

10. Price shall include the cost of all needed testing of works or material that will be done by approved lab.

11. Price will include costs of cleaning the site and reinstallation of pavements that may occur to the satisfaction of the engineer.

Bill No.	Bill No.A (Civil Works)					
Item No.	Description	Unit	Qty	Unit Rate US \$	Amount US \$	
1	Supply materials and construct concrete Electrical room for Beit-Hanoun playground according to drawings including excavation, backfilling works, concrete work, block works, internal plastering of three coats, external plastering of three coats and Italian plaster coat, marble chips tiling, marble for windows sills, painting two coats, roof water proofing works, steel doors, Aluminum and luver galvanized steel windows, steel fence and suppling & installation of Earthing to acheive resistance less than 5 ohm & all the needed civil works for the generator, Fuel tank and Electrical room and making good all according to drawings, specifications and instructions by the Engineer. - The contractor shall submit shop drawings with calculation sheet to get the engineer approval before commencement. - All the material shall be class A and to get the engineer approval before commencement.	L.S.	1.00			
2	Supply materials and construct Sicorite Electrical room for Khanyounis or AlDorrah playgrounds according to drawings including excavation, backfilling works, concrete work, floor slab, painted steel columns an purlins, sicorite steel fence and door & all the needed civil works for the generator, Fuel tank and Electrical room and making good all according to drawings, specifications and instructions by the Engineer. - The contractor shall submit shop drawings with calculation sheet to get the engineer approval before commencement. - All the material shall be class A and to get the engineer approval before commencement.	No.	2.00			
3	Supply materials and construct civil works for the pillars (Pole panels) according to drawings with concrete walls 10 cm thick and reinforcement Y8mm each 10 cm in both directions, the price includes plaster works and italian plaster and painted louver galvanized steel door with lock and master key	No.	12.00			
	Total Bill No.A (Carried to summary)					

Bill No.B (Electrical Works)

Item No.	Description	Unit	Qty	Unit Rate US \$	Amount US \$
	 * 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 * All installation shall be in accordance with : * The drawings , specifications and instructions of the engineer. * The price includes safe Dismantle , removing and Re-connect Existing all Cables with all Accessories in a New MDB's and other distribution boards, According to drawings the supervisor engineer instructions * The contractor must submit gurantee not less than two years for all components from the manufacture. * All electrical materials for stadium lighting must be Brand Name and must be European made and have obtained the ENEC European Certificate of Conformity. * The contractor should refer to the drawings , specifications and other Contract Documents. 				
1	Documents. Lighting STADIUM Fittings				
1.1	LIGHTING STADIUM TOWER Supply, install LIGHTING STADIUM TOWER HIGH MAST 22 meter - MITAS type, with 3 crossbars to support up to 16 DISANO FORUM in sitting and hanging position. Lighting: 1 side (180°) according to standard CP 3-TR7 with wind 47 m/s and top rectangular platform from 4" galvanized steel safety Handrail, access by external ladder with safety rail from 3" steel ladder starts at 3 m above the base to the maintenance basket. Masts should be tapered in polygonal shape and delivered in 3 sections. The thickness of the steel used for the shaft shall not be less than 6 mm. The steel grade shall be according to EN 10025-2 standard ; to S235JR with a low silicone contain (less than 0,04%). At the bottom a circular baseplate of suitable dimensions and suitable holes sizes (dimension's & Numbers) that will comply and fit to the existing base with anchors in each playground. The Stadium Pole must be hot dip galvanized and also fully equipped with two or three layers of an attractive and protective exterior coating paint, which covering and maintaining any exterior metal parts. (Tvne is BABTAINE LIGHTING or enuivalent) This circular baseplate will be welded by double fillets to the shaft. A suitable hinged door opening at the bottom with a lock shall be provided with steel chain. Overlapping length of each section shall be upper or equal to 1,5 times the maximum diameter across angle of female section. Assembling of each section shall be by slip joints, without bolts or welding. All components are hot dipped galvanized internally and externally as per NF EN ISO 1461 standard. The price includes all required materials, accessories, bolts, nuts washers, steel arms and supports and workman ship to complete the job as per drawings, specifications and engineer instructions. Noting that the foundation (concrete and steel) already was casted and it is not included in the Unit price, while adjusting the supplied column to the existing foundation is the contractor responsibility	UNIT	12.00		

Item No.	Description	Unit	Qty	Unit Rate US \$	Amount US \$
	Metal Halide Floodlight: Supply, install, connect and operate 2000 watt metal halide sport facilities floodlight, available with color temperatures of 5700 K and CRI of 90 with symmetric beam angles to be fixed on the lighting pole. (Type is DISANO, PHILIPS, GEWISS or equivalent). as per the following specifications:				
	 Housing/frame: In die-cast aluminum, with cooling fins. Reflector: In 99.98 aluminum, anodized and polished, with fin for recovery of unused light. Diffuser: Tempered glass, 5 mm thick, resistant to thermal shocks and impacts. (UNI7142 tests, 3193 British standard). 				
1.2	 Painting: With polyester powder, color graphite, resistant to corrosive and saline environments. Lamp holder: In ceramics with silver-plated contacts. Cable socket. Electric gear: 230V/50Hz power supply. Silicone wire terminated with clamps in admiralty brass, with fiberglass braid, 2.5 sqmm2 cross section. Nylon 2P+T terminal block with maximum allowed lead cross section of 6 sqmm2. Equipment: Cable gland in f.g. nylon Ø 1/2 gas thread. Protective device: when the back cover is opened (hinge opening), the normally closed contact opens and cuts off supply to the fixture. Aiming visor. Anticondensation filter. Standard igniter placed in a special box. Regulations: Produced according to applicable EN60598-1 CEI 34-21 standards, IP66 IK08 degree of protection according to EN 60529 standards. 	Unit	144.00		
	The product must be European made and have obtained the ENEC European Certificate of Conformity. Additional gear: Hot restrike Lamp: MAX-TS2000 – Osram Type Luminous flux of Luminaire: 150,000 - 160,000 [lm]-5900k-Ra 1a Luminous flux of Lamp: 200,000 [lm]-5900k-Ra 1a				
	The price includes supply, install and connect the following: - IP66 driver BOX 2000w Supply Unit for Fittings Using MT or MN Lamps, Can be used to drive 2000w floodlight inside the distribution board. - XLPE power cables with size 3x4 mm2 from the distribution board (Driver Box) to the lighting Floodlight on the top of the Pole with all needed PVC conduits, labels, clamps, supports, accessories and other required materials to complete the job as per drawings, specifications and engineer instructions.				

Item No.	Description	Unit	Qty	Unit Rate US \$	Amount US \$
No.	Description LED FLOODLIGHT FOR SPORT FACILITY: Supply, install, connect and operate 1386 watt highly advanced LED sport facilities floodlight, available with color temperatures of 5700 K and CRI of 90 with symmetric beam angles to be fixed on the lighting pole. (Type is DISANO, PHILIPS, GEWISS or equivalent). as per the following specifications: Housing/Frame: in die-cast aluminum with cooling fins. Structure (2/3 LED modules): in die-cast aluminum with bracket for spotlight mounting. It also allows pointing the individual module at an angle of +/- 20° to its horizontal axis. Optics: made of V0 polycarbonate, metallized high yield. Diffuser: extra-clear, tempered glass, 4 mm thick, resistant to thermal shock and impacts. Electric wiring: 230V/50Hz power supply. Silicone wire terminated with clamps in admiralty brass, with fiberglass braid, 2.5 sqmm2 cross section. Nylon 2P+T terminal block with maximum allowed lead cross section of 6 sqmm2. Coating: polyester resin for powder coating, resistant to corrosion and saline environments. Then the fixture is coated with an acrylic based UV-stabilized resin. Standard Supply: complete with galvanized and coated bracket. Single LED module version, equipped with IP66 airtight connector for mains connection. Electronic safety device to protect the LED module and the related ballast compliant with EN 61547. It works in two modes: - differential mode: surge between power, L/N and ground cables or between the fixture's body if it is of class II and installed on a metal pole.	Unit No.	Qty 12.00	Unit Rate US \$	Amount US \$

Item No.	Description	Unit	Qty	Unit Rate US \$	Amount US \$
2	Cables and Conduits				
	Supply,Install, lay and termination of XLPE cable as per the following sizes:				
2.1	Supply, laying and termination of XLPE cupper cable , (3X95+50+50) mm2 .	L.M	70.00		
2.2	Supply, laying and termination of XLPE cupper cable , (3X120+70+70) mm2. (Provisional)	L.M	12.00		
2.3	Supply, laying and termination of XLPE cupper cable , (3X35+16+16) mm2.	L.M	850.00		
2.4	Supply, laying and termination of XLPE cupper cable , (3X25+16+16) mm2 .	L.M	850.00		
2.5	Supply, laying and termination of XLPE cupper cable 5x16 mm2.	L.M	250.00		
2.6	Supply, laying and termination of XLPE cupper cable 5x10 mm2.	L.M	50.00		
2.7	Supply, laying and termination of XLPE cupper cable 5x6 mm2.	L.M	40.00		
2.8	Supply, laying and termination of XLPE cupper cable 3x4 mm2.	L.M	50.00		
2.9	Excavation and back filling for trenches with dimension not less than 40-50 cm in width and 90 cm depth and including all earthwork in all the different types of soil and rock excavation. Backfilling by supplying proper and approved material e or with suitable approved selected excavated materials and watering and comoaction until 98% MDD. The price includes warining tape, Dismantling, and reinstating of the existing paving layers to any required width, excavation, bedding material under surrounding, and above the Electrical cables with clean dune sand (safia), also includes replacing the damages interlocks, tiles, asphalt, etc with new materials to match the existing one. as per supervisor instructions.	L.M	100.00		
	Supply , and install 4" PVC pipe.	L.M	50.00		
	Ditto, but 3" PVC pipe Ditto, but 3" flexiable PVC pipe	L.M L.M	50.00 50.00		
	Supply and install Electrical Concrete manhole 60cm internal Daimeter, with 8Ton iron cover.including the excavation, backfilling, safe dismantle the paving layer and reinstatement according to specifications and engineer instructions	No.	3.00		
2.9.5 3	ditto, but 80cm internal Daimeter, with 8Ton iron cover. Distribution Boards	No.	3.00		
	Mains Distribution Boards (MDB) for (Beit Hanoun & Khanyounis)				
3.1.1	Supply, install, connect and operate MDB switch board with 30% spare size made of 2mm thick hot dip galvanized steel sheets with painting as specified and shown on drawings, the panel sizes should be 210 cm height, 40 cm depth while the width to be determined after submit shop drawings and that all internal components were agreed upon. The panel should include hard copper bus-bars for three phases, neutral and separate earth bus bar, wires, cables , extract fans with thermostats for cabinets, isolating fiber glass barrier, document holder, labeling, connection terminals, cable marshalling box, and any required accessories. All needed civil works like trench , sleeves , lockable type with key switch for the panel. The panel size shall include but not limited to the followings components :	Unit	2.00		
3.1.2	Supply and install LTL fuse 3x400/250A with 250A fuses.(Type is JEAN MUELLER or equivalent)	Set	2.00		
3.1.3	Supply and install Molded Case Circuit Breaker MCCB 3x250 A, Isc=50 KA. (Type is MOELLER NZMN2-AE 250A or equivalent) with external panel handle.	No.	6.00		
3.1.4	Ditto, but MCCB 4x250 A, Isc=50 KA. (Type is MOELLER NZMN2-4-VE250 or equivalent).	No.	2.00		
3.1.5	Supply and install Current transformer 3x(250/5A).	Set	10.00		
3.1.6	Supply and install Kwh meter 3 phase 3x5A.(Type is ISKRA or equivalent).	No.	2.00		
3.1.7	Supply and install KVAR meter, 3 phase 3x5A(Type is ISKRA or equivalent).	No.	2.00		
	Supply and install Kwh meter, 1 phase 1x5A.(Type is ISKRA or equivalent)	No.	6.00		
	Supply and install Digital Multi Meter with LTL fuse 3x36/6A (Type is ENTES or equivalent).	Set	4.00		

Item No.	Description	Unit	Qty	Unit Rate US \$	Amount US \$
3.1.10	Signal lamps R.S.T with LTL fuse 32/6A .	Set	4.00		
3.1.11	Supply and install MCCB 3x63/40A. (Type is MOELLER NZMN1-A63 or equivalent).	No.	12.00		
3.1.12	Ditto, but MCCB 3x100A. (Type is MOELLER NZMB1-A100 or equivalent).	No.	2.00		
3.1.13	Ditto, but MCCB 3x40A. (Type is MOELLER NZMB1-A40 or equivalent).	No.	2.00		
3.1.14	Supply and install complete set of Power factor Panel including Static capacitors,35KVAR with quick discharge,automatic power factor , the price includes supply and install capacitor banks , with 3x80A main MCCB , contactors, MCB's, C.T ,with all needed mcbs, toggle switches factor regulation,the price includes all needed materials and workmanship as per drawings,GEDCO specifications and engineer instructions. (Provisional Item)	Set	1.00		
3.1.15	Supply, install, connect and Automatic Transfer Switch ATS made of two identicalcontactores 4 poles 400A, each,400v, rating, including mechanical and electrically interlock, the work includes automatic changeover control unit (ACU) with all required Timers,Relays,adjastable under voltage Relay, sellector sitches and all protection devices to complete the work as per the engineer instructions. (Type is Eaton or Equivellent) The item includes all needed busbar & wires According to specifications, instructions and demands of the supervisor engineer.	Set	2.00		
3.1.16	Ditto, but Manual Changeover switch 4x400A with external hand European made or Equivalent.	No.	2.00		
3.1.17	supply and install a complete control unit for External Lighting Auto/Man , th price includes 24 Hour timer, sellector switch and 3 PH Moller contactor DILM 80A,indication lambs ,Ltl, fues , Toggle switches , for external lighting as per drawings.	Unit	8.00		
3.1.18	Supply and install MCB 2X10A. (Type is MOELLER FAZ-C10/2 or equivalent).	No.	8.00		
	External Lighting Distribution Board (LDB) for (Al Dorra)				
3.2.1	Supply, install, connect and operate LDB EXTERNAL LIGHTING DISTRIBUTION BOARD with 30% spare size made of 2mm thick hot dip galvanized steel sheets with painting as specified and shown on drawings, the panel sizes should be 210 cm height, 40 cm depth while the width to be determined after submit shop drawings and that all internal components were agreed upon. The panel should include hard copper bus-bars for three phases, neutral and separate earth bus bar, wires, cables , extract fans with thermostats for cabinets, isolating fiber glass barrier, document holder, labeling, connection terminals, cable marshalling box, and any required accessories. All needed civil works like trench , sleeves , lockable type with key switch for the panel. The panel shall include but not limited to the followings components :	No.	1.00		
3.20	Supply and install Molded Case Circuit Breaker MCCB 3x250 A, Isc=50 KA. (Type is MOELLER NZMN2-AE 250A or equivalent) with external panel handle.	No.	3.00		
3.21	Ditto, but MCCB $4x250$ A, Isc=50 KA. (Type is MOELLER NZMN2-4-VE250 or equivalent).	No.	1.00		
3.22	Supply and install Current transformer 3x(250/5A).	Set	2.00		
3.23	Supply and install Digital Multi Meter with LTL fuse 3x36/6A (Type is ENTES or equivalent).	Set	2.00		
3.24	Signal lamps R.S.T with LTL fuse 32/6A .	Set	2.00		

Item No.	Description	Unit	Qty	Unit Rate US \$	Amount US \$
3.25	Supply and install MCCB 3x63/40A. (Type is MOELLER NZMN1-A63 or equivalent).	No.	6.00		
3.26	Supply, install, connect and Automatic Transfer Switch ATS made of two identicalcontactores 4 poles 400A, each,400v, rating, including mechanical and electrically interlock, the work includes automatic changeover control unit (ACU) with all required Timers,Relays,adjastable under voltage Relay, sellector sitches and all protection devices to complete the work as per the engineer instructions . (Type is Eaton or Equivellent) The item includes all needed busbar & wires According to specifications, instructions and demands of the supervisor engineer.	Set	1.00		
3.27	Ditto, but Manual Changeover switch 4x400A with external hand European made or Equivalent.	No.	1.00		
3.28	supply and install a coplete control unit for External Lighting Auto/Man , th price includes 24 Hour timer, sellector switch and 3 PH Moller contactor DILM 80A,indication lambs ,Ltl, fues , Toggle switches , for external lighting as per drawings.	Unit	4.00		
3.29	Supply and install MCB 2X10A. (Type is MOELLER FAZ-C10/2 or equivalent).	No.	4.00		
4	Sub Distribution Boards Near the POLE for three playgrounds				
4.1	Supply, install lighting sub-distribution board IP 65 consists of lockable board frames with 30% free space including 2m hot dip Galv. steel sheets with anti-static paint, bus bars for incoming cables, neutral and earthing terminal with all necessary accessories and material to hand over clean and tested in operating conditions. All needed civil works like trench , sleeves , lockable type with key switch for the panel. according to Standards, drawings, specifications and supervisor engineer instructions. (Type is MOELLER or equivalent).	No.	3.00		
4.2	Signal lamps R.S.T with LTL fuse 32/6A .	Set	3.00		
4.3	Supply and install MCCB 3x63/40A. (Type is MOELLER NZMB1-A63 or equivalent).	No.	12.00		
4.4	Supply and install MCB 2X16A. (Type is MOELLER FAZ-C16/2 or equivalent).	No.	192.00		
5	Earthing system for poles				
5.1	Supply, install and commission a complete grounding system including all required Cable 50 mm2, earthing pits, electrodes, manholes according, drawing ,specification and engineers instructions such that the resistance shall not exceed 5 ohm.	Unit	12.00		
6	Lightning system for poles				
6.1	Supplying, installing and operating lightning protection system (Type is HELITA PULSAR 45 or equivalent) complete with earthing electrods & 3 manholes connected with each others and 70 mm2 flexible pvc wire from pulser to the ground rods resistance less than 5 ohm, lightning protection located above the tower to be fixed above of the pole with all needed accessories, required materials and workman ship to complete the job as per drawings, specifications and engineer instructions.	Unit	12.00		
7	Modify - Main Distribution Boards (MDB) (Beit Hanoun & Khanyounis and AL-Dura play grounds)				
7.1	AL-Dura play grounds) Rehabilitation, Dismantling and reinstalling with re location the existing MDB in the existing building to be fixed on the wall, the item includes maintenance works for all components of the panel with removing all components of the metering panel and other damaged materials, meters, Circuit breakers, busbars, wires, etc). The price includes removing the existing main LTL and main MCCB with supply and install new MCCB 3x63A (NZMB-63A) with all required wires, terminals and accessories and also new keys switches for panel doors, rewiring to comply with the new components, the price includes all needed materials and workmanship to complete the job. All works and materials must be according to Engineer's instructions.	Set	1.00		

Item No.	Description	Unit	Qty	Unit Rate US \$	Amount US \$	
7.2	Supply and install 1 ph Pre-paied KWH,the price includes all required wires, cards terminals and accessories to complete the job. (Approved Type from GEDCO) (Provisional Item)	No.	8.00			
8	Electrical works for (Electrical & Generator Rooms) in 3 playground					
8.1	Supply, install, connect and test water proof lighting fixture 2x16w complete with LED lamp 16 w T8 120 cm with lumen 1600, internal or external PVC conduits, J. boxes, fixing screws (Galv.) and wiring. (Type is GA'ASH or equivalent).	No.	12.00			
8.2	Supply and install , external water proof one way, two gang switch , including all needs xlpe cable 3*1.5 , external pipe , (Type is GEWISS Chorus or equivalent).	No.	2.00			
8.3	Supply and install external waterproof single phase socket outlet 16A, 220v, 2p+E for flush or surface mounting, complete with PVC conduits, junction boxes, xlpe 3*2.5, and all necessary accessories. (Type is GEWISS or equivalent) (for generator room In khanyounis & Al-Dura play ground).	No.	2.00			
8.4	Supply and install one way , two pole switch with all needed wires , covers , box , pipes Including all needed materials and workmanship for propper installation. (Type is GEWISS Chorus or equivalent)	No.	3.00			
8.5	Supply and install single phase, 3-pin, flush mounting, 220V-16A socket outlet with all needed wires , covers , box , pipes,including all needed materials and workmanship for propper installation.(Type is GEWISS or equivalent) (for Electrical & generator room in Beit hanoun stadium)	No.	5.00			
8.6	Supply and fix 8" diameter 250m3/hr wall mounted extract fan with steel louver and with all needed wires , pipes,including all needed materials and workmanship for propper installation. (Type-Venta or equivalent)	No.	2.00			
8.7	Supply and install, connect electrical board size of 12 c.b. with all needed circuit breakers, ELCB , busbrs,wires as specified and shown on drawings and all needed materials and workmanship for propper installation. (Type-Haggar or equivalent)	Unit	2.00			
8.9	Supply and install water proof lighting globe LED 14 watt with all needed wires, pvc pipes, boxes .including all needed materials and workmanship for propper installation.	No.	2.00			
	Total Bill No.B (Carried to summary)					

Item No.	Description	Unit	Qty	Unit Rate US \$	Amount US \$
	supply and erecting the mechanical 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 to suite All installation shall be in accordance with : * The electricity law and electrical code requirements of the BRITISH Standards. 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.				
	Generator				
1	Supply and install Caterpillar, Perkins , Olympian or equivalent approved standby power supply diesel generator set and connect it to the storage fuel tank, the item shall include automatic start and stop, exhaust system, fuel pump and control, with automatic float, control, protection and digital control panel, sensors for heat, speed, under voltage, over voltage, oil pressure, phase sequence and phase failure, measuring instruments, air duct, built in 8 hours fuel consumption day tank, alternator, diesel engine, exciter, automatic charger, main circuit breaker, sound attenuated enclosure (original) as recommended by the manufacturer . the price includes supply and install complete earthing system with all needed metrial (manhols & cables, electrods , pipes,boxs ,all accessories) to complete earthing system to achieve earth ressistance less than 5 Ω . All fittings and fixing materials and control needed are included in the price. The generator shall be rated 200 kVA standby rating, 400V, 50HZ, 1500RPM. The price shall include also the supply and construct concrete pad and foundation, excavation for foundation with all works associated as per the Specifications and as directed by the Engineer.	Unit	3.00		
2	Supply and install cylindrical steel fuel tank with 1800 liters capacity and 6 mm thickness complete with all the required valves, Solenoid valve with fuel sensor controlled by control panel, fittings, fuel pump, float, pipe works, excavation, The item includes: -Filling the tank with fuel . -Epoxy painting with approved type and color -Construction of Suitable Reinforced concrete base for the Tank. all according to Drawings, Specifications and instructions of the Engineer.	Unit	3.00		
3	Supply and install Manual (CO2 Gas) wall mounted Fire extinguisher (6 kg) all according to drawings, specifications, Engineer's instructions.	No.	3.00		

Installation of Stadium Lighting System

D. Landscap

ltem	scap Description	Unit	Quantity	Unit Rate US \$	Unit Rate	Total Amount
No.	Description	Unit	Quantity	(letters)	US \$	US \$
	- The Contractor has to submit Detailed Shop			(1011010)		
	Drawings to be approved by the Engineer before					
	commencement of the work, and all required					
	materials should be supplied as specified and					
	subject to the Engineer approval.					
	- The Contractor has to fix, maintain and replace the					
	under ground services that may be damaged during					
	his work.					
	- All works has to be done according to the					
	Engineer's instructions, Drawings and specification.					
	- The Contractor should include in his price the					
	costs of sampling and testing as required and					
	according to technical specifications and work					
	requirement.					
	Price includes costs of removing and/or relocating					
	of all obstacles such as debris, garbage, trees,					
	existing clay base, Asphalt or concrete raod and					
	existing services in addition to the required					
	materials necessary for work completion according					
	to engineer's instructions and specifications.					
	- The Contractor should include in his price the					
	costs of cut and removal of trees roots, backfilling,					
	watering ,compaction in layers with clean sand as					
	specified and according to the Engineer					
	instructions, the price also include relocation of					
	Power, Telephone poles and networks to sidewalk.					
	- Price include costs of adjusting the levels of					
	existing manholes (in any diameter) to suit the new					
	situation by adding rings with the same diameter					
	and thickness of the existing manhole . according to					
	engineer instructions . Replacing covers, frames,					
	rings if defected and all materials and work required					
	to complete the task					
	Note: the neck not to increase 25 cm.					
	Price includes costs of cleaning all sewage network					
	by using Jitter Clean, excavate, cut and fill area around the					
	playgrounds with clean dense sand from natural					
	ground level to the bottom of the sub-base layer					
	design level including watering, compaction not					
1	less than 98% & CBR not less than 15% ,all	m2	1200			
	according to drawing and technical specifications					
	Price includes transferring the sand to site specified.					
	by engineer					

D. Landscap

D. Lands	F			Unit Rate	Unit	Total
ltem No.	Description	Unit	Quantity	US \$ (letters)	Rate US \$	Amount US \$
2	Supply and lay approved crushed stone base coarse 20 cm thick in two layers(each layer10 cm thickness) with CBR > 80%. Price includes watering & compaction to reach 100 % of maximum dry density, the work includes all tests as per specifications & Engineer Instructions, The Grader must be used in spreading and Leveling the tow layers.	m2	200			
3	Supply and lay approved Kurkar 20 cm thick with CBR > 30% for the side walks to the levels shown in the drawings . Price includes watering & compaction to reach 98 % of maximum dry density , the work includes all tests as per specifications & Engineer Instructions.	m2	1000			
4	Supply, install and compact of interlock tiles 6 cm thick, The price include casting concrete beam with B300 (size 20x40 cm) at the ends of interlock, Also supply and spread dune sand 5 cm thick under interlock, all the required tests, The work include connect the work with existing asphalt. all works are according to specifications, Drawings and Engineer instructions. The shape and color of interlock tiles to be approved by engineer	m2	1000			
5	Ditto, But 8 cm thick.	m2	200			
6	Supply & lay pre-cast concrete curbstones for side walks (17x30x100 cm) including all necessary excavations, filling with dune sand & compaction to 98% of MDD and the base coarse layer (30x10 cm) with compaction 100%, B250 plain concrete foundation (30x10cm) under the curb and (15x19cm) behind, spreading 2 cm mortar under the curbstone, filling joints between curbs with cement mortar and painting with one prime coat and two finishing coats of approved brand name painting material ,expansion joint every 12 m.r with selotex board and filling 3cm with seka flex ,all according to drawing and technical specifications.	L.m	100			
	Total					

Summary

Item	Description	Total (Us \$)
А	Civil Works	
В	Electrical Works	
С	Mechanical Works	
D	Landscape	
	VAT(0%)	
	TOTAL	

Total in numbers
Total in letters
Name of the contractor
Authorized signature
Signature and Sealing
Title
Telephone
Fax
Mobile