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**ITB 2014-065**

**PAL 10-00087457 Establishment of Public Library in the Old City of East Jerusalem**

**SECTION 9: PRICE SCHEDULE (Bill of Quantities)**

**Electronic copy of the BOQ shall be submitted along with the signed hard copy thereof. In case of any discrepancy between the soft and the hard copies, the hard copy shall prevail.**

NO	Description	Unit	QTY	Unit Price	Total US\$
	When pricing, the contractor should consider the following points:  1. Hand tools and equipments should be used 2. The contractor is responsible to fix any damage that may occur during construction works 3. The contractor is responsible to remove the debris away from site. 4. All skill labors should have the experience in renovation works.				
<b>1</b>	<b>Demolishing and Dismantling Works</b>				
1.1	Removing the existing plastering until reaching the structural layer. The price includes cleaning the loose soils between stones, correcting the alignments .	M2	500		
1.2	Removing the existing tiles on floors and walls. The price includes removing the fill or any material below the tiles until reaching the required level as per engineer's instructions	M2	150		
1.3	Changing the location of the three stone steps 30 cm towards the wall. The price includes dismantling the steps and rebuilding them	JOB	1		
	<b>Total Demolishing and Dismantling Works</b>				
<b>2</b>	<b>Concrete works</b>				
2.1	Supply and cast B200 concrete for 10 cm thick slabs on grade. The concrete mix should be 1 cement: 2 sand: 3 aggregates, including 8 mm steel mesh (25*25 cm) in both directions. The price includes the excavation and casting of edge beam size 20*25 cm with 4 number 12 mm main bars and 8 mm stirrups each 25 cm. The price also includes preparing and compacting the ground manually.	M2	140		
2.2	Supply and build 10 cm hollow block with 35 kg/cm2 strength. Price includes the mortar, vertical and horizontal reinforced concrete lintels. The price also includes painting the first row it Bituminous .	M2	30		
	<b>Total Concrete works</b>				
<b>3</b>	<b>Plastering works</b>				
3.1	<b>Plastering on old walls:</b> Spray the first coat with the following mix 0.5 white cement: lime 1:sand 2: fine aggregate 2. Apply the rough second coat of 2 cm thick with the following mix 1 white cement: 2 lime : fine chips 5. apply the third coat with the following mix 0.3 white cement:1 lime:5 sand and the final coat is composed of a mix between sand and dry lime 1:2 to be left in water for 3 days	M2	500		
3.2	<b>Plastering on new walls:</b> Supply and install internal plastering for walls, ceilings, columns, drop beams, brackets, soffits of slabs & beams, shaft walls, projections, sills, up stands, openings, sleeves, expansion joints...etc,composed of 3 coats, a bond coat 1:1, base coat 1:4, and finish coat 1:5 as specified. The price includes the corner beads, casing beads, metal lath, scaffoldings, shuttering, surface preparation, making good to frames& openings bonding agents and the requirements as specifications and related standards .the contractor shall take into considerations the site conditions in existing surfaces or elements scheduled for plastering.	M2	15		
	<b>Total Plastering</b>				

Contractor Signature

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NO	Description	Unit	QTY	Unit Price	Total US\$
<b>4</b>	<b>Tiling Works</b>				
4.1	Supply and install Italian full body granite porcelain Grade (A) floor tiles( Antique) 30*30*0.8 cm of different colors , the price includes sand cement mortar bed (1:3) , sand cement fill ( dry mix), cutting& trimming around floor utilities& openings including grouting with special grout materials ,the tiles shall be laid and fixed in patterns, style and forms as directed by the Engineer.	M2	150		
4.2	Supply and install 20x20x0.8cm Porcelain tiles class (A) tiles for walls cladding of different colors. The tiles shall be laid and fixed to the walls in patterns, style and forms of grouting& jointing as directed by engineer using approved adhesive materials. The price also includes the cost of surface preparation to receive tiles, which shall include two coats of cement plaster (scratch and float coat), approved adhesive materials, grouting, aluminum protection angles as approved by the engineer.	M2	40		
4.3	Supply and Install Non-Slip Porcelain Floor Tiles. First choice and free from all defect grade "A". (Approved by Palestine Standards Institution). Price to include sand with cement filling (Grade B-100), pointing with white cement and cleaning on site. Engineer shall approve size and color, which should be 30 *30 *0.8 cm.	M2	15		
4.4	Supply and install 3cm thick local marble grade (A) free from defects for sills, thresholds and where needed set in cement mortar bedding. Price to include grouting, polishing of face and seen edges.	M2	18		
4.5	Local Marble for Steps and Treads of Stairs. Treads of 3 cm thick and Risers of 2 cm. thick. Price shall include supplying and installing local marble for stair flight skirting in parallel setting to the nosing line at an average height of 12 cm. and 20 mm. thickness, and local marble water stop (5cm wide x 3cm thick x length as wide as the tread of the stair minus riser thickness) fixed at the end of treads. Also the price to include filling under tiles with cement and sand 1: 6 ratio, bedding in cement mortar, grouting, pointing, polishing of face and all related works.	MR	30		
4.6	Maintenance for the existing stone stairs, including dressing the landings, Chamfaring the edges and pointing	MR	2.5		
<b>Total Tiling</b>					

Contractor Signature

C.H.

NO	Description	Unit	QTY	Unit Price	Total US\$
<b>5</b>	<b>Carpentry</b>				
5.1	Supply and Fix Wooden Doors 4.5 cm Thick single or double sashes. With (Swedish wood frame) (4.5*3.5) cm ( Swedish) wood edging and (3.5*9.5) cm soft wood stile. Edge strip banding of width 4.5 mm. Formica veneer 0.6 mm on both sides, color as directed by engineer. Door paneling to be soft wood 4.5*3.5 cm. each 4 cm., frames of hardwood (Swedish) 3cm thickness, width according to the wall thickness' and Allowance of 4 - 6 cm. thickness for plastering and tiling purposes, immersed in wood preservative before erection then embedded completely in sand - cement mortar and completely anchored as per specification. Including handles and locks from Yale. Architrave of Hardwood(Swedish) (7*1.2) cm, price to include ironmongery, kick plates of aluminum 10cm height for bath room doors, U shaped both sides, and at the bottom door stoppers, , gaskets cylindrical Lock ((Approved by Palestine Standards Institution), and painting in three coats of oil paint in addition to primer coat. Including handles and locks from Yale	NO	1		
5.2	Supply & Install top and bottom Wooden Kitchen Cabinet. Cabinet's Top shall be with granite 30 mm. thick with polished surface and seen edges. Cabinet Sides, Elevations, Partitions, Shelves and Drawers front-side shall be of 17-mm. thick panel wood, laminated internally with 0.5 mm. Thick Formica sheet, and with 0.8mm thick Formica sheet externally. The whole cabinet shall be framed with Hardwood (Zen) bands size (60*40) mm screwed to steel frame and covered with 0.8mm thick Formica sheet. Rear sides of cabinets and drawer's bottom shall be of 6 mm, thick Veneer covered internally with 0.5mm thick Formica sheet. Price to include cabinet terrazzo flooring (30 * 30 * 3) cm., and terrazzo skirting (30 * 10 * 1.5) cm., ironmongery, handles, granite skirting& edges, recess for sink and related fixtures, fixing the sink, sealants, two coats of lacquer paint over one primer coat and all the accessories as per drawings and Specifications .Including Granite top  Size: Height (90) cm. Width (60) cm. as per detailed drawings)  a-for kitchen and Canteen	MR	10		
5.3	Rehabilitation of existing wooden, the price includes removing the old paint, changing the deteriorated wooden parts, changing the ironmongery and all necessary works as per engineers instructions.	M2	10		
	<b>Total Carpentry</b>				
<b>6</b>	<b>Metallic Works and glass works</b>				
6.1	Supply, fix and operate sliding Puff Aluminum Windows. Extrusion Section 7700 or equal three channel, with protective electrostatically applied polyester powder paint anodized of 70-80 microns. In color approved by the Engineer.  Price to include, 6 mm .double tinted Float colored glazing , fly screen and all other accessories and fittings to complete works as per drawings and specifications.	M2	40		
6.2	Supply and install Tempered Glass door. Price includes all accessories, handles, locks, pneumatic door hinges, all fixed elements, spider if necessary.	M2	2.5		
6.3	Supply and Fix fazzon Steel Doors as per drawings, specifications and Instructions of supervisor engineer. Price to include fixing complete, ironmongery (Approved by Palestine Standards Institution). 6 mm. glazing, gaskets, oil Paint in three coats in addition to two primer coats, as in drawing).	M2	2.5		
6.4	Secure glass partitions 10 mm thick of different heights, dimensions, shape and patterns complete with stainless steel frames, and supports, stainless steel spider joints, clear rubber seals, etc..with all accessories in accordance to the standards and manufacturer recommendations.	M2	8		
6.5	Maintenance works for existing steel, including removing the paint by fire, welding,fixing, removing the deteriorated parts and painting three coats, primer and two coats superluk.	JOB	1		
	<b>Total Metallic and glass Works</b>				

Contractor Signature

NO	Description	Unit	QTY	Unit Price	Total US\$
<b>7</b>	<b>Painting</b>				
	<p>Preamble.</p> <p>Painting and decorating to walls, ceilings and the like shall be measured net in meter square.</p> <p>Painting to other works shall be included in the related items. Color as specified by engineer.</p> <p>Paints shall be supplied to site in sealed container, as approved by the Engineer, and site mixing shall not be permitted.</p> <p>The Contractor rates shall include for supply of all materials, workmanship, samples, primers, surface preparation, protection of painted surfaces, application to all heights as required of works, repair of all damaged surface at the contractor's expenses, and all other requirements as stated in the Specifications.</p> <p>All paint types should be approved and having a supervision certificate from the PSI.</p>				
7.1	Supply and paint high quality supercyl paint for walls as per indicated in finishing tables, on one priming coat and two finishing coats, using two coats of complete putty, as per satisfaction of the supervisor engineer.	M2	40		
7.2	Supply and paint three coats Polycide paint high quality (Approved by Palestine Standards Institution).	M2	10		
7.3	Supply and paint lime paint on lime plaster. Lime should be pure without any additions. All according to engineers instructions.	M2	650		
	<b>Total Painting</b>				
<b>8</b>	<b>Roofing and waterproofing</b>				
8.1	Supply and cast in place plain concrete ( B200) for screed to roof mixed with fiberglass (300 g/m3)with 1% slope, cast to falls not less than 3cm thickness in the drain point , rate to include lining and hunching 10x10 cm with (45°) to the edge of roof screed and parapet, rate also include smooth surface finish to receive waterproofing and all requirements as per specifications , drawings .and Engineer's instructions	M2	60		
8.2	Clean surface, apply two coats of polyurethane waterproofing material, mixing and application should be according to manufacturer's instructions	M2	60		
8.3	Supply and install wooden false ceiling composed of solid treated wooden girders size 200*200 mm as per drawings. The contractor should submit workshop drawings for engineers approval. The price includes fixing and painting as specified.	M2	30		
8.4	Supply and install 18 mm polycarbonate skylight from Polygag or equivalent, the price includes fixing and painting the metal structure as per drawings. The contractor should submit workshop drawings for engineer's approval	M2	65		
	<b>Total Roofing and Water Proofing</b>				

Contractor Signature

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NO	Description	Unit	QTY	Unit Price	Total US\$
9	<b>Mechanical Works</b>				
9.1	Supply, installation, testing and commissioning of HDPE drainage with all required fittings including excavation, back filling, including connections as shown in drawings and in accordance to specifications. Size 4-inch diameter.	MR	30		
9.2	Supply and install of electric water heater of capacity 60 liter with automatic thermostat, the price include all necessary valves, the hot water, pipes from the collector to electric water heater and all other fittings as per drawings and specifications. Including the electrical connections and buttons	NO	1		
9.3	Supply, install, and commissioning of 16 mm XLPE cross-linked polyethylene pipes, ( <b>Pergola or equivalent</b> ) for all branches between sanitary fixtures and manifolds. The price includes the non-corrugated sleeves, and plastic box that contain the elbow or Injasa for fixing in the wall. And the brass elbow itself for the connection to angle valve, with flush chrome plated hole cover, 16mm internal diameter, as in drawings and in accordance to engineering instructions and specifications	MR	100		
9.4	Ditto but 23mm	MR	40		
9.5	Supply and install of copper collector for domestic water the price includes all fittings (vent, valves, on main line and branches), and the steel cupboard and all other fittings as per drawings and specifications.	EYE	6		
9.6	Supply and install 80*120*30 cm steel fire hose reel cabinet 2mm .The cabinet should includes 2*15m hose, 2" nossele, hose reel of 1" diameter *25mm rubber hose with nossele, 6kg powder fire extinguisher, 1" ball valve , 2" ball valve, and landing valve. All according to drawings and specifications. The price includes the connection	NO	1		
9.7	Supply and install 4" electrical ventilation type VENT or Equivalent.. The price includes electrical connection	NO	1		
9.8	Maintenance works for the existing manholes, including supporting the manhole walls, new benching and new covers, including all necessary works as per engineers instructions.	NO	2		
9.9	Supply and install 4" UPVC pipes for rainwater drain, the price includes all the fittings, roof collection box and all necessary works as per engineers instructions.	MR	20		
9.10	Supply and install White Vitreous China European type wall hung toilet complete with European made flush tank, fittings, chrome plated 13mm stop and valve side tap. Price to include concealed flush tank, water tap, mirror, towel hanger, paper towel hanger, soap dispenser, seat hard cover, water hose with flusher and all other fittings as per drawings and specifications. Connected to water and sewage	NO	2		
9.11	Supply and install White Vitreous China Wash Basin, size (40 * 56) cm complete with all fittings, valves, the price also includes the mixer ( Grohi or equivalent) and any other necessary parts as per drawings and specifications. Connected to sewage and water	NO	2		
9.12	Supply, install and commissioning of stainless steel single bowl kitchen sink, from approved quality. Complete with: chrome plated mixer for kitchen sinks, supports, waste outlet, tail piece, P-trap chrome plated, chrome plated 13mm pipe as per drawings and specifications. Including the mixer from Grohi or equivalent.	NO	1		
<b>Total Mechanical Works</b>					

Contractor Signature

K.H.

NO	Description	Unit	QTY	Unit Price	Total US\$
<b>10</b>	<b>Electrical Works</b>				
	Implementation of Electrical works should be according to the specifications and tender documents and in line with JDECO rules and regulations.				
10.1	Upgrade the existing Main Distribution Board to accommodate the new loads through supply, installation, labeling and testing the circuit breakers similar to Schneider, Moeller or equivalent approved. The works include all the required bus bars and their coupling unit, casing spaces for cables, cable clamps/terminals, cable shoes, protection equipment, electrical feeders and all necessary works according to JDECO standards. The price includes the upgrading fees and all essential works requested by JDECO.	JOB	1		
10.2	Electrical outlets				
	Supply, install, test and connect the following power outlets points similar to Legrand, Gewiss or equally approved, including cables, conduits, sockets, draw boxes, isolating switch, power cable to first point and all accessories up to DB as per drawings and specifications.				
10.2.1	3 pin Single-Phase 16 Amp sockets in walls or tables	NO	45		
10.2.2	Ditto, as (10.2.1) but double socket	NO	7		
10.2.3	Ditto, but weatherproof socket	NO	12		
10.2.4	Double weatherproof socket	NO	2		
10.2.5	Power point for electrical water heater	NO	3		
10.2.6	Data socket include CAT6 STP cable from socket to patch panel	NO	3		
10.2.7	SAT socket outlet 75 Ohm	NO	60		
10.3	Lighting points				
	Supply, install and connect lighting points including conduits, fire proof conduits and cables up to the DB, galvanized trunk, light switches, installation for all lighting fixtures, power cable to first point and all accessories as per drawings and specifications.	NO	27		
10.4	Lighting fixtures				
	Supply, install and connect the following lighting fixtures including P.F. correction capacitors, electronic ballasts, lamps and all accessories as per drawings and specifications.				
10.4.1	2X36W fluorescent lighting fixture surface mounted with Parabolic louver	NO	40		
10.4.2	2X36W fluorescent lighting fixture surface mounted with polycarbonate body and polycarbonate diffuser, IP-65.	NO	3		
10.4.3	2X18W waterproof globe with PL Lamp	NO	16		
10.4.4	1X3W LED with sheet steel housing	NO	5		
10.4.5	wall mounted exit light, maintained 1x8w fluorescent tube for a duration of 3hr. complete with control batteries and charger with steel body and polycarbonate cover, IP20.	NO	3		
10.5	Vedio System				
	Supply, install and test: 1- VHS PLAYER /RECORDER 2- DVD PLAYER / RECORDER 3- 3500 ANSI LUMEN LCD PROJECTOR WITH MANUAL ZOOM LENS 4- PROJECTOR LIFT SCISSOR TYPE 5- 2.74mX2.13m PROJECTION SCREEN 6-AUDIO / VEDIO SWITCHER WITH MULTI INPUTS & OUTPUTS 7- VISUALIZER & LIGHT BOX 8- WALL MOUNTED RGB INTERFACE WITH AUDIO & VEDIO OUTLET 9-VGA TO RGB INTERFACE 10- AMPLIFIER 11- COLOR MONITOR 12- CONTROL KEY BOARD	NO	1		

Contractor Signature

2.11.

NO	Description	Unit	QTY	Unit Price	Total US\$
10.6	<b>Fire Alarm System</b>				
	Supply , install , connect and commission addressable fire alarm system, including all required works, conduits, cables(fire proof 2*1.5mm2) , wires and fittings, according to drawings and specifications.				
10.6.1	fire alarm control panel 2 loops expandable with batteries and charger.	NO	1		
10.6.2	Analog addressable break glass unit including back box	No	4		
10.6.3	Analog addressable photo optical smoke detector	No	10		
10.6.4	Analog addressable heat detector	No	3		
10.6.5	Audio-Visual electronic fire strobe with addressable interface modular base.	No	4		
10.7	<b>Data Network Structure</b>				
10.7.1	Rack cabinet 12U with 2 fans and power strip 6outlet with surge protection and slides shelf	NO	1		
10.7.2	RJ45 Cat6 patch panel 24 port similar to 3M or equally approved	NO	4		
10.8	<b>IP-CCTV</b>				
10.8.1	fixed dome cam.650 TVL / 3-9 LENSE similar to Bosch or equally approved	NO	6		
10.8.2	DVR 8 CHANNEL -1 TERA STORAGE similar to Bosch or equally approved	NO	1		
10.9	<b>Earthing System</b>				
	Supply , install, test and commission earthing system for the building the price include rods, earth wires, earthing pits, inspection manholes 20*20*20cm loop earth cable, earth busbar and all accessories as shown on drawings and code of practice.	JOB	1		
	<b>Total Electrical Works</b>				

Contractor Signature

F.H.



**Summary**

Number	Description	Amount USD
1	Total Demolishing and Dismantling Works	
2	Concrete works	
3	Plastering works	
4	Tiling Works	
5	Carpentry	
6	Metallic Works and glass works	
7	Painting	
8	Roofing and waterproofing	
9	Mechanical Works	
10	Electrical Works	
	TOTAL	

Total in numbers .....

Total in letters .....

Name of the contractor .....

Authorized signature .....

Signature and Sealing.....

Title .....

Telephone.....

Fax .....

Mobile .....

K.A.