

KARAK TOURISM DEVELOPMENT SUB-PROJECT
THE TOURISM SECTOR DEVELOPMENT PROJECT

VOLUME III
BILL NO. 5 MUSEUM

TOURISM SECTOR DEVELOPMENT PROJECT
KARAK TOURISM DEVELOPMENT

KARAK CASTLE MUSEUM
BILL NO.5

Description of Work	Amount (Carry from Collection)
<u>SUMMARY</u>	
DIVISION-2 Site Works	
DIVISION-4 Masonry Works	
DIVISION-5 Metals	
DIVISION-8 Doors and Windows	
DIVISION-10 Specialties	
DIVISION-12 Furnishing	
DIVISION-16 Electrical	
To Grand Summary	

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 2 Site Work

Karak Castle Museum

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-2	Site Work				
2.1	Manually and carefully demolition dismantle and remove the following including making good to walls and floor to receive new finishings according to engineer's and DOA instructions and cart-away debris material outside the site to an approved area.				
a.	Demolition and remove stone walls.	M2	7		
b.	Dismantle doors 100-150x200 cm height.	No.	4		
c.	Dismantle windows 140x260 cm.	No.	2		
d	Demolished and remove floor stone tiles under showcase stone basis to fix the stone basis on natural floor 15-25cm width x 20cm depth approximately	LM	190		-
e.	Repair Crack (Provisional Sum)	LS	1	50,000.00	50,000.00
2.2	Imported selected aggregate base course material 10 cm thick placed under stone floors and steps.	M2	148		
2.2a	Protection of existing utilities and building (Provisional Sum)	LS	1	8,000.00	8,000.00
2.3	Removal of Debris from Archeological and other excavations to approved area by using Specialist Technical Staff and simple tools to execute the work under strict supervision of DOA and Instructions of the Engineer for the following:				
2.3a	Removal of Debris (Provisional Sum)	LS	1	11,900.00	11,900.00
To Summary					

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 4 Masonry

Karak Castle Museum

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-4	Masonry				
4.1	Ajloun first choice stone floor tiles with smooth surface. Size 40x40x4 cm thick and 40x20x4 cm thick.	M2	148		
4.2	Ajloun first choice stone steps with acid itched including mortar and pointing.				
a.	Size 33x25/10x260 cm length.	L.M	13		
b.	Size 30x15x260 cm length.	L.M	3		
To Summary					-

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 5 Metal

Karak Castle Museum

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-5	Metal				
5.1	<p>Galvanized steel trunk for electrical cabling comprised of the following and as shown on Detailed Drawing No. 3/KCM.A-008.</p> <ul style="list-style-type: none"> - 1.6 mm galvanized steel sheets. - galvanized steel angles 3x3x0.3 cm thick. - 2 parts polysulphide mastic sealant. - Karak stone tiles 3 cm thick with acid itched. - size 20 cm width x verified depth according to site conditions including all fixing accessories. <p>Price not include electrical cables. It shall be measured separately.</p>	L.M	194		
To Summary					-

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 8 Doors and Windows

Karak Castle Museum

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-8	Doors & Windows				
8.1	Complete steel tubes doors with frames, faced on both sides with 1.5 mm steel sheets including stiffeners, insulation of rock wool 40 mm thick and 60 kg/m ³ density, stove painting in 3 coats system, rubber sealing strips, continuous steel plates 6 cm x 3 mm thick with steel bolts welded to door leaves, steel tube handles 3x3 cm x 45 cm long, steel motif "Lions", and all fixing accessories as shown on Drawing No. KCM.A-007.				
a.	SD1 161x301 cm.	No.	1		
b.	SD2 85x199 cm.	No.	1		
8.2	Tempered glass door manually operated comprised of 15 mm Belgium clear tempered glass, 6 cm water jet engraved strip brushed glass, stainless steel bottom rail, Lion motif engraved, brushed stainless steel handles 3/4" diameter x 130 cm long, stainless steel hardware and accessories as shown on Detailed Drawing No. 1/KCM.A-008 and notes mentioned on the same Drawing. Size 155x304 cm.				
		No.	1		
8.3	Belgium clear tempered glass windows 12 mm thick including brushed stainless steel fittings and accessories as shown on Detailed Drawing No. 2/KCM.A-008.				
a.	PG2 110x224 cm.	No.	1		
b.	PG3 125x205 cm.	No.	1		
c.	PG4 15x110 cm.	No.	1		
8.4	Complete steel tubes door with protection steel flat and square bars, weight not less than 40 kg/m ² to be fixed in front of tempered glass elevation including stove painting, rubber sealing strips, prepainted steel tube handles, hardware, ironmongery and all fixing accessories as shown on Drawings. Size 155x304 cm.				
		No.	1		
To Summary					-

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 10 Specialties

Karak Castle Museum

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-10	Specialties (Exhibition Show Cases)				
	<p><u>Price includes necessary data and material collection, research and editing of software.</u></p> <p><u>Note:</u> Price shall not include electrical works, lighting, projectors, digital printing, flex panels in different materials and plastic models.</p>				
10.1	<p><u>Main Show Case</u> Comprised of Karak stone base acid intched 15 cm thick x 52 cm height.</p> <p>Beech wood louver door and frames, 12 mm clear tempered glass doors and elevations fixed with stainless steel U clamps, and brushed st. st. tubes 3x3 cm, wood shelves with velvet, brass hardware, knobs, hinges and locks 10x12 cm, brushed stainless steel plates operable roof 15 cm height, fiber optics, 1.5 mm s.s. cable with cable tensioner, stainless steel sheets.</p> <p>22 mm block board with velvet glued to it on pine wood frames 5x5 cm and all accessories as shown on Detailed Drawing No. (KCM.EX-003&004).</p> <p>Size 300x100x242 cm.</p>	No.	10		
10.2	<p><u>Coins Show Case</u></p> <p>Comprised of Karak stone base 120x120x78 cm with acid etched x 15 cm thick, 10 mm clear tempered glass fixed with stainless steel tubes 3x3 cm horizontally and vertically and wall mounted offset back st. st. plates, 18 mm block boards shelves with velvet fixed on pine wood joists 5x5 cm, beech wood operable door 40x52 cm including wood louvers, s.s. hinges and knobs with locks, painting, s.s. lock 10x12 cm and all accessories as shown on Detailed Drawing No. (KCM.EX-005&006).</p> <p>Size 120x120x140 cm.</p>	No.	3		
To Collection					-

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 10 Specialties

Karak Castle Museum

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
10.3	<p><u>Glass Panel</u> Comprised of 25 cm x 15 cm thick Karak stone base acid etched 300x60x52 cm height.</p> <p>Karak stone sills acid etched with chamfered edges 60x30x10 cm x 260 cm total length including all accessories as shown on Drawing No. (KCM.EX-007).</p> <p>a. Size 300x60x243 cm height.</p>	No.	7		
10.4	<p><u>Telescopic Window</u> Comprised of Karak stone base 10-20 cm thick x 50 cm height acid etched, Ajloun stone dry fix cladding with acid etched, steel structural sections IPE 140 frames, T sections, plates, angles, galv. Screws with stove painting.</p> <p>Karak stone sills acid etched 5 cm thick x 20-40 cm width fixed on stone base, Ajloun stone arch acid etched, Ajloun stone copings 5 cm thick acid etched, 6 mm plywood painted offwhite with soft wood joists 3x3 cm, and all accessories as shown on Detailed Drawing No. (KCM.EX-008).</p> <p>Size 240x100x257 cm height.</p>	No.	1		
10.5	<p><u>Exhibition of the Human Bone</u></p> <p>Comprised of Karak stone pieces for the base 20 cm thick x 25 cm height with acid etched, steel structural sections for frames IPE 200-400, UPN 100-140, angles, plates, tubes, galv. Screws and anchor bolts including welding, stove painting, galv. steel wires and bars, galv. steel chequered plates 3 mm thick, Karak stone elevations (frames) acid etched 25 cm coarse stone including all special stone pieces. and lintels 50x30x30 cm dry fixing to steel structure, 12 mm plywood boards both sides fixed on pinewood frames 5x5 cm painted offwhite from outside and black colour from inside, sand layer, tempered glass 10 mm thick elevation including s.s. accessories 200x183 cm, operable panel 105x234 cm and all accessories as showsn on Detailed Drawing No. (KCM.EX-009).</p> <p>Size 400x290x284 cm height.</p>	No.	1		
To Collection					-

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 10 Specialties

Karak Castle Museum

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
10.6	<p><u>Trade Map</u> Comprised of Karak stone base 15 cm thick x 25 cm height acid etched, stove painted steel structural elements, Ajloun and Karak stone cladding acid etched 5 cm thick and 25 cm coarse mechanical dry fixing on steel, Karak stone coping acid etched 90x30x5 cm thick 2 Nos. Karak stone tiling edging with acid etched 5 cm thick</p> <p>St.St. board with knobs for lights 110x33 cm fixed on stone facing, upper s.s. sheet cover, stainless steel sheeting fixed on structural steel sections and all accessories as shown on Detailed Drawing No. (KCM.EX-010).</p> <p>Size 240x90x204 cm height. 100x30x76 cm height. 100x25 cm stone tiling area.</p>	No.	1		
10.7	<p><u>Karak Castle Model</u> Comprised of Karak stone base 20 cm thick x 25 cm height with acid etched, Karak and Ajloun stone facing 5 cm thick x 25 cm coarse stone, 5x10 cm pine wood sub frames horizontally and vertically, 22 mm block boards wood shelves enamel matt painted, st. st. board with knobs for lights indicating crusaders paths and history, st. st. sheets, s.s. bottom section, and all accessories as shown on Detailed Drawing No. (KCM.EX-011).</p> <p>Size 400x250x204cm height.</p>	No.	1		
To Collection					-

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 10 Specialties

Karak Castle Museum

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
10.8	<p><u>Reception Counter and T.V. Stand</u> Comprised of steel structural sections IPE 140, UPN 100, tubes, plates anchors, screws, angles 6x6x0.6 cm including welding and stove painting.</p> <p>Karak stone cladding elevations 5 cm thick with acid etched mechanical dry fixing on steel structural elements including special stone pieces, rebates and stock for fixing, wood partition 6 cm thick of plywood 5 mm thick both sides fixed on pinewood battens 5x5 cm and frames 10x5 cm, access tempered glass door 10 mm thick, cylindrical lock, s.s. handles and enamel painting matt to match existing stone colour.</p> <p><u>Reception Counter</u> Karak stone pieces with acid etched for front curved elevation 105 cm height x 20 cm thick x 25 cm coarse stone with grooves. Wood counter 50x70 cm height made of 18-22 mm block boards with oak veneer both sides and lacquer painted, oak wood lipping 2x5 cm and 2x2 cm, pinewood frames 2.5x5 cm with lacquer painted, 15 mm tempered glass topping 40 cm width, tempered glass suspended ceiling including suspension system.</p> <p><u>T.V. Stand</u> Comprised of stove painted steel tubes 3x3 cm, and steel angles including welding, galv. Screws, 1.6 mm galv. steel sheets, void for T.V. 36x40 cm and all accessories as shown on Detailed Drawing No. (KCM.EX-012&013).</p> <p>a. Size for reception room 400x180.50x256 cm.</p> <p>b. Size for reception counter 630x80x105 cm height extreme dimensions.</p> <p>c. Size for T.V. stand 100x69x78 cm +100x29x178 cm.</p>				
	To Collection				-

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 10 Specialties

Karak Castle Museum

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.																																																																		
10.9	<p><u>Exhibition Panels</u></p> <p>Complete digital system comprised of flex panels, resolution 300 Dot./inch, heat resistance, water repellent, ultra violet ray resistance and fixed colours.</p> <p>Flex panels shall be fixed between double tempered glazing 10+10 mm thick or glued on single tempered glass 10 mm thick, or on 6 mm Mazonite Boards and other materials.</p> <p>Price includes double or single glazing, mozonite boards backing, and all accessories according to manufacturer specifications, Engineer and DOA instructions as shown on Drawing No. KCM-EX-014.</p> <table border="0"> <tr> <td></td> <td><u>Size</u></td> <td><u>Material of Panel</u></td> <td></td> <td></td> <td></td> </tr> <tr> <td>a.</td> <td>260x150 cm</td> <td>Flex</td> <td>No.</td> <td>1</td> <td></td> </tr> <tr> <td>b.</td> <td>260x150 cm</td> <td>Flex</td> <td>No.</td> <td>3</td> <td></td> </tr> <tr> <td>c.</td> <td>260x150 cm</td> <td>Flex</td> <td>No.</td> <td>1</td> <td></td> </tr> <tr> <td>d.</td> <td>260x150 cm</td> <td>Flex</td> <td>No.</td> <td>1</td> <td></td> </tr> <tr> <td>e.</td> <td>160x190 cm</td> <td>Flex</td> <td>No.</td> <td>1</td> <td></td> </tr> <tr> <td>f.</td> <td>260x150 cm</td> <td>Flex</td> <td>No.</td> <td>1</td> <td></td> </tr> <tr> <td>g.</td> <td>80x140 cm</td> <td>Flex</td> <td>No.</td> <td>7</td> <td></td> </tr> <tr> <td>h.</td> <td>80x60 cm</td> <td>Flex</td> <td>No.</td> <td>10</td> <td></td> </tr> <tr> <td>i.</td> <td>180x183 cm</td> <td>Stainless steel</td> <td>No.</td> <td>1</td> <td></td> </tr> <tr> <td>j.</td> <td>100x256 cm</td> <td>Flex (removable)</td> <td>No.</td> <td>1</td> <td></td> </tr> </table>		<u>Size</u>	<u>Material of Panel</u>				a.	260x150 cm	Flex	No.	1		b.	260x150 cm	Flex	No.	3		c.	260x150 cm	Flex	No.	1		d.	260x150 cm	Flex	No.	1		e.	160x190 cm	Flex	No.	1		f.	260x150 cm	Flex	No.	1		g.	80x140 cm	Flex	No.	7		h.	80x60 cm	Flex	No.	10		i.	180x183 cm	Stainless steel	No.	1		j.	100x256 cm	Flex (removable)	No.	1					
	<u>Size</u>	<u>Material of Panel</u>																																																																					
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i.	180x183 cm	Stainless steel	No.	1																																																																			
j.	100x256 cm	Flex (removable)	No.	1																																																																			
10.10	Ditto. but sublimation system printing and made of silver colour anodized aluminum sheet 1 mm thick size 10x6 cm.	No.	100																																																																				
10.11	<u>Plastic Models and Maps</u>																																																																						
a.	Plastic Trade Map Model of Karak with light inserted in it to indicate trade history in Karak including all fixing accessories as shown on Drawing No. KCM.EX-015. Size 180x165 cm. (Provisional sum)	L.S	1	30,000.00	30,000.00																																																																		
b.	Plastic model of Karak Castle Size 370x220 cm. (Provisional sum)	L.S	1	70,000.00	70,000.00																																																																		
To Collection																																																																							

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 10 Specialties

Karak Castle Museum

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
10.12	Museum equipment as shown on Drawing No. KCM.EX-016 and according to Engineer's Instructions.				
a.	Stage type made of plywood, hardwood framing and cloth covering. Size 90x90x30 cm.	No.	10		
b.	Inclined stage made of plywood, hardwood framing and cloth covering. Size 90x90x5/30 cm.	No.	10		
c.	Stainless steel spandrail type A.	No.	40		
d.	Stove painted spandrail type B.	No.	10		
e.	Perforated steel stove painted board 45x60x0.15 cm thick.	No.	10		
f.	Acrylic stage made of Acrylic boards 5 mm thick. Size 20x10x3 cm.	No.	10		
g.	Acrylic box made of acrylic and coloured boards 5 mm thick. Size 30x15x8 cm.	No.	10		
h.	Acrylic box type B, 5 mm thick. Size 5x5x5 cm.	No.	10		
10.12a.	Histry of Karak Castle Audio Visual Set <1set> H-1 LCD Projector (1set) H-2 Projector Lamp (2sets) H-3 Pedestal for Projector (1set) H-4 100inch Flat Screen with Stand (1set) H-5 DVD Player (1set) H-6 Powered Mixer (1set) H-7 Speaker (1set) H-8 Tripod for Speaker System (2sets) H-9 Connecting Cable (1lot) H-10 Installation Material (1lot)	LS	1		
10.12.b.	Software:Introduction of the History Duration:15minutes Naration with, Music with Newly production and editing of existing Software (Provisional Sum)	LS	1	22,500.00	22,500.00
To Collection					

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 10 Specialties

Karak Castle Museum

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<u>COLLECTION</u>				
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To Summary					-

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 12 Furnishings

Karak Castle Museum

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-12	Furnishings				
12.1	<u>Office Desk</u> Comprised of 2x2 cm solid steel tubes frames and legs oil painted, 1x2 cm steel plate painted silver, steel lion motif, 15 mm tempered glass with chamfered edges 2 cm wide, welding and all fixing accessories as shown on Detailed Drawing No. 1/KCM.A-009. Size 150x70x71.50 cm.	No.	2		
12.2	<u>Office Chair</u> Comprised of 2x2 cm stove painted steel tubes, 2x1 cm steel plate, steel motif, removable fabric upholstery with Dunlop backing and plywood 6 mm, 3x3x2 cm steel angle welded to steel tubes and all accessories as shown on Detailed Drawing No. 2/KCM.A-009). Size 50x45x90 cm.	No.	2		
12.3	<u>Drawers unit for Desks</u> Comprised of 16 mm block board with laminate coloured offwhite from one side and laquer painted from other side, 4 mm plywood with 1 mm laminate for bottom of drawers, wheel of the best quality, stainless steel hardware and ironmongery as shown on Detailed Drawing No. 3/KCM.A-009. Size 45x45x56 cm.	No.	2		
12.4	<u>Steel Bench</u> Comprised of ablong staggered hole pattern constructed of 14 gauge galvanized steel, 1/2" (16) gauge hot rolled galvanized tubing with zinc chromate finish. Steel shall be phosphate washed to ensure fusion with the final finish, all metal shall be finished with electrostatically applied polyester powder coating, as shown on Detailed Drawing No. 4/KCM.A-009. Size 200x50x43 cm.	No.	5		
To Collection					-

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 12 Furnishings

Karak Castle Museum

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
12.5	Window curtains comprised of cotton fabric 100% and brass curtain tracks with two stop ends, brackets, and all fixing accessories according to engineer's instructions.	M2	9		
To Collection					-

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 12 Furnishings

Karak Castle Museum

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<u>COLLECTION</u>				
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To Summary					-

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 16 Electrical Works

Karak Castle Museum

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-16	Electrical Works				
16.1	S&I The following distribution board:				
a.	DBA.	No.	1		-
16.2	S&I Feeding cable to DBA 5x16 mm ² CU/PVC/SWA/PVC.	L.M	85		-
16.03	S&I Lighting point.	No.	43		-
16.4	S&I				
a.	13A socket outlet surface mounted.	No.	27		-
b.	Ditto. but surface mounted in trench for show cases lighting.	No.	15		-
c.	Ditto. but for floor up lighter stand.	No.	24		-
16.5	S&I The following lighting fittings:				
a.	S1.	No.	19		-
b.	H1.	No.	9		-
c.	H2.	No.	23		-
d.	H3.	No.	6		-
e.	H4.	No.	3		-
f.	I1.	No.	2		-
g.	F1.	No.	3		-
h.	F2.	No.	2		-
16.6	S&I The following fibre optics:				
a.	Package consists of two Generators 75w metal halide (see dwg. KCM-EXE-003).	Set	10		-
b.	Package consists of one Generator 75w metal halide (see dwg. KCM-EX-005).	Set	3		-
16.7	S&I				
a.	Fire alarm control panel conventional type (2 zones).	No.	1		-
b.	Transmitter and receiver beam detectors.	No.	2		-
To Collection					-

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 16 Electrical Works

Karak Castle Museum

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	c. Fire alarm point.	No.	6		-
	d. Break glass.	No.	1		-
	e. 6" alarm bell.	No.	1		-
16.8	S&I				
	a. One zone security panel.	No.	1		-
	b. Infra red motion detector.	No.	1		-
	c. Outdoor flash beacon with sounder.	No.	1		-
To Collection					-

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 16 Electrical Works

Karak Castle Museum

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<u>COLLECTION</u>				
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KARAK TOURISM DEVELOPMENT SUB-PROJECT
THE TOURISM SECTOR DEVELOPMENT PROJECT

VOLUME III

BILL NO. 6 KARAK PATHWAYS

TOURISM SECTOR DEVELOPMENT PROJECT
 SUB-PROJECT: KARAK CASTLE PATHWAY

SUMMARY SHEET

Description of Work	Amount (Carry from Collection)
<u>SUMMARY</u>	
DIVISION-2 Site Works	-
DIVISION-16 Electrical	-
To General Summary	

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 2 Site Work

Karak Castle Pathway

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-2	Site Work				
2.1	<u>Site Clearing</u>				
2.1.1	Carefully demolition or excavation in fill or of existing ancient structures by using Specialist Technical Staff and simple tools to execute the work under strict supervision of DOA and Instructions of the Engineer for the following:				
	a. Front plaza outside of the Museum comprised of concrete finish and gravel backfill.	M3	150		
	b. Roof screed of view terrace.	M3	85		
	c. Skylight at roof of view terrace and Museum.	No.	8		
	d. Stepped water channel including concrete works and earth leveling according to proposed levels as shown on Drawing No. KCP.A-016. Width 120-220 cm approx.	L.M	106		
	e. Stair Entrance of the Museum.	Item	1		
	f. External stairs outside museum as shown on Drawing No. KCP.A-004.	L.M	18		
	g. Last stone course of the Museum as shown on Drawing No. KCP.A-004.	L.M	15		
	h. Site leveling and consolidation to existing earth behind retaining walls at Museum plaza according to proposed levels and as shown on Drawing No. KCP.A-015 and Detail No. 18/KCP.A-038.	M2	130		
2.1.2	Removal of Debris from Archeological and other excavations to approved area by using Specialist Technical Staff and simple tools to execute the work under strict supervision of DOA and Instructions of the Engineer for the following:				
2.1.2.a	Removal of Debris (Provisional Sum)	LS	1	7,000.00	7,000.00
To Collection					

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 2 Site Work

Karak Castle Pathway

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
a.	Stone tiling and backfill under stone floor upto the rock bed for the hall beside Museum.	M3	200		
b.	Front plaza outside of the Museum comprised of concrete finish and gravel backfill.	M3	150		
c.	Front plaza outside of the Museum stepped area.	M3	280		
d.	Roof of the Museum hall.	M3	300		
e.	Lower level pathway part 1 as shown on Drawing No. KCP.A-007.	M3	300		
f.	Lower level pathway part 2 as shown on Drawing No. KCP.A-008.	M3	30		
g.	Upper level part 1 as shown on Drawing No. KCP.A-010.	M3	140		
h.	Remove stone retaining wall as shown on Drawing No. KCP.A-010.	M2	4		
i.	View terrace roof.	M3	85		
j.	New Exit to the bridge including stairs.	M3	50		
k.	Stepped water channel including concrete and backfill.	L.M	106		
2.1.3 a.	Supporting and strutting of existing retaining wall before excavation as shown on Drawing No. KCP.A-004.	M2	75		
b.	Ditto. but for wall at upper level part 2 as shown on Drawing No. KCP.A-011.	M2	40		
c.	Dismantle and reinstall existing signage as shown on Drawing No. KCP.A-022.	No.	1		
To Collection					

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 2 Site Work

Karak Castle Pathway

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.1.4	Implementation to existing constructions after demolition or archeological excavations by Professional Staff that will be appointed by DOA and under strict supervision of DOA and Engineer. Inside and outside the Museum				
a.	Removal of cement or concrete additions front elevation of Museum.	M2	400		
b.	Documentation of facade before and after intervention.	Item	1		
c.	Closing of openings by appropriate stone pieces to be determined by DOA.	M2	5		
d.	Repointing of front elevation by special mortar.	M2	20		
e.	Examination and testing the original mortar to determine matching mortar.	Item	1		
f.	Repointing of barrel vault and internal walls	M2	760		
g.	Cleaning of stone manually using appropriate brushes.	M2	220		
h.	Replacement of small stone pieces where necessary not exceeding 15x15x15 cm approx and to be determined by DOA	No.	50		
i.	Removal and replace of stone course at top level of front facade Museum Building of new stone course appropriate size and source after approval of (DOA), using special matching mortar to original.	L.M	16		
	Note: for other special works it shall be under provisional sum.				
2.2	<u>Stepped Water Channel</u>				
2.2.1	Imported selected aggregate base course material 15 cm thick placed under slabs on grade of water channel.	M2	135		
2.2.2	Imported selected single size aggregate fill under box water channel.	M3	49		
To Collection					

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 2 Site Work

Karak Castle Pathway

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.2.3	Cast in place plain concrete (C15) 15 N/mm ² at 28 days compressive strength with ordinary Portland cement including all necessary formwork. 5-10 cm thick for blinding and concrete screed.	M3	11		
2.2.4	Cast in place reinforced concrete (C25) 25 N/mm ² at 28 days compressive strength with ordinary Portland cement including all necessary formwork. For floors, slabs, walls and gutter of water channel 15-40 cm thick.	M3	80		
2.2.5	Separation layer under slabs on grade comprising two layers 500 micron thick polyethylene sheets including over-lapping and taping of joints.	M2	240		
2.2.6	Water proof membrane 4 mm thick, single ply, torch applied including overlaps, prime coat, and guarantee 5 years.	M2	285		
2.2.7	Deformed high yield steel bar reinforcement of characteristic strength FY=420 N/mm ² , including, hooks, tying wires, distance block and spacers	Ton	6		
2.2.8	UPVC. weep holes 100 mm diameter x 30 cm length staggered each 200 cm horizontally and 150 cm vertically including aggregate filter.	No.	10		
2.2.9	UPVC. storm water pipe 300 mm diameter at the end of water channel including excavation, backfilling and strainer.	L.M	17		
2.2.10	Sealant between water channel and existing structures.	L.M	215		
2.2.11	Galvanized steel cover to gutter at the end of channel including all fixing accessories as shown on Detailed Drawing No. 14/KCP.A-037. Size 90x50 cm.	No.	1		
To Collection					

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 2 Site Work

Karak Castle Pathway

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.2.12	Water proof coating for internal surfaces of gutter.	M2	4		
2.2.13	Travertine yellow stone from Jordan Valley or equivalent dressed rough-chiseled (Taltish) for walls cladding and saw cut for floor of water channel 4 cm thick including cement mortar and flush pointing without any extra over (Allowance) for special stone pieces.	M2	290		
2.2.14	Travertine Jordan Valley stone copings or equivalent dressed rough-chiseled (Taltish) including cement mortar and pointing.				
	a. 45x6 cm thick.	L.M	113		
	b. 30x6 cm thick.	L.M	113		
2.3	<u>Terrace Overlooking</u>				
2.3.1	Renovation to existing skylights comprising Travertine stone cladding 5 cm thick dressed rough-chiseled (Taltish) with concrete backing 70 cm thick, skylight glass blocks 20x20x8 cm including mortar, pointing and all fixing accessories as shown Overall size 220x220x85 cm height.	No.	2		
2.3.2	Terrace roofing system as shown on Detailed Drawing No. 24/KCP.A-039 comprising of the following:				
	a. Sandfill 5-10 cm thick.	M2	187		
	b. Polyethylene sheets two layers 500 micron total thickness including overlapping and taping of joints.	M2	187		
	c. 5-15 cm thick light weight foam concrete of density 450 kg/m ³ .	M2	187		
	d. Water proof membrane 4 mm thick, single ply, torch applied including overlaps, prime coat, haunches and guarantee 5 years.	M2	187		
	e. 8 cm crushed wadi gravel (desert yellow) 25 mm with stabilizer.	M2	187		
To Collection					

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Division 2 Site Work

Karak Castle Pathway

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.3.3	Travertine stone edging 10x10 cm dressed rough-chiseled (Taltish) including mortar, pointing and sealant between existing parapet and new roofing system.	L.M	56		
2.3.4	Handrail for terrace overall height 90 cm from roof finish level, comprised of 5x10 cm hardwood (sekkeh) vertically supports each 240 cm. Painted with polyurethane paint, oil painted horizontally steel tubes 2x4 x0.3 cm in 2 courses and vertically each 240 cm, oil painted steel angles, plates, anchors and all fixing accessories as shown on Detailed Drawing No. 22/KCP.A-039.	L.M	58		
2.3.5	External staircase and handrail comprised of steel structural works, steel tubes handrail 90 cm height, hardwood (sekkeh) treads and landings including welding, dowels, anchor bolts, reinforced concrete foundation 120x30x40 cm and all fixing accessories as shown on Detailed Drawing No. KCP.A-040 & 018. 120 cm width.	L.M	11.5		
2.4	<u>Lower, Upper and Museum Level Pathways</u>				
2.4.1	Separation layer comprising of one layer fabric Mat Slope Protection, including overlapping at joints, warranty and support up to 3 years after installation and all fixing accessories according to manufacturer instructions and specifications.	M2	700		
2.4.2	Aluminum edging angles 10x10 cm including all fixing accessories as shown on Detailed Drawing No. 5/KCP.A-035.	L.M	1620		
2.4.3	20x10 cm thick hardwood (sekkeh) boards for slopes more than 5% anchored with galvanized steel driven with stakes as shown on Detailed Drawing No. 6/KCP.A-035.	L.M	120		
To Collection					

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Division 2 Site Work

Karak Castle Pathway

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.4.4	Desert yellow crushed wadi gravel (15-25) mm, 10 cm thick for the lower level pathway.	M2	700		
2.4.5	Crushed wadi gravel (15-25 mm) desert yellow 8 cm thick with stabilizer according to specifications				
	a. for the upper pathways.	M2	1030		
	b. for Museum level.	M2	1420		
2.4.6	Aggregate base course 10 cm thick for the upper and Museum level.	M2	2450		
2.4.7	Ajloun with acid itched stone stairs for upper level including cement mortar 5 cm thick and pointing as shown on Detailed Drawing No. 2/KCP.A-033 and 17/KCP.A-038.				
	a. Size 30 cm x 15/30 cm thick with rounded edges.	L.M	126		
	b. Size 30/40x20 cm thick with chamfered edges.	L.M	38		
2.4.8	Ditto. but for stone edges to slope protection 20 cm thick x variable height, 25-50 cm as shown on Detailed Drawing No. 31/KCP.A-041.	L.M	37		
2.4.9	Ajloun with acid itched stone stairs for upper pathway as shown on Detailed Drawing No. 1/KCP.A-033 and Detail No. 30/KCP.A-041.				
	a. Size 20x35 cm height.	L.M	73		
	b. Ditto. but stone edges for slope protection 20x25-50 cm height.	L.M	38		
2.4.10	Steel stairs as shown on Detailed Drawing No. KCP-A.034 comprised of the following:				
	a. Reinforced concrete footings Class (25) and portions columns including high tensile steel bars $FY = 420 \text{ N/mm}^2$, concrete blinding 5 cm thick, excavation, backfill and anchor bolts. Size of footing 40x40x25 cm. Size of portion column 30x30x40 cm.	No.	18		
To Collection					

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Division 2 Site Work

Karak Castle Pathway

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
b.	Steel structural works, UBN 240, IPE 200, plates 5 mm thick, angles, 2M10 bolts, welding, Epoxy painting and all fixing accessories.	Ton	1.50		
c.	Galvanized steel grating 25x25x3 mm thick.	M2	36		
d.	Hardwood (sekkeh) treads 150x27.5x5 cm thick.	No.	26		
e.	Steel tubes handrail 50x30 mm and 50x25 mm vertically and horizontally including welding, oil painting in 3 coats system, and all fixing accessories. Overall height 90 cm.	L.M	65		
2.5	<u>Museum Level</u> Note: It is the responsibility to check the existing structures and retaining walls before any excavation work.				
2.5.1	Excavation in any kind of soil, rock etc., starting at reduced level down to bottom of blinding including compacting backfill of selected material around foundations, walls and removal of surplus material from site to an approved area. For foundations of retaining walls.	M3	25		
2.5.2	Plain concrete (C15), 15 N/mm ² at 28 days compressive strength with ordinary Portland cement	M3	3		
2.5.3	Reinforced concrete (C25), 25 N/mm ² at 28 days compressive strength with ordinary Portland cement				
a.	Foundations and footings.	M3	12		
b.	Walls 20-35 cm thick.	M3	20		
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Division 2 Site Work

Karak Castle Pathway

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.5.4	Deformed high yield steel bar reinforcement of characteristics strength $FY = 420 \text{ N/mm}^2$, including hooks, tying wires, distance block and spacers.	Ton	2		
2.5.5a.	Travertine desert yellow stone cladding or equivalent 5 cm thick dressed rough-chiseled (Taltish), traditional fixing including mortar, backing mortar and pointing to match stone color.	M2	40		
b.	Ditto. but black Karak stone cladding dressed rough Matabbeh.	M2	66		
2.5.6a.	Travertine desert yellow stone copings or equivalent 6 cm thick x 45 cm width including cement mortar and pointing as shown on Detailed Drawing No. 18/KCP.A-038.	L.M	12		
b.	Ditto. but black Karak stone copings 6 cm thick x 40 cm width.	L.M	22		
2.5.7	Travertine desert yellow stone drainage water channels one piece cut stone dressed rough Matabbeh 240x40x30 cm thick including galvanized steel drain 130x20x0.2 cm thick and all fixing accessories as shown on Detailed Drawing No. 16/KCP.A-037.	No.	3		
2.5.8	Travertine desert yellow stone edging or equivalent 30x20 cm thick including cement mortar and pointing as shown on Detailed Drawing No. 18/KCP.A-038.	L.M	90		
2.5.9	Separation layer Polyethylene sheets two layers 500 micron total thickness including overlapping and taping of joints.	M2	1400		
2.5.10	Black Karak stone seats dressed rough Matabbeh including mortar and pointing as shown on Detailed Drawing No. 19/KCP.A-038. Overall size 100x100x30 cm.	No.	2		
To Collection					

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 2 Site Work

Karak Castle Pathway

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.5.11	Sealant between stone edging and existing walls. 20 cm wide.	L.M	75		
2.5.12	UPVC. weep holes 100 mm diameter 45 cm length.	No.	6		
2.5.13	Bituminous water proof membrane 4 mm thick, single ply, torch applied including overlaps, prime coat, and guarantee 5 years.	M2	920		
2.5.14	5-15 cm thick light weight foam concrete of density 450 kg/m ³ including cement screed protection 3 cm thick. For Museum Roof.	M2	920		
2.5.15	Benches made of hardwood (sekkeh) 20x20 cm for seat and back fixed on steel frames 5x3/5 cm including oil paint in 3 coats system for steel frames, polyurethane paint for hardwood, bolts and all fixing accessories as shown on Drawing No. 32/KCP.A-041. Size 160x62x45 cm height.	No.	3		
2.5.16	Outdoor Handrails comprised of concrete foundations Class (20) size 30x30x30 cm and 20x15x30 cm with separation layer polyethylene sheets each 120 cm c/c, hardwood columns (sekkeh) 20x10x90 cm height each 240 cm c/c, steel tubes 4x2x0.3 cm thick horizontally 2 courses and vertically each 240 cm c/c including steel plates, angles, anchor bolts, galvanized screws, welding, oil painting in 3 coats system for steel works, polyurethane paint in 3 coats system and all fixing accessories as shown on Detailed Drawing No. KCP.A-042.	L.M	70		
To Collection					

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 2 Site Work

Karak Castle Pathway

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<u>COLLECTION</u>				
	Page (D2/1)				
	Page (D2/2)				
	Page (D2/3)				
	Page (D2/4)				
	Page (D2/5)				
	Page (D2/6)				
	Page (D2/7)				
	Page (D2/8)				
	Page (D2/9)				
	Page (D2/10)				
To Summary					

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 16 Electrical Works

Karak Castle Pathway

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-16	Site Work				
16.1	S&I The following distribution boards:				
	a. SPEL.	No.	1		-
	b. DBA.	No.	1		-
	c. DBB.	No.	1		-
	d. DBC.	No.	1		-
	e. DBD.	No.	1		-
16.2	S&I The following main distribution board:				
	a. MDB.	No.	1		-
16.3	S&I Earthing system for MDB.	L.S.	1		-
16.4	S&I External lighting point.	No.	55		-
16.5	S&I The following lighting fittings:				
	a. H1.	No.	36		-
	b. F1.	No.	19		-
16.6	S&I Main feeding cable to MDB 4x25+1x16 mm ² CU/PVC/SWA/PVC.	L.M	50		-
To Summary					-