



**UNITED NATIONS DEVELOPMENT PROGRAMME**

**ITB .....**

**Lot 11**  
**WBS 1212**

**Bill of Quantities**

**Programme Title:** Right to Education in the Gaza Strip

**Project name:** Rehabilitation Works For Dar Al-Arqam Private Schools

**PAL10- 00094739- LOT 11**  
Rehabilitation Works of Dar Al Arqam School



UNITED NATIONS DEVELOPMENT PROGRAMME

ITB .....

**DAR ALARQAM SCHOOL**  
**WBS 1212**

**Dar Al Arqam School**

No.	DESCRIPTION	UNIT	QTY	UNIT RATE \$	TOTAL AMOUNT \$
	<p><b>General Notes:</b></p> <p>1- Complete detailed shop drawings should be delivered to the Engineer to take his approval prior the commencement of work. Samples of all materials shall also be delivered to the Engineer to take his approval.</p> <p>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) as well as making access to project implementation location away from the one in use by the students and teachers such that the school is running safely without disturbance. The contractor will be accountable for all necessary equipment, materials and activities to assure the safety of people within the school buildings and vicinity, where an approved safety plan will be prerequisite to initiating activities along with installing all required componenets and materials necessary for safety of workers, project team as well as people at school. All relevant costs are deemed to be included in the unit price in addition to the requiried re-instatment works needed to bring the original facilities to its original status before addition of temporary works.</p> <p>3-The contractor will expect that more than one contractor will be carrying out works in the school at the same time, the Contractor is presumed to make all necessary coordination and facilitate accessibility to and other work-related issues</p> <p>4-All works and installations listed here below should be carried out, tested and commissioned by specialized responsible skilled labours in full coordination with the school mangment, 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.</p> <p>5- Contractors should visit the site before pricing.</p>				

Dar Al Arqam School					
No.	DESCRIPTION	UNIT	QTY	UNIT RATE \$	TOTAL AMOUNT \$
<b>1. DEMOLISH &amp; EARTHWORKS</b>					
	<p>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.</p> <p>All works must be according to drawings, specification and engineer instructions. Rates shall include :</p> <ol style="list-style-type: none"> <li>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.</li> <li>2. Cleaning the site and removing all debris, surplus unwanted materials and rubbles to approved dump site.</li> <li>3. Backfilling in layers not more than 25cm thick for each layer and compaction to 98% of MDD.</li> <li>4. All required Tests by an accredited laboratory.</li> <li>5. The cadastral survey and leveling of existing status at grids not exceeding 5 m in both directions.</li> <li>6. 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.</li> </ol>				
1.1	Removing safely all the debris of the existing destroyed buildings from the class rooms, Boundary walls and all the site and excavation from natural ground level . The price shall include removing all defected materials inside and outside school buildings including but not limited to tiles , plaster , steel, foundations, ground beams, concrete debris, solid waste etc. to approved dump sites and backfilling with clean sand to the required levels, as per the engineer's instructions.	L.S	1		
1.2	Excavation from natural ground level in any type of soil to required designed level. The works including: The compaction of the soil surfaces to get (98% MDD). The excavated unwanted material should be removed out from the site to the approved places. The excavated selected material should be properly stored in the vicinity of site for reuse in backfilling. All to be executed as per specifications, drawings and the engineer's instructions.	M <sup>3</sup>	20		
1.3	Backfilling with selected materials from excavation around foundations & any other element up to ground slab level in layers not more than 25cm thick for each layer with compaction to 98% of MDD. The works including compacting the design soil surfaces to get (98% MDD).	M <sup>3</sup>	12		
1.4	Supply, fill by using approved material (sand dune) between ground beams to the north wall up to the required levels, which shall be spread in layers not exceeding 25cm each one & compacted (98%) to reach up the required levels (under floor slab), according to the specifications & the engineer's instructions.	M <sup>3</sup>	20		
<b>Total</b>					

**Dar Al Arqam School**

No.	DESCRIPTION	UNIT	QTY	UNIT RATE \$	TOTAL AMOUNT \$
<b>2. CONCRETE WORKS</b>					
	<p>Rates of Concrete Works shall include:-</p> <ol style="list-style-type: none"> <li>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.</li> <li>2. Supplying, Casting, vibrating and curing as per specifications.</li> <li>3. Approved additives and admixtures.</li> <li>4. Developing new Concrete Job Mix Designs, Sampling , testing and providing test results certificates, storing and saving of samples.</li> <li>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.</li> <li>6. Preliminary installations for Electrical, plumbing and floor drainage in floor slabs including final floor slab.</li> <li>7. Compaction and testing under the foundation, ground beams, ground slabs and Apron. the compaction should not be less than 98% of MDD.</li> <li>8. All works according to specifications , drawings and supervisor engineer instructions</li> <li>9. Supply, fabricate and fix reinforcement steel (fy= 410 N/mm<sup>2</sup>) 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</li> <li>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</li> <li>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.</li> </ol> <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 (to make bond between old and new concrete) and accessories.</p>				
2.1	Supply and cast ready mix plain concrete B (200) kg/cm <sup>2</sup> for Blinding beds 5 cm thick including polythene sheets as per specifications and drawings.	M <sup>3</sup>	1		
2.2	Supply and cast ready mix reinforced concrete B (300) kg/cm <sup>2</sup> for Columns as per specifications and drawings.	M <sup>3</sup>	2		
2.3	Supply and cast ready mix reinforced concrete B (250) kg/cm <sup>2</sup> for foundations (strap) as per specifications and drawings.	M <sup>3</sup>	5		

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No.	DESCRIPTION	UNIT	QTY	UNIT RATE \$	TOTAL AMOUNT \$
2.4	Supply & cast ready mix concrete (300kg/cm2) for maintenance doors & windows lintels, beams orf bounary wall, sills & canopies including all the required materials and demolish works. .	M <sup>3</sup>	7.5		
2.5	Supply and cast ready mix concrete (B200) for damage stub columns at the roofs including all the required materials and demolish works.	M <sup>3</sup>	1		
2.6	Supply & cast ready mix concrete (300kg/cm2) for suspended hollow block slabs 25cm thick, including the hollow cement blocks, reinforced concrete hidden, inverted & drop beams & all the required materials and demolish works.	M <sup>2</sup>	60		
<b>Total</b>					
<b>3. BUILDING WORKS</b>					
	The price include: 1-Remove damaged blocks from affected walls according to the supervisor instructions such that reinstatement can be done in a professional way. 2- 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, 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 & 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 for any place in the school the price includes demolish of damaged walls.	M <sup>2</sup>	150		
<b>Total</b>					
<b>4. CARPENTARY WORKS</b>					
	The items include supplying carpentry works from good wood grade "A" including frame cover mould, architrave and at least two coats of oil paint, 15cm Aluminum kick plate 1mm thick from both sides , hard ware locked type Wally switch or equivalent and brass hinges 10cm height, door stopper and all other fitting according to specification and drawing . Site visit is necessary to identify the needed preparation works and relevant necessary materials for reinstatement and maintenance items. All parts that are needed for replacement are to be included in unit price. The price shall include removing the damaged wood works and handing to the school mangment				
4.1	maintenance wooden door overall size 125 x 220 x 4.5cm thick. Price included all accessories, materials and all related works as per drawings, specification and Engineer's Instructions.	No	38		
4.2	Supply, fix & paint flushed wooden external door, overall size 125 x 220 x 4.5cm thick complete with all needed accessories, materials and workmanship.	No.	8		

Dar Al Arqam School					
No.	DESCRIPTION	UNIT	QTY	UNIT RATE \$	TOTAL AMOUNT \$
4.3	Supply and install wall mounted magnetic green chalk board Lina series, 25 mm profile kALBOARD MG 3612/L size 120x340 cm) with silver anodized elegant aluminum frame (19x25mm thick) and four strong rounded plastic (upvc) corners fixed internally with screws to the wall, and also with silver anodized aluminum try fixed by sliding through the profile which used for chalks, markers and duster and has UPVC edges for safety. The writing surface coated of steel polyester fixed by using automatic gluing machines to 11mm thick MDF wood covered automatically by aluminum foils. Price to include all related works as per drawings, specification and Engineer's Instructions.	No	20		
4.3	supply and install and paint soft wood rubbing rails size 170mm x 20mm with round edges, smooth surface , apply two coats of sanding sealer,one coat of lacquer paint. sand lightly and apply two coats of varnish, drill and fix to concrete or block walls using expansion steel bolts as per specification and drawings..	Mr.	150		
4.4	Ditto but maitenance , refix and paint the existing rubbing rails .	Mr.	120		
<b>Total</b>					
5. ALUMINUM AND 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 school mangment The items include supplying aluminum windows section 7000 matching the existing ones, with min. wall thick 1.5mm (to be approved by representative engineer )as frame, glass 4 mm thick, ironmongery , accessories and hard ware as per specification and drawings. All maintenance works include all needed accessories and reinstatement materials and works. Steel work should be Paint with two coats of oil paint & one primer (polyzinc).The price shall include removing the damaged aluminum and steel works and handing to the school administration				
5.1	Supply and fix coloured aluminum window section 7000 type W1- overall size 190 x 140cm in basement, W2- overall size 240 x 80, W3- overall size 120 x 100cm complete with frame, green, clear glass 4mm thick, ironmongery and hardware. and as per specification and drawing.	M <sup>2</sup>	50		
5.2	Supply and fix clear glass 4mm thick for destroyed windows and for the top dome in managing departement. The item includes complete maintainnce, replace the destroyed parts of these windows sections or leaves, ironmongery and hardware and as per specifications and/or the engineer's instructions	M <sup>2</sup>	220		

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No.	DESCRIPTION	UNIT	QTY	UNIT RATE \$	TOTAL AMOUNT \$
5.3	Supply and fix flush galvanized steel double external door DS1 (95 x220x4.4cm) for the top store of managing department, 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 oil paint, with hard ware locked type Wally switch or equivalent and all requirement as latches, locks...etc as specified in the drawings and specifications for ground floor.	No	1		
5.4	Supply and fix mild steel balustrade 60cm high for staircase handrail to match the existing, hollow section tubes 40 x 20 x 2 mm verticals spacing 10 cm clear distance, and welded 60x40x2 mm top and bottom rails fixed to columns and bottom parapet using expansion bolts, rates includes M.S. end angles, painting with one primer, under coats and minimum two coats of oil paint, (the color to be approved By the Engineer and as drawings and specifications).	Mr.	10		
5.5	Maintenance and painting works for galvanized steel double external doors . DS2(220X200cm), the item include maintenance works, one primer coat, one under coat and minimum two coats of colored oil paint...etc as specified in the drawings and specifications for managing departement.	No	4		
5.6	Ditto but single door DS3 95x220cm. for generator room door.	No	1		
5.7	Ditto but single door DS4 100x220cm. for security room door and store.	No	2		
5.8	Maintenance and painting for steel protection for windows the item include maintenance works, scaffoldings, painting with one coat of primer, undercoat and at least two coats of oil paint,	M <sup>2</sup>	160		
5.9	Supply & install Mul-T-Lock door type 417 with over all size 105cm width x 220cm height with powder coated paint. Door lock type 235 & Mul-T-Lock serrated cylinder. All to be carried out according to the specifications, drawings & the engineer's instructions .	No.	2		
5.10	Ditto but maintainenc for the existing damaged multi lock doors the price includes re-fix & paint, closing wholes if found,replace steel sheets , replace the destroyed lockes with new approved locks, and coating the door with plastic sheets to match the existing.	No	15		
<b>Total</b>					



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No.	DESCRIPTION	UNIT	QTY	UNIT RATE \$	TOTAL AMOUNT \$
<b>6. FINISHING WORKS</b>					
	<p><b>A- Plaster works</b>                      All works must be according to drawings, specification and engineer instructions. Rates shall include :</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>4-Trimming of concrete chippings, removing the wires and etc. and cleaning of existing surfaces to be ready for plastering.</p> <p>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 any.</p> <p>* For defected areas around the damages or with huge cracks extent of work will be identified with the supervision engineer and rates will include all necessary removal of plastering , replastering , watering, disposal of debris and necessary preparation for painting works inclusive of all accessories needed for plastering along with the needed scaffolding.</p> <p>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.</p> <p><b>B- Tiles works</b>                      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.Insulation works under ceramic floor tiles for all wet areas and kitchens using primer coat, two hot bitumen coats (75/25)</p> <p>4. Plastic angle beads for ceramic wall tiles at the corners and top and sides of ceramic edges</p> <p>5. Local marble must be Grade (A) free cracks and clay flaws</p> <p>6. Measuring the stockpiled quantities of tiles and obtaining the engineer approval prior to shipment to the site</p> <p>7.Transporting and carefully handling the stored quantities to the site.</p> <p>8.Removal of damaged elements (tiles, staircase steps, damaged plaster, granite, local marble .....etc and any other required work to complete the job according to specifications.</p>				
6.1	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	M <sup>2</sup>	200		

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No.	DESCRIPTION	UNIT	QTY	UNIT RATE \$	TOTAL AMOUNT \$
6.2	Supply and make external plastering 20mm thick to walls with four 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, the forth is two coats of Tyrolean finish ( mix 1: 3) white cement to fine aggregate (Quartz), this is for external walls of the school and walls on roof.and all is according to specifications , drawings and supervisor engineer's instructions	M <sup>2</sup>	250		
6.3	Marmarina finish for elevations, edges and anywhere else with color painting and all required works the price includes Scaffolding, removing the destroyed (old) coats, maintenance of the damaged plaster and preparing the walls for new coats according to specification and engineer's instructions.	M <sup>2</sup>	1800		
6.4	Ditto but for geraniuliet maintenance for rambs and elvations or stairs the price includes Scaffolding, removing the destroyed (old) coats, maintenance of the damaged plaster and preparing the walls for new coats according to specification and engineer's instructions.	M <sup>2</sup>	25		
6.5	Supply and install terrazzo floor tiles (grade A) size 25cmx25cmx2.5cm with Basalt stone laid on 2.5cm mortar bed and 5 cm thick sand bed and terrazzo skirting 25cmx 7cmx1cm including all materials and testing, to match the existing and located on many places of the school as per specifications and drawings.	M <sup>2</sup>	80		
6.6	Supply and install non slipping ceramic floor tiles (grade A) size 20 cm x 20cm x 6mm thick to match the existing as specification and drawings.	M <sup>2</sup>	20		
6.7	Ditto but for Circular columns 7X7 cm (Mosaic)	M <sup>2</sup>	95		
6.8	Supply and lay precast terrazzo stair treads size 35 cm wide x 4cm thick chamfered once , rebated once and laid on 2cm thick mortar bed same color and kind of the floor tiles and the price including terrazzo stair risers size 12.4cm high x2cm thick, skirting 20cm high x2cm thick on the both sides to match the existing , remove the damaged steps and remove all debris to approved dump site as specification and the engieneer's instructions.	No	45		
6.9	Supply and install high quality Granite 180x70x2cm thick (Tiger) for the gowing of school radio platform staircase. The price includes local marble grade A 35cm X 3cm thick to match the existing	M <sup>2</sup>	15		
6.10	Supply and install high quality Granite 180x70x2cm thick (Orzi) for the riser of school radio platform staircase. The price includes local marble grade A 15cm X 2cm thick to match the existing	M <sup>2</sup>	8		
6.11	Supply and install local marble (grade A) size 25 cm wide x 3cm thick for windows sills laid on 2 cm thick mortar bed as approved by the representative engineer the price includes dismantle and refix aluminume windows and remove damaged local marble to approved dump site and as specification and drawings..	Mr.	40		
<b>Total</b>					

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No.	DESCRIPTION	UNIT	QTY	UNIT RATE \$	TOTAL AMOUNT \$
<b>7. PLUMBING WORKS</b>					
	<p>1. All plumbing work, except rainwater pipes and water supply pipe work in water points shall be measured by number.</p> <p>2. Rainwater pipes shall be measured run over fittings.</p> <p>3. Pipe work in frames to shading sheds shall be measured run over fittings.</p> <p>(1) Rates generally shall include for:</p> <ol style="list-style-type: none"> <li>1. Shop drawings,</li> <li>2. Cutting and forming all chases, recesses, holes, and the like,</li> <li>3. Pipe sleeves,</li> <li>4. Building of concrete and/or brick ducts in floors, walls ...etc.,</li> <li>5. Excavation, forming of trenches for services, concreting, bedding and back filling and ramming after laying,</li> <li>6. Fixing brackets, clips, holder bats, hangers, and the like,</li> <li>7. Temporary and final fixing,</li> <li>8. Nails, screws, bolts, nuts, washers, holes, plugs, sleeves and the like,</li> <li>9. Building in or cutting and pinning,</li> <li>10. Testing and drawings,</li> <li>11. Painting,</li> <li>12. All work of other trades in connection with plumbing work including all making good.</li> </ol> <p>(2) Rates for building of 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 for:</p> <ol style="list-style-type: none"> <li>1. All pipe work in connection therewith and connections thereto including connection to the nearest manhole or gully and to the cold water storage tank.</li> </ol> <p>(4) Rates for pipe work including pipe work in frames to shading sheds shall include for:</p> <ol style="list-style-type: none"> <li>1. Joints in the running length,</li> <li>2. Nipples, connections, sockets, ferrules, couplings, back nuts, unions, and the like,</li> <li>3. Bends, elbows, tees, reducers, access doors, cleaning eyes, blank caps, stop valves, and the like,</li> <li>4. Welded joints and connections including grinding,</li> <li>5. Lagging and wrapping,</li> <li>6. Excavation, bedding and backfilling.</li> </ol>				
7.1	Supply cold water storage tank 1.5 m3 capacity ,plastic approved type, complete with lockable cover automatic float valve, overflow pipe and drip tray, and connections for rising main and distribution pipe work as per specification and drawing .	No	12		

Dar Al Arqam School					
No.	DESCRIPTION	UNIT	QTY	UNIT RATE \$	TOTAL AMOUNT \$
7.2	supply and install irrigation network for the proposed playground(20*30 m) the price includes MDPE pipes Ø 63,50,32 mm 10 bar, stainless steel SPRAY (no 9 ) Hunter 1.3 ADV or equivalent, valves, cut, backfill with clean sand, aggregate around each SPRAY, valves, brass fittings and all required materials to complete the job according to drawings, specifications and engineer's instructions.	L.S	1		
<b>Total</b>					
8. ROOFING WORKS					
	<p>(1) Rates for foam concrete/ cement and mortar work shall include for:</p> <ol style="list-style-type: none"> <li>1. Supply and storage of cement.</li> <li>2. Supply and storage of aggregates and water,</li> <li>3. Mixing,</li> <li>4. Hacking concrete, applying cement slurry or raking out joints of block work to form key,</li> <li>5. Application to any surface,</li> <li>6. Finish to surface,</li> <li>7. Finish to falls and cross falls,</li> <li>8. Forming bays including joints,</li> <li>9. Finish to edges,</li> <li>10. Making good around steel sections, pipes, tubes, bars, brackets, outlets, and the like,</li> <li>11. Ends, intersections, ramps, and the like, on fillets,</li> </ol> <p>(2) Rates for waterproofing shall include for: 1.</p> <ol style="list-style-type: none"> <li>1. Preparation of surface,</li> <li>2. Any area or width,</li> <li>3. Cutting in edges.</li> <li>4. Over laps, priming and treatment at the corners and floor drains.</li> <li>5. Testing for the roof with water</li> <li>6. Dressing over parapets and stub columns including forming groove to receive edge of plasticised bitumen membrane and sealing with elastic sealer.</li> <li>7. Removal of damaged elements (damaged insulation sheets, damaged foam concrete, cleaning the surface and any other required work to complete the job according to specifications.</li> </ol> <p>(3) Rates for roof sheets shall include for: 1.</p> <ol style="list-style-type: none"> <li>1. Side and end laps, Fittings including bolts, hook bolts, screws and washers,</li> <li>2. Sheets of any width or length.</li> </ol>				
8.1	Supply and cast foam concrete with fine aggregates for roof screeding of average thickness 7 cm as shown in drawing for the destroyed places.	M <sup>2</sup>	150		
8.2	Supply and lay one layer of plasticized bitumen roofing membrane with chipping 4 mm thick, including priming concrete surface prior to laying, dressing into rain water outlets to form water proofing seal and cover the angle fillets. The rate include verticals parts skirting as per specification and drawings.	M <sup>2</sup>	150		
8.3	Supply and lay one layer of plasticized bitumen roofing membrane with chipping 4 mm thick, (20 X 20 ) cm pieces for small opining including priming concrete surface prior to laying, dressing into rain water outlets to form water proofing seal and cover the angle fillets. The rate include verticals parts skirting as per specification and drawings.	No	250		

Dar Al Arqam School					
No.	DESCRIPTION	UNIT	QTY	UNIT RATE \$	TOTAL AMOUNT \$
8.4	Maintenance of the existing expansion joint in the corridor floor as detailed in drawings, including mastic sealant (Sikaflex), aluminum angles 40x65x3mm the work includes leakage testing and any required work as in specification and drawings.	.Mr	50		
8.5	Maintenance of the existing expansion joints and cover for back columns, front columns and corridor soffits as detailed in drawings including mastic sealant (Sikaflex) and aluminum strip size 100 x 3mm screwed to walls or soffits from one side as per specification and drawings.	Mr.	120		
8.6	Supply and fix polystyrene sheets 18mm thick and applying mastic sealant 2cm depth and aluminum strip at the both sides for boundary wall expansion joint at foundation and the super structure as per specifications and drawings.	Mr	10		
<b>Total</b>					
9. PAINTING WORKS					
	<p>1. Painting and decorating to walls, ceilings and the like shall be measured net in squared meters,</p> <p>2. Painting and decorating to all other surfaces, items and things are included in the items of surfaces, items and things, will not be measured separately.</p> <p>Rates for painting and decorating work shall include for:</p> <ol style="list-style-type: none"> <li>1. Preparation of surface including puttying, sealing and priming,</li> <li>2. Any area or width,</li> <li>3. Any location,</li> <li>4. Work in multi colours,</li> <li>5. Cutting in edges,</li> <li>6. Any taping and covering to protect areas and others.</li> <li>7. cleaning and polish for any place after paint.</li> </ol> <p>All the painting materials should be approved and tested by approved local laboratory and have the final Approved from the Eng.</p>				
9.1	Supply and paint the internal walls up to a high of 2.2m above finishing floor level two coats of putty one undercoat primer and two coats of colored oil paint and the price included the maintenance of plaster in damage area, and repairing existing cracks as per specifications, drawings and the engineer's instructions.	M <sup>2</sup>	300		
9.2	Supply and paint one primer and minimum two coats of emulsion paint (Poliside) for walls, ceiling and drop beams and the price included the maintenance of plaster in damage area and repairing existing cracks as per specifications, drawings & the engineer's instructions.	M <sup>2</sup>	2000		
9.3	Supply and Paint, internal soffits, sloping soffits, internal walls with one coat of Pendrole primer and at least two coat of External quality emulsion (Supercryle) or equal and the item includes maintenance works for plastering coats, and scaffoldings approved as specification and drawings.	M <sup>2</sup>	10000		
<b>Total</b>					
10. EXTERNAL WORKS					
10.1	Supply and Execute Interlock 6 cm thick to match the existing for the outdoor playground. The work include spray and leveling of 5cm clean sand .The item include removing the destroyed parts and replaced with good ones and deliver to the school mangment.	M <sup>2</sup>	100		

Dar Al Arqam School					
No.	DESCRIPTION	UNIT	QTY	UNIT RATE \$	TOTAL AMOUNT \$
10.2	Supply ,spreading ,leveling , damping and compacting 20cm base coarse material including removing trees, leveling of subgrade, removing trees or any other obstruction items available in the proposed area of the playground and removing all arising debris from the site according to drawing specifications and under supervision .	M <sup>2</sup>	600		
10.3	Supply and Execute Interlock 8 cm thick. The work include spray and leveling of 5cm clean sand and making concrete closing 15 cm wide * 30 cm height(4Ø10).as per specifications and engineer's instructions.	M <sup>2</sup>	600		
10.4	Supply and Execute plates of green grass (COCOIA+PESBLONE) Free from diseases and facility certificate of origin for the playground, spreading of 5cm lean sand under grass the work includes leveling of subgrade, irrigation and follow up along the maintenance period according to drawing, specification and engineer's instructions	M <sup>2</sup>	600		
<b>Total</b>					
11. ELECTRICAL WORKS					
	<p><b>General:</b></p> <p>*The items in general shall also include conduits, connection boxes, controls, wires, connectors, clamps, bolts, and connecting the cables to switchboards and common electric network are included in the unit price.</p> <p>* Contractor shall submit shop drawings for all electrical works to be approved by the Engineer before executing the work.</p> <p>* As-built drawings shall be submitted after handing over the work.</p> <p>* All the electrical works shall be executed according to Standards, drawings, specifications and supervisor engineer instructions.</p> <p>* Dismantling &amp;Removing old lighting unit (fluorescent light fixture, glops, ..... Etc ) and move to school stores as per engineer instructions.</p>				
11.1	Supply, install, connect and test fluorescent lighting fixture 2x36w complete with lighting tubes 36, chock, condensers, starters rigid PVC conduits, J.bboxes, fixing screws (Galv.) and wiring 3x1.5 mm2. (Type is GA'ASH No. 50540 or equivalent)	No.	72		
11.2	Ditto but 1x36 w .	No.	24		
11.3	Ditto but 1x36 w with special reflector for black board	No.	36		
11.4	Ditto but round bulk head light, water proof, 28 w PL lamp	No.	30		
11.5	Maintenance for fluorescent light fixture includes changing ballast, lamps, starters and all necessary equipments for installation and operation as per specifications and engineer instructions.	No	80		
11.6	Supplying, installing and operating flush mounting socket outlet (2P+E) 10/16A . <b>(Type is BTICINO MATIX # AM5183 or equivalent)</b> The item includes 3x2.5mm2 wires, covers, conduits, bolts, clamps, and connection boxes, complete with all accessories for connection and commissioning as per drawings, specifications and engineer instructions.	No.	40		

Dar Al Arqam School					
No.	DESCRIPTION	UNIT	QTY	UNIT RATE \$	TOTAL AMOUNT \$
11.7	Supplying, installing and operating Light Switch (Type is BTICINO MATIX # AM5001 or equivalent) The item includes all necessary equipments for installation and operation as per drawings, specifications and engineer instructions.	No.	8		
Total					

<u>SUMMARY</u>		
1	Excavation & Earthworks.	
2	Concrete Works.	
3	Building Works	
4	Carpentry works	
5	Metal works	
6	Finishing works	
7	Plumbing works	
8	Roofing works	
9	Painting works	
10	External works	
11	Electrical works	
SUB TOTAL		

**OVERALL SUMMARY**

<b>NO.</b>	<b>Description</b>	<b>Total price (\$)</b>
<b>1</b>	<b>Total of Dar Al Arqam School - US\$</b>	
<b>Total</b>		

Total in numbers: .....

Total in letters: .....

**Name of the contractor:** .....

**Authorized signature:** .....

**Signature and Sealing:**.....

**Title:** .....

**Telephone:**.....

**Fax:** .....

**Mobile:** .....