



UNITED NATIONS DEVELOPMENT PROGRAMME

ITB

LOT 17
Bill of Quantities

Programme Title: Right to Education in the Gaza Strip
Project name: Rehabilitation Works For Universities

PAL10- 00094739- LOT 17

**Rehabilitation Works of University of Palestine, Gaza University, Al Quds Open
University and Arabic College for science**



UNITED NATIONS DEVELOPMENT PROGRAMME

ITB

WBS 1408

University of Palestine

University of Palestine- Moneeb Almassry Building - 4th floor

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
	<p>General Notes:</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 university , 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>				
1. Building Works					
	<p>The price include:</p> <p>1- supplying hollow 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. This item will include cement mortars, all requirements needed to finish the works according to the drawings, specification and to the supervision engineer instructions.</p> <p>.Providing samples for approval and all the required tests -2</p>				
1.1	.Supply and build hollow cement blocks 40x20x20cm	M2	2		
1.2	.Ditto but 40x20x 12 cm thick	M2	2		
Total					

University of Palestine- Moneeb Almassry Building - 4th floor

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
2. FINISHING works					
	<p>A- Plaster works All works must be according to drawings, specification and engineer instructions. Rates shall include : Supply of all needed materials, including galvanized angles for the corners, as well as the use of galvanized wire mesh between concrete and block work. 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>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. Trimming of concrete chippings, removing the wires and etc. and cleaning of existing surfaces to be ready for plastering. The work shall include 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. This should be done prior to commencement of plastering and after obtaining a written approval from the supervision engineer. Curing with water for at least three days for each coat.</p> <p>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. 3. Insulation works under ceramic floor tiles for underneath bath rooms and kitchens using primer coat, two hot bitumen coats (75/25) including skirting 20cm height. 4. Plastic angle beads for ceramic wall tiles and Aluminum angle for ceramic of walls at the corners and top and sides of ceramic edges. 5. Measuring the stockpiled quantities of tiles and obtaining the engineer approval prior to shipment to the site. 6. Transporting and carefully handling the stored quantities to the site.</p>				
2.1	Supply and make internal plastering 13 mm thick for ceiling ,walls and drop beam. 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 mortar: lime and third layer: Finishing Coat with (0.25:1.25:2) cement: sand mortar: lime . Works include all materials needed to finish the works according to specifications , drawings and supervisor engineer's instructions	M2	3300		
2.2	Fix the exist 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 mortar: lime and third layer: Finishing Coat with (0.25:1.25:2) cement: sand mortar: lime . Works include all materials needed to finish the works according to specifications , drawings and supervisor engineer's instructions	M2	25		
2.3	Supply and make internal plastering finishing Coat with (0.25:1.25:2) cement: sand mortar: lime . Works include all materials needed to finish the works according to specifications , drawings and supervisor engineer's instructions	M2	177		

University of Palestine- Moneeb Almassry Building - 4th floor

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
2.4	Supply and install terrazzo berlatto floor tiles (grade A) size 30cmx30cmx3cm with Basalt stone laid on 2cm mortar bed and 10 cm thick sand bed and terrazzo berlatto marbel stones skirting 30cmx 7cmx1cm including all materials and testing as per specifications and drawings.	M2	1350		
2.5	Supply and install local Mosico floor tiles (grade A) size 25cmx25cmx3cm laid on 2cm mortar bed and 10 cm thick sand bed and local Mosico skirting 30cmx 7cmx1cm including all materials and testing as per specifications and drawings.	M2	350		
2.6	Supply and cast Rozabetta Granite 24cm wide x 3cm thick thresholds including smoothing the surfaces (for thresholds). as per specifications and drawings.	Mr	29.5		
2.7	Supply and install spanish ceramic tiles for kitchen and baths walls. In the size of 30x45cm.Including finishing and polishing. Supervisor enginner should accept the color.	M2	220		
2.8	Supply and install Rozabetta stair treads size 32 cm wide x 3cm thick chamfered once , rebated once and laid on 2cm thick mortar bed. The price including Rozabetta stair risers size 15 cm high x2cm thick. Granite Rozabetta Skirting 2cm thick on the both sides as specification and drawing A2.	Mr	140		
2.9	Ditto but for stair case handrail coping size 16cmx4cm, chamfered once from the internal stairs side.	Mr	41		
Total					
3. PAINTING Works					
	<p>Rates for painting and decorating work shall include for:</p> <ol style="list-style-type: none"> 1. Preparation of surface including puttying, sealing and priming, 2. Any area or width, 3. Any location, 4. Work in multi colours, 5. Cutting in edges, 6. Any taping and covering to protect areas and others. <p>All the painting materials should be approved and tested by approved local laboratory and have the final Approved from the Eng.</p>				
3.1	Supply and Paint the internal walls up to a high of 2.1m above finishing floor level with one coat Pelrole (Oil Matt) half matt. two coats of putty, one undercoat primer and two coat of oil paint as specified in specification and approved by representative engineer.	M2	3290		
3.2	Supply and Paint one-primer and minimum two coats of supercreall for internal walls, ceiling and drop beams as specification and drawings.	M2	1930		
Total					

University of Palestine- Moneeb Almassry Building - 4th floor

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
4. Electrical works					
	<p>General:</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 & Removing old lighting unit (fluorescent light fixture, glops, Etc) and move to school stores as per engineer instructions.</p> <p>The following items shall include supply, install, connect and commission lighting and power socket outlets, including PVC conduits, conduit fittings, pull boxes, wires, cables, accessories and circuit wiring between fittings, switches or socket outlet up to its sub-panel board. As shown on drawings & specifications.</p>				
Switches					
4.1	Supply, install, connect and test high quality single pole one way switch, 220v, 13A, for flush or surface mounted complete with plastic trenches , J. boxes, cables , cover and all necessary accessories according to engineer instructions.(Type is BTICINO MATIX or equivalent)	No	4		
4.2	Ditto but two gang one way.	No	9		
4.3	Ditto but three gang one way.	No	3		
4.4	Ditto but four gang one way.	No	21		
4.5	Ditto but push-button switch with step relay for staircase	No	6		
Sockets					
4.6	Supply, install connect and, testing high quality single outlet socket,16A for the AC, 220v, 2p+E for flush or wall mounting, complete with pvc conduites , J. boxes, 3*2.5mm2 cable, and all necessary accessories. (Type is BTICINO MATIX or equivalent)	No	46		
4.7	Ditto but sockets floor mountained	No	12		
4.8	Ditto but water proof	No	6		
4.9	Ditto but double socket one way, wall mountained.	No	68		
4.10	Ditto but double socket one way, floor mountained.	No	31		
4.11	Supply and install 25A, 3 Pin socket outlet ,wall mountained. With lamp and switch for A/C.Complete with pvc conduites , J. boxes, 3*4mm2 cable, and all necessary accessories for connection and commissioning. (Type is GEWISS or equivalent)	No	16		
4.12	Supplying, testing and erecting communication (computer network) socket outlet RJ45, wall mountained, including CAT5E cables from the socket to the nearst rack, trenches and all according to the tender documents and engineer instructions.(Type is BTICINO MATIX or equivalent)	No	65		
4.13	Ditto but data socket floor mountained	No	31		
4.14	Supply, install telephone socket outlet 6 pin for surface/flush mounting, complete with PVC conduits, J.boxes, cables, and all necessary accessories. (Type is BTICINO MATIX or equivalent).	No	27		
4.15	Supply and install PVC pipes and boxes for Projector Unit . The item includes all necessary equipments for installation and operation as per drawings, specifications and engineer instructions.	No	24		

University of Palestine- Moneeb Almassry Building - 4th floor					
Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
Ceiling fan					
4.16	Supply and install electrical ceiling fan 56" with regulator,pvc conduites , J. boxes, 3*2.5mm2 cable and four fixin bolt with 10x10 cm steel plate. (Type is CHMC or equivalent)	No	61		
lighting					
4.17	Supply, install, connect and test round bulk head light, water proof with 28W PL lamp, wires, conduits, j. boxes and fixing screws for ceiling mounted. (Type is GA'ASH No. 552100 or equivalent).	No	25		
4.18	Supply, install, connect and test fluorescent lighting fixture 2x36w complete with lighting tubes 36W, chock, condensers, starters, rigid PVC conduits, J. boxes, fixing screws (Galv.) and wiring. (Type is GA'ASH No. 50540 or equivalent).	No	162		
Sub Distribution Board, (SDB)					
	Supply , install ,connect and operate the following MCCB,MCB and ELCB's to be install in existing sub distribution board (type is MOELLER or equivalent). The item includes busbars, wiring, insulations, plastic ducts, terminal blocks and connection of power cables and all necessary equipments for installation and operation as per drawings, specifications and engineer instructions and including the following equipments:				
4.19	MCB 16A, 6KA	No	40		
4.20	MCB 10A, 6KA	No	42		
4.21	MCB 25A, 5KA	No	18		
4.22	ELCB 4*25A/0.03A	No	4		
4.23	ELCB 4*40A/0.03A	No	5		
4.24	NZMB1 63A	No	5		
4.25	MCB 3*20A, 10KA	No	4		
4.26	MCB 3*40A, 10KA	No	5		
4.27	MCB 3*50A, 10KA	No	1		
Total					

DESCRIPTION	Total Amount \$
1. Building works	
2. Finishing works	
3.Painting works	
4. Electrical works	
Subtotal (\$)	



UNITED NATIONS DEVELOPMENT PROGRAMME

ITB

WBS 1410

Gaza university

Gaza university

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
	<p>General Notes:</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 university , 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>				

Gaza university

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
Bill No (A) 1.DEMOLISH & TRANSPORT AND REMOVAL WORKS					
	<p>The Contractor shall, when pricing the rates of bill, 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, technical specification of contract, visit the site and engineer instructions.</p> <p>The price for demolishing works includes:</p> <ul style="list-style-type: none"> * The removal of all demolishing wastes and debris material from site to be disposed of to approved site * The Price for demolishing works includes the dismantling of all materials (like sinks, mixers, electrical fixtures, doors, steel elements, glass elements, cabinets, windows, plumbing fixtures, ... etc.), the contractor should submit it to the Colleges store before starting the final demolishing works. *All demolition works to be done in a manner not to harm any existing structure and infrastructure connections\supplements , such as (water, electricity, telephones, surveillance cameras and so on.) *Maintain any damages occur during the work *The working shall also include disassemble and re-installation of any unnecessary obstruction or rooms or awnings or materials as well as plastering over the surface of the upper floor wall According to the engineering office instructions. *Work shall include maintenance of all properties listed below and paint awnings and metal pipes and tanks stand an so on. *The contractor shall bear full responsibility for protecting and securing adjacent buildings and surrounding site workplace and surrounding streets. *Contractor shall provide all necessary protective measures to safeguard the existing utilities from damage during the construction of this project. *Prices include safety provisions <p>The required works shall be calculated with Engineering measurement.</p>				
1.1	dismantle carefully the existing fire clay roof and reinstall the roof after construction of the new floor the price includes, storing of materials in good conditions, replacement of any harmed elements (tember or fire clay tiels) and supplying any required materials to complete the job according to specifications and engieneer's instructions	L.S	1		
1.2	demolish safely and remove the existing walls Inconsistent with the new design and transfer all debris inside and out side the building to approved dumpsite.	L.S	1		
Total					

Gaza university

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
Bill No (A) _ 2. CONCRETE WORK					
	<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 reinforced concrete B (300) kg/cm2 for columns as per specifications and drawings.	m ³	32		
2.2	Supply and cast ready mix concrete B (250) kg/cm2 for suspended hollow block slab 25 cm thick, including the reinforced steel,b, hollow cement block 40 x 25 x 17cm, all drop and hidden beams everywhere in the slab and all other materials as per specifications and drawings.	m2	550		
2.3	Ditto but for all elements of stair case including the entrance stairs.	m ³	6		
2.4	Ditto but for sills, lintels, topping wall.etc.	m ³	12		
2.5	Supply and cast ready mix concrete (B150) for stub columns at the roof.	m ³	7		
Total					

Gaza university

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
Bill No (A) _ 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	350		
Total					

Gaza university

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
Bill No (A) - 4. FINISHING works					
	<p>A- Plaster works All works must be according to drawings, specification and engineer instructions. Rates shall include :</p> <ol style="list-style-type: none"> 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 any. 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>B- Tiles works All works must be according to drawings, specification and engineer instructions. Rates shall include :</p> <ol style="list-style-type: none"> 1. Samples for approval and all the required tests. 2. Cleaning, mechanical polishing and pointing using grout. 3.Insulation works under ceramic floor tiles for all wet areas and kitchens using primer coat, two hot bitumen coats (75/25) 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. 				
	<p>C- Nature stone works: All works must be according to drawings, specification and engineer instructions. Rates shall include :</p> <p>All stone works shall be of local white &red stone from hebron .stone material size and texturing shall be in accordance with engineers instructions and approval. stone shall be not less than 4 cm thick ,25 cm high and length ranging from 1.5 to 3 times the height.</p> <p>Price also includes the removal of the final layer of plastering .</p> <p>Price also includes the Scaffold and all accessories.</p> <p>Supply of all needed materials, including galvanized angles for the corners, as well as the use of galvanized wire mesh between concrete and block work.</p> <p>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>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>Trimming of concrete chippings, removing the wires and etc. and cleaning of existing surfaces to be ready for nature stone work..</p> <p>This should be done prior to commencement of nature stone work. and after obtaining a written approval from the supervision engineer.</p> <p>Curing with water for at least three days for each coat.</p>				

Gaza university					
Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
4.1	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	1100		
4.2	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 (kfars) and all is according to specifications , drawings and supervisor engineer's instructions	m ²	320		
4.3	Ditto, but the final layer in marmarina	m ²	70		
4.4	Supply & install porcelain tiles 350×350×8 mm (full body) to floors, laid on 40mm thick mortar bed and 50mm clean sand including testing. Price should include for skirting 8cm high of same color and type.	m ²	520		
4.5	Supply & install precast terrazo steps for staircase 300mm wide× 50 mm thick polished and chamfered laid on 20mm thick mortar including stair risers 150mm high ×20mm thick, stair skirting 170mm high ×20mm thick.	mr	60		
4.6	Supply & install local marble (khalily) size 700mm wide×30mm for windows sills laid on 25mm mortar bed.	mr	27		
4.7	Supply and cast terrazzo edge beam 25cm wide x 6cm thick of the same kind and color of the floor tiles including smoothing the surfaces, expansion joints and edges (for corridors and thresholds.) as per specifications and drawings.	mr	45		
4.8	Supply and install Smooth Local first choice nature stone (Polished natural stone-molatah, mesamsem and smoth) as per the specifications .The Price includes stone cladding, concrete between block and stone, reinforcement steel 1T6 /20cm in both directions , decorative stone around windows, stainless steel anchor, shuttering, scaffold, mortar, cleaning with sand gun, testing, pointing with white cement and special sand mortar (1:1) with all additives, painting with special materials to prevent water leakage and all required work to complete the job. all the work according to supervisor engineer's instructions	m ²	140		
4.9	Ditto but Maintenance for the exsting elevations nature stone the price includes scaffolding, replacment of any defected stone, cleaning with sand and any required materials to complete the job according to specifications and engineer's instructions	m ²	500		
4.10	Supply and install clay roofing tiles (bricks) of red color Class (A), size 22×42 cm, 3 kg all according to the drawings, specification and engineer's instructions. The wood must be treated with anti rot paint. The item includes the following works: 1. Supply and install tempered-frame works of Class (A) Swedish wooden posts, size 22×22 cm, fixed on metal supports, including all materials and accessories required for fixation. 2. Supply and install Class (A) white Swedish wood 10x5 cm for the trusses free of knots painted with sanding sealer, all as drawings, specifications, and instructions of supervisor engineer. 3. Supply and install Class (A) white Swedish wood 5x5 cm for the joists, painted with sanding sealer, all as drawings, specifications, and instructions of supervisor engineer. 4. Roofing tiles should be fixed according to the required slopes and proper fixation at slope variation places with all insulation and protection elements. 5. Supply and install Covering with Alant fiddler wood Class (A) 1 cm thick. Special insulation sheets for ceiling covering with all required materials to prevent water leakage to the wood. The price includes approved lazour paints, the installation of electrical connections according to the specifications, drawings, and the instruction of the supervisor engineer. 6. Supply and install water drainage system including all required fittings and pipes of galvanized steel (1.5 mm min. thick.) including all 3 inch galvanized steel pipes of 3.2mm thick. all according to the instructions of the supervisor engineer. 7. The contractor must approve all wooden sections before any installation and/or fixing process. 8. Measuring will be according to the horizontal area, and the contractor should submit a shop drawing before starting the works.	M2	100		
Total					
Bill No (A) _ 5. PAINTING works					

Gaza university					
Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
	Rates for painting and decorating work shall include for: 1. Preparation of surface including puttying, sealing and priming, 2. Any area or width, 3. Any location, 4. Work in multi colours, 5. Cutting in edges, 6. Any taping and covering to protect areas and others. All the painting materials should be approved and tested by approved local laboratory				
5.1	Supply and Paint one-primer and minimum two coats of supercrylic for internal walls, ceiling and drop beams as specification and drawings.	m2	1100		
Total					
Bill No (A) _ 6. 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.				
6.1	Supply, fix & paint flushed wooden external double leaves door , overall size 110×225×4.5 cm thick, complete with the above preamble.The frame should exceed the wall by 15mm from two sides	No	8		
Total					

Gaza university

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
Bill No (A) _ 7.Aluminum & 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 The university				
7.1	Supply and fix coloured aluminum window section 7000 type W1. , overall size 165×140 cm, complete with frame, white color, four sliding leaves ,clear glass 4mm thick, ironmongery and hardware. and as per specification and drawing.	No	16		
7.2	Supply and fix mild steel balustrade 40cm high for handrail for staircases & parapet comprising of M.S. 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	60		
Total					

Gaza university					
Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
Bill No (A) 8. ELECTRICAL WORKS					
	General: *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. * Contractor shall submit shop drawings for all electrical works to be approved by the Engineer before executing the work. * As-built drawings shall be submitted after handing over the work. * All the electrical works shall be executed according to Standards, drawings, specifications and supervisor engineer instructions. * Dismantling & Removing old lighting unit (fluorescent light fixture, glops, Etc) and move to school stores as per engineer instructions.				
8.1	Ditto but PVC dist-board 24CB capacity, (Type is GEWISS or equivalent)	No	4		
8.2	Supply, install, connect and test fluorescent lighting fixture 2x36w complete with lighting tubes 36W, chock, condensers, starters, rigid PVC conduits, J. boxes, fixing screws (Galv.) and wiring. (Type is GA'ASH No. 50540 or equivalent).	No	72		
8.3	Supply, install, connect and test round bulk head light, water proof with 28W PL lamp, wires, conduits, j. boxes and fixing screws for ceiling mounted. (Type is GA'ASH No. 552100 or equivalent).	No	6		
8.4	Supply and install PVC pipes and boxes for Projector Unit . The item includes all necessary equipments for installation and operation as per drawings, specifications and engineer instructions.	No	5		
8.5	Supply, install, connect and test high quality single pole one way switch, 220v, 13A, for flush or surface mounted complete with plastic trenches , J. boxes, cables , cover and all necessary accessories according to engineer instructions.(Type is BTICINO MATIX or equivalent)	No	5		
8.6	Ditto but two gang one way.	No	10		
8.7	Ditto but three gang one way.	No	5		
8.8	Ditto but push-button with lamp	No	4		
8.9	Supply, install connect and, testing high quality single outlet socket,16A for the AC, 220v, 2p+E for flush or wall mounting, complete with pvc conduites , J. boxes, 3*2.5mm2 cable, and all necessary accessories. (Type is BTICINO MATIX or equivalent)	No	24		
8.10'	Supply and install electrical ceiling fan 56" with regulator.pvc conduites , J. boxes, 3*2.5mm2 cable and four fixin bolt with 10x10 cm steel plate. (Type is CHMC or equivalent)	No	24		
8.11	Supplying and installing CU cable XLPE 5x16 mm2 The item includes PVC pipe and all necessary equipments for installation and operation as per drawings, specifications and engineer instructions.	M	20		
8.12	Ditto but CU cable XLPE 5x6 mm2.	M	20		
8.13	Supply and install electrical switch board of size 80X60x25cm one door, the frame work is made of galvanized steel sheets 2mm thickness, painted by antistatic and insulation paint.The item includes busbars, wiring, insulations, plastic ducts, terminal blocks and all necessary equipments for installation and operation as per drawings, specifications and engineer instructions (Type is MOELLER or equivalent)	No	1		
8.14	Ditto but PVC dist-board 24CB capacity, (Type is GEWISS or equivalent)	No	2		
8.15	MCB 16A, 6KA	No	15		
8.16	MCB 10A, 6KA	No	9		
8.17	ELCB 4*25A/0.03A	No	1		
8.18	ELCB 4*40A/0.03A	No	1		
8.19	MCB 3*20A, 10KA	No	3		
8.20'	MCB 3*32A, 10KA	No	1		
8.21	MCB 3*40A, 10KA	No	1		
8.22	NZMB1 63A	No	1		
8.23	q)Step relay 10A ,220V	No	2		
Total					

Gaza university

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
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DESCRIPTION	Total Amount \$
1.DEMOLISH WORKS	
2. CONCRETE WORKS	
3. BUILDING WORKS	
4. FINISHING WORKS	
5. PAINTING WORKS	
6. CARPENTARY WORKS	
7.ALUMINIUM AND METAL WORKS	
8. ELECTRICAL WORKS	
Subtotal (\$)	



UNITED NATIONS DEVELOPMENT PROGRAMME

ITB

WBS 1407

Al Quds university

Al Quds university

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
	<p>General Notes:</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 university , 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>				

Al Quds university

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
1. FINISHING works					
	<p>A- Tiles works All works must be according to drawings, specification and engineer instructions. Rates shall include :</p> <ol style="list-style-type: none"> 1. Samples for approval and all the required tests. 2. Cleaning, mechanical polishing and pointing using grout. 3. Insulation works under ceramic floor tiles for underneath bath rooms and kitchens using primer coat, two hot bitumen coats (75/25) including skirting 20cm height. 4. Plastic angle beads for ceramic wall tiles and Aluminum angle for ceramic of walls at the corners and top and sides of ceramic edges. 5. Measuring the stockpiled quantities of tiles and obtaining the engineer approval prior to shipment to the site. 6. Transporting and carefully handling the stored quantities to the site. 7. Repairing the existing cracks and fill it using Sika flex. 8. The contractor shall take approval for any required materials before implementation. 				
1.1	Supply and fix color glazed ceramic wall tiles(grade A) , Spanish made or equivalent, size 30x60x0.80cm for elevations. The price includes removal of the existing paints and plaster by sand gun, lime free key nail then and pointing using special pre-mixed grout, scaffolding , covering the windows by polytherene sheets, disassemble, re-fix and commission air conditioners, pipes, advertisement panels and any other required works to complete the job as specifications and supervisor engineer instructions.	M2	110		
1.2	Supply and install spanish Porcelain tiles (full body) . In the size of 4x40cm and 10mm thickness. Including, glue material to paste New Porcelain with Old tiles, skirting, finishing and polishing. Supervisor engineer should accept the color.	M2	75		
1.3	Supply and lay Rozabetta stair treads size 32 cm wide x 3cm thick chamfered once , rebated once and laid on 2cm thick mortar bed. The price including Rozabetta stair risers size 15 cm high x2cm thick. Granite Rozabetta Skirting (triangle shape) 2cm thick on the both sides and remove the existing to approved dump site as specification and drawing A2.	Mr	100		
Total					

Al Quds university					
Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
2.Aluminum & Metal works					
	<p>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.</p> <p>The composite panels must be customized for external use (PVDF paint filled with white polyethylene) and accredited by the Palestinian standards' institution</p> <p>All composite works must be fixed on hot galvanized steel structure profiles 2x2 cm with thickness 2 mm or as specified in each item.</p> <p>the price of compsite works shall includes filling spaces between composite boxes with sikaflex or equivelent.</p> <p>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 maintenance department of the college.</p>				
2.1	<p>Supply and install Aluminum composite panel ACP (Turkish). for elevations of building with 4 mm thickness. (The panels must be customized for external use (PVDF paint filled with white polyethylene) and accredited by the Palestinian standards' institution .The Price includes installation of steel structure 2x2 cm with thickness 2 mm with Based paint and filling spaces between composite boxes with sikaflex or equivelent, scaffolding, gasket (EBDM), preparation of shop drawings, all necessary accessories, and selection of colors according to specification and instructions of supervision engineer</p>	M2	200		
Total					

DESCRIPTION	Total Amount \$
1. Finishing works	
2.Aluminum & Metal works	
Subtotal (\$)	



UNITED NATIONS DEVELOPMENT PROGRAMME

ITB

WBS 1405

Arabic College for science

Arabic College for science

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
	<p>General Notes:</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 university , 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>				

Arabic College for science

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
1. PAINTING Works					
	<p>Rates for painting and decorating work shall include for:</p> <ol style="list-style-type: none"> 1. Preparation of surface including puttying, sealing and priming, 2. Any area or width, 3. Any location, 4. Work in multi colours, 5. Cutting in edges, 6. Any taping and covering to protect areas and others. <p>All the painting materials should be approved and tested by approved local laboratory and have the final Approved from the Engineer</p>				
1.1	Supply and Paint one-primer and minimum two coats of supercreall for internal walls, ceiling and drop beams as specification and drawings.	M2	120		
1.2	Supply and install gypsum board false ceiling of 60*60cm manufactured by ArmstrongPrima -Dune or approved equivalent ,with exposed suspension system manufactured by Raysound including galvanized steel hanger wire, hold down clip, wall molding, main and cross bar, as shown in drawing and according to engineer's approval. The suspension parts will be selected by the Engineer. The works shall include the Gypsum border to close the sides.	M2	65		
Total					

Arabic College for science

Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
2. Aluminum & 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 maintenance department of the college.				
2.1	Supply and fix coloured aluminum window section 7000 type W2. , overall size 250 x 120cm, complete with frame, colored, two sliding leaves ,colored glass 4mm thick, ironmongery and hardware. and as per specification and drawing.	M2	3		
2.2	Ditto but, Type W2 .	M2	9		
2.3	Supply and fix coloured aluminum window section 4500 type W3. complete with frame, colored, colored glass 4mm thick, ironmongery and hardware. and as per specification and drawing.	M2	4		
2.4	Maintenance Aluminum doors (cafeteria door) The price including switch, glass and all accessories needs. All in accordance with the specification and as directed by Engineer.	No	1		
Total					

Arabic College for science					
Item No.	Description	Unit	Quantity	Unit Rate US \$	Total Amount US \$
3. MISCELLANEOUS WORKS					
	MISCELLANEOUS WORKS GENERAL: 3. Price should include all excavation, backfilling, leveling of subgrade, supporting of trenches and all associated works 4. The Contractor shall consider in his price the costs or expenses of tests of materials used (concrete, steel bars, base coarse, block, cement ...etc.				
3.1	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), B250 plain concrete foundation (30x10cm) under the curb and (13x21cm) behind, spreading 2 cm mortar under the curbston, 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.	MR	100		
3.2	Supply and construct interlock tiles (B400) 8cm thick including 20 cm base coarse layer (80% C.B.R). . The price includes compaction base course in two layers to 100% compaction ratio, watering, and testing, leveling of subgrade, compaction of subgrade (98%) , removing of all debris,trees, surplus materials to approved dump site and the price also includes 5 cm sand . Levels, colors and shapes all determined according to drawings, specifications and the supervisor Engineer's instructions.	M2	1000		
Total					

DESCRIPTION	Total Amount \$
1.Painting works	
2.Aluminum & Metal works	
3. Miscellaneous works	
Subtotal (\$)	

OVERALL SUMMARY

NO.	Description	Total price (\$)
1	Total of University of Palestine - US\$	
2	Total of Gaza university - US\$	
3	Total of Al Quds university - US\$	
4	Total of Arabic College - US\$	
Total		

Total in numbers:

Total in letters:

Name of the contractor:

Authorized signature:

Signature and Sealing:.....

Title:

Telephone:.....

Fax:

Mobile: