

## **CONSTRUCTION COST**

## **GENERAL SUMMARY**

TOURISM SECTOR DEVELOPMENT PROJECT		
SUB-PROJECT: KARAK TOURISM DEVELOPMENT		
GENERAL SUMMARY SHEET		
Item	Description of Work	Amount (JD)
<u>GENERAL SUMMARY</u>		
PRLIMINARIES		
1	BILL NO. 1 TOURIST STREET	
2	BILL NO. 2 LOWER OBSERVATION POINT	
3	BILL NO. 3 UPPER OBSERVATION POINT	
4	BILL NO. 4 VISITOR CENTRE	
5	BILL NO. 5 KARAK CASTLE MUSEUM	
6	BILL NO. 6 KARAK CASTLE PATHWAY	
PROFIT		
<b>Total (Carry to Form of Tender)</b>		-

**KARAK TOURISM DEVELOPMENT SUB-PROJECT**  
**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**VOLUME III**

**BILL NO. 1 TOURIST STREET WORKS**

TOURISM SECTOR DEVELOPMENT PROJECT  
KARAK TOURISM DEVELOPMENT

TOURIST STREET  
BILL NO.1

Description of Work	Amount (Carry from Collection)
<u>SUMMARY</u>	
DIVISION-2    Site Works	
DIVISION-15    Mechanical	
DIVISION-16    Electrical	
To Grand Summary	

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 2 Site Work

### Tourist Street

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-2	Site Construction				
	Site Clearing				
2.1	Demolition and removal of surplus materials from site to an approved area according to section 02230 Specifications and as instructed by the Engineer.				
	a. for existing sidewalks and curbs up to the road bed levels.	M2	4250		-
	b. for existing asphalt roads and pavement up to the road bed levels.	M2	3600		-
2.2	Demolition and removal of existing exterior boundary walls as shown on Drawing No. TS.A-001.	L.M	30		-
2.3	Demolition and removal existing shulter behind existing boundry wall.	Item	1		-
2.4	Cut and remove existing trees.	No.	11		-
2.5	Dismantle and removal existing exterior shops thresholds 127 m total length approx.	No.	50		-
2.6	Relocate Salah Edden statu and refix on the New proposed location including demolish and remove structural foundation.	No.	1		-
2.7	Subgrade layers (Topping) 20 cm thick CBR $\geq$ 20 where required according to section 2.07 specifications for highway and bridge construction.	M3	900		-
2.8	Crusherun subbase course CBR $\geq$ 80 15 cm thick under sidewalks and curb stone according to section 3.02 specifications for highway and bridge construction.	M3	700		-
2.9	Aggregate base course 20 cm thick according to section 3.03 specifications for highway and bridge construction under roads.	M3	720		-
2.9a	Pedestrian traffic allowance (Provisional Sum)	LS	1	3,000.00	3,000.00
<b>To Collection</b>					

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 2 Site Work

### Tourist Street

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.10	Bituminous tack coat according to section 4.02 specifications for highway and bridge construction under stone pavement for roads.	Ton	6		-
2.11	Bituminous concrete wearing course 5 cm compacted thickness according to section 4.05 specifications for highway and bridge construction.	M2	1120		-
2.12	Ma'an "Jazirah" first choice white stone paving for sidewalks dressed rough Matabbeh, 40-50 cm length x 20 cm width x 4 cm thick including dry mortar 3 cm thick and pointing for joints 0.5 cm as shown on Detailed Drawing No. 1&2/TS.A-017.	M2	4250		-
2.13	Karak or ALAZRAQ Basalt stone paving for roads dressed rough Matabbeh, jointless, 40-60 cm length x 30 cm width x 7 cm minimum thick including wadi sand 5 cm and filling any seen joints after compaction by mortared sand as shown on Detailed Drawing No. 1&2/TS.A-017.	M2	3600		-
2.14	Ma'an Jazirah first choice stone curb dressed rough Matabbeh 12/15x50x30 cm height set vertically or horizontally including cement mortar 3 cm and pointing as shown on Detailed Drawing No. 1, 2&3/TS.A-017.	L.M	1340		-
2.15	Ditto. as in Item 2.13 around trees as shown on Detailed Drawing No. 4/TS.A-017 including concrete base and backing.				
a.	Size 15x20x50 cm with rebate 5x6 cm.	L.M	80		-
b.	Size 15x10x50 cm between proposed and existing paving as shown on Detailed Drawing No. 11/TS.A-019.	L.M	45		-
2.16	Ditto. as in Item 2.13 but with rounded edges for handicapped 15x30x50 cm.	L.M	130		-
<b>To Collection</b>					

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 2 Site Work

### Tourist Street

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.17	Ma'an Jazirah first choice white stone thresholds dressed smooth Matabbeh for shops. 35x3 cm thick with half rounded edges including cement mortar and pointing as shown on Detailed Drawing No. 7/TS.A-018.	L.M	140		-
2.18	Ma'an Jazirah first choice stone steps dressed smooth Matabbeh including cement mortar and pointing as shown on Detailed Drawing No. 8/TS.A-018, 9/TS.A-019, 20/TS.A-021 and 21/TS.A-022. Size 30 cm width x variable height 10-21.15 cm.	L.M	160		-
2.19	Karak or ALAZRAQ Basalt stone curb 10x20x30 cm including cement mortar 3 cm and pointing as shown on Detailed Drawing No. 6/TS.A-018.	L.M	138		-
2.20	Ma'an Sateh cast stone planter box including Motif stone pieces 4 Nos. with engraving 30x15x5 cm thick fixed to planter by four hidden galvanized screws, fairface concrete backing and drain as shown on Detailed Drawing No. 4/TS.L-005.  Overall size 80x80x80 cm and 10 cm thick.	No.	35		-
2.21	Outdoor stone seats comprised of Basalt stone cladding 35 x 18.75 x 5 cm thick dressed smooth matabbeh and 3 cm thick for topping with chamfered edges 3x3 cm placed on cement mortar 2 cm. Including concrete base and backing Class 20, making recess for lighting, pointing and all fixing accessories as shown on Detailed Drawing No. 5/TS.L-006. Overall size 160x45x55 cm height.	No.	16		-
<b>To Collection</b>					

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 2 Site Work**

**Tourist Street**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.22	<p>Complete statu comprised of Basalt stone tiles dressed rough Matabbeh 20x4 cm thick, Ma'an Sateh stone steps dressed rough Matabbeh 45 x 3 cm thick for treads and 17.-52 cm height x 2 cm thick for risers, Ma'an Sateh stone tiles and wall cladding 4 cm thick dressed rough Matabbeh including excavation, backfill, concrete blinding 5 cm, reinforced concrete Class 25 for steps, walls and foundation, steel reinforcement bars high tensile <math>F_y = 420 \text{ N/mm}^2</math> compacted base course 15 cm, cement mortar, sandfill, pointing and making recess for lighting and all requirements as shown on Detailed Drawing No. 10&amp;12/TS.A-019 and TS.A-022.</p> <p>Overall size 600 cm diameter x 110 cm height.</p>	Item	1		-
2.23	<p>Cast iron tree grill including frame and all fixing accessories as shown on Detailed Drawing No. 4/TS.A-017.</p> <p>Size 100x100 cm.</p>	No.	50		-
2.24	<p>Galvanized cast steel semi automatic retractable bollards with two coats polyurethane paint including galvanized lost casing, interior closets gas jack, galvanized cast steel flat cover with master capitive key flush with ground level and all fixing accessories as shown on Detailed Drawing No. 5/TS.A-018.</p> <p>75 cm height over ground level and 85 cm height below ground level.</p>	No.	25		-
2.25	<p>Ditto. but electrical bollards according to manufacturer instructions.</p>	No.	11		-
2.26	<p>Proposed boundary walls and parapets as shown on Detailed Drawings No. 19&amp;20/TS.A-020.</p> <p>a. Excavation for foundation including backfilling.</p>	M3	32		-
<b>To Collection</b>					

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 2 Site Work**

**Tourist Street**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate J.D.</b>	<b>Amount J.D.</b>
b.	Plain concrete blinding Class (15).	M3	3		-
c.	Reinforced concrete Class (25)				
	1. for foundation.	M3	7		-
	2. for walls underground level.	M3	15		-
	3. for proposed parapets.	M3	1		-
d.	Ma'an Jazirah first choice stone walls including concrete backing Class 20, mortar and pointing.	M2	30		-
e.	Tyrolean plastering 2.5 cm thick.	M2	30		-
f.	Ma'an Jazirah first choice stone coping 32x3 cm.	L.M	30		-
g.	Steel reinforcement bars high tensile $f_y = 420 \text{ N/mm}^2$ .	Ton	1.5		-
2.27	Sweet soil for planter boxes and where required to the depth required.	M3	40		-
2.28	Interpretation sign comprised of Basalt stone walls 3-5 cm thick dressed rough Matabbeh 25 cm coarse stone with concrete backing Class (20) 10 cm thick, reinforced concrete base 10 cm thick Class (25) including steel reinforcement bars $f_y = 420 \text{ N/mm}^2$ diameter 10 mm/20 cm both sides. 18 mm block board covered with metal sheets 2 mm thick. and brass sheet 1 mm thick x 60 x 55 cm, metal tube frame 4x4 cm painted black anti rust paint, including special stone pieces, chamfered edges, mortar, mortar backing, galvanized screws and all fixing accessories as shown on Detailed Drawing No. 2/TS.L-005. Overall size 70x75x130 cm height.	No.	5		-
2.29	Complete directional sign every 50 m interval as shown on Detailed Drawing No. 1/TS.L-005. Height 340 cm over finish level and 62 cm height under finish level.	No.	11		-
<b>To Collection</b>					

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 2 Site Work

### Tourist Street

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.30	Complete waste basket as shown on Detailed Drawing No. 3/TS.L-005. Size 50x40x95 cm height over finish level and 32 cm height under finish level.	No.	15		-
2.31	Planting of large trees as shown on Drawing No. TS.L-001.				
	a. Ceratonia Siliqua 3m height.	No.	18		-
	b. Cercis Silquastrum 3m height.	No.	8		-
	c. Citrus Limon 2m height.	No.	5		-
	d. Robinia Pseudoacacia 3m height.	No.	18		-
	e. Pelargonium Domesticum 0.75m height.	No.	15		-
	f. Lantana Camara 0.75m height.	No.	14		-
2.32	<u>Boundary Wall</u>				
	a. Excavation for foundation including backfill.	M3	24		-
	b. Concrete blinding Class (15) 10 cm thick.	M3	2		-
	c. Reinforced concrete Class (25) for footing.	M3	5		-
	d. Reinforced concrete Class (25) for walls. 20-30 cm thick.	M3	16		-
	e. Deformed high yield steel bars reinforcement $f_y = 420 \text{ N/mm}^2$ .	ton	1.68		-
	f. Ma'an Jazirah rough Matabbeh stone cladding 5 cm thick, traditional fixing including mortar and pointing.	M2	32		-
	g. Ma'an Jazirah stone coping dressed rough Matabbeh 32x3 cm thick including mortar and pointing.	L.M	31		-
	h. Coloured tyrolean plaster 25 mm thick.	M2	35		-
2.33	Protection of existing utilities and adjacent property (Provisional Sum)	LS	1	10,000.00	10,000.00
<b>To Collection</b>					

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 2 Site Work**

**Tourist Street**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<p><b><u>COLLECTION</u></b></p> <p>Page (D2/1)                      Page (D2/2)                      Page (D2/3)                      Page (D2/4)                      Page (D2/5)                      Page (D2/6)</p>				
<b>To Summary</b>					-

**Division 15 Mechanical Works**
**Tourist Street**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
15.1	S & I Concrete drainage pipe according to BS 5911 a. $\Phi$ 150 mm	MR.	1620		-
15.2	S & I Sewage manhole with heavy duty cover manhole a. Manhole Depth less than or equal to 1.0 m b. Manhole depth of 1.0 to less than or equal to 1.5 m depth c. Manhole depth greater than 1.5 m	No. No. No.	8 40 15		- - -
15.3	S & I Excavation and backfilling of selected materials for drainage pipes	m <sup>3</sup>	2600		-
15.4	S & I HDPE pipes PN (16) for domestic water net work a. $\Phi$ 20 mm b. $\Phi$ 25 mm c. $\Phi$ 32 mm d. $\Phi$ 40 mm e. $\Phi$ 50 mm	MR. MR. MR. MR. MR.	675 380 310 115 40		- - - - -
15.5	S & I Excavation and backfilling of suitable materials for domestic water distribution network	m <sup>3</sup>	1830		-
15.6	S & I Galvanized steel pipe class B for house connections a. $\Phi$ 15 mm	MR.	110		-
15.7	S & I HDPE to galvanized steel adapter for house connections a. $\Phi$ 20 x 15 mm	No.	262		-
<b>To Collection</b>					

**Division 15 Mechanical Works**

**Tourist Street**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
15.8	S & I Ferrule and saddle connections for HDPE to steel existing pipe with screw down valve, protecting tube and surface box :  a. $\Phi$ 100 x 25 mm b. $\Phi$ 100 x 32 mm	No. No.	1 9		- -
15.9	S & I Cement lined steel fittings (PN 40) with HDPE adapters, screw down valve, protecting tube and surface box, including welding & joints :  a. Tee 50 x 32 x 50 b. Tee 75 x 25 x 75 c. Tee 75 x 32 x 75 d. Tee 75 x 40 x 75	No. No. No. No.	3 1 6 7		- - - -
<b>To Collection</b>					

**Division 15 Mechanical Works**

**Tourist Street**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Mechanical Works				
	Page (D15/1)				-
	Page (D15/2)				-
<b>To Summary</b>					-

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 16 Electrical Works**

**Tourist Street**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-16	Electrical Works				
16.1	S&I The following:				
a.	F1.	No.	38		-
b.	F2.	No.	16		-
c.	M1.	No.	11		-
d.	S1.	No.	5		-
16.2	S&I External lighting point.	No.	70		-
<b>To Summary</b>					

**KARAK TOURISM DEVELOPMENT SUB-PROJECT**  
**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**VOLUME III**

**BILL NO. 2 LOWER OBSERVATION POINT**

TOURISM SECTOR DEVELOPMENT PROJECT  
 KARAK TOURISM DEVELOPMENT

SAMMARY SHEET

Description of Work	Amount (Carry from Collection)
<u>SUMMARY</u>	
DIVISION-2     Site Works	
DIVISION-3     Concrete	
DIVISION-4     Masonry Works	
DIVISION-5     Metals	
DIVISION-6     Wood and Plastic	
DIVISION-7     Thermal and Moisture Protection	
DIVISION-8     Doors and Windows	
DIVISION-9     Finishes	
DIVISION-10    Specialties	
DIVISION-15    Mechanical	
DIVISION-16    Electrical	
To Grand Summary	

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 2 Site Work

### Lower Observation Point

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-2	Site Work				
	Excavation and Fill				
2.1	Excavation in any kind of soil, rock etc., starting at natural ground levels including compacting backfill material of selected material and removal of surplus material from site to an approved area. For site leveling.	M3	300		
2.2	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, footings, trenches and ground beams				
	a. Building foundation.	M3	110		
	b. Site structures.	M3	90		
2.3	Demolition and removal of surplus materials from site to an approved area as instructed by the engineer for existing boundry walls.	M2	55		
2.4	Imported selected compacted backfill for the site according to section 02300.	M3	1300		
2.5	Imported selected aggregate base course material. 15 cm thick placed under slabs on grade for building.	M2	79		
2.6	Imported selected aggregate base course material CBR $\geq$ 80, 15-20 cm thick placed under Asphalt or stone pavement.	M3	210		
2.7	Imported selected fill material including all necessary compaction. Subgrade layers CBR $\geq$ 20 under Asphalt Paving.	M3	232		
2.8	Bituminous tack coat.	Ton	1		
<b>To Collection</b>					

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 2 Site Work**

**Lower Observation Point**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate J.D.</b>	<b>Amount J.D.</b>
2.9	Bituminous concrete wearing course 5 cm compacted thickness for roads & parking areas.	M2	640		
2.10	Imported approved planting soil 40-50 cm thick including fertilizer.	M3	150		
2.11a.	Precast concrete curb stone 12/15x30x50 cm including cement mortar 3 cm, concrete base (C15) 35x10 cm and pointing.	L.M	215		
b.	Ditto. but for handicapped with rounded edges 15x30x50 cm.	L.M	4		
2.12	Painted pavement lines and markings (TRP). 10 cm wide.	M2	8		
2.13	Stone pavers as shown on Detailed Drawings No. Lop.L-001 & Lop.L-003 Ma'an "Sateh" regular stone tiles 25x3 cm thick placed on mortar bed 3 cm and sand fill bed 5 cm thick including joints 0.5 cm and pointing.	M2	520		
2.14	Planting trees as shown on Drawing No. Lop.L-002.				
a.	Leumminosae, Albizia Julibrissin, Mimosa (Silk Tree).	No.	2		
b.	Pinaceae, Penus Halepensis, Aleppo Pine.	No.	14		
c.	Hippocastannaceae, Aescutus Hippocastanam, Horse Chesunt.	No.	6		
d.	Myrtaceae, Eucalyptus Perriniana, Spinning Gum.	No.	1		
e.	Saligaceae, Populus Alba, White Poplar.	No.	3		
f.	Rosaceae, Prunus Cerasifera, Cherry Plum Nigra.	No.	2		
g.	Agavaceae, Y. Elate, Palmilla.	No.	2		
<b>To Collection</b>					

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 2 Site Work

### Lower Observation Point

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	Shrubs every 35 cm.				
	h. Compositae, Soutolina Chamaccyparissus, Lavener Cotton and Labiatae, Rosmarinus Officinalis, Rosemary.	M2	25		
	i. Parthenocissus QuinQuefolia, Vergina Creeper.	M2	40		
2.15	Extra over "allowance" for planting beds 60x60 cm and 90x90 cm as shown on Detailed Drawing No. 13&14/Lop.A-006, price not include materials.	No.	8		
2.16	Black Karak stone cuts, roughly dressed with spacing 2-3 cm between stones including mortar and pointing.				
	a. 10-15x10 cm stone cuts for pavement edges.	L.M	283		
	b. 10-15x26 cm stone cuts for steps.	L.M	45		
	c. 10-15x20 cm stone cuts for planter edges.	L.M	23		
2.17	White Ma'an Class (B) rubble stone big cuts including cement and sand mortar, recessed pointing and all fixing accessories.	M3	32		
2.18	Black Karak big rough stone cuts including cement mortar and recessed pointing.	M3	83		
2.19	Ma'an Sateh stone wall facing 5 cm thick dressed rough (Matabbeh) 25 cm course stone including mortar, pointing, special stone pieces and all fixing accessories.	M2	150		
2.20	Ma'an Sateh stone copings 3 cm thick including mortar and pointing. 30-35 cm width.	L.M	124		
2.21	Cast in place plain concrete (C15) 15 N/mm <sup>2</sup> compressive strength with ordinary Portland cement including all necessary formwork.				
	a. 10 cm thick under footings.	M3	5		
<b>To Collection</b>					

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 2 Site Work

### Lower Observation Point

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.22	Cast in place reinforced concrete (C25) 25 N/mm <sup>2</sup> at 28 days compressive strength with ordinary Portland cement .				
	a. for foundations, footings and ground beams.	M3	22		
	b. for walls 20-30 cm thick and for stone backing under and over f.f. level.	M3	92		
	c. for slabs on grade 10 cm thick under stone pavement.	M3	50		
2.23	Deformed high yield steel bar reinforcement of characteristic strength FY=420 N/mm <sup>2</sup> , including, hooks, tying wires, distance block and spacers	Ton	6		
2.24	Deformed mild steel bar reinforcement of characteristic strength FY=275 N/mm <sup>2</sup> including bending, hooks, tying wires distance blocks and spacers.	Ton	2.50		
2.25	Complete interpretation sign 120x90 cm comprised of 18 mm plywood board, 2mm galvanized metal sheets, 1mm brass sheets, 4x6 cm metal tube frame painted of black anti rust paint, and fixed to Black Karak big cut stone base on an angle of 45° as shown on Detailed Drawing No. 16/Lop.L-006. The Contractor should supply the graphic designer for the interpretation sign and obtain the material from the MOTA. Overall size (200x80) cm including big cut stones both sides.	No.	1		
<b>To Collection</b>					

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 2 Site Work**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.26	Handrail and Railing stove painted galvanized steel handrail comprising 50 mm diameter galvanized steel handrail, galvanized steel supports 25 mm diameter each 45 cm centers, galvanized steel plate fixed to handrail pipe including all necessary fixings, fittings, welding and stove painted as shown on Detailed Drawing No. 4/Lop.L-003.	L.M	13		
2.27	Stove painted steel Balustrade comprising steel tubes 2x5 cm, 3x0.5 cm diamond steel bars and all fixing accessories as shown on Detailed Drawing No. 8/Lop.L-004. Overall height 45 cm for boundry walls.	L.M	102		
2.28	Pergola comprised of steel frames 10x15 cm painted off black enamel Anti rust paint, metal casing fixed to stone cuts and stone walls, 4.5x10 cm Canadian wood rafters 40 cm centered painted varnish including metal channels between metal and wood, and all fixing accessories as shown on Detailed Drawing No. 10/Lop.L-005.	M2	57		
2.29	Coloured Tyrolean plaster 25 mm thick cement and sand plastering in three coats 2 cm thick, and the fourth coat of white cement, sand and quarts 0.5 cm thick for boundary walls.	M2	60		
<b>To Collection</b>					

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 2 Site Work**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<p><b><u>COLLECTION</u></b></p> <p>Page (D2/1)                      Page (D2/2)                      Page (D2/3)                      Page (D2/4)                      Page (D2/5)</p>				
<b>To Summary</b>					

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 3 Concrete

### Lower Observation Point

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-3	Concrete				
	Cast in place Concrete for the service building.				
3.1	Plain concrete (C15), 15 N/mm <sup>2</sup> at 28 days compressive strength with ordinary Portland cement				
	a. 5 cm thick under slabs on grade.	M3	4		
	b. 10 cm thick under foundations.	M3	5		
3.2	Plain concrete (C20), 20 N/mm <sup>2</sup> at 28 days compressive strength with ordinary Portland cement				
	Cast in place				
3.3	Reinforced concrete (C25), 25 N/mm <sup>2</sup> at 28 days compressive strength with ordinary Portland cement				
	a. Foundations, footings and grade beams.	M3	22		
	b. Columns (generally) under and over F.F.L.	M3	9		
	c. Walls 20-30 cm thick under F.F.L.	M3	7		
	d. Walls 20-30 cm thick over F.F.L. and parapets.	M3	20		
	e. Slabs on grade 10 cm thick.	M3	8		
	f. Suspended slabs and beams.	M3	18		
3.4	Deformed high yield steel bar reinforcement of characteristics strength $f_y = 420 \text{ N/mm}^2$ , including hooks, tying wires, distance block and spacers.	Ton	9.04		
<b>To Collection</b>					

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 3 Concrete**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
3.5	Deformed mild steel bar reinforcement of characteristic strength $f_y = 275 \text{ N/mm}^2$ including bending, hooks, tying wires distance blocks and spacers.	Ton	0.48		
3.6	Concrete Formwork Extra Over for faire face concrete finish including positioning of grooves chamfers, "V" shapes, recesses etc., complete as shown on the drawings and as specifications				
3.7	Ordinary formwork complete as per specification	m2	360		
<b>To Collection</b>					

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 3 Concrete**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<p style="text-align: center;"><b><u>COLLECTION</u></b></p> <p>Page (D3/1) Page (D3/2)</p>				
<b>To Summary</b>					

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 4 Masonry**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-4	Masonry				
	Concrete Masonry Unit				
4.1	Hollow concrete block work in cement and sand mortar (1:4) including all cutting, bonding, control and expansion joints, bond beam and lintels.				
	a. 10cm thick	M2	77		
	b. 20cm thick	M2	4		
	c. 15cm thick	M2	7		
4.2	Hollow concrete blocks for rib slabs including using blocked ends blocks. Size 40/36x20x18 cm.	No.	520		
	Natural Stone				
4.3	Ma'an Sateh stone walls Class A dressed "Mufajjar" 25 cm course stone, 5 cm thick, traditional fixing including cement mortar, concrete backing Class (20), flush pointing, special stone pieces such as but not limited lintels, jambs, sills, arches, grooves, external and internal angles and all necessary fixing. Special stone pieces shall be measured in square meter and dressed matubbeh. Total thickness 30 cm.	M2	160		
4.4	Ditto. but Karak black stone walls. 30 cm thick.	M2	6		
4.5	Ditto, as in item (4.3) but stone cladding 5 cm thick mechanical fixing, price not include reinforced concrete backing.	M2	24		
4.6	Karak black big rough cut stone walls both sides including concrete filling Class (20) cement mortar and recessed pointing. Total height (45-100) cm approx., thickness (20-60) cm. Finished with sharp longitudinal cutting.	M3	73		
<b>To Collection</b>					

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 4 Masonry**

**Lower Observation Point**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate J.D.</b>	<b>Amount J.D.</b>
4.7	Ma'an Sateh stone copings mechanically dressed "Matabbeh" including cement and sand mortar bed. 4-5 cm thick x 35 cm wide.	L.M	46		
4.8	Ma'an Sateh regular stone tiles 25x3 cm thick mechanically dressed Matabbeh including cement and sand mortar bed 3 cm, sandfill bed 5 cm, cuttings and pointing.	M2	7		
4.9	"Hebron Yatta" marble thresholds and sills 3 cm thick with half rounded edges including cement, sand mortar and pointing.	M2	7.5		
4.10	Ditto, as in item (4.3) but Karak stone include walls dressed Matabbeh for external counter including concrete support Class (20) 30x60x100 cm approx. height. Stone walls total thickness 25 cm.	M2	3		
<b>To Collection</b>					

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 4 Masonry**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D4/1)				
	Page (D4/2)				
<b>To Summary</b>					

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 5 Metal Works**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-5	Metal Works				
5.1	Skylight comprising Aluminum structural system and tempered single glazing 6 mm thick including sealant and all fixing accessories as shown on Detailed Drawing No. 6/Lop.A-009.	M2	8		-
<b>To Summary</b>					

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 6 Wood & Plastic**

**Lower Observtion Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-6	Wood & Plastic				
6.1	<p>Wooden low cabinets for kitchen and cafeteria counter comprising block board (Latee) 18 mm thick with beech wood frames and lipping 1.5 cm thick, faced with laminated hard PVC. 1 mm thick both sides, laminated block boards shelves 16 mm thick, drawers units, 4.5x7.5 cm pine wood frames, Italian marble topping 3 cm thick with half rounded edges, stainless steel hardware, varnish painting and all fixing accessories as shown on Detailed Drawing No. 9/Lop.A-0/10.</p> <p>Overall size 60x75 cm height</p> <p>Price not include raised floor it shall be measured with floor finishing works.</p>	L.M	1.70		
6.2	Ditto, but upper cupboards 35x60 cm.	L.M	1.70		
<b>To Summary</b>					

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 7 Thermal and Moisture Protection**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-7	Thermal and Moisture Protection				
7.1	Light weight foam concrete screed of density 450 kg/m <sup>3</sup> laid to slope with minimum thickness 5 cm at roof drains including protective sand cement screed 3 cm thick trowelled smooth and triangular filet as shown on Detailed Drawing No. 5/Lop.A-009.	M2	85		
7.2	Water proof membrane 4 mm thick with granules, single ply, torch applied on roof including overlaps, prime coat, groove filled with mastic 2x2 cm, haunches around roof drains and pipe penetrations, and guarantee 5 years according to Detailed Drawing No. 5/Lop.A-009.	M2	90		
7.3	Damp-proof layer under slabs on grade comprising two layers 500 micron thick polyethylene sheets including overlapping at joints, taping of joints, turning up 300 mm along the perimeter of walls and columns.	M2	100		
<b>To Summary</b>					

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 8 Doors and Windows

### Lower Observation Point

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 <sup>3</sup> density, oil painting in 3 coats system, rubber sealing strips, stainless steel hardware and ironmongery as shown on Drawing No. Lop.A-010.	No.	Nil																																							
8.2	Aluminum doors and windows, special sections not less than 70x35 mm for sliding doors and windows, 50x45 mm for hinge doors and windows, 70x45 mm for sashes doors and windows, single glazing 6 mm clear float glass, including hardware, flyscreen, sealant and all fixing accessories as shown on Drawing No. Lop.A-010.																																									
	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 5%;"><u>Type</u></th> <th style="text-align: left; width: 15%;"><u>Size</u></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>a. AW1</td> <td>125x264 cm</td> <td>No.</td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>b. AW2</td> <td>260x182 cm</td> <td>No.</td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>c. AW3</td> <td>60x104 cm</td> <td>No.</td> <td>4</td> <td></td> <td></td> </tr> <tr> <td>d. AD1</td> <td>100x262 cm</td> <td>No.</td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>e. AD2</td> <td>100x262 cm</td> <td>No.</td> <td>1</td> <td></td> <td></td> </tr> </tbody> </table>	<u>Type</u>	<u>Size</u>					a. AW1	125x264 cm	No.	1			b. AW2	260x182 cm	No.	1			c. AW3	60x104 cm	No.	4			d. AD1	100x262 cm	No.	1			e. AD2	100x262 cm	No.	1							
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e. AD2	100x262 cm	No.	1																																							
8.3	Wood doors and frames with hard P.V.C. laminated finish flush panel half solid core doors, one or two leaves 44 mm thick with plywood veneer both sides 5 mm thick faced for stained decorative laminated hard P.V.C. sheets 1 mm thick both sides, rebated Canadian pine wood frames and lipping all round, softwood grounds, pine wood stile 4.50x10 cm, including stainless steel hardware and ironmongery, varnish paint, cylindrical Italian locks and all fixing accessories as shown on Drawing No. Lop.A-010.																																									
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<b>To Summary</b>																																										

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 9 Finishes**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-9	Finishes				
9.1	Cement and sand plaster to internally surfaces, walls, ceiling, soffits, jambs, lintels, columns and where required including expanded metal lath 20 cm x 0.5 mm thick, angle beads and stop beads. Total thickness 2 cm.	M2	95		
9.2	Ditto. but external plastering for parapets and where required. Total thickness 2 cm.	M2	63		
9.3	European ceramic wall tiles first choice with special form pieces for corners, angles, coved skirting and radial tile for stop end. Size 15x20x0.6 cm thick.	M2	248		
9.4	European non slip ceramic floor tiles like (Terra Cotta imitation). Size 30x30x0.80 cm thick.	M2	64		
9.5	Calcutta Italian marble wall mounted counters for insert wash basins in toilets 3 cm thick with half rounded edges and back splash 20x3 cm, including making openings for insert wash basins, prepainted steel tube brackets 40x80 mm at proper spaces to receive top and side marble and all fixing accessories, price not include basins as shown on Detailed Drawing No. 8/Lop.A-009. Size 60 cm width x 30 cm height.	L.M	5		
9.6	Emulsion acrylic base paint in one priming coat and three finishing coats including full coverage of surfaces with one coat of putty.  To walls and ceilings.	M2	95		
<b>To Collection</b>					

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 9 Finishes**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
9.7	Acrylic elastic rough textured paint with high resistance against weather to be applied on external plastered walls, ceiling and parapets in one prime coat and one finishing coat.	M2	63		
9.8	Calcutta Italian marble toping for counters 5 cm thick with half rounded edges including cement mortar and pointing, price not include concrete support, block walls, stone cladding and ceramic wall tiles. It shall be measured separately.				
a.	90 cm width.	L.M	3.60		
b.	60 cm width.	L.M	3.30		
c.	60 cm max. total width, curved shape.	L.M	3.00		
<b>To Collection</b>					

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 9 Finishes**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D9/1)				
	Page (D9/2)				
<b>To Summary</b>					

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 10 Specialties**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-10	Specialties				
10.1	Glazed mirrors 6 mm thick including brass strips, plywood boards 12 mm thick backing, w/water proof caulk with silicon, glue for mirror, galvanized steel angles and all fixing accessories as shown on Detailed Drawing No. 8/Lop.A-009.	M2	5		
<b>To Summary</b>					

**Division 15 Mechanical Works**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
15.1	Preliminaries for the mechanical works GENERAL:				-
15.2	The Contractor shall read this introduction to the bill of quantities, in conjunction with all contract documents. This introduction is considered the main reference contract document for measurement and payment.  ABBREVIATIONS: The following symbols and abbreviations are used in the bills, and shall have the following meanings: * BOQ : Bills of quantities * GSP : Galvanized steel pipe  * HDPE: High Density Polyethylene * st.st : Stainless steel * L.S : To be measured as a Lump sum * MR : To be measured by Linear meter * M2 : To be measured by Square meter * M3 : To be measured by Cubic meter * No : To be measured by Number * l/s : Liters / second * FC : False ceiling * Qty : Quantity * Sanitary fixtures: WC handbasin, ... kitchen sink * S & I : Supply & install * WDB : Water distribution box * EXF : Extract fan * EWH : Electric Water Heater  METHOD OF MEASUREMENT FOR PAYMENT:				-
15.3	All services: (HVAC, plumbing) In addition to what is clearly mentioned in the item itself, the following works and duties are considered to be included in the Contractor ' s prices of the Bills of Quantities,				-
<b>To Collection</b>					-

**Division 15 Mechanical Works**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<p>whether mentioned clearly or not, and shall not be subject to measurement separately by the Contractor for payment, but shall be included in the prices of other items of the BOQ. These works mentioned here can be sufficient reasons for the Owner to delay or even stop payment, (such as but not limited to, the "AS BUILT DRAWINGS"): It is important to note down here that the Designer showed and mentioned, to the best of his knowledge and with good faith, all what is needed to provide complete operational systems, and the Contractor is requested to include in the prices of the listed items, any item or work explained herein, without being listed for pricing in the bills, or any missing items that are necessary for the good operation but not listed, some of these works and supplies are the following:</p> <ul style="list-style-type: none"> <li>- all the needed coordination works between the mechanical utilities themselves, and with other services and other Contractors, i.e.: structure, architecture requirements, and electrical systems, in addition to taking all measures of the existing facilities from the site itself to check the accuracy of the drawings.</li> <li>- submittal of original catalogues, instruction and operation manuals trouble shooting and maintenance literature for all equipment.</li> <li>- electric diagrams and circuits for power supply and for control circuits for every equipment separately, then for the complete systems as connected.</li> </ul>				-
<b>To Collection</b>					-

**Division 15 Mechanical Works**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	- all accessories shown on the drawings or the schematic diagrams, are considered part of the equipment they are figured on, unless mentioned separately.				-
	- civil works such as drilling holes, making openings, putting sleeves, restoring walls or surfaces to their original situation if existing, or if prepared by other Contractors before the Mechanical Contractor is ready.				-
	- cleaning pipes from oil before installation.				-
	- flushing, cleaning, and testing.				-
	- water for tests, and any material for trials and tests.				-
	- energy for all the works.				-
	- complete maintenance for one year (guarantee period), including supply of all needed spare parts during the year.				-
	- submittal of workshop drawings, prior to execution, showing all details and coordination between different services.				-
	- First grease and oil fill for equipment, and refrigerant for cooling equipment.				-
	- Special maintenance tools such as special keys, or special screw drivers, and any other tools needed for maintenance other than the ordinary keys.				-
	- Personnel training, during trials and for two days after commissioning. The Contractor shall write to the Owner two weeks in advance informing him that he is ready for training,				-
<b>To Collection</b>					-

**Division 15 Mechanical Works**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	so that the Owner prepares the required personnel. IF THE CONTRACTOR DOES NOT WRITE TO THE OWNER, HE WILL BE RESPONSIBLE FOR ANY DELAYS IN HIS PROGRAM, RESULTING FROM DELAYING THE COMMISSIONING BY THE OWNER TO PREPARE SUCH PERSONNEL. The program shall not be disturbed if the Contractors writes to the Owner but the latter fails to prepare his personnel.				-
15.4	Domestic cold & hot water services Cold & Hot Water Manifolds:  The price shall include wall mounted cabinet, brass manifolds, fixing, fitting, brackets, nipple union, valves, end piece Automatic rents valve on each water outlet, labour and all necessary fitting as shown on drawing.				-
15.5	Drain & Sewage Pipes:  The price includes the pipe itself, the jointing materials and supplies, sleeves for wall or slab penetrating, supports, hangers, anchorage, the measurement will be done to the net lengths from center of fittings to other center, and to the outer surface of manholes. Fittings will not be measured separately. Pieces within manholes are priced as a part of the manhole. Eccavation and backfilling of selected materials				-
15.6	All Other Pipes: The prices, Water and any other piping in the project shall include the following:				-
<b>To Collection</b>					-

**Division 15 Mechanical Works**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<p>- The pipe itself with all fittings, the jointing materials and supplies, metallic tags with the name of utility and the flow direction arrow engraved on it, fixed by a suitable standard ties to the pipes at all rooms or locations through which the pipes pass, sleeves for wall or slab penetrating, supports, suitable hangers, anchorage, expansion loops between anchor points, measurement will be done to the net lengths from center of fittings to other center, Fittings will not be measured separately. Valves, expansion loops or bellows, or any line equipment shall not be measured in length whether billed separately or mentioned clearly to be part of a Lump Sum or an arrangement or a system. The price shall also include all balancing and regulation works to produce the required conditions of flows and pressures.</p> <p>For XLPE pipes price includes all required sleeves.</p> <p>- WHETHER MENTIONED OR NOT: GSP and any other pipe vulnerable to any degree of corrosion, the bill price shall include:</p> <p>- for GSP or either similarly coated pipes: Bitumen coating applied directly on the pipe, (whether insulated or not), when pipe is in contact with earth or concrete.</p>				-
15.7	Plumbing, Drainage and Water Systems:				-
15.8	Plumbing fixtures price to include hangers supports, angle valves, flexible connections 600 mm grapers for WC disabled WC.and Vitreous China Roll holder				-
<b>To Collection</b>					-

**Division 15 Mechanical Works**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
15.9	<p>Manholes : (all types and sizes):</p> <p>The price includes the excavation, disposal of surplus material, blinding, concrete works and supplies reinforcement, pipes in the walls and within the manholes, standard cast iron covers, with the name of service moulded on the cover (water, sewage), Galvanized steel pipe work ladder backfill and compaction around the manhole, and restoration of the surrounding area to the original state.</p>				-
15.10	<p>Any Electrically Driven Equipment:</p> <p>(Fans, split units, hot water heaters, valves, actuators, alarm system, etc...):</p> <p>The price includes the equipment itself, with all accessories such as unions, flexible connections, instruments for pressure and temperature measurement, the base, in addition to the preparing of electric diagrams and drawings, and the supply and the installation of the electrical conduits, wires and wiring to the control devices operating or stopping the equipment, any switches, boxes, control devices (manual or automatic) not priced separately, the conduits, wires and wiring to the panel from where power is supplied, and to the panel from where equipment is controlled or operated, manually or automatically, (the panel is included only if clearly mentioned), earthing wires and connection to the main earthing system passing through the main panel or cabinet.</p>				-
<b>To Collection</b>					-

**Division 15 Mechanical Works**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
15.11	S & I Vitreous China concealed type EWC	No.	2		-
15.12	Ditto but for disabled	No.	2		-
15.13	S & I Vitreous China urinals with Auto flushing tank	No.	2		-
15.14	S & I Vitreous China counter top wash basin	No.	4		-
15.15	S & I Vitreous China pedestal type wash basin	No.	1		-
15.16	S & I Vitreous China wash basin for disabled	No.	2		-
15.17	S & I Stainless steel double bowl kitchen sink	No.	1		-
15.18	S & I Electric hot water heater (capacity 50 liter)	No.	2		-
15.19	S & I Galvanized steel 2 m <sup>3</sup> capacity water tank with its base	No.	2		-
15.20	S & I Float valve a. $\Phi$ 20 mm	No.	2		-
15.21	S & I Bronze Gate Valves a. $\Phi$ 20 mm b. $\Phi$ 32 mm	No. No.	4 1		- -
15.22	S & I Strainer $\Phi$ 20 mm	No.	1		-
15.23	S & I UPVC pipes (class 10) a. $\Phi$ 50 mm b. $\Phi$ 82.4 mm c. $\Phi$ 110 mm d. $\Phi$ 160 mm	MR. MR. MR. MR.	50 10 35 30		- - - -
<b>To Collection</b>					-

**Division 15 Mechanical Works**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
15.24	S & I Φ 50 wall type clean out with cap and st. st. cover	No.	1		-
15.25	S & I UPVC Floor drain a. Φ 82.4 mm with strainer and st. st. cover	No.	1		-
15.26	S & I a. Φ 110 mm with strainer and UPVC cover	No.	2		-
15.27	S & I Wall mounted extract fans with automatic shutter	No.	5		-
15.28	S & I Concrete drainage pipes according to BS 5911 a. Φ 150 mm	MR.	70		-
15.29	S & I Sewage manholes a. Depth less than or equal 1.0 m with medium duty cover b. Depth greater than 1.0 m with heavy duty cover	No. No.	2 1		- -
15.30	S & I Galvanized steel potable water pipes class B a. Φ 15 mm b. Φ 20 mm c. Φ 25 mm d. Φ 32 mm	MR. MR. MR. MR.	55 75 15 5		- - - -
15.31	S & I XLPE potable water pipes a. Φ 16 mm b. Φ 20 mm	MR. MR.	90 10		- -
15.32	S & I Chrome plated irrigation tap (Hose BiB) a. Φ 15 mm	No.	3		-
<b>To Collection</b>					-

**Division 15 Mechanical Works**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
15.33	S & I Water distribution box (WDB) a. WDB1 b. WDB2	No. No.	1 1		-
15.34	S & I 6 kg fire extinguishers a. BCF b. CO <sub>2</sub>	No. No.	1 1		- -
15.35	S & I Window type extract fan with automatic shutter, capacity 25 L/sec.	No.	4		-
15.36	Wall mounted extract fan with automatic shutter a. Capacity 20 L/sec b. Capacit 60 L/sec	No. No.	1 1		
<b>To Collection</b>					-

**Division 15 Mechanical Works**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D15/1)				
	Page (D15/2)				
	Page (D15/3)				
	Page (D15/4)				
	Page (D15/5)				
	Page (D15/6)				
	Page (D15/7)				-
	Page (D15/8)				-
	Page (D15/9)				-
<b>To Summary</b>					-

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 16 Electrical Works**

**Lower Observation Point**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate J.D.</b>	<b>Amount J.D.</b>
D-16	Electrical Works				
16.1	S&I Main distribution board (MDB).	No.	1		-
16.2	S&I Main feeding cable to MDB: 5x10 mm <sup>2</sup> CU/PVC/SWA/PVC cable.	L.M	50		-
16.3	S&I The following panels:				
	a. SPEL.	No.	1		-
	b. DBB.	No.	1		-
	c. DBA.	No.	1		-
16.4	S&I Earthing system for MDB.	L.S.	L.S.		-
16.5	S&I Internal lighting point.	No.	13		-
16.6	S&I External lighting point:				
	a. Using 6 mm <sup>2</sup> cable.	No.	28		-
	b. Using 4 mm <sup>2</sup> cable.	No.	49		-
16.7	S&I 2.5m street lighting pole (P1).	No.	6		-
16.8	S&I The following lighting fittings:				
	a. F1.	No.	31		-
	b. S1.	No.	40		-
	c. I1.	No.	11		-
	d. F2.	No.	2		-
16.9	S&I The following power points:				
	a. 13A single phase socket outlet with switch (3 pin).	No.	6		-
	b. Ditto. but water proof.	No.	1		-
	c. Hand dryer.	No.	2		-
<b>To Collection</b>					-

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 16 Electrical Works**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	d. Water heater.	No.	2		-
	e. Exhaust fan.	No.	4		-
16.10	S&I				
	a. Telephone outlet.	No.	2		-
	b. 10 pair telephone connection box.	No.	1		-
<b>To Collection</b>					-

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 16 Electrical Works**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D16/1)				-
	Page (D16/2)				-
<b>To Summary</b>					-