

JAPAN INTERNATIONAL COOPERATION AGENCY

THE GOVERNMENT OF  
THE HASHEMITE KINGDOM OF JORDAN  
THE MINISTRY OF TOURISM AND ANTIQUITIES  
THE MINISTRY OF PLANNING

DRAFT  
TENDER DOCUMENTS  
FOR  
CONSTRUCTION  
OF  
**KARAK TOURISM DEVELOPMENT SUB-PROJECT**  
THE TOURISM SECTOR DEVELOPMENT PROJECT  
  
**PRICED BILL OF QUANTITIES**

August 2000

Pacific Consultants International  
Yamashita Sekkei Inc.

## BILL OF QUANTITIES

### Table of Contents

#### Part : 1

a. Preamble to Bill of Quantities

b. Preliminaries for the Work

c. Construction Cost

##### General Summary

Bill No. 1 Tourist Street

Bill No. 2 Lower Observation Point

Bill No. 3 Upper Observation Point

Bill No. 4 Visitor Centre

Bill No. 5 Karak Castle Museum

Bill No. 6 Karak Castle Pathway

#### Part : 2

d. Daywork Rate

**VOLUME III**

**PART: 1**

**PREAMBLE**

**PRELIMINARIES**

**BILL OF QUANTITIES**

## **PREAMBLE**

## **DIVISION 2: SITE WORK**

### **Preamble**

This section shall be read in conjunction with Division 2 of the Technical Specifications.

#### **A. Measurement**

The quantities of excavation and filling are measured net from the new and existing levels and/or contours shown on the drawings on the basis that the gradient of the existing surfaces between the nearest adjacent spot levels and/or between contours is constant.

Measured items include any additional excavation or filling required due to variation of the existing surface differing from a constant gradient between spot levels and/or between contours.

Measured items for excavation include for hand or machine work or any combination of the two as may be found expedient, for carrying out excavations in stages where required, for segregation of excavated materials as required and for grubbing up roots and root matter.

Measured items for excavation include for getting out excavated material, and earthwork support.

Measured items for excavation shall include for removing surplus excavated materials to temporary spoil heaps and for creating spoil heaps and moving as required during the progress of the works.

The quantities given for excavation and subsequent disposal are the bulk before excavating and no allowance is made for any subsequent variations in bulk or for any extra space required for working space or to accommodate earthwork support.

All types of excavation has been measured as one item irrespective of the depth. Excavation for foundations shall include for all types of excavation that is not excavation to reduce levels. It shall include but not be limited to excavation for trenches, ground beams, bases.

Foundation trenches are measured to the width of the concrete blinding.

Bases, ground beams, and the like are measure to the size of the concrete base.

Backfilling shall be measured net no allowance for compaction factor..

**B. Rates**

**Rates for excavation shall include for:**

1. Excavation to any depth.
2. Earthwork support to uphold the sides of excavation by any means necessary.
3. Excavation in any ground including rock to any depth. Rock shall be removed with drilling equipment, compressors, rippers or explosives where approved.
4. Trimming, leveling, ramming bottoms of excavation.
5. Double and multiple handling.
6. Stockpiling.
7. Keeping excavations free from storm water, percolating water and sub-soil water by pumping or any other means.
8. Finishing and grading to any falls, crossfalls, or slopes that may be required.
9. Removing surplus excavated material from site, comprising loading and transporting, double and multiple handling, temporary spoil heaps and provision of an approved tip and payment of all charges in connection therewith.
10. Benchmarks.
11. Selected excavated material filling including:
  1. Sorting excavated material.
  2. Importation of additional material if sufficient is available on site and subsequent additional disposal.
  3. Depositing and compacting in layers.
12. Imported granular filling including:
  1. Sorting material.
  2. Depositing and compacting in layers.

**Rates for Demolition work shall include for:**

1. Removing of all surplus material from site.
2. Disposal of all rubbish and debris.
3. Delivery of materials that can be benefit and shall be stored in the Employer stores.
4. Using the best techniques and equipment s for the demolition purposes.
5. Cleaning the site continuously.
6. The contractor shall visit the site to obtain idea about demolitioning.
7. The contractor must coordinate with the Employer and Engineers representative before starting in demolition work.

## **DIVIDION3: CONCRETE**

### **Preamble**

This section shall be read in conjunction with Division 3 of the Technical Specifications.

#### **A. Measurement**

Concrete is measured net as placed and no deduction is made for voids not exceeding 0.05 m<sup>3</sup> in cubic areas, or for the volume of any steel, conduits and pipes embedded in the concrete.

#### **Concrete**

- Blinding beds are measured in cubic meters.
- Concrete floors are measured in cubic meters.
- Concrete walls, upstands and columns are measured in cubic meters in over and below the existing levels and from top of slab to under side of beams or slabs above.
- Suspended solids slabs, ribbed slabs, waffle slabs, and beams are measured net in cubic meters and measurement have been taken over all bearings.
- Moulds for waffle slabs and hollow block ribs for ribbed slabs to be deducted from the volume of concrete slabs and it will be measured separately.
- An extra over to be paid for using moulds waffle slabs and fair face formwork.
- Concrete Deck slabs are measured in square meter stating the thickness and including galvanized corrugated steel sheeting.

#### **Reinforcement**

The weight of reinforcement bar is measured net without addition for rolling margin supports, spaces or tying wire.

#### **Formwork**

Formwork is measured net as fabricated and there is an Extra over (allowance) for special formwork for vaults, doms, arches, openings, drop beams, circular columns and where required.

#### **B. Rates**

##### **Rates for concrete work shall include for:**

1. Designing mixes.
2. Construction and control joints.
3. Laying in bays including temporary supports.
4. Vibrating and packing around reinforcement and between formwork.
5. Curing and sprinkling.

6. Work of any cross-sectional area and at any height.
7. Cutting or forming grooves, throats, holes, chases, rebates, chamfers, splayed angles, mouldings and the like.
8. Cutting or forming mortices and grouting in.
9. Making good holes left by other trades.
10. Grading, tamping and troweling surfaces of unset concrete.
11. Hacking or otherwise treating surfaces of concrete to receive finish.
12. Support reinforcement bars not indicated on drawings and as required.
13. Sulphate resisting cement for all concrete works under finished floor level.

**Rates for reinforcement bar shall include for:**

1. Rolling margin.
2. Bending and typing wire.
3. Distance pieces and spacers and chairs.
4. Rods and bars in any location and at any height.
5. Cutting and waste.
6. Laps above required by standards and Drawings.
7. Hooks.

**Rates for precast concrete shall include for:**

1. Designing mixes.
2. Lifting steel.
3. Moulds and surface finishes.
4. Steel reinforcement, dowels and anchors.
5. Concrete or mortar mix at in situ joints.
6. Transporting, hoisting, bedding and pointing in cement mortar.
7. Temporary supports.
8. Fair ends, stooled ends, returned ends, rounded ends, mitred angles, rebated angles, intersections and the like.

**Rate for formwork shall included for:**

1. Formwork.
2. All necessary supports and shoring
3. Formwork cutting and waste.
4. Splaying edges of formwork.
5. Formwork fillets, notches or the like.
6. Allowance for formwork overlaps and passings at angles.
7. Metal inserts for formwork anchorages.
8. Strutting, propping, bolting, metal ties wedging, casing and striking of formwork.



## **DIVISION4: MASONARY**

### **4.1 STONE WORK**

#### **Preamble**

This section shall be read in conjunction with Division 4 of the Technical Specifications.

#### **Stone Work**

- Stone works must be of the best quarries first choice and as described in the relevant Specifications, Drawings and Bills of Quantities.
- Stone cladding to concrete walls or concrete block walls shall also be deemed to mean concrete beams, lintels, columns, edges of slabs or the like.
- Concrete walls, beams, columns, lintels, slabs and concrete block wall have all been measured net elsewhere unless described in the description.
- For special stone works it shall be measured in square meter without any extra over (allowance) for special stone of arches, columns, jambs, lintels, angles sills and other special stone works, except the items mentioned in B.O.Q.
- For stone copings it shall be measured in linear metre to the length of parapets.
- For stone sills and thresholds it shall be measured in square metre.

#### **Rates**

##### **Rates for stone cladding shall include for:**

1. All hoisting, cutting, dressing, bending and mortar backing.
2. Forming courses.
3. Narrow widths.
4. Cutting to form angles, copings, sills, big stones in different shapes or the like from solid blocks.
5. Cutting or raking out joints prior to pointing.
6. Construction and control joints.
7. Stainless steel suspension system as shown in Drawings.
8. Pointing to exposed ends.
9. Temporary supports.
10. Cutting or forming holes or chases for pipes, tubes, bars, cables, conduits, ductwork and the like and mortices, sinkings, holes and the like, including grouting.
11. Providing expanded metal lathing to ends at openings or the like, or where in situ finishings are applied.
12. Engravings.

## **4.2 BLOCKWORK AND SAND LIME BRICK**

### **Preamble**

This section shall be read in conjunction with Division 4 of the Technical Specifications.

#### **A. Measurement**

All blockwork is measured net with no deductions made for voids not exceeding 0.10 m<sup>2</sup> in the face of the walls.

Cavity walls have been measured as composite walls, with insulation cavity infill material measured separately.

#### **B. Rates for Block Walls shall include for:**

1. Filling ends of hollow blocks or providing special solid closer blocks, jamb units and the like.
2. Constructing cavities, including ties.
3. Control joints.
4. Cutting or forming chases, grooves, angles and rough and fair cutting and the like.
5. Raking out joints and/or hacking face of walls as required for key.
6. Raking out joints for flashings, caulking and the like.
7. Bedding and/or pointing plates, frame surrounds, sills and the like.
8. Temporary supports around windows, door frames and the like.
9. Building in or cutting and pinning ends of lintels, woodwork, steel sections and the like.
10. Cutting or forming holes for pipes, tubes, bars, cables, conduit, ductwork and the like and mortices, sinkings, weep holes and the like, including grouting.
11. Making good all walls and making good fair face.
12. Tying to the bearing structure, a butting concrete walls and columns.
13. Building at any level or height off slabs or beams.
14. R.C. Concrete lintels and concrete stiffeners.
15. Steel reinforcement bars for lintels and stiffeners.
16. General instructions according to the manufacturer, for sand lime brick construction.
17. White cement mortar.

## **DIVISION5: METALS**

### **Preamble**

This section shall be read in conjunction with division 5 and division 8 of the Technical Specifications.

### **A. Measurement**

All metal and aluminum items are measured net as fixed all sizes given are structural sizes.

### **B. Rates**

**Rates for metalwork and aluminum shall generally include for:**

1. Cutting members to length.
2. All scribing, rebates, grooves, chamfers, splayed and rounded edges, tongued angles, beads, mouldings, fair and returned ends, miters, housing, holes for pipes, etc. and for all short or isolated lengths.
3. For all shop and site welding.
4. Grinding, drilling, countersinking, bolting, rivetting.
5. Assembling, adjusting and fixing complete.
6. All hardware and stainless steel ironmongery.

**Rates for doors, windows and door frames shall include for:**

1. Members of any section as required.
2. Welding, brazing or the like at corners, intersections or the like.
3. Opening lights.
4. Cutouts for ironmongery.
5. Flyscreens.
6. Work at jambs, or heads including expanded metal lathing, fixing cramps, wall anchors, grounds, bedding, filling frames with grout, galvanized mild steel plaster guards, motor boxes, stops, beads and caulking sealant, as necessary.
7. Reinforcement for hinges, hardware, etc.
8. Additional studs in metal partitioning.
9. Spacing blocks in metal partitioning.
10. Glazing beads.
11. Glazing strips, gaskets or other material as detailed.
12. Glazing system as described in the Bill of Quantities.
13. Master key system as specified.
14. The contractor shall be responsible for the accurate dimensions, and physical measurement shall be taken on site as executed.

## **DIVISION6: WOOD AND PLASTICS**

### **Preamble**

This section shall be read in conjunction with Division 6 and Division 8 of the Technical Specifications.

#### **A. Measurement**

All woodwork items are measured net as fixed.  
All sizes given are structural sizes.

#### **B. Rates**

**Rates for timber shall include for:**

1. Wrote faces on all timber, unless otherwise stated.
2. Nails, screws or other fixings.
3. Any length or cross-section.
4. All cutting and waste.
5. Tongued angles, dovetailed framing, halved to scarf jointing and all other types of joints.
6. Raking, curved or circular work and labours.
7. Notching, morticing, boring, sinkings, trimmings, rounded edges, scribing and all other sundry items of like nature required.
8. Plugging to concrete, or unit masonry including all making good.
9. Preparing surfaces to receive finishes.
10. Sawn grounds, sub-frames, blockings and backings.
11. Glazing beads to glazed doors and panels including fixing with caps and screws are required.
12. Easing and adjusting doors.
13. Hardware, and stainless steel ironmongery and furniture as stated for each in door schedules.
14. Three keys to each lock.
15. Sub-frames.
16. Painting and decoration.

**Rates for counters shall include for:**

1. All labour, material and shop drawings, all in compliance with relevant Detailed Drawings and Specifications.
2. Hardware, ironmongery, glazing work, beads, laminates, lacquer finishes, fixation to floors, walls and ceilings.
3. Shelves whether removable or fixed.
4. Provision for electrical conduits and the like, sanitary (if applicable).

## **DIVISION7: THERMAL AND MOISTURE PROTECTION**

### **7.1 WATER PROOFING WORK**

#### **Preamble**

This section shall be read in conjunction with division 7 of the Technical Specifications.

#### **A. Measurement**

Waterproofing work items are measured net as applied and no deduction has been made for voids not exceeding 0.50 m<sup>2</sup>.

Roof coverings are measured as a separate items.

#### **B. Rates**

##### **Rates for waterproofing shall include for:**

1. Cleaning down and preparing surface.
2. Any width or area.
3. Laying to slopes, falls or crossfalls.
4. Fair and rounded edges, drips, arrises and angle fillets.
5. Cutting to line, overlapping.
6. Skirtings shall include for all additional material required, turning into grooves and pointing, flashings and reglets where required.
7. Working into outlets, channels, gullies and the like.
8. Cutting, trimming, making holes and forming openings, eaves, verges, etc., including working around pipes and openings and making good.

##### **Rates for screed topping shall include for:**

1. Cleaning down and preparing surfaces.
2. Any width or area.
3. Finishing top surfaces to slopes, falls or crossfalls.
4. Working around outlets, gullies, pipes and the like.
5. Forming upstands including coved angle with base.
6. Trowel smooth surface finish.
7. Protective screed of thickness specified in the Specifications.

## **7.2 INSULATION AND EXPANSION JOINTS**

### **Preamble**

This section shall be read in conjunction with division 7 of the Technical Specifications.

#### **A. Measurement**

All insulation work items are measured net as fixed, no deduction has been made for voids not exceeding 0.50 m<sup>2</sup>.

All expansion joints items are measured net as fixed.

#### **B. Rates**

**Rates for insulation shall include for:**

1. Mechanical fasteners.
2. Holes and clips, etc. for through fixing of metal lathing.
3. Metal cladding or wire mesh wrapping where required.

**Rates for flashings, cappings, expansion joint covers and the like shall include for:**

1. Laps, angles, returned ends and the like.
2. Soldered or welded joints and the like.
3. Additional material at all dressing and labor.
4. Cleats, reglets and fixings.
5. Pointing or chaulking.

## **DIVISION8: DOORS AND WINDOWS**

### **GLAZING WORK**

#### **Preamble**

This section shall be read in conjunction with division 8 of the Technical Specifications..

#### **A. Measurement**

All glazing work is measured net as fixed.

All glazing is included with the relevant items into which it is to be incorporated, i.e. doors, screens, and windows unless otherwise described and shall also include for:

1. Any pattern, size and area.
2. Circular cutting and square cutting with rounded edges.
3. Spacers.
4. Glazing to wood or metal.
5. Bedding edges and labours to edges, including rounding edges of all panels to prevent damage to gaskets.
6. Stainless steel or brass ironmongery and accessories.

#### **B. Rates**

**Rates for glazing shall include for:**

1. Glass
2. Glazing beads.
3. Glazing strips, gaskets or other material as detailed.
4. Glazing system as described in the Bill of Quantities.

## **DIVISION9: FINISHES**

### **9.1 PLASTERING WORK**

#### **Preamble**

This section shall be read in conjunction with division 9 of the Technical Specifications.

#### **A. Measurement**

No deduction has been made for voids no exceeding 0.50 m<sup>2</sup>.

All in situ wall finishing are measured to finish floor.

#### **B. Rates**

##### **Rates for plastering shall include for:**

1. Application to and preparation of any surfaces including guide screeds.
2. Wire mesh at junctions between differing material, and at construction joints.
3. Any width or area, any location.
4. Finish to surfaces, to falls, crossfalls and slopes including making good after all trades.
5. Working into channels, around gullies, outlets and the like.
6. Fair joints, fair edges, rounded edges, chamfered edges, sharp arrises, rounded angles, coved angles and the like.
7. Plaster corner beads at external angles and casing beads.
8. Admixtures.
9. Control joints.
10. Waterproof additives.
11. Curing



## **9.2 TILING AND MARBLE WORK**

### **Preamble**

This section shall be read in conjunction with division 9 of the Technical Specifications.

#### **A. Measurement**

- Measurement shall be net, no deduction has been made for voids not exceeding 0.50 m<sup>2</sup>.
- Measurement shall be net, with all openings exceeding 0.25 m<sup>2</sup> deducted.

#### **B. Rates**

**Rates for in situ finishings shall include for:**

1. Supply of all materials and labour and shop drawings.
2. Application to and preparation of any surface.
3. Any width, pattern or area, any location.
4. All cuttings and waste and fitting around pipes, feet of door frames and sundry labour of a like nature.
5. Laying level or to falls.
6. All pointing and protecting from damage until the final completion of the work.
7. Grinding and polishing.
8. Sand bed and cement mortar to form a total finishing thickness as shown on drawings.
9. The provision of "Quality Control" whole room samples as mentioned in the Specification.
10. Chamfering, rebating, jointing, coving if applicable and as specified and shown on drawings.
11. Provision for any shape and pattern of marble works.
12. Cutting and filling into any opening or recessed area.
13. For glazed coloured ceramic tiles, rates shall include for laying tiles on cement mortar and rough plastered wall, backing, and the same rates shall be applicable for the alternative of use adhesives on plastered walls.
14. Marble wall cladding rate shall include, polishing, chamfering, rebates as detailed and galvanized steel suspension system.
15. Grouting and cleaning on site.
16. Mixed design for external paving materials as indicated in specification.
17. Water proof additives for mortar of ceramic walls and floors.

#### **Brass Strips**

- Brass strips and angles 25 mm. x 5 mm. between different floors and edging floors, to length as required & as shown on Drawings shall be measured separately.

### **9.3 PAINTING WORKS**

#### **Preamble**

This section shall be read in conjunction with division 9 of the Technical Specifications.

#### **A. Measurement**

Decoration to items of woodwork and metalwork has been included with the respective items of wood and/or metal e.g. doors to which it relates.

Decoration to other areas has been measured net separately in square meters.

No deduction has been made for voids not exceeding 0.50 m<sup>2</sup>.

#### **B. Rates**

##### **Rates for decoration shall include for:**

1. Preparation of paint and preparation of surfaces to be decorated.
2. Any type of work in any area or width in any location and any height.
3. Work in multi colours.
4. Cutting in edges and rubbing down between coats.
5. Sealing all knots and end grain to timber sections.
6. Making good after all trades.
7. All masking work for spray paint application by roller or machine.
8. Putty mortar floating coat under emulsion or oil paint.

##### **Rates for suspended ceilings shall include for:**

1. All fixings for support system.
2. Edge trims and angles including necessary timber grounds.
3. Corner angles to upstands.
4. Cutting and fitting around openings including grilles, registers and lighting fixtures.
5. Providing access points to space above.
6. Supplementary framing around fixtures.
7. Workshop Drawings.

## **PRELIMINARIES**

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

**PRELIMINARIES**

Item	Description of Work	Unit	Quantity	Rate	Amount
	<p><b><u>PRELIMINARIES FOR THE WORK</u></b></p> <p><b><u>GENERAL PRINCIPLES</u></b></p> <p>A The descriptions of work and the like descriptive items given throughout the Bill of Quantities must not be construed as being construed as being complete but must be taken only as an indication of the extent of such work. The Contractor shall be deemed to have also read all other related documents, schedules, specifications, amendments and all available drawings and sketches such as to be fully aware of the full extent of the Works.</p> <p>B All clauses in this Preliminaries Bill apply to the whole of the Works contained in these Bill of Quantities and the Contractor's prices shall be deemed to apply to the whole of the Works executed under the Contract including all variations to the Contract.</p> <p>C The Contractor shall be deemed to have allowed in his Tender for all costs in respect of all items described in this Preliminaries Bill.</p> <p>D In the absence of a price against any clause in this Preliminaries Bill, any costs in connection therewith shall be deemed to have been included elsewhere in the Contract Price.</p> <p>E In the computation of the Final Contract Price, following completion of the Works, no adjustment to the pricing will be made for items in this Preliminaries Bill. Any price entered in this Preliminaries Bill shall be at the sole risk of the Contractor. No claim shall be considered for additional Preliminaries items due to variations even when an extension of time has been granted.</p> <p>F In the event that no amount is inserted for any given clause in this Preliminaries Bill, then nothing will be specifically included in any payment certificates in respect of such clause.</p> <p>The Contractor will be required to provide an itemized breakdown for items in this Preliminaries Bill in the event that a lump sum has been tendered against this section.</p>				
Total to Collection Page					

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

**PRELIMINARIES**

Item	Description of Work	Unit	Quantity	Rate	Amount
	<p><b><u>GENERAL PRINCIPLES ( cont'd )</u></b></p> <p>A That proportion of any amount entered against an item in this Preliminaries Bill in respect of which substantial or whole payment might normally fall upon Contract commencement but which cannot be substantiated by the Contractor will be distributed evenly over the period within which the Works are to be completed.</p> <p>B The price entered against items in this Preliminaries Bill involving continuous expenditure or time-related cost (egg plant, supervision, etc) will be certified for payment over the period within which the Works are to be completed in direct proportion to the value of the Contractor's measured work certified (ie, the value of work executed less Preliminaries, Prime Cost and Provisional Sums)</p> <p>C Documents forming the Contract are to be taken as mutually explanatory; the amounts entered against the Preliminaries items and the measured work sections of the Bills of Quantities shall be deemed to fully allow for complying with all the requirements of the Conditions of Contract, Drawings, Specifications, and Bills of Quantities.</p> <p><b><u>Pricing generally</u></b></p> <p>D The rates and prices in the Bill of Quantities shall be deemed to include, but not be limited to the cost of all labour (including future wage increases other than Government mandated wage increases ), materials, goods and equipment all cutting and waste, duties, royalties, packing, freight, shipping insurances, warehousing or other storage cost, delivery to the Site, hoisting and fixing in the required position, plant, supervision, currency exchange rate fluctuations and all else necessary for the carrying out of all the Contract requirements including the timely and satisfactory completion of the entire Works contained, both expressly and implicitly, within the Contract.</p> <p>E The Contract shall be deemed to include for all Government taxes and import duties, fees, License</p>				
Total to Collection Page					

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

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<b><u>GENERAL PRINCIPLES ( cont'd )</u></b>				
A	For the avoidance of doubt, no claim shall be considered which arises from increases in the wages and / or other emoluments and expenses of any kind payable to workmen (other than Government-mandated wage increases), or from the increased cost of such increases coming into effect after the acceptance of the Contractor's Tender.				
B	In addition to the foregoing the Contractor shall be deemed to have satisfied himself prior to submitting his Tender, as to the meaning and import of every item of work included in these Bill of Quantities, and the rates and prices inserted by him shall be deemed to cover the entire cost of all his obligations and liabilities under the Contract and all matters and things necessary for the proper construction, completion and maintenance of the Works including but not by way of limitation, all temporary work required (including any that may be required by Sub-Contractors, Nominated or otherwise); the provision and use of all mechanical and non-mechanical plant required for the expeditious carrying out of the Works in their proper sequence, shifting, altering and adapting such temporary work and plant as may be required during the progress of the Works, removing at completion and making good any work disturbed, all necessary guarantees and bonds, the cost of preparing the Tender, the work in connection with measurement, remeasurement and computation of the Final Contract Price, other establishment charges and on costs.				
C	The Tenderer must price each and every item and clause in the Bill of Quantities which he considers has a value. If any items or clauses are not priced, it shall be deemed that they have no value or, that their value has been spread throughout the rates and prices for other items and clauses. No claim for payment in respect of unpriced items or clauses will be admitted.				
Total to Collection Page					

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

**PRELIMINARIES**

Item	Description of Work	Unit	Quantity	Rate	Amount
	<b><u>GENERAL PRINCIPLES ( cont'd )</u></b>				
A	<p>After having been awarded the Contract, the selected Contractor will be required to provide the Engineer with a full and detailed breakdown of the Contract Price. The Contract Price breakdown is to show the actual calculations of the Preliminaries pricing and the labour, plant and material cost of the Works, together with a build-up for each of the key measured rates in each trade, element or section, and showing all on-costs, overheads and profit and any other allowances used to arrive at the Contract Price.</p>				
B	<p>Any unauthorized alterations made to the text or to any quantity in these Bills of Quantities will be ignored and the original text or quantity shall prevail in all cases of unauthorized alteration.</p>				
C	<p>The descriptions included in the Bill of Quantities in respect of the workmanship and materials requirements are not necessary complete. Tenderers are referred to the Drawings, Specifications, Conditions of Contract and other documents and information for further details concerning the Works and for specific requirements in respect of any given item of work. No claim or variation will be admissible on account of the Contractor's misunderstanding in connection with the foregoing or for any error in his Tender or for his failure to acquaint himself or to have acquainted himself with such other documents and information as are referred to above.</p>				
Total to Collection Page					

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

**PRELIMINARIES**

Item	Description of Work	Unit	Quantity	Rate	Amount
	<b><u>CONDITIONS OF CONTRACT</u></b> <b><u>PART I &amp; II</u></b>				
A	1.1 Definitions				
B	1.2 Headings and Marginal Notes				
C	1.3 Interpretation				
D	1.4 Singular and Plural				
E	1.5 Notices, Consents, Approvals, Certificates and Determinations				
F	2.1 Engineer's Duties and Authority				
G	2.2 Engineer's Representative				
H	2.3 Engineer's Authority to Delegate				
I	2.4 Appointment of Assistants				
J	2.5 Instructions in Writing				
K	2.6 Engineer to Act Impartially				
L	3.1 Assignment of Contract				
M	4.1 Subcontracting				
N	4.2 Assignment of Subcontractor's Obligations				
O	5.1 Languages and Law				
P	5.2 Priority of Contract Documents				
Q	6.1 Custody and Supply of Drawings and Documents				
R	6.2 One Copy of Drawings to be kept on Site				
S	6.3 Disruption of Progress				
T	6.4 Delays and Cost of Delay of Drawings				
U	6.5 Failure by Contractor to Submit Drawings				
V	7.1 Supplementary Drawings and Instructions				
Total to Preliminaries for the Work Collection Page					



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

**PRELIMINARIES**

Item	Description of Work	Unit	Quantity	Rate	Amount
	<b><u>CONDITIONS OF CONTRACT</u></b> <b><u>PART I &amp; II ( CONT'D )</u></b>				
A	7.2 Permanent Works Designed by Contractor				
B	7.3 Responsibility Unaffected by Approval				
C	8.1 Contractor's General Responsibilities				
D	8.2 Site Operations and Methods of Construction				
E	9.1 Contract Agreement				
F	10.1 Performance Security				
G	10.2 Time Allotted for Submission				
H	10.3 Claims under Performance Security				
I	11.1 Inspection of Site				
J	12.1 Sufficiency of Tender				
K	12.2 Adverse Physical Obstructions or Conditions				
L	13.1 Work to be in Accordance with Contract				
M	14.1 Programme to be Submitted				
N	14.2 Revised Programme				
O	14.3 Cash Flow Estimate to be Submitted				
P	14.4 Contractor not Relieved of Duties or Responsibilities				
Q	15.1 Contractor's Superintendence				
R	16.1 Contractor's Employees				
S	16.2 Engineer at Liberty to Object				
T	17.1 Setting-Out				
U	18.1 Boreholes and Exploratory Excavation				
V	19.1 Safety, Security and Protection of the Environment				
W	19.2 Employer's Responsibilities				
Total to Preliminaries for the Work Collection Page					

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

**PRELIMINARIES**

Item	Description of Work	Unit	Quantity	Rate	Amount
	<b><u>CONDITIONS OF CONTRACT</u></b> <b><u>PART I &amp; II ( CONT'D )</u></b>				
A	20.1 Care of Works				
B	20.2 Responsibility to Rectify Loss or Damage				
C	20.3 Loss or Damage Due to Employer's Risks				
D	20.4 Employer's Risks				
E	21.1 Insurance of the Works and Contractor's Equipment				
F	21.2 Scope of Cover				
G	21.3 Responsibility for Amounts not Received				
H	21.4 Exclusions				
I	22.1 Damage to Persons and Property				
J	22.2 Exceptions				
K	22.3 Indemnity by Employer				
L	23.1 Third Party Insurance ( including Employer's Property )				
M	23.2 Minimum Amount of Insurance				
N	23.3 Cross Liabilities				
O	24.1 Accident or Injury to Workmen				
P	24.2 Insurance Against Accident to Workmen				
Q	25.1 Evidence and Terms of Insurances				
R	25.2 Adequacy of Insurances				
S	25.3 Remedy on Contractor's Failure to Insure				
T	25.4 Compliance with Policy Conditions				
U	26.1 Compliance with Statutes, Regulations				
V	27.1 Fossils				
W	28.1 Patent Rights				
Total to Preliminaries for the Work Collection Page					

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

**PRELIMINARIES**

Item	Description of Work	Unit	Quantity	Rate	Amount
	<b><u>CONDITIONS OF CONTRACT</u></b> <b><u>PART I &amp; II ( CONT'D )</u></b>				
A	28.2 Royalties				
B	29.1 Interference with Traffic and Adjoining Properties				
C	30.1 Avoidance of Damage to Roads				
D	30.2 Transport of Contractor's Equipment or Temporary Works				
E	30.3 Transport of Materials or Plant				
F	30.4 Waterborne Traffic				
G	31.1 Opportunities for Other Contractors				
H	31.2 Facilities for Other Contractors				
I	32.1 Contractor to Keep Site Clear				
J	33.1 Clearance of Site on Completion				
K	34.1 Engagement of Staff and Labour				
L	34.2 Supply of Water				
M	34.3 Observance by Sub-Contractors				
N	35.1 Returns of Labour and Contractor's Equipment				
O	36.1 Quality of Materials, Plant and Workmanship				
P	36.2 Cost of Samples				
Q	36.3 Cost of Tests				
R	36.4 Cost of Tests not Provided for				
S	36.5 Engineer's Determination where Tests not Provided for				
T	37.1 Inspection of Operations				
U	37.2 Inspection and Testing				
V	37.3 Dates for Inspection and Testing				
Total to Preliminaries for the Work Collection Page					

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

**PRELIMINARIES**

Item	Description of Work	Unit	Quantity	Rate	Amount
	<b><u>CONDITIONS OF CONTRACT</u></b> <b><u>PART I &amp; II ( CONT'D )</u></b>				
A	37.4 Rejection				
B	37.5 Independent Inspection				
C	38.1 Examination of Work before Covering up				
D	38.2 Uncovering and Making Openings				
E	39.1 Removal of Improper Work, Materials or Plant				
F	39.2 Default of Contractor in Compliance				
G	40.1 Suspension of Work				
H	40.2 Engineer's Determination following Suspension				
I	40.3 Suspension Lasting more than 84 Days				
J	41.1 Commencement of Works				
K	42.1 Possession of Site and Access Thereto				
L	42.2 Failure to Give Possession				
M	42.3 Wayleaves and Facilities				
N	43.1 Time for Completion				
O	44.1 Extension of Time for Completion				
P	44.2 Contractor to Provide Notification and Detailed Particulars				
Q	44.3 Interim Determination of Extension				
R	45.1 Restriction on Working Hours				
S	46.1 Rate of Progress				
T	47.1 Liquidated Damages for Delay				
U	47.2 Reduction of Liquidated Damages				
V	48.1 Taking-Over Certificate				
W	48.2 Taking-Over of Sections or Parts				
X	48.3 Substantial Completion of Parts				
Total to Preliminaries for the Work Collection Page					

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

**PRELIMINARIES**

Item	Description of Work	Unit	Quantity	Rate	Amount
	<b><u>CONDITIONS OF CONTRACT</u></b> <b><u>PART I &amp; II ( CONT'D )</u></b>				
A	48.4 Surfaces Requiring Reinstatement				
B	49.1 Defects Liability Period				
C	49.2 Completion of Outstanding Work and Remedying Defects				
D	49.3 Cost of Remedying Defects				
E	49.4 Contractor's Failure to Carry Out Instructions				
F	50.1 Contractor to Search				
G	51.1 Variations				
H	51.2 Instructions for Variations				
I	52.1 Valuation of Variations				
J	52.2 Power of Engineer to Fix Rates				
K	52.3 Variations Exceeding 20 percent				
L	52.4 Daywork				
M	53.1 Notice of Claims				
N	53.2 Contemporary Records				
O	53.3 Substantiation of Claims				
P	53.4 Failure to Comply				
Q	53.5 Payment of Claims				
R	54.1 Contractor's Equipment, Temporary Works and Materials ; Exclusive Use for the Works				
S	54.2 Employer not Liable for Damage				
T	54.3 Customs Clearance				
U	54.4 Re-export of Contractor's Equipment				
V	54.5 Conditions of Hire of Contractor's Equipment				
W	54.6 Costs for the Purpose of Clause 63				
X	54.7 Incorporation of Clause in Subcontracts				
Total to Preliminaries for the Work Collection Page					

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

**PRELIMINARIES**

Item	Description of Work	Unit	Quantity	Rate	Amount
	<b><u>CONDITIONS OF CONTRACT</u></b> <b><u>PART I &amp; II ( CONT'D )</u></b>				
A	54.8 Approval of Materials not Implied				
B	55.1 Quantities				
C	56.1 Works to be Measured				
D	57.1 Method of Measurement				
E	57.2 Breakdown of Lump Sum Items				
F	58.1 Definition of "Provisional Sum"				
G	58.2 Use of Provisional Sums				
H	58.3 Production of Vouchers				
I	59.1 Definition of "Nominated Subcontractors"				
J	59.2 Nominated Subcontractors; Objection to Nomination				
K	59.3 Design Requirements to be Expressly Stated				
L	59.4 Payments to Nominated Subcontractors				
M	59.5 Certification of Payments to Nominated Subcontractors				
N	60.1 Monthly Statements				
O	60.2 Monthly Payments				
P	60.3 Payment of Retention Money				
Q	60.4 Correction of Certificates				
R	60.5 Statement at Completion				
S	60.6 Final Statement				
T	60.7 Discharge				
U	60.8 Final Certificate				
V	60.9 Cessation of Employer's Liability				
Total to Preliminaries for the Work Collection Page					

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

**PRELIMINARIES**

Item	Description of Work	Unit	Quantity	Rate	Amount
	<b><u>CONDITIONS OF CONTRACT</u></b> <b><u>PART I &amp; II ( CONT'D )</u></b>				
A	60.10 Time for Payment				
B	60.11 Advances on Contractor's Equipment, Plant and Materials				
C	61.1 Approval only by Defects Liability Certificate				
D	62.1 Defects Liability Certificate				
E	62.2 Unfulfilled Obligations				
F	63.1 Default of Contractor				
G	63.2 Valuation at Date of Termination				
H	63.3 Payment after Termination				
I	63.4 Assignment of Benefit of Agreement				
J	64.1 Urgent Remedial Work				
K	65.1 No Liability for Special Risks				
L	65.2 Special Risks				
M	65.3 Damage to Works by Special Risks				
N	65.4 Projectile, Missile				
O	65.5 Increased Costs arising from Special Risks				
P	65.6 Outbreak of War				
Q	65.7 Removal of Contractor's Equipment on Termination				
R	65.8 Payment if Contract Terminated				
S	66.1 Payment in Event of Release from Performance				
T	67.1 Engineer's Decision				
U	67.2 Amicable Settlement				
V	67.3 Litigation or Arbitration				
W	67.4 Failure to Comply with Engineer's Decision				
Total to Preliminaries for the Work Collection Page					

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

**PRELIMINARIES**

Item	Description of Work	Unit	Quantity	Rate	Amount
	<b><u>CONDITIONS OF CONTRACT</u></b> <b><u>PART I &amp; II ( CONT'D )</u></b>				
A	68.1 Notice to Contractor				
B	68.2 Notice to Employer and Engineer				
C	68.3 Change of Address				
D	69.1 Default of Employer				
E	69.2 Removal of Contractor's Equipment				
F	69.3 Payment on Termination				
G	69.4 Contractor's Entitlement to Suspend Work				
H	69.5 Resumption of Work				
I	70.1 Increase or Decrease of Cost				
J	70.2 Subsequent Legislation				
K	70.3 Official Changes in Price of Materials				
L	70.4 No Compensation ----				
M	71.1 Currency Restrictions				
N	72.1 Rates of Exchange				
O	72.2 Currency Proportions				
P	72.3 Currencies of Payment for Provisional Sums				
Q	73.1 Structural Warranty				
R	74.1 Use of Explosives				
S	75.1 Income Tax and Other Dues				
T	75.2 No Exemption from Dues				
U	76.1 Bribery				
V	77.1 Import and Customs Laws and Regulations				
W	78.1 Privacy of Information				
X	79.1 Exemptions and Temporary Entry				
Y	80.1 Termination for Convenience of the Employer				
Total to Preliminaries for the Work Collection Page					



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

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<b><u>SPECIFICATIONS</u></b>				
A	Division 1- General Requirements				
B	Division 2- Site Work				
C	Division 3- Concrete Work				
D	Division 4- Masonry				
E	Division 5- Metals				
F	Division 6- Wood and Plastic				
G	Division 7- Thermal and Moisture Protection				
H	Division 8- Door and Windows				
I	Division 9- Finishes				
J	Division 10- Specialties				
K	Division 11- Equipment				
L	Division 12- Furnishing				
M	Division 13- Special Construction				
N	Division 14- Lift				
O	Division 15- Mechanical				
P	Division 16- Electrical				
Total to Collection Page					

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

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<b><u>SITE AND INSPECTION</u></b>				
	<b><u>Access and restrictions</u></b>				
A	The Contractor shall be solely responsible for all matters regarding access to the Site including making his own arrangements for same; the Employer is unable to guarantee the availability of any particular access route to or any particular access point into the Site.				
B	The access ways are to be kept clear and free from obstructions and the Contractor shall be deemed to have allowed in his Tender for repairing at his own expense, on completion of the Works, any damage to the existing entrance, pavement, etc.				
C	Equipment and materials required for use on the Site may not be parked, stored or left in or over the streets adjacent to the Site.				
D	Where pollution could result from the carrying out of the Works, suitable damping or other effective measures are to be taken to prevent the spread of same beyond the Site boundaries.				
E	<p>Access to the Site shall be limited as directed by the Engineer, the Employer or their authorized representatives.</p> <p>No other entry points will be allowed. Delivery schedules shall be submitted for approval to the Engineer prior to any delivery of materials, goods, and equipment being made.</p> <p>The Contractor shall also take care during the loading of debris / waste, etc or unloading of materials for the Works, to ensure that areas are not obstructed or traffic impeded, and he must comply with the instructions given in this respect by the Engineer, Employer, and their authorized representatives.</p>				
F	<p>The Contractor shall be responsible for making his own arrangements for access to the Site and he shall deemed to have allowed for any disruption, restriction on access to the areas and / or access point to the Site, temporary road closures, re-routings or diversions or any other matter which may arise in connection with access.</p> <p>No claims for additional expenses or extension of time will be entertained in connection with the foregoing. will be entertained in connection with the foregoing. The Tenderers particular attention is drawn to the fact that no queuing of the Contractor's traffic will be allowed and that all existing roads are common access roads and shall be shared with the general public.</p>				
Total to Collection Page					

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

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<p><b><u>Site visit</u></b></p>				
A	<p>Tenderers are advised to visit the Site of the Works and make themselves thoroughly acquainted with the location, general Site conditions, type of soil to be excavated, accessibility storage space, restrictions for loading and off-loading materials etc and any other conditions which may affect their Tender.</p>				
B	<p>Tenderers are advised to pay particular attention to the extent of the Works to be executed on the Site. No claim for extra payment or extension of time for completion of the Works will be allowed on the grounds of ignorance of the conditions under which the Works are to be carried out nor that the Authorities have imposed certain conditions on the carrying out of the Works.</p>				
	<p><b><u>Sub-soil conditions and Site investigation reports</u></b></p>				
C	<p>Any Site investigation reports, bore log records or other information which may be available to the Contractor are given in good faith as a guide only but without assurance as to their accuracy or applicability and without prejudice to the Contractor's liability under the Contract.</p>				
D	<p>The Tenderer shall be deemed to have been aware of to have accepted all risks arising out of any unfavorable or difficult sub-soil conditions, presence of existing reinforced concrete foundations, services, ordinance or any other obstructions whether foreseeable or unforeseeable, and the Contractor shall not be entitled to any extension of time or extra payment as compensation in respect thereof.</p>				
	<p><b><u>Site levels</u></b></p>				
E	<p>The Contractor shall, if required by the Engineer, establish his own bench mark using a nearby Government Bench Mark to be approved by the Engineer, all at the Contractor's own expense.</p>				
	<p><b><u>Contractor's responsibility to check Site conditions</u></b></p>				
F	<p>The Contractor shall be deemed to have made himself thoroughly acquainted with the location and nature of the Site and its surroundings, the access to the Site, storage and working space and all aspects of the Site and the Works which might affect his working, and to have allowed for the costs of all these in his Tender.</p>				
Total to Collection Page					

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

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<b><u>Contractor's responsibility to check Site conditions (cont'd)</u></b>				
A	<p>No claim by the Contractor for additional monetary compensation or any extension of time shall be allowed on the grounds of any misunderstanding or allowed on the grounds of any misunderstanding or misapprehension in respect of the matters referred to in respect of the foregoing or on the grounds that incorrect or insufficient information was given to in respect of the foregoing or on the grounds that incorrect or insufficient information was given to him by any person whether or not in the employ of the Employer, or that the Contractor failed to obtain correct and sufficient information; nor shall the Contractor be relieved of any risk or obligation imposed or undertaken by him under the Contract on any such grounds or on the grounds that he did not or could not have foreseen any matter which may in fact affect or have affected the execution of the Works or compliance with his other obligations under the Contract.</p>				
	<b><u>Contractor to accept Site as found</u></b>				
B	<p>The Contractor shall accept the Site as found and take possession and maintain it in good order as from actual date of possession of those areas.</p>				
C	<p>The Employer assumes and shall have no responsibility for any change in the conditions of the Site after the date fixed for the Tender submission.</p>				
D	<p>Any information which may have been available to the Tenderer shall be deemed to have been given in good faith as a guide only and no responsibility will be taken by the Employer for its accuracy or for its applicability over the whole Site.</p>				
E	<p>No claim for a variation in the Contract Price or extension of time will be allowed on the grounds of ignorance of the conditions under which the Works are to be carried out.</p>				
	<b><u>SITE CLEARANCE WORKS</u></b>				
F	<p>The Contractor shall employ and be fully responsible the services of a fully experience and competent specialist sub-contractor to remove and safety dispose of all ordinance and Archaeological remains on the Site.</p>				
Total to Collection Page					

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

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
A	<p><b><u>SITE CLEARANCE WORKS (Cont'd)</u></b></p> <p>The Contractor shall be fully responsible to properly coordinate and Programmed these Works within the Construction Programmed and shall take all necessary measures to ensure the Works are carried out safely and to the appropriate regulations.</p> <p><b><u>Soil erosion and sedimentation</u></b></p> <p>The Contractor shall be fully responsible for the complete design and provision of all Temporary Works necessary to control soil erosion and sedimentation on Site. The Contractor shall submit to the Engineer or his authorized Representative for approval his design and soil erosion and sedimentation plan for these Works. These Temporary Works shall be removed from Site upon completion of the Works unless otherwise directed by the Engineer.</p> <p>Preliminary details of these Works shall be submitted as part of Enclosure Number 4 with the Tender Documents.</p> <p><b><u>Damage by erosion</u></b></p> <p>The Contractor shall be responsible for containment of the Site including temporary access roads. In the event of any erosion, washout or collapse, he shall reinstate the Site at his own expense.</p> <p>Should any spoil or debris from the Site or from other areas affected by the Works be eroded and washed down or collapse onto Government land or private property, the Contractor shall at his own expense comply with any Government Department's instructions or the Engineer's instructions as to the removal of such spoil and debris and the carrying out of any remedial work and he shall indemnify the Employer against any expense, liability, loss, claim or proceedings arising out of any damage or nuisance caused by such erosion, washing down or collapse.</p> <p><b><u>Protection Works</u></b></p> <p>The Contractor shall amply protect all work and the Works including his own and that of all Subcontractors. No protection shall be removed until the approval of the Engineer or his authorized Representative has been obtained and it shall be the Contractor's sole responsibility for all damage sustained due to early removal and inadequate protection.</p>				
Total to Collection Page					

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

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
A	<p><b><u>TEMPORARY WORKS (cont'd)</u></b></p> <p><b><u>Protection Works ( cont'd )</u></b></p> <p>The Contractor shall be fully responsible for the complete design and provision of temporary protection works to protect the harbor and sea water area from the effects of any soils or materials that may be washed off the Landward Side of the Site and from any of the effects caused by the dredging and reclamation Works. It is envisioned that the Contractor will have to design and supply silt fencing which will be moved as the Works progresses.</p> <p>The Contractor shall submit for approval of the Engineer or his authorized Representative his complete design for such protection works.</p> <p>These Temporary Works shall be removed from Site upon completion of the Work or as further directed by the Engineer.</p> <p>Preliminary details of these Works shall be submitted as part of Enclosure No. 8 with the Tender Documents.</p> <p><b><u>Other Temporary Works</u></b></p> <p>B The Contractor shall provide all other Temporary Works items and / or carry out all other temporary work not specifically mentioned within the Contract Documents but which are / is inherently required and necessary for the execution, completion and maintenance of the Works, all of which shall be deemed to have been included in the ntractor's Tender Price.</p> <p><b><u>Removal of Temporary Works</u></b></p> <p>C The Contractor shall completely remove all Temporary Works items when their use is no longer required and clean up and repair all damage caused by installation or use of temporary facilities.</p>				
Total to Collection Page					

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

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<b><u>Engineers Office</u></b>				
A	Immediately upon possession of the Site the Contractor shall provide and maintain a suitable weather-tight office thereon for the use of the Engineer and his Assistants for 12 number people, of not less than 96 m2, fitted with lock-up desks, plan drawers and / or cupboards, plan benches, minimum of two wall mounted white boards, chairs and stools, and with kitchen and toilet accommodation attached or adjacent. The office shall be properly cleaned daily and equipped with air-conditioners, electric lights, power points, a telephone and a fax machine outlets, both with operational service lines for local and international use. The Contractor must pay all charges in connection therewith including the provision of all necessary power for the air-conditioners, lights, power points and equipment; he shall also provide and pay for, entirely at his own expense, a drinking water supply.				
B	The Contractor shall alter, adapt and / or relocate the temporary office to suit the approved programme and remove it on completion of the Works and make good or as directed by the Engineer.				
C	Details of these Works shall be submitted as part of Enclosure number 4 with the Tender Documents.				
	<b><u>Provision of Vehicles for Use by Supervision Staff</u></b>				
D	Provision of 2 No. four-wheel drive vehicle (2800 cc).				
E	Provision of 3 No. four-wheel drive double cabin pick-up vehicle (2800 cc).				
F	Expenses, overheads and profit on items A and B.				
G	Operation, maintenance, insurance and registration of vehicles for item A for the whole contract period plus two months.				
H	Operation, maintenance, insurance and registration for item B for the whole contract period plus two months.				
I	Provision of drivers				
Total to Collection Page					

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

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<p><b><u>Provision of office equipment use by Supervision Staff (including maintenance)</u></b></p> <p>A Desk top computer with the following software            - Windows 98            - Excell and Word 2000            - Auto Cad 2000</p> <p>B Photocopy machine            -paper size:A3</p> <p>C Pinter            -paper size:A3</p> <p><b><u>Walkie Talkies</u></b></p> <p>D Provide and maintain 6 sets of walkie-talkie, 3 sets as a minimum for the use of the Main Contractor and 3 sets for the use of Engineer's Site supervisory staff; arrange for licenses and pay all license fees and charges in connection therewith.</p> <p>E Upon completion of the Contract, the aforesaid 3 sets of walkie-talkie shall become the property of the Employer and shall be returned refurbished and handed over to the Employer in good working condition.</p> <p><b><u>Protective Clothing etc.</u></b></p> <p>F The Contractor shall provide at no extra cost 12 number hardhats and 12 pairs of safety boots for the use of the Engineer, his staff and visitors to the Site.</p> <p><b><u>CO-ORDINATION WITH OTHER</u></b></p> <p><b><u>Archaeological Preservation</u></b></p> <p>G The Contractor shall incorporate within his overall Construction Programme the Works as included in the Tender Documents, of the Archaeological Contractor. The provision of Clause 27.1 of the Contract Conditions shall apply.            The Contractor shall co-ordinate and co-operate with the Archaeological Specialist during the course of the Work.</p>				
Total to Collection Page					



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

**PRELIMINARIES**

Item	Description of Work	Unit	Quantity	Rate	Amount
	<b><u>PRELIMINARIES FOR THE WORK</u></b>				
	<b><u>COLLECTION</u></b>				
A	Total Page No. 1				
B	Total Page No. 2				
C	Total Page No. 3				
D	Total Page No. 4				
E	Total Page No. 5				
F	Total Page No. 6				
G	Total Page No. 7				
H	Total Page No./8				
I	Total Page No. 9				
J	Total Page No. 10				
K	Total Page No. 11				
L	Total Page No. 12				
M	Total Page No. 13				
N	Total Page No. 14				
O	Total Page No. 15				
P	Total Page No. 16				
Q	Total Page No. 17				
R	Total Page No. 18				
S	Total Page No. 19				
T	Total Page No. 20				
U	Total Page No. 21				
Total to GENERAL SUMMARY					

## **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	194,880.00
1	BILL NO. 1 TOURIST STREET	398,455.00
2	BILL NO. 2 LOWER OBSERVATION POINT	123,906.69
3	BILL NO. 3 UPPER OBSERVATION POINT	308,710.82
4	BILL NO. 4 VISITOR CENTER	54,657.14
5	BILL NO. 5 KARAK CASTLE MUSEUM	331,291.99
6	BILL NO. 6 KARAK CASTLE PATHWAY	174,982.25
	PROFIT	139,116.11
<b>Total (Carry to Form of Tender)</b>		<b>1,726,000.00</b>

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

**VOLUME III**

**BILL NO. 1 TOURIST STREET WORKS**

**PRICED COPY**

TOURISM SECTOR DEVELOPMENT PROJECT KARAK TOURISM DEVELOPMENT	TOURIST STREET BILL NO.1
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Description of Work	Amount (Carry from Collection)
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<u>SUMMARY</u>	
DIVISION-2     Site Works	309,368.50
DIVISION-15     Mechanical	75,906.50
DIVISION-16     Electrical	13,180.00

To Grand Summary	<b>398,455.00</b>
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## 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	1.50	6,375.00
	b. for existing asphalt roads and pavement up to the road bed levels.	M2	3600	1.50	5,400.00
2.2	Demolition and removal of existing exterior boundary walls as shown on Drawing No. TS.A-001.	L.M	30	25.00	750.00
2.3	Demolition and removal existing shulter behind existing boundry wall.	Item	1	300.00	300.00
2.4	Cut and remove existing trees.	No.	11	10.00	110.00
2.5	Dismantle and removal existing exterior shops thresholds 127 m total length approx.	No.	50	5.00	250.00
2.6	Relocate Salah Edden statu and refix on the New proposed location including demolish and remove structural foundation.	No.	1	400.00	400.00
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	3.00	2,700.00
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	3.50	2,450.00
2.9	Aggregate base course 20 cm thick according to section 3.03 specifications for highway and bridge construction under roads.	M3	720	7.00	5,040.00
2.9a	Pedestrian traffic allowance (Provisional Sum)	LS	1	3,000.00	3,000.00
<b>To Collection</b>					<b>26,775.00</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	120.00	720.00
2.11	Bituminous concrete wearing course 5 cm compacted thickness according to section 4.05 specifications for highway and bridge construction.	M2	1120	2.50	2,800.00
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	22.00	93,500.00
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	32.00	115,200.00
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	14.00	18,760.00
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	16.00	1,280.00
	b. Size 15x10x50 cm between proposed and existing paving as shown on Detailed Drawing No. 11/TS.A-019.	L.M	45	14.00	630.00
2.16	Ditto. as in Item 2.13 but with rounded edges for handicapped 15x30x50 cm.	L.M	130	14.00	1,820.00
<b>To Collection</b>					<b>234,710.00</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	8.00	1,120.00
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	17.00	2,720.00
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	18.00	2,484.00
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	120.00	4,200.00
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	250.00	4,000.00
<b>To Collection</b>					<b>14,524.00</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>
2.22	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 $F_y = 420 \text{ N/mm}^2$ compacted base course 15 cm, cement mortar, sandfill, pointing and making recess for lighting and all requirements as shown on Detailed Drawing No. 10&12/TS.A-019 and TS.A-022.  Overall size 600 cm diameter x 110 cm height.	Item	1	2,500.00	2,500.00
2.23	Cast iron tree grill including frame and all fixing accessories as shown on Detailed Drawing No. 4/TS.A-017. Size 100x100 cm.	No.	50	35.00	1,750.00
2.24	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.  75 cm height over ground level and 85 cm height below ground level.	No.	25	100.00	2,500.00
2.25	Ditto. but electrical bollards according to manufacturer instructions.	No.	11	150.00	1,650.00
2.26	Proposed boundary walls and parapets as shown on Detailed Drawings No. 19&20/TS.A-020.				
a.	Excavation for foundation including backfilling.	M3	32	5.00	160.00
<b>To Collection</b>					<b>8,560.00</b>

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 2 Site Work

### Tourist Street

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
b.	Plain concrete blinding Class (15).	M3	3	35.00	105.00
c.	Reinforced concrete Class (25)				
	1. for foundation.	M3	7	58.00	406.00
	2. for walls underground level.	M3	15	58.00	870.00
	3. for proposed parapets.	M3	1	58.00	58.00
d.	Ma'an Jazirah first choice stone walls including concrete backing Class 20, mortar and pointing.	M2	30	35.00	1,050.00
e.	Tyrolean plastering 2.5 cm thick.	M2	30	3.50	105.00
f.	Ma'an Jazirah first choice stone coping 32x3 cm.	L.M	30	8.00	240.00
g.	Steel reinforcement bars high tensile $f_y = 420 \text{ N/mm}^2$ .	Ton	1.5	400.00	600.00
2.27	Sweet soil for planter boxes and where required to the depth required.	M3	40	3.00	120.00
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	300.00	1,500.00
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	200.00	2,200.00
<b>To Collection</b>					<b>7,254.00</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>
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	100.00	1,500.00
2.31	Planting of large trees as shown on Drawing No. TS.L-001.				
	a. Ceratonia Siliqua 3m height.	No.	18	50.00	900.00
	b. Cercis Silquastrum 3m height.	No.	8	50.00	400.00
	c. Citrus Limon 2m height.	No.	5	50.00	250.00
	d. Robinia Pseudoacacia 3m height.	No.	18	50.00	900.00
	e. Pelargonium Domesticum 0.75m height.	No.	15	5.00	75.00
	f. Lantana Camara 0.75m height.	No.	14	5.00	70.00
2.32	<u>Boundary Wall</u>				
	a. Excavation for foundation including backfill.	M3	24	4.00	96.00
	b. Concrete blinding Class (15) 10 cm thick.	M3	2	35.00	70.00
	c. Reinforced concrete Class (25) for footing.	M3	5	58.00	290.00
	d. Reinforced concrete Class (25) for walls. 20-30 cm thick.	M3	16	58.00	928.00
	e. Deformed high yield steel bars reinforcement $f_y = 420 \text{ N/mm}^2$ .	ton	1.68	400.00	672.00
	f. Ma'an Jazirah rough Matabbeh stone cladding 5 cm thick, traditional fixing including mortar and pointing.	M2	32	32.00	1,024.00
	g. Ma'an Jazirah stone coping dressed rough Matabbeh 32x3 cm thick including mortar and pointing.	L.M	31	8.00	248.00
	h. Coloured tyrolean plaster 25 mm thick.	M2	35	3.50	122.50
2.33	Protection of existing utilities and adjacent property (Provisional Sum)	LS	1	10,000.00	10,000.00
<b>To Collection</b>					<b>17,545.50</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 2 Site Work**

**Tourist Street**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D2/1)				26,775.00
	Page (D2/2)				234,710.00
	Page (D2/3)				14,524.00
	Page (D2/4)				8,560.00
	Page (D2/5)				7,254.00
	Page (D2/6)				17,545.50
<b>To Summary</b>					<b>309,368.50</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	3.00	4,860.00
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	150.00 170.00 200.00	1,200.00 6,800.00 3,000.00
15.3	S & I Excavation and backfilling of selected materials for drainage pipes	m <sup>3</sup>	2600	5.00	13,000.00
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	6.50 67.50 10.00 12.00 15.00	4,387.50 25,650.00 3,100.00 1,380.00 600.00
15.5	S & I Excavation and backfilling of suitable materials for domestic water distribution network	m <sup>3</sup>	1830	5.00	9,150.00
15.6	S & I Galvanized steel pipe class B for house connections a. $\Phi$ 15 mm	MR.	110	3.50	385.00
15.7	S & I HDPE to galvanized steel adapter for house connections a. $\Phi$ 20 x 15 mm	No.	262	2.00	524.00
<b>To Collection</b>					<b>74,036.50</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	  35.00 45.00	  35.00 405.00
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	  60.00 75.00 85.00 95.00	  180.00 75.00 510.00 665.00
<b>To Collection</b>					<b>1,870.00</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)				74,036.50
	Page (D15/2)				1,870.00
<b>To Summary</b>					<b>75,906.50</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	134.00	5,092.00
b.	F2.	No.	16	154.00	2,464.00
c.	M1.	No.	11	104.00	1,144.00
d.	S1.	No.	5	254.00	1,270.00
16.2	S&I External lighting point.	No.	70	64.00	4,480.00
<b>To Summary</b>					<b>13,180.00</b>

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

**VOLUME III**

**BILL NO. 2 LOWER OBSERVATION POINT**

**PRICED COPY**

TOURISM SECTOR DEVELOPMENT PROJECT KARAK TOURISM DEVELOPMENT		SAMMARY SHEET
Description of Work		Amount (Carry from Collection)
<u>SUMMARY</u>		
DIVISION-2	Site Works	57,605.00
DIVISION-3	Concrete	11,222.50
DIVISION-4	Masonry Works	13,192.50
DIVISION-5	Metals	960.00
DIVISION-6	Wood and Plastic	306.00
DIVISION-7	Thermal and Moisture Protection	1,110.00
DIVISION-8	Doors and Windows	1,870.00
DIVISION-9	Finishes	9,395.10
DIVISION-10	Specialties	125.00
DIVISION-15	Mechanical	9,605.50
DIVISION-16	Electrical	18,515.09
To Grand Summary		123,906.69

## 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	2.50	750.00
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	6.00	660.00
	b. Site structures.	M3	90	6.00	540.00
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	6.00	330.00
2.4	Imported selected compacted backfill for the site according to section 02300.	M3	1300	7.00	9,100.00
2.5	Imported selected aggregate base course material. 15 cm thick placed under slabs on grade for building.	M2	79	7.00	553.00
2.6	Imported selected aggregate base course material CBR $\geq$ 80, 15-20 cm thick placed under Asphalt or stone pavement.	M3	210	7.00	1,470.00
2.7	Imported selected fill material including all necessary compaction. Subgrade layers CBR $\geq$ 20 under Asphalt Paving.	M3	232	7.00	1,624.00
2.8	Bituminous tack coat.	Ton	1	120.00	120.00
<b>To Colletion</b>					<b>15,147.00</b>

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 2 Site Work

### Lower Observation Point

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.9	Bituminous concrete wearing course 5 cm compacted thickness for roads & parking areas.	M2	640	2.50	1,600.00
2.10	Imported approved planting soil 40-50 cm thick including fertilizer.	M3	150	3.00	450.00
2.11a.	Precast concrete curb stone 12/15x30x50 cm including cement mortar 3 cm, concrete base (C15) 35x10 cm and pointing.	L.M	215	5.00	1,075.00
b.	Ditto. but for handicapped with rounded edges 15x30x50 cm.	L.M	4	5.00	20.00
2.12	Painted pavement lines and markings (TRP). 10 cm wide.	M2	8	15.00	120.00
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	20.00	10,400.00
2.14	Planting trees as shown on Drawing No. Lop.L-002.				
a.	Leumminosae, Albizia Julibrissin, Mimosa (Silk Tree).	No.	2	50.00	100.00
b.	Pinaceae, Penus Halepensis, Aleppo Pine.	No.	14	50.00	700.00
c.	Hippocastannaceae, Aescutus Hippocastanam, Horse Chesunt.	No.	6	50.00	300.00
d.	Myrtaceae, Eucalyptus Perriniana, Spinning Gum.	No.	1	50.00	50.00
e.	Saligaceae, Populus Alba, White Poplar.	No.	3	50.00	150.00
f.	Rosaceae, Prunus Cerasifera, Cherry Plum Nigra.	No.	2	50.00	100.00
g.	Agavaceae, Y. Elate, Palmilla.	No.	2	50.00	100.00
<b>To Colletion</b>					<b>15,165.00</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	5.00	125.00
	i. Parthenocissus QuinQuefolia, Vergina Creeper.	M2	40	5.00	200.00
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	10.00	80.00
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	5.00	1,415.00
	b. 10-15x26 cm stone cuts for steps.	L.M	45	14.00	630.00
	c. 10-15x20 cm stone cuts for planter edges.	L.M	23	12.00	276.00
2.17	White Ma'an Class (B) rubble stone big cuts including cement and sand mortar, recessed pointing and all fixing accessories.	M3	32	50.00	1,600.00
2.18	Black Karak big rough stone cuts including cement mortar and recessed pointing.	M3	83	70.00	5,810.00
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	35.00	5,250.00
2.20	Ma'an Sateh stone copings 3 cm thick including mortar and pointing. 30-35 cm width.	L.M	124	8.00	992.00
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	35.00	175.00
<b>To Colletion</b>					<b>16,553.00</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	58.00	1,276.00
b.	for walls 20-30 cm thick and for stone backing under and over f.f. level.	M3	92	58.00	5,336.00
c.	for slabs on grade 10 cm thick under stone pavement.	M3	50	58.00	2,900.00
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	460.00	2,760.00
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	460.00	1,150.00
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	325.00	325.00
<b>To Colletion</b>					4,235.00

## 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	25.00	325.00
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	25.00	2,550.00
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	60.00	3,420.00
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	3.50	210.00
<b>To Colletion</b>					<b>6,505.00</b>



**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 2 Site Work**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D2/1)				15,147.00
	Page (D2/2)				15,165.00
	Page (D2/3)				16,553.00
	Page (D2/4)				4,235.00
	Page (D2/5)				6,505.00
<b>To Summary</b>					<b>57,605.00</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	35.00	140.00
	b. 10 cm thick under foundations.	M3	5	35.00	175.00
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	58.00	1,276.00
	b. Columns (generally) under and over F.F.L.	M3	9	60.50	544.50
	c. Walls 20-30 cm thick under F.F.L.	M3	7	58.00	406.00
	d. Walls 20-30 cm thick over F.F.L. and parapets.	M3	20	58.00	1,160.00
	e. Slabs on grade 10 cm thick.	M3	8	58.00	464.00
	f. Suspended slabs and beams.	M3	18	60.50	1,089.00
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	400.00	3,616.00
<b>To Collection</b>					<b>8,870.50</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	400.00	192.00
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	6.00	2,160.00
<b>To Collection</b>					<b>2,352.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 3 Concrete**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D3/1)				8,870.50
	Page (D3/2)				2,352.00
<b>To Summary</b>					11,222.50

## 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	6.00	462.00
	b. 20cm thick	M2	4	9.10	36.40
	c. 15cm thick	M2	7	7.40	51.80
4.2	Hollow concrete blocks for rib slabs including using blocked ends blocks. Size 40/36x20x18 cm.	No.	520	0.40	208.00
	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	38.00	6,080.00
4.4	Ditto. but Karak black stone walls. 30 cm thick.	M2	6	40.00	240.00
4.5	Ditto, as in item (4.3) but stone cladding 5 cm thick mechanical fixing, price not include reinforced concrete backing.	M2	24	38.00	912.00
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	70.00	5,110.00
<b>To Collection</b>					<b>12,342.00</b>

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 4 Masonry

### Lower Observation Point

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
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	8.00	368.00
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	25.00	175.00
4.9	"Hebron Yatta" marble thresholds and sills 3 cm thick with half rounded edges including cement, sand mortar and pointing.	M2	7.5	25.00	187.50
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	40.00	120.00
<b>To Collection</b>					850.50

**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)				12,342.00
	Page (D4/2)				850.50
<b>To Summary</b>					13,192.50

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 5 Metal 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-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	120.00	960.00
<b>To Summary</b>					960.00



**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 6 Wood & Plastic**

**Lower Observtion 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-6	Wood & Plastic				
6.1	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.  Overall size 60x75 cm height  Price not include raised floor it shall be measured with floor finishing works.	L.M	1.70	100.00	170.00
6.2	Ditto, but upper cupboards 35x60 cm.	L.M	1.70	80.00	136.00
<b>To Summary</b>					<b>306.00</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	6.00	510.00
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	5.00	450.00
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	1.50	150.00
<b>To Summary</b>					<b>1,110.00</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;"><u>Type</u></th> <th style="text-align: left;"><u>Size</u></th> <th style="text-align: center;">No.</th> <th style="text-align: center;">Quantity</th> <th style="text-align: right;">Rate</th> <th style="text-align: right;">Amount</th> </tr> </thead> <tbody> <tr> <td>a. AW1</td> <td>125x264 cm</td> <td style="text-align: center;">No.</td> <td style="text-align: center;">1</td> <td style="text-align: right;">165.00</td> <td style="text-align: right;">165.00</td> </tr> <tr> <td>b. AW2</td> <td>260x182 cm</td> <td style="text-align: center;">No.</td> <td style="text-align: center;">1</td> <td style="text-align: right;">235.00</td> <td style="text-align: right;">235.00</td> </tr> <tr> <td>c. AW3</td> <td>60x104 cm</td> <td style="text-align: center;">No.</td> <td style="text-align: center;">4</td> <td style="text-align: right;">50.00</td> <td style="text-align: right;">200.00</td> </tr> <tr> <td>d. AD1</td> <td>100x262 cm</td> <td style="text-align: center;">No.</td> <td style="text-align: center;">1</td> <td style="text-align: right;">160.00</td> <td style="text-align: right;">160.00</td> </tr> <tr> <td>e. AD2</td> <td>100x262 cm</td> <td style="text-align: center;">No.</td> <td style="text-align: center;">1</td> <td style="text-align: right;">160.00</td> <td style="text-align: right;">160.00</td> </tr> </tbody> </table>	<u>Type</u>	<u>Size</u>	No.	Quantity	Rate	Amount	a. AW1	125x264 cm	No.	1	165.00	165.00	b. AW2	260x182 cm	No.	1	235.00	235.00	c. AW3	60x104 cm	No.	4	50.00	200.00	d. AD1	100x262 cm	No.	1	160.00	160.00	e. AD2	100x262 cm	No.	1	160.00	160.00					
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d. AD1	100x262 cm	No.	1	160.00	160.00																																					
e. AD2	100x262 cm	No.	1	160.00	160.00																																					
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>					<b>1,870.00</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	3.50	332.50
9.2	Ditto. but external plastering for parapets and where required. Total thickness 2 cm.	M2	63	3.60	226.80
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	23.10	5,728.80
9.4	European non slip ceramic floor tiles like (Terra Cotta imitation). Size 30x30x0.80 cm thick.	M2	64	21.00	1,344.00
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	125.00	625.00
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	2.00	190.00
<b>To Collection</b>					<b>8,447.10</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	3.00	189.00
9.8	Calcutta Italian marble topping 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	80.00	288.00
b.	60 cm width.	L.M	3.30	70.00	231.00
c.	60 cm max. total width, curved shape.	L.M	3.00	80.00	240.00
<b>To Collection</b>					<b>948.00</b>

THE TOURISM SECTOR DEVELOPMENT PROJECT

Division 9 Finishes

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 (D9/1) Page (D9/2)</p>				<p style="text-align: right;">8,447.10 948.00</p>
	<b>To Summary</b>				<b>9,395.10</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	25.00	125.00
<b>To Summary</b>					125.00

**Division 15 Mechanical Works**

**Lower Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
15.1	<p>Preliminaries for the mechanical works</p> <p><b>GENERAL:</b></p> <p>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.</p>				-
15.2	<p><b>ABBREVIATIONS:</b></p> <p>The following symbols and abbreviations are used in the bills, and shall have the following meanings:</p> <ul style="list-style-type: none"> <li>* BOQ : Bills of quantities</li> <li>* GSP : Galvanized steel pipe</li> <li>* HDPE : High Density Polyethylene</li> <li>* st. st : Stainless steel</li> <li>* L.S : To be measured as a Lump sum</li> <li>* MR : To be measured by Linear meter</li> <li>* M2 : To be measured by Square meter</li> <li>* M3 : To be measured by Cubic meter</li> <li>* No : To be measured by Number</li> <li>* l/s : Liters / second</li> <li>* FC : False ceiling</li> <li>* Qty : Quantity</li> <li>* Sanitary fixtures: WC handbasin, ... kitchen sink</li> <li>* S &amp; I : Supply &amp; install</li> <li>* WDB : Water distribution box</li> <li>* EXF : Extract fan</li> <li>* EWH electric water heater</li> </ul> <p><b>METHOD OF MEASUREMENT FOR PAYMENT:</b></p>				-
15.3	<p>All services: (HVAC, plumbing)</p> <p>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,</p>				-
<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.
	<ul style="list-style-type: none"> <li>- all accessories shown on the drawings or the schematic diagrams, are considered part of the equipment they are figured on, unless mentioned separately.</li>   <li>- 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.</li>   <li>- cleaning pipes from oil before installation.</li>   <li>- flushing, cleaning, and testing.</li>   <li>- water for tests, and any material for trials and tests.</li>   <li>- energy for all the works.</li>   <li>- complete maintenance for one year (guarantee period), including supply of all needed spare parts during the year.</li>   <li>- submittal of workshop drawings, prior to execution, showing all details and coordination between different services.</li>   <li>- First grease and oil fill for equipment, and refrigerant for cooling equipment.</li>   <li>- Special maintenance tools such as special keys, or special screw drivers, and any other tools needed for maintenance other than the ordinary keys.</li>   <li>- 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,</li> </ul>				-
<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 backfiling 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. 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	400.00	800.00
15.12	Ditto but for disabled	No.	2	800.00	1,600.00
15.13	S & I Vitreous China urinals with Auto flushing tank	No.	2	90.00	180.00
15.14	S & I Vitreous China counter top wash basin	No.	4	250.00	1,000.00
15.15	S & I Vitreous China pedestal type wash basin	No.	1	205.00	205.00
15.16	S & I Vitreous China wash basin for disabled	No.	2	300.00	600.00
15.17	S & I Stainless steel double bowl kitchen sink	No.	1	210.00	210.00
15.18	S & I Electric hot water heater (capacity 50 liter)	No.	2	100.00	200.00
15.19	S & I Galvanized steel 2 m <sup>3</sup> capacity water tank with its base	No.	2	180.00	360.00
15.20	S & I Float valve a. Φ 20 mm	No.	2	20.00	40.00
15.21	S & I Bronze Gate Valves a. Φ 20 mm b. Φ 32 mm	No. No.	4 1	55.00 35.00	220.00 35.00
15.22	S & I Strainer Φ 20 mm	No.	1	15.00	15.00
15.23	S & I UPVC pipes (class 10) a. Φ 50 mm b. Φ 82.4 mm c. Φ 110 mm d. Φ 160 mm	MR. MR. MR. MR.	50 10 35 30	5.60 9.00 12.00 16.00	280.00 90.00 420.00 480.00
<b>To Collection</b>					<b>6,735.00</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	15.00	15.00
15.25	S & I UPVC Floor drain a. Φ 82.4 mm with strainer and st. st. cover	No.	1	40.00	40.00
15.26	S & I a. Φ 110 mm with strainer and UPVC cover	No.	2	35.00	70.00
15.27	S & I Wall mounted extract fans with automatic shutter	No.	5	56.00	280.00
15.28	S & I Concrete drainage pipes according to BS 5911 a. Φ 150 mm	MR.	70	3.00	210.00
15.29	S & I Sewage manholes a. Depth less than or equal 1.0 m with medium duty cover	No.	2	150.00	300.00
	b. Depth greater than 1.0 m with heavy duty cover	No.	1	170.00	170.00
15.30	S & I Galvanized steel potable water pipes class B a. Φ 15 mm	MR.	55	3.50	192.50
	b. Φ 20 mm	MR.	75	5.00	375.00
	c. Φ 25 mm	MR.	15	7.00	105.00
	d. Φ 32 mm	MR.	5	11.00	55.00
15.31	S & I XLPE potable water pipes a. Φ 16 mm	MR.	90	1.50	135.00
	b. Φ 20 mm	MR.	10	2.00	20.00
15.32	S & I Chrome plated irrigation tap (Hose BiB) a. Φ 15 mm	No.	3	17.00	51.00
<b>To Collection</b>					<b>2,018.50</b>

**Division 15 Mechanical 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>
15.33	S & I Water distribution box				
	a. WDB1	No.	1	250.00	250.00
	b. WDB2	No.	1	250.00	250.00
15.34	S & I 6 kg fire extinguishers				
	a. BCF	No.	1	50.00	50.00
	b. CO <sub>2</sub>	No.	1	50.00	50.00
15.35	S & I Window type extract fan with automatic shutter, capacity 25 L/sec.	No.	4	35.00	140.00
15.36	S & I Wall mounted extract fan with automatic shutter				
	a. Capacity 20 L/sec	No.	1	56.00	56.00
	b. Capacity 60 L/sec	No.	1	56.00	56.00
<b>To Collection</b>					<b>852.00</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)				6,735.00
	Page (D15/8)				2,018.50
	Page (D15/9)				852.00
<b>To Summary</b>					<b>9,605.50</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-16	Electrical Works				
16.1	S&I Main distribution board (MDB).	No.	1	833.00	833.00
16.2	S&I Main feeding cable to MDB: 5x10 mm <sup>2</sup> CU/PVC/SWA/PVC cable.	L.M	50	5.00	250.00
16.3	S&I The following panels:				
	a. SPEL.	No.	1	467.00	467.00
	b. DBB.	No.	1	250.00	250.00
	c. DBA.	No.	1	250.00	250.00
16.4	S&I Earthing system for MDB.	L.S.	L.S.	125.00	125.00
16.5	S&I Internal lighting point.	No.	13	14.93	194.09
16.6	S&I External lighting point:				
	a. Using 6 mm <sup>2</sup> cable.	No.	28	43.00	1,204.00
	b. Using 4 mm <sup>2</sup> cable.	No.	49	22.00	1,078.00
16.7	S&I 2.5m street lighting pole (P1).	No.	6	208.00	1,248.00
16.8	S&I The following lighting fittings:				
	a. F1.	No.	31	96.00	2,976.00
	b. S1.	No.	40	221.00	8,840.00
	c. I1.	No.	11	13.00	143.00
	d. F2.	No.	2	28.00	56.00
16.9	S&I The following power points:				
	a. 13A single phase socket outlet with switch (3 pin).	No.	6	13.00	78.00
	b. Ditto. but water proof.	No.	1	20.00	20.00
	c. Hand dryer.	No.	2	167.00	334.00
<b>To Collection</b>					<b>18,346.09</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.	Water heater.	No.	2	18.00	36.00
e.	Exhaust fan.	No.	4	10.00	40.00
16.10	S&I				
a.	Telephone outlet.	No.	2	13.00	26.00
b.	10 pair telephone connection box.	No.	1	67.00	67.00
<b>To Collection</b>					<b>169.00</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)				18,346.09
	Page (D16/2)				169.00
<b>To Summary</b>					<b>18,515.09</b>

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

**VOLUME III**

**BILL NO. 3 UPPER OBSERVATION POINT**

**PRICED COPY**

TOURISM SECTOR DEVELOPMENT PROJECT KRAK TOURISM DEVELOPMENT		SUMMARY SHEET
Description of Work		Amount (Carry from Collection)
<u>SUMMARY</u>		
DIVISION-2	Site Works	137,634.00
DIVISION-3	Concrete	57,476.29
DIVISION-4	Masonry Works	40,037.50
DIVISION-6	Wood and Plastic	1,080.00
DIVISION-7	Thermal and Moisture Protection	2,268.00
DIVISION-8	Doors and Windows	4,440.00
DIVISION-9	Finishes	16,031.00
DIVISION-10	Specialties	150.00
DIVISION-15	Mechanical	12,103.25
DIVISION-16	Electrical	37,490.78
To General Summary		308,710.82

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 2 Site Work

### Upper 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	1400	2.50	3,500.00
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 and view theater.	M3	620	6.00	3,720.00
b.	Site structures.	M3	1000	6.00	6,000.00
2.3	Demolition and removal of surplus materials from site to an approved area as instructed by the engineer for existing retaining wall.	M2	50	6.00	300.00
2.4	Imported selected compacted backfill for the site according to section 02300.	M3	Nil		
2.5	Imported selected aggregate base course material. 15 cm thick placed under slabs on grade for building.	M2	188	7.00	1,316.00
2.6	Imported selected aggregate base course material CBR $\geq$ 80, 15-20 cm thick placed under Asphalt or stone pavement.	M3	185	7.00	1,295.00
2.7	Imported selected fill material including all necessary compaction. Subgrade layers CBR $\geq$ 20 under Asphalt Paving.	M3	70	7.00	490.00
2.8	Bituminous tack coat.	Ton	0.60	120.00	72.00
<b>To Collection</b>					<b>16,693.00</b>

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 2 Site Work

### Upper Observation Point

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.9	Bituminous concrete wearing course 5 cm compacted thickness for roads & parking areas.	M2	350	2.50	875.00
2.10	Imported approved planting soil 40 cm thick including fertilizer.	M3	700	3.00	2,100.00
2.11a.	Precast concrete curb stone 12/15x30x50 cm including cement mortar 3 cm, concrete base (C15) 35x10 cm and pointing.	L.M	120	5.00	600.00
b.	Ditto. but for handicapped with rounded edges 15x30x50 cm.	L.M	4	5.00	20.00
2.12	Painted pavement lines and markings (TRP). 10 cm wide.	M2	6	15.00	90.00
2.13a.	Stone pavers as shown on Detailed Drawings No. Uop.L-001 & Uop.L-003 Ma'an "Sateh" regular stone tiles 20x20x3 cm dressed rough Matabbeh placed on mortar bed 3 cm and sand fill bed 5 cm thick including joints 0.5 cm and pointing.	M2	400	20.00	8,000.00
b.	20x25x3 cm thick for tiling edges.	L.M	40	15.00	600.00
2.14	Planting trees as shown on Drawing No. Uop.L-002.				
a.	Phoenix Daetylifera, Date Palm.	No.	5	400.00	2,000.00
b.	Albizzia Julibrissin, Silk Tree.	No.	13	50.00	650.00
c.	Cedrus Atlantica, Atlas Lectar.	No.	13	50.00	650.00
d.	Laurus Nobilis.	No.	8	50.00	400.00
e.	Cupressus Sempervirents, Halian Cypress.	No.	19	50.00	950.00
f.	Melia Azedarach, China Berry.	No.	5	50.00	250.00
g.	Thuja Plicata, Western Red Cedar.	No.	4	50.00	200.00
h.	Juniperus Chinensis, Pfitzer Juniper.	No.	7	50.00	350.00
i.	Hedera Helix Parthenocissus Quinquefolia, Inglisch Ivv Verginia Creeper.	No.	4	50.00	200.00
<b>To Collection</b>					17,935.00



## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 2 Site Work

### Upper Observation Point

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.15	Extra over "allowance" for planting beds 40x40 cm as shown on Detailed Drawing No. 14/Uop.L-006, price not include materials.	No.	4	10.00	40.00
2.16	Black Karak stone patterns and tiling, roughly dressed with spacing 2-3 cm between stones including mortar and pointing.				
a.	20x10x3 cm stone cuts for pavement edges.	L.M	113	5.00	565.00
b.	20-25x3 cm stone cuts for steps.	L.M	282	10.00	2,820.00
c.	20x20x3 cm stone cuts.	M2	120	20.00	2,400.00
2.17	White Ma'an Class (B) big rough stone cuts including cement mortar, concrete fill Class (20), recessed pointing and all fixing accessories as shown on Detailed Drawing No. 5/Uop.L-004.	M3	300	50.00	15,000.00
2.18	Black Karak big rough stone cuts including cement mortar and recessed pointing.	M3	Nil		
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	270	35.00	9,450.00
2.20	Ma'an Sateh stone copings 3 cm thick including mortar and pointing.				
a.	30-35 cm width.	L.M	106	8.00	848.00
b.	45 cm width.	L.M	28	12.00	336.00
2.21	Black Karak stone steps dressed Matabbeh in one piece including mortar and pointing as shown on Detailed Drawing No. 3/Uop.L-003. 33 cm width x 15 cm height.	L.M	230	17.00	3,910.00
2.22	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	54	35.00	1,890.00
<b>To Collection</b>					<b>37,259.00</b>

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 2 Site Work

### Upper Observation Point

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.23	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	168	58.00	9,744.00
	b. for walls 20-30 cm thick and for stone backing under and over f.f. level.	M3	328	58.00	19,024.00
	c. for slabs on grade 10 cm thick under stone pavement and cement tiles.	M3	76	58.00	4,408.00
2.24	Septic tank system Complete septic tank and percolating tank including the followings:	Item	1	2,000.00	2,000.00
	a. Excavation and backfilling.				
	b. Reinforced concrete (C25) with sulphate resistant Portland cement including formwork for walls, slabs, floors and where required.				
	c. Deformed high yield steel bars reinforcement of characteristic strength fy = 420 N/mm <sup>2</sup> including hooks, tying wires, distance block and spacers.				
	d. PVC water stop strips 25 cm wide.				
	e. 80x80 cm heavy weight cast iron cover . (1 No.)				
	f. Galvanized steel pipes cat ladder 3/4 inch rust proof primer and painting. (1 No.)  Overall size 660x360cm x depth 300-				
2.25	Hollow concrete blockwalls behind stone walls.  10 cm thick.	M2	55	6.00	330.00
<b>To Collection</b>					35,506.00

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 2 Site Work

### Upper Observation Point

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.26	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. 15/Uop.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	325.00	325.00
2.27	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/Uop.L-003.	L.M	62	25.00	1,550.00
2.28	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/Uop.L-004. Overall height 45 cm for boundry walls.	L.M	Nil		
2.29	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. 9&10/Uop.L-005.	M2	75	60.00	4,500.00
2.30	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	510	3.50	1,785.00
<b>To Collection</b>					<b>8,160.00</b>

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 2 Site Work

### Upper Observation Point

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.31	Black Karka stone steps including light weight concrete, cement mortar and pointing.				
a.	33x3 cm treads.	L.M	28	12.00	336.00
b.	11.75x2 cm thick risers.	L.M	38	5.00	190.00
2.32	Ma'an (Sateh) stone treads dressed rough Matabbeh for outdoor theatre 45 cm width x 60 x 5 cm thick with half rounded edges including mortar and pointing as shown on Detailed Drawing No. (10/Uop.A-015).	L.M	150	22.00	3,300.00
2.33	Ma'an "Sateh" stone tiles dressed rough Matabbeh for outdoor theatre as shown on Detailed Drawing No. 10/Uop.A-015. 45x30x3 cm and 60x25x3 cm.	M2	175	25.00	4,375.00
2.34	UPVC weep holes 4" diameter at 2m spacing horizontally including aggregate filter as shown on Detailed Drawing No. 5/Uop.L-004. 65 cm length approx.	No.	120	4.00	480.00
2.35	Cement tiles 40x40x4 cm Class A including cement mortar, sandfill, and pointing as shown on Detailed Drawing No. 13/Uop.L-006.	M2	120	5.00	600.00
2.36	Deformed high yield steel bar reinforcement of characteristic strength $FY=420 \text{ N/mm}^2$ , including, hooks, tying wires, distance block and spacers	Ton	28	400.00	11,200.00
2.37	Deformed mild steel bar reinforcement of characteristic strength $FY=275 \text{ N/mm}^2$ including bending, hooks, tying wires distance blocks and spacers.	Ton	4	400.00	1,600.00
<b>To Collection</b>					<b>22,081.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 2 Site Work**

**Upper Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D2/1)				16,693.00
	Page (D2/2)				17,935.00
	Page (D2/3)				37,259.00
	Page (D2/4)				35,506.00
	Page (D2/5)				8,160.00
	Page (D2/6)				22,081.00
<b>To Summary</b>					<b>137,634.00</b>

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 3 Concrete

### Upper 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 (C 15), 15N/mm <sup>2</sup> at 28day compressive strength with ordinary Portland cement				
	a. 5 cm thick under slabs on grade.	M3	11	35.00	385.00
	b. 10 cm thick under foundations.	M3	27	35.00	945.00
3.2	Plain concrete (C20), 20N/mm <sup>2</sup> at 28days compressive strength with ordinary Portland cement for walls 20-30 cm thick.				
	Cast in place	M3	4	40.00	160.00
3.3	Reinforced concrete (C25), 25 N/mm <sup>2</sup> at 28days compressive strength with ordinary Portland cement .				
	a. Foundations, footings and grade beams.	M3	100	58.00	5,800.00
	b. Columns (generally) under and over F.F.L.	M3	6	60.50	363.00
	c. Walls 20-30 cm thick under F.F.L..	M3	81	58.00	4,698.00
	d. Walls 20-30 cm thick over F.F.L and parapets.	M3	250	58.00	14,500.00
	e. Slabs on grade 10cm thick.	M3	20	58.00	1,160.00
	f. Suspended slabs and beams.	M3	53	60.50	3,206.50
3.4	Ditto. as in Item No. (3.3) for stepped slab of view theatre.				
		M3	54	58.00	3,132.00
<b>To Collection</b>					<b>34,349.50</b>

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 3 Concrete

### Upper Observation Point

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
3.5	Deformed high yield steel bar reinforcement of characteristic strength $FY=420 \text{ N/mm}^2$ , including, hooks, tying wires, distance block and spacers	Ton	56.04	400.00	22,416.00
3.6	Deformed mild steel bar reinforcement of characteristic strength $FY=275 \text{ N/mm}^2$ including bending, hooks, tying wires distance blocks and spacers.  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	Ton	1.73	400.00	692.00
3.7	Ordinary formwork complete as per specification	m2	3.131	6.00	18.79
<b>To Collection</b>					23,126.79

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 3 Concrete**

**Upper Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D3/1)				34,349.50
	Page (D3/2)				23,126.79
<b>To Summary</b>					<b>57,476.29</b>



## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 4 Masonry

### Upper 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, bond beams and lintels.				
	a. 10cm thick	M2	200	6.00	1,200.00
	b. 10 cm thick behind water proofing retaining walls under ground level.	M2	365	6.00	2,190.00
	c. 15cm thick	M2	Nil		
	d. 20cm thick	M2	Nil		
4.2	Hollow concrete blocks for rib slabs including using blocked ends blocks. Size 40/36x20x24 cm.	No.	1800	0.45	810.00
	Natural Stone				
4.3	Ma'an Sateh stone walls Class A dressed Rough Mattabeh 25 cm course stone, 5 cm thick, traditional fixing including cement mortar, backing Class (20), concrete 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	130	38.00	4,940.00
4.4a.	Ditto, as in item (4.3) but stone cladding 5 cm thick, mechanical fixing, price not include reinforced concrete backing.	M2	750	38.00	28,500.00
	b. for external columns including concrete backing Class (20). Size 30x50x320 cm.	M2	10	45.00	450.00
<b>To Collection</b>					38,090.00

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 4 Masonry

### Upper Observation Point

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
4.5	Ma'an Sateh stone copings mechanically dressed "Matabbeh" including cement and sand mortar bed and groove water drip 1x1 cm.				
a.	4-5 cm thick x 35 cm wide.	L.M	73	8.00	584.00
b.	30x5 cm thick for theatre parapets.	L.M	117	8.00	936.00
4.6	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	Nil		
4.7	"Hebron Yatta" marble thresholds and sills 3 cm thick with half rounded edges including cement, sand mortar and pointing.	M2	7.5	25.00	187.50
4.8	Ma'an Sateh stone steps dressed smooth Matabbeh including cement mortar and pointing as shown on detailed Drawing No. 13/Uop.A-016.				
a.	Stone treads 33x3 cm thick.	L.M	12	15.00	180.00
b.	Stone risers 14x2 cm thick.	L.M	12	5.00	60.00
<b>To Collection</b>					1,947.50

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 4 Masonry**

**Upper Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D4/1)				38,090.00
	Page (D4/2)				1,947.50
<b>To Summary</b>					<b>40,037.50</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 6 Wood & Plastic**

**Upper Observtion Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-6	Wood & Plastic				
6.1	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.  Overall size 60x75 cm height  Price not include raised floor it shall be measured with floor finishing works.	L.M	6	100.00	600.00
6.2	Ditto, but upper cupboards 35x60 cm.	L.M	6	80.00	480.00
<b>To Summary</b>					1,080.00

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 7 Thermal and Moisture Protection

### Upper 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 fillet as shown on Detailed Drawing No. 5/Lop.A-009.	M2	28	6.00	168.00
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	180	6.00	1,080.00
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	200	1.50	300.00
7.4	Damp-proof coating for basement, retaining walls, cold applied rubberized bituminous emulsion providing a dry film thickness of not less than 1mm thick after application.	M2	360	2.00	720.00
<b>To Summary</b>					2,268.00

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 8 Doors and Windows

### Upper 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. Uop.A-017.	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. Uop.A-017.				
	<u>Type</u> <u>Size</u>				
	a. AW1      158x182 cm	No.	2	140.00	280.00
	b. AW2      120x182 cm	No.	1	110.00	110.00
	c. AW3      300x182 cm	No.	2	270.00	540.00
	d. AW4      100x130 cm	No.	2	65.00	130.00
	e. AW5      80x104 cm.	No.	4	50.00	200.00
	f. AW6      137x182 cm.	No.	2	125.00	250.00
	g. AD1      100x214 cm	No.	3	130.00	390.00
	h. AD2      180x214 cm	No.	1	230.00	230.00
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.				
<b>To Collection</b>					2,130.00

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 8 Doors and Windows**

**Upper Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<u>Type</u> <u>Size</u>				
a.	TD1      100x214 cm	No.	4	170.00	680.00
b.	TD2      80x214 cm	No.	6	140.00	840.00
c.	TD3      100x208 cm	No.	2	170.00	340.00
d.	TD4      90x208 cm	No.	3	150.00	450.00
<b>To Collection</b>					<b>2,310.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 8 Doors and Windows**

**Upper Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D8/1)				2,130.00
	Page (D8/2)				2,310.00
<b>To Summary</b>					<b>4,440.00</b>



## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 9 Finishes

### Upper 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	260	3.50	910.00
9.2	Ditto. but external plastering for parapets and where required. Total thickness 2 cm.	M2	20	3.60	72.00
9.3	European ceramic wall tiles first choice with special form pieces for corners, angles, coved skirting and radial tile for stop end.				
a.	Size 15x20x0.6 cm thick.	M2	430	23.10	9,933.00
b.	Locally ceramic tiles 15x20x0.60 cm thick.	M2	12	12.00	144.00
9.4	European non slip ceramic floor tiles like (Terra Cotta imitation). Size 30x30x0.80 cm thick.	M2	162	21.00	3,402.00
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/Uop.A-014. Size 60 cm width x 30 cm height.	L.M	6	125.00	750.00
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	260	2.00	520.00
<b>To Collection</b>					<b>15,731.00</b>

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 9 Finishes

### Upper 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	20	3.00	60.00
9.8	Extra over for making future opening in walls as shown on Drawing No. Uop.A-012 section C-C.				
a.	Size 175x200 cm.	No.	2	30.00	60.00
b.	Size 150x200 cm.	No.	5	30.00	150.00
9.9	Sand fill under steps of theatre as shown on Detailed Drawing No. 12/Uop.A-015.	M3	5	6.00	30.00
<b>To Collection</b>					<b>300.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 9 Finishes**

**Upper Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D9/1)				15,731.00
	Page (D9/2)				300.00
<b>To Summary</b>					<b>16,031.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 10 Specialties**

**Upper 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/Uop.A-014.	M2	6	25.00	150.00
<b>To Summary</b>					150.00

**Division 15 Mechanical Works**

**Upper 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>
15.1	S & I Vitreous China type EWC	No.	1	400.00	400.00
15.2	Ditto but concealed type	No.	4	400.00	1,600.00
15.3	Vitreous Chian EWC	No.	1	800.00	800.00
15.4	S & I Vitreous China Urinals with Auto flushing tank	No.	3	90.00	270.00
15.5	S & I Vitreous China counter top wash basin	No.	5	250.00	1,250.00
15.6	S & I Vitreous China pedestal type wash basin	No.	1	205.00	205.00
15.7	S & I Vitreous China wash basin for disabled	No.	1	300.00	300.00
15.8	S & I Stainless steel single bowl kitchen sink	No.	2	210.00	420.00
15.9	S & I Electric hot water heater		2		
	a. EWH1	No.	4	100.00	400.00
	b. EWH2	No.	1		
15.10	S & I Galvanized steel 2 m <sup>3</sup> capacity water tank with its base	No.	3	220.00	660.00
15.11	S & I Float valve				
	a. Φ 20 mm	No.	3	20.00	60.00
15.12	S & I Bronze Gate Valves (PN16)				
	a. Φ 20 mm	No.	6	55.00	330.00
	b. Φ 25 mm	No.	2	35.00	70.00
15.13	S & I Strainer Φ 20 mm	No.	1	15.00	15.00
<b>To Collection</b>					<b>6,780.00</b>

**Division 15 Mechanical Works**

**Upper 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>
15.14	S & I UPVC drainage pipes (class 10)				
	a. $\Phi$ 50 mm	MR.	40	5.60	224.00
	b. $\Phi$ 82.4 mm	MR.	15	9.00	135.00
	c. $\Phi$ 110 mm	MR.	35	12.00	420.00
	d. $\Phi$ 160 mm	MR.	50	16.00	800.00
15.15	S & I UPVC Floor drain				
	a. $\Phi$ 50 mm with strainer and UPVC cover	No.	1	15.00	15.00
	b. $\Phi$ 110 mm with strainer and UPVC cover	No.	2	15.00	30.00
15.16	S & I				
	a. $\Phi$ 50 mm wall type clean out complete with st. st. cover	No.	1	40.00	40.00
	b. $\Phi$ 110 mm wall type clean out complete with st. st. cover	No.	1	40.00	40.00
15.17	S & I HDPE pipes				
	a. $\Phi$ 63 mm	MR.	34	18.00	612.00
	b. $\Phi$ 50 mm	MR.	10	15.00	150.00
	c. $\Phi$ 40 mm	MR.	10	12.00	120.00
	d. $\Phi$ 32 mm	MR.	24	10.00	240.00
15.18	S & I Sewage manholes				
	a. Depth less than or equal 1.0 m with medium duty cover	No.	5	150.00	750.00
	b. Depth greater than 1.0 m with heavy duty cover	No.	1	170.00	170.00
15.19	S & I Galvanized steel potable water pipes class B				
	a. $\Phi$ 20 mm	MR.	15	5.00	75.00
15.20	S & I XLPE potable water pipes				
	a. $\Phi$ 16 mm	MR.	120	1.50	180.00
15.21	S & I Chrome plated irrigation tap (Hose BiB)				
	a. $\Phi$ 15 mm	No.	3	17.00	51.00
<b>To Collection</b>					<b>4,052.00</b>

**Division 15 Mechanical Works**

**Upper 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>
15.22	S & I Water distribution box (WDB)				
	a. WDB1	No.	1	120.00	120.00
	b. WDB2	No.	1	150.00	150.00
	c. WDB3	No.	1	180.00	180.00
	d. WDB4	No.	1	220.00	220.00
15.23	S & I 6 kg fire extinguishers				
	a. BCF	No.	2	50.00	100.00
	b. CO <sub>2</sub>	No.	2	50.00	100.00
15.24	S & I Extract fan as per schedule				
	a. CEXF.1	No.	1	35.00	35.00
	b. CEXF.2	No.	1	35.00	35.00
	c. CEXF.3	No.	2	35.00	70.00
	e. EXF.4	No.	1	35.00	35.00
	f. EXF.5	No.	1	35.00	35.00
	g. EXF.6	No.	1	35.00	35.00
15.25	S & I Air admittance valve				
	a. $\phi$ 110 mm	No.	3	30.00	90.00
	b. $\phi$ 50 mm	No.	2	20.00	40.00
15.26	S & I Galvanized steel exhaust duct work (0.6 mm thick)	m <sup>2</sup>	15	1.75	26.25
<b>To Collection</b>					1,271.25

**Division 15 Mechanical Works**

**Upper Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D15/1)				6,780.00
	Page (D15/2)				4,052.00
	Page (D15/3)				1,271.25
<b>To Summary</b>					<b>12,103.25</b>



**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 16 Electrical Works**

**Upper 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	1,500.00	1,500.00
16.2	S&I Main feeding cable to MDB: 4x70+1x35mm <sup>2</sup> CU/PVC/SWA/PVC cable.	L.M	50	17.00	850.00
16.3	S&I The following panels:				
a.	D1.	No.	1	250.00	250.00
b.	D2.	No.	1	250.00	250.00
c.	D3.	No.	1	250.00	250.00
d.	DBG.	No.	1	334.00	334.00
e.	DBA.	No.	1	250.00	250.00
f.	DBK.	No.	1	334.00	334.00
g.	CP.	No.	1	975.00	975.00
h.	SPEL	No.	1	688.00	688.00
16.4	S&I Earthing system for MDB.	L.S.	L.S.	125.00	125.00
16.5	S&I Internal lighting point.	No.	46	14.93	686.78
16.6	S&I External lighting point.	No.	148	22.00	3,256.00
16.7	S&I The following feeding cables to high masts: 5x4 CU/PVC/SWA/PVC.	L.M	60	3.00	180.00
16.8	S&I				
a.	M1 (12m high mast) including all flood lights.	No.	1	4,125.00	4,125.00
b.	M2 (8m high mast) including all flood lights.	No.	2	3,958.00	7,916.00
16.9	S&I The following lighting fittings:				
a.	S1.	No.	7	203.00	1,421.00
b.	S2.	No.	14	203.00	2,842.00
<b>To Collection</b>					<b>26,232.78</b>

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 16 Electrical Works

### Upper Observation Point

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
c.	S3.	No.	17	222.00	3,774.00
d.	F4.	No.	80	57.00	4,560.00
e.	H1.	No.	30	26.00	780.00
f.	F2.	No.	3	37.00	111.00
g.	I2.	No.	14	17.00	238.00
h.	F3.	No.	1	12.00	12.00
i.	II.	No.	14	14.00	196.00
j.	F1.	No.	10	47.00	470.00
k.	E1.	No.	4	50.00	200.00
16.10	S&I The following power points:				
a.	13A single phase socket outlet with switch (3 pin).	No.	26	13.00	338.00
b.	Hand dryer.	No.	2	167.00	334.00
c.	Water heater.	No.	5	18.00	90.00
d.	Exhaust fan.	No.	1	10.00	10.00
16.11	S&I				
a.	Telephone outlet.	No.	6	13.00	78.00
b.	10 pair telephone connection box.	No.	1	67.00	67.00
<b>To Collection</b>					<b>11,258.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 16 Electrical Works**

**Upper Observation Point**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D16/1)				26,232.78
	Page (D16/2)				11,258.00
<b>To Summary</b>					<b>37,490.78</b>

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

**VOLUME III**  
**BILL NO. 4 VISITOR CENTRE**

**PRICED COPY**

TOURISM SECTOR DEVELOPMENT PROJECT KARAK TOURISM DEVELOPMENT		VISITOR CENTRE BILL NO.4
Description of Work		Amount (Carry from Collection)
<u>SUMMARY</u>		
DIVISION-2	Site Works	1,906.00
DIVISION-4	Masonry Works	4,194.00
DIVISION-5	Metals	150.00
DIVISION-6	Wood and Plastic	4,020.00
DIVISION-8	Doors and Windows	575.00
DIVISION-9	Finishes	10,134.20
DIVISION-11	Equipment	1,600.00
DIVISION-12	Furnishing	6,860.00
DIVISION-15	Mechanical	10,077.00
DIVISION-16	Electrical	15,140.94
To Grand Summary		54,657.14

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 2 Site Work

### Visitor Centre

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-2	Site Work				
	Demolition and Removal				
2.1	Demolish and remove carefully existing counter eight metre length approx. and handover to the owner.	Item	1	120.00	120.00
2.2	Demolish and remove existing block walls including making good to walls and ceilings to receive new finishings and cart-away debris material outside the site to an approved area.	M2	80	1.50	120.00
2.3	Dismantle, maintain and reinstall wooden doors with frames and architraves including painting in 3 coats system. Size 100x280 cm.	No.	2	30.00	60.00
	Size 80x200 cm (for toilets).	No.	4	10.00	40.00
2.4	Dismantle and handover to the owner wooden doors.	No.	3	10.00	30.00
2.5	Dismantle and handover to the owner kitchen sink and fittings.	No.	1	20.00	20.00
2.6	Dismantle and remove all existing electrical installations and handover to the owner.	Item	1	300.00	300.00
2.7	Remove existing floor tiles and skirting complete with bedding material and make good floor to receive new finishings.	M2	175	2.00	350.00
2.8	Maintain existing windows such as but not limited hardware, ironmongery, sealant, painting and all requirements according to engineer's instructions.	M2	27	8.00	216.00
2.9	Maintain existing wooden and metal doors including hardware, ironmongery, painting and all requirements according to engineer's instructions.	No.	10	20.00	200.00
2.1	Maintain existing ceramic floor tiles at toilets and reinstall same as the existing quality ceramic floor tiles.	L.S.	1	100.00	100.00
<b>To Collection</b>					<b>1,556.00</b>

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 2 Site Work

### Visitor Centre

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
2.11	Maintain existing skylight including painting, sealant and all requirements according to engineer's instructions. Size 178x120 cm.	Item	1	50.00	50.00
2.12	Dismantle, maintain and reinstall terrace handrail 75 cm height including painting in 2 coats and all fixing accessories according to engineer's instructions and Detailed Drawings No. 8/VCA-008.	L.M	30	5.00	150.00
2.13	Dismantle and reinstall wash basin at toilets according to the new located.	No.	1	100.00	100.00
2.14	Demolish and remove existing block walls at toilets including making good to walls and ceiling, price includes install timber doors frames at new location.	L.S.	1	50.00	50.00
<b>To Collection</b>					<b>350.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 2 Site Work**

**Visitor Centre**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D2/1)				1,556.00
	Page (D2/2)				350.00
<b>To Summary</b>					1,906.00



**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 4 Masonry**

**Visitor Centre**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate J.D.</b>	<b>Amount J.D.</b>
D-4	Masonry				
4.1	Hollow concrete block walls grade (3.5) for partitions including mortar and R.C. lintels. 20 cm height.				
a.	15 cm thick.	M2	28	6.00	168.00
b.	10 cm thick.	M2	12	4.00	48.00
4.2	Ma'an "Sateh" stone floor tiles dressed Matubbeh of the fine texture.  Size 40x40x3 cm and 40x20x3 cm.	M2	35	25.00	875.00
4.3	Karak Basalt stone belt dressed Matubbeh of the fine textured.				
a.	40x10x3 cm.	L.M	30	5.00	150.00
b.	40x20x3 cm.	L.M	27	9.00	243.00
4.4	Ma'an stone skirting with half rounded edges. 10 cm height x 2 cm thick.	L.M	23	3.00	69.00
4.5	Local marble skirting (Hebron, Yatta) 10x1.5 cm with half rounded edges.	L.M	43	2.00	86.00
4.6	Local marble thresholds "Hebron, Yatta" as shown on Detail No. 2/VC.A-007. 3 cm thick with half rounded edges.	M2	12	25.00	300.00
4.7	Ma'an Sateh stone cladding 3 cm thick mechanically dressed Matabbeh, mechanically fixing to existing concrete columns 33 cm coarse stone, 18 cm height for topping coarse stone as shown on Detailed Drawing No. 8/VC.A-008, including concrete backing, mortar, recessed pointing and skirting 10 cm.	M2	13	35.00	455.00
4.8	Maintain and repointing existing stone walls and ceiling using special mortar according to engineer and DOA instructions.	M2	300	6.00	1,800.00
<b>To Summary</b>					<b>4,194.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 5 Metal Works**

**Visitor Centre**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-5	Metal Works				
5.1	Metal ladder fixed to external elevation as shown on Detailed Drawing No. (VC.A-010) including welding, hinges, anchors, plates, ring protection, epoxy paint and all necessary fittings and fixing. Total height 510 cm.	No.	1	150.00	150.00
<b>To Summary</b>					150.00

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 6 Wood Work

### Visitor Centre

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-6	Wood Work				
6.1	Wood cladding decoration comprised of 18 mm oak veneered block boards light brown colour fixed on pine wood frames 2.5x5 cm and 2.5x10 cm bolted to walls, 3x5 cm oak wood moulding painted dark brown colour, 1x1 cm recessed beech wood lipping painted dark brown colour, including painting, varnish painting and all fixing accessories as shown on Detailed Drawing No. 3/VC.A-007.				
	Total height 73 cm.	M2	27	120.00	3,240.00
6.2	Reception counter comprised of concrete wall Class (20) 20 cm thick, Ma'an Sateh stone wet cladding 5 cm thick dressed Matabeh including grooves 2x2 cm, mortar 3 cm, and pointing, internal plastering and acrylic emulsion painting to concrete wall, 18-22 mm oak veneered block boards lacquer paint (chest nut) with oak wood lipping 2x4 cm and 2x5 cm for toping and sides of lower counter, 2.5x5 cm pine wood frames for sides of lower counter including all fixing accessories as shown on Detailed Drawings No. 7/VC.A-008.				
	Size 40 cm x 100 cm height over f.f.l. front elevation and 50x62 cm height for backing elevation.	L.M	3.25	240.00	780.00
<b>To Summary</b>					<b>4,020.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 8 Doors and Windows**

**Visitor Centre**

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. VC.A-010.				
	SD2 104x259 cm.	No.	2	220.00	440.00
8.2	Wood doors and frames 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, pipe wood stile 4.50x10 cm, including stainless steel hardware and ironmongery, varnish paint, cylindrical Italian locks and all fixing accessoires as shown on Drawing No. VC.A-010.				
	<u>Type</u> <u>Size</u> TD2      72x220 cm.	No.	1	135.00	135.00
<b>To Summary</b>					<b>575.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 9 Finishes**

**Visitor Centre**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate J.D.</b>	<b>Amount J.D.</b>
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	440	3.50	1,540.00
9.2	European non slip ceramic floor tiles like terracotta - size 30x30x1 cm.	M2	7	21.00	147.00
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	72	23.10	1,663.20
9.4	Terrazzo floor tiles 30x30x3 cm.	M2	73	6.00	438.00
9.5	Floor carpeting comprised of primary backing polypropylene/jute, backing of plain foam and anti static latex. Construction: double woven heavy duty. Pile yarn composition: 50% wool, 50% polyamide (nylon) Pile weight: 900 g/m <sup>2</sup> Total weight including backing: 2400 g/m <sup>2</sup> Total height: 9.5 mm Surface: aspect cut plain with pattern, fire resistance including preparation, underlayment cushion 10 mm thick, adhesive, tackless stripping, carpet gripper, protection and all accessories according to approved sample.	M2	78	35.00	2,730.00
9.6	Emulsion acrylic base paint in one priming coat and three finishing coats including full coverage of surfaces with two coats of putty.  To walls and ceilings.	M2	440	2.00	880.00
<b>To Collection</b>					<b>7,398.20</b>

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 9 Finishes

### Visitor Centre

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
9.7	Gypsum board suspended ceiling perimeter 12.5 mm thick fire and moisture resistance including suspension system, grooves, edge trims, air diffusers and joints treatment.	M2	25	20.00	500.00
9.8	Acoustical mineral fiber tiles suspended false ceiling 60x60x1.6 cm Bevel edges kerfed and back cut, natural fissured and fire resistance including suspension system from the same manufacturer Celotex, OWA or equivalent.	M2	53	25.00	1,325.00
9.9	Powder coated aluminum strips 10 cm wide suspended ceiling including suspension system.  For toilets and kitchen.	M2	19	20.00	380.00
9.10a.	Oak wood cornice 2x11 cm between different suspended ceilings including lacquer paint chest nut colour as shown on Detailed Drawing No. 6/VC.A-008.	L.M	35	9.00	315.00
b.	Ditto. but 2.5x10 cm.	L.M	36	6.00	216.00
<b>To Collection</b>					<b>2,736.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 9 Finishes**

**Visitor Centre**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D9/1)				7,398.20
	Page (D9/2)				2,736.00
<b>To Summary</b>					10,134.20

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 11 Equipment**

**Visitor Centre**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate J.D.</b>	<b>Amount J.D.</b>
D-11	Equipment				
11.1	Personal computer Pentium III, 450 MHz - 128 RAM memory, CD-ROM 40X, Floppy drive 3.5", 8.4 GB hard drive, fax modem, monitor 15", laser printer and licensed software.	Item	1	1,500.00	1,500.00
11.2	Outdoor mail box.	No.	1	100.00	100.00
<b>To Summary</b>					1,600.00



## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 12 Furnishings

### Visitor Centre

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
D-12	Furnishings				
12.01	Multi purpose chairs manufactured by (FIGURAS) Spain, movable type Model VENUS 8130-T4 or equivalent. Size 58x57x76 cm.	No.	63	90.00	5,670.00
12.02	Ready made local manufacturer offices furniture JWICO, Forum or equivalent comprised of block boards (Latee) 18 mm with beech wood lippings 1.5 cm thick and faced with hard PVC sheets 1 mm thick, stove painted steel frames, including drawers unit, shelves, vision panels, hardware and varnish paint, according to manufacturer specifications				
a.	Personnel desk 180x80x72 cm.	No.	1	200.00	200.00
b.	Side unit 120x47x66 cm.	No.	1	140.00	140.00
c.	Personnel desk 160x72x72 cm.	No.	2	160.00	320.00
d.	Armed manager chair.	No.	1	50.00	50.00
e.	Armed chairs.	No.	2	40.00	80.00
f.	Wall unit with glazed two leaves, wood leaves and shelves. Size 169x80x42 cm.	No.	2	200.00	400.00
<b>To Summary</b>					<b>6,860.00</b>

**Division 15 Mechanical Works**

**Visitor Center**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate J.D.</b>	<b>Amount J.D.</b>
15.1	D & R Existing AWC	No.	2	30.00	60.00
15.2	D & R Existing kitchen sink	No.	1	25.00	25.00
15.3	S & I Virteous China EWC	No.	2	150.00	300.00
15.4	S & I Single bowl kitchen sink	No.	1	80.00	80.00
15.5	S & I  All GSP for potable water from the existing service including replacement of any damaged pipes from the existing installation	L.S	1	500.00	500.00
15.6	S & I  All drainage UPVC pipe work connection to the main drainage stack including floor drain & its cover and replacement of any damaged pipes from the existing installation	L.S	1	200.00	200.00
15.7	S & I 6 kg fire extinguishers	No.	1	50.00	50.00
	a. BCF	No.	1	50.00	50.00
	b. CO <sub>2</sub>	No.	1	50.00	50.00
15.8	S & I Anodized ceiling square diffusers	No.	8	35.00	280.00
	a. SCD-1	No.	8	35.00	280.00
15.9	S & I Fresh air louver with sand trap, filter and insect screen	No.	2	60.00	120.00
	a. size 910 x 300 mm	No.	2	60.00	120.00
15.10	S & I Anodized ceiling return grille	No.	4	25.00	100.00
	a. RCG1	No.	4	25.00	100.00
15.11	S & I Galvanized steel duct work	m <sup>2</sup>	30	3.00	90.00
<b>To Collection</b>					<b>1,855.00</b>

**Division 15 Mechanical Works**

**Visitor Center**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate J.D.</b>	<b>Amount J.D.</b>
15.12	S & I Thermal insulation for duct work	m <sup>2</sup>	30	1.50	45.00
15.13	S & I Wall mounted extract fans with automatic shutter				
	a. EXF.1	No.	1	30.00	30.00
	b. EXF.2	No.	2	45.00	90.00
15.14	S & I Ducted type split unit-heat pump				
	a. HP1	No.	2	1,500.00	3,000.00
15.15	S & I Decorative wall mounted split unit-heat pump				
	a. HP2	No.	2	1,200.00	2,400.00
	b. HP3	No.	1	1,250.00	1,250.00
	c. HP4	No.	1	1,250.00	1,250.00
15.16	S & I Condensate drain UPVC pipe work, with connection to nearest floor drian				
	a. $\phi$ 25 mm	MR.	30	1.50	45.00
	b. $\phi$ 50 mm	MR.	20	5.60	112.00
<b>To Collection</b>					8,222.00

**Division 15 Mechanical Works**

**Visitor Center**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<u><b>Collection</b></u>				
	Page (D15/1)				1,855.00
	Page (D15/2)				8,222.00
<b>To Summary</b>					<b>10,077.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 16 Electrical Works**

**Visitor Centre**

<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 (SMDB).	No.	1	1,650.00	1,650.00
16.2	S&I Main feeding cable to SMDB: 4x35+1x16mm <sup>2</sup> CU/PVC/SWA/PVC cable.	L.M	30	11.00	330.00
16.3	S&I The following panel:				
a.	DBA.	No.	1	367.00	367.00
16.4	S&I Earthing system for SMDB.	L.S.	L.S.	125.00	125.00
16.5	S&I Lighting point.	No.	58	14.93	865.94
16.6	S&I The following lighting fittings:				
a.	F1.	No.	21	30.00	630.00
b.	F2.	No.	1	47.00	47.00
c.	F3.	No.	15	40.00	600.00
d.	I1.	No.	6	14.00	84.00
e.	I2.	No.	15	57.00	855.00
16.7	S&I The following power points:				
a.	13A single phase socket outlet with switch (3 pin).	No.	23	13.00	299.00
b.	Hand dryer.	No.	1	167.00	167.00
c.	Exhaust fan.	No.	3	10.00	30.00
d.	Set of HP01 and HPI1.	Set	4	108.00	432.00
e.	Set of HP02 and HPI2.	Set	2	83.00	166.00
f.	Set of HP03 and HPI3.	Set	1	83.00	83.00
g.	Set of HP04 and HPI4	Set	1	83.00	83.00
h.	Water heater.	No.	1	22.00	22.00
16.8	S&I				
a.	Telephone socket outlet.	No.	2	13.00	26.00
b.	20 pair telephone connection box.	No.	1	67.00	67.00
<b>To Collection</b>					<b>6,928.94</b>

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### Division 16 Electrical Works

### Visitor Centre

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
16.9	S&I a. Fire alarm point.	No.	10	10.00	100.00
16.10	S&I The following conventional fire alarm equipment.				
	a. Fire alarm control panel (2 zones).	No.	1	834.00	834.00
	b. Smoke detector ionization type.	No.	5	21.00	105.00
	c. Heat detector.	No.	1	21.00	21.00
	d. Break glass.	No.	2	21.00	42.00
	e. 6" alarm bell.	No.	2	16.00	32.00
16.11	S&I				
	a. 50W loudspeaker with stand.	No.	2	254.00	508.00
	b. Mixes.	No.	1	504.00	504.00
	c. DVD player.	No.	1	704.00	704.00
	d. Music cabinet rack with glass door and fan.	No.	1	165.00	165.00
	e. LCD projector with mobile table.	No.	1	5,020.00	5,020.00
	f. Wiring for the above equipment.	L.S.	1	125.00	125.00
	g. Mic.	No.	1	52.00	52.00
<b>To Collection</b>					<b>8,212.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 16 Electrical Works**

**Visitor Centre**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D16/1)				6,928.94
	Page (D16/2)				8,212.00
<b>To Summary</b>					<b>15,140.94</b>

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

**VOLUME III**  
**BILL NO. 5 MUSEUM**

**PRICED COPY**



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	70,675.00
DIVISION-4      Masonry Works	6,916.00
DIVISION-5      Metals	2,328.00
DIVISION-8      Doors and Windows	2,495.00
DIVISION-10     Specialties	206,676.00
DIVISION-12     Furnishing	2,778.00
DIVISION-16     Electrical	39,423.99
To Grand Summary	331,291.99

## 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	20.00	140.00
b.	Dismantle doors 100-150x200 cm height.	No.	4	10.00	40.00
c.	Dismantle windows 140x260 cm.	No.	2	15.00	30.00
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	2.00	380.00
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	1.25	185.00
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 strick 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
<b>To Summary</b>					<b>70,675.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 4 Masonry**

**KARAK CASTLE MUSEUM**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate J.D.</b>	<b>Amount J.D.</b>
D-4	Masonry				
4.1	Ajloun first choice stone floor tiles with smooth surface.  Size 40x40x4 cm thick and 40x20x4 cm thick.	M2	148	45.00	6,660.00
4.2	Ajloun first choice stone steps with acid itched including mortar and pointing.				
a.	Size 33x25/10x260 cm length.	L.M	13	16.00	208.00
b.	Size 30x15x260 cm length.	L.M	3	16.00	48.00
<b>To Summary</b>					<b>6,916.00</b>

**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	Galvanized steel trunk for electrical cabling comprised of the following and as shown on Detailed Drawing No. 3/KCM.A-008.  - 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.  Price not include electrical cables. It shall be measured separately.	L.M	194	12.00	2,328.00
<b>To Summary</b>					2,328.00

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 8 Doors and Windows**

**KARAK CASTLE MUSEUM**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate J.D.</b>	<b>Amount J.D.</b>
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, 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	500.00	500.00
b.	SD2 85x199 cm.	No.	1	200.00	200.00
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	750.00	750.00
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	300.00	300.00
b.	PG3 125x205 cm.	No.	1	320.00	320.00
c.	PG4 15x110 cm.	No.	1	50.00	50.00
8.4	Complete steel tubes door with protection steel flat and square bars, weight not less than 40 kg/m <sup>2</sup> 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	375.00	375.00
<b>To Summary</b>					<b>2,495.00</b>

**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)  Price includes necessary data and material collection, research and editing of software  <u>Note:</u> Price shall not include electrical works, lighting, projectors, digital printing, flex panels in different materials and plastic models.				
10.1	<u>Main Show Case</u> Comprised of Karak stone base acid itched 15 cm thick x 52 cm height.  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.  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).  Size 300x100x242 cm.	No.	10	500.00	5,000.00
10.2	<u>Coins Show Case</u>  Comprised of Karak stone base 120x120x78 cm with acid itched 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).  Size 120x120x140 cm.	No.	3	700.00	2,100.00
<b>To Collection</b>					<b>7,100.00</b>

**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 itched 300x60x52 cm height.</p> <p>Karak stone sills acid itched 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	300.00	2,100.00
10.4	<p><u>Telescopic Window</u> Comprised of Karak stone base 10-20 cm thick x 50 cm height acid itched, Ajloun stone dry fix cladding with acid itched, steel structural sections IPE 140 frames, T sections, plates, angles, galv. Screws with stove painting.</p> <p>Karak stone sills acid itched 5 cm thick x 20-40 cm width fixed on stone base, Ajloun stone arch acid itched, Ajloun stone copings 5 cm thick acid itched, 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	1,000.00	1,000.00
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 itched, 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 itched 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 shown on Detailed Drawing No. (KCM.EX-009).</p> <p>Size 400x290x284 cm height.</p>	No.	1	3,500.00	3,500.00
<b>To Collection</b>					<b>6,600.00</b>

**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 itched, stove painted steel structural elements, Ajloun and Karak stone cladding acid itched 5 cm thick and 25 cm coarse mechanical dry fixing on steel, Karak stone coping acid itched 90x30x5 cm thick 2 Nos. Karak stone tiling edging with acid itched 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	10,000.00	10,000.00
10.7	<p><u>Karak Castle Model</u> Comprised of Karak stone base 20 cm thick x 25 cm height with acid itched, 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	20,000.00	20,000.00
<b>To Collection</b>					<b>30,000.00</b>



**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 itched 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 itched 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&amp;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>				
		No.	1	2,500.00	2,500.00
		No.	1	1,600.00	1,600.00
		No.	1	450.00	450.00
<b>To Collection</b>					<b>4,550.00</b>

**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> 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. 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> <p><u>Size</u>                      <u>Material of Panel</u></p>				
a.	260x150 cm      Flex	No.	1	320.00	320.00
b.	260x150 cm      Flex	No.	3	320.00	960.00
c.	260x150 cm      Flex	No.	1	320.00	320.00
d.	260x150 cm      Flex	No.	1	320.00	320.00
e.	160x190 cm      Flex	No.	1	110.00	110.00
f.	260x150 cm      Flex	No.	1	320.00	320.00
g.	80x140 cm      Flex	No.	7	70.00	490.00
h.	80x60 cm      Flex	No.	10	30.00	300.00
i.	180x183 cm      Stainless steel	No.	1	40.00	40.00
j.	100x256 cm      Flex (removable)	No.	1	70.00	70.00
10.10	Ditto. but sublimation system printing and made of silver colour anodized aluminum sheet 1 mm thick size 10x6 cm.	No.	100	6.00	600.00
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)	LS	1	30,000.00	30,000.00
b.	Plastic model of Karak Castle Size 370x220 cm. (Provisional Sum)	LS	1	70,000.00	70,000.00
<b>To Collection</b>					<b>103,850.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 10 Specialties**

**KARAK CASTLE MUSEUM**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate J.D.</b>	<b>Amount J.D.</b>
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	50.00	500.00
b.	Inclined stage made of plywood, hardwood framing and cloth covering. Size 90x90x5/30 cm.	No.	10	50.00	500.00
c.	Stainless steel spandrail type A.	No.	40	4.00	160.00
d.	Stove painted spandrail type B.	No.	10	5.00	50.00
e.	Perforated steel stove painted board 45x60x0.15 cm thick.	No.	10	30.00	300.00
f.	Acrylic stage made of Acrylic boards 5 mm thick. Size 20x10x3 cm.	No.	10	30.00	300.00
g.	Acrylic box made of acrylic and coloured boards 5 mm thick. Size 30x15x8 cm.	No.	10	40.00	400.00
h.	Acrylic box type B, 5 mm thick. Size 5x5x5 cm.	No.	10	40.00	400.00
10.12a.	History 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	29,466.00	29,466.00
10.12.b.	Software:Introduction of the History Duration:15minutes Narration with, Music with Newly production and editing of existing Software (Provisional Sum)	LS	1	22,500.00	22,500.00
<b>To Collection</b>					<b>54,576.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 10 Specialties**

**KARAK CASTLE MUSEUM**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D10/1)				7,100.00
	Page (D10/2)				6,600.00
	Page (D10/3)				30,000.00
	Page (D10/4)				4,550.00
	Page (D10/5)				103,850.00
	Page (D10/6)				54,576.00
<b>To Summary</b>					<b>206,676.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 12 Furnishings**

**KARAK CASTLE MUSEUM**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate J.D.</b>	<b>Amount J.D.</b>
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	300.00	600.00
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	200.00	400.00
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	120.00	240.00
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	250.00	1,250.00
<b>To Collection</b>					2,490.00

**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	32.00	288.00
<b>To Collection</b>					288.00

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 12 Furnishings**

**KARAK CASTLE MUSEUM**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D12/1)				2,490.00
	Page (D12/2)				288.00
<b>To Summary</b>					<b>2,778.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 16 Electrical Works**

**KARAK CASTLE MUSEUM**

<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 The following distribution board:				
a.	DBA.	No.	1	667.00	667.00
16.2	S&I Feeding cable to DBA 5x16 mm <sup>2</sup> CU/PVC/SWA/PVC.	L.M	85	6.00	510.00
16.03	S&I Lighting point.	No.	43	14.93	641.99
16.4	S&I				
a.	13A socket outlet surface mounted.	No.	27	13.00	351.00
b.	Ditto. but surface mounted in trench for show cases lighting.	No.	15	13.00	195.00
c.	Ditto. but for floor up lighter stand.	No.	24	13.00	312.00
16.5	S&I The following lighting fittings:				
a.	S1.	No.	19	184.00	3,496.00
b.	H1.	No.	9	44.00	396.00
c.	H2.	No.	23	304.00	6,992.00
d.	H3.	No.	6	44.00	264.00
e.	H4.	No.	3	79.00	237.00
f.	I1.	No.	2	44.00	88.00
g.	F1.	No.	3	10.00	30.00
h.	F2.	No.	2	99.00	198.00
16.6	S&I The following fibre optics:				
a.	Package consists of two Generators 75w metal halide (see dwg. KCM-EXE-003).	Set	10	1,833.00	18,330.00
b.	Package consists of one Generator 75w metal halide (see dwg. KCM-EX-005).	Set	3	1,517.00	4,551.00
16.7	S&I				
a.	Fire alarm control panel conventional type (2 zones).	No.	1	833.00	833.00
b.	Transmitter and receiver beam detectors.	No.	2	420.00	840.00
<b>To Collection</b>					<b>38,931.99</b>



**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 16 Electrical Works**

**KARAK CASTLE MUSEUM**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate J.D.</b>	<b>Amount J.D.</b>
c.	Fire alarm point.	No.	6	10.00	60.00
d.	Break glass.	No.	1	21.00	21.00
e.	6" alarm bell.	No.	1	16.00	16.00
16.8	S&I				
a.	One zone security panel.	No.	1	307.00	307.00
b.	Infra red motion detector.	No.	1	54.00	54.00
c.	Outdoor flash beacon with sounder.	No.	1	34.00	34.00
<b>To Collection</b>					<b>492.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 16 Electrical Works**

**KARAK CASTLE MUSEUM**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D16/1)				38,931.99
	Page (D16/2)				492.00
<b>To Summary</b>					<b>39,423.99</b>

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

**VOLUME III**  
**BILL NO. 6 KARAK PATHWAYS**

**PRICED COPY**

TOURISM SECTOR DEVELOPMENT PROJECT  
 KARAK TOURISM DEVELOPMENT

SUMMARY SHEET

Description of Work	Amount (Carry from Collection)
<u>SUMMARY</u>	
DIVISION-2      Site Works	156,462.25
DIVISION-16    Electrical	18,520.00
To Grand Summary	<b>174,982.25</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 2 Site Work**

**Karak Castle Pathway**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate J.D.</b>	<b>Amount J.D.</b>
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	6.00	900.00
	b. Roof screed of view terrace.	M3	85	6.00	510.00
	c. Skylight at roof of view terrace and Museum.	No.	8	30.00	240.00
	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	8.00	848.00
	e. Stair Entrance of the Museum.	Item	1	50.00	50.00
	f. External stairs outside museum as shown on Drawing No. KCP.A-004.	L.M	18	6.00	108.00
	g. Last stone course of the Museum as shown on Drawing No. KCP.A-004.	L.M	15	10.00	150.00
	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	3.00	390.00
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
<b>To Collection</b>					<b>10,196.00</b>

## 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	3.00	600.00
b.	Front plaza outside of the Museum comprised of concrete finish and gravel backfill.	M3	150	3.00	450.00
c.	Front plaza outside of the Museum stepped area.	M3	280	3.00	840.00
d.	Roof of the Museum hall.	M3	300	3.00	900.00
e.	Lower level pathway part 1 as shown on Drawing No. KCP.A-007.	M3	300	3.00	900.00
f.	Lower level pathway part 2 as shown on Drawing No. KCP.A-008.	M3	30	3.00	90.00
g.	Upper level part 1 as shown on Drawing No. KCP.A-010.	M3	140	3.00	420.00
h.	Remove stone retaining wall as shown on Drawing No. KCP.A-010.	M2	4	6.00	24.00
i.	View terrace roof.	M3	85	3.00	255.00
j.	New Exit to the bridge including stairs.	M3	50	3.00	150.00
k.	Stepped water channel including concrete and backfill.	L.M	106	4.00	424.00
2.1.3 a.	Supporting and strutting of existing retaining wall before excavation as shown on Drawing No. KCP.A-004.	M2	75	4.00	300.00
b.	Ditto. but for wall at upper level part 2 as shown on Drawing No. KCP.A-011.	M2	40	4.00	160.00
c.	Dismantle and reinstall existing signage as shown on Drawing No. KCP.A-022.	No.	1	80.00	80.00
<b>To Collection</b>					<b>5,593.00</b>

## 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	2.00	800.00
b.	Documentation of facade before and after intervention.	Item	1	60.00	60.00
c.	Closing of openings by appropriate stone pieces to be determined by DOA.	M2	5	80.00	400.00
d.	Repointing of front elevation by special mortar.	M2	20	5.00	100.00
e.	Examination and testing the original mortar to determine matching mortar.	Item	1	100.00	100.00
f.	Repointing of barrel vault and internal walls	M2	760	5.00	3,800.00
g.	Cleaning of stone manually using appropriate brushes.	M2	220	3.00	660.00
h.	Replacement of small stone pieces where necessary not exceeding 15x15x15 cm approx and to be determined by DOA	No.	50	12.00	600.00
i.	Removal and replace of stone course at top level of front façade Museum Building of new stone course appropriate size and source after approval of (DOA), using special matching mortar to original.	L.M	16	50.00	800.00
	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	1.50	202.50
2.2.2	Imported selected single size aggregate fill under box water channel.	M3	49	6.00	294.00
<b>To Collection</b>					<b>7,816.50</b>

## 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 <sup>2</sup> at 28 days compressive strength with ordinary Portland cement including all necessary formwork. 5-10 cm thick for blinding and concrete screed.	M3	11	35.00	385.00
2.2.4	Cast in place reinforced concrete (C25) 25 N/mm <sup>2</sup> 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	58.00	4,640.00
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	1.50	360.00
2.2.6	Water proof membrane 4 mm thick, single ply, torch applied including overlaps, prime coat, and guarantee 5 years.	M2	285	50.00	14,250.00
2.2.7	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	400.00	2,400.00
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	4.00	40.00
2.2.9	UPVC. storm water pipe 300 mm diameter at the end of water channel including excavation, backfilling and strainer.	L.M	17	15.00	255.00
2.2.10	Sealant between water channel and existing structures.	L.M	215	2.00	430.00
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	70.00	70.00
<b>To Collection</b>					<b>22,830.00</b>



## 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	2.50	10.00
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	35.00	10,150.00
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	16.00	1,808.00
b.	30x6 cm thick.	L.M	113	12.00	1,356.00
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	200.00	400.00
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	1.25	233.75
b.	Polyethylene sheets two layers 500 micron total thickness including overlapping and taping of joints.	M2	187	1.50	280.50
c.	5-15 cm thick light weight foam concrete of density 450 kg/m <sup>3</sup> .	M2	187	6.00	1,122.00
d.	Water proof membrane 4 mm thick, single ply, torch applied including overlaps, prime coat, haunches and guarantee 5 years.	M2	187	4.50	841.50
e.	8 cm crushed wadi gravel (desert yellow) 25 mm with stabilizer.	M2	187	2.00	374.00
<b>To Collection</b>					<b>16,575.75</b>

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### 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	10.00	560.00
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	40.00	2,320.00
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	100.00	1,150.00
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	5.00	3,500.00
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	8.00	12,960.00
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	8.00	960.00
<b>To Collection</b>					<b>21,450.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 2 Site Work**

**Karak Castle Pathway**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate J.D.</b>	<b>Amount J.D.</b>
2.4.4	Desert yellow crushed wadi gravel (15-25) mm, 10 cm thick for the lower level pathway.	M2	700	2.00	1,400.00
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	12.50	12,875.00
b.	for Museum level.	M2	1420	12.50	17,750.00
2.4.6	Aggregate base course 10 cm thick for the upper and Museum level.	M2	2450	2.00	4,900.00
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	18.00	2,268.00
b.	Size 30/40x20 cm thick with chamfered edges.	L.M	38	18.00	684.00
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	14.00	518.00
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	18.00	1,314.00
b.	Ditto. but stone edges for slope protection 20x25-50 cm height.	L.M	38	14.00	532.00
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	15.00	270.00
<b>To Collection</b>					<b>42,511.00</b>

## THE TOURISM SECTOR DEVELOPMENT PROJECT

### 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	900.00	1,350.00
c.	Galvanized steel grating 25x25x3 mm thick.	M2	36	24.00	864.00
d.	Hardwood (sekkeh) treads 150x27.5x5 cm thick.	No.	26	22.00	572.00
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	30.00	1,950.00
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	4.00	100.00
2.5.2	Plain concrete (C15), 15 N/mm <sup>2</sup> at 28 days compressive strength with ordinary Portland cement	M3	3	35.00	105.00
2.5.3	Reinforced concrete (C25), 25 N/mm <sup>2</sup> at 28 days compressive strength with ordinary Portland cement				
a.	Foundations and footings.	M3	12	40.00	480.00
b.	Walls 20-35 cm thick.	M3	20	42.00	840.00
<b>To Collection</b>					<b>6,261.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 2 Site Work**

**Karak Castle Pathway**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate J.D.</b>	<b>Amount J.D.</b>
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	400.00	800.00
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	35.00	1,400.00
b.	Ditto. but black Karak stone cladding dressed rough Matabbeh.	M2	66	40.00	2,640.00
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	16.00	192.00
b.	Ditto. but black Karak stone copings 6 cm thick x 40 cm width.	L.M	22	20.00	440.00
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	80.00	240.00
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	20.00	1,800.00
2.5.9	Separation layer Polyethylene sheets two layers 500 micron total thickness including overlapping and taping of joints.	M2	1400	1.50	2,100.00
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	70.00	140.00
<b>To Collection</b>					<b>9,752.00</b>

## 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	5.00	375.00
2.5.12	UPVC. weep holes 100 mm diameter 45 cm length.	No.	6	7.00	42.00
2.5.13	Bituminous water proof membrane 4 mm thick, single ply, torch applied including overlaps, prime coat, and guarantee 5 years.	M2	920	4.50	4,140.00
2.5.14	5-15 cm thick light weight foam concrete of density 450 kg/m <sup>3</sup> including cement screed protection 3 cm thick. For Museum Roof.	M2	920	6.00	5,520.00
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	200.00	600.00
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	40.00	2,800.00
<b>To Collection</b>					<b>13,477.00</b>

**THE TOURISM SECTOR DEVELOPMENT PROJECT**

**Division 2 Site Work**

**Karak Castle Pathway**

Item No.	Description	Unit	Quantity	Rate J.D.	Amount J.D.
	<b><u>COLLECTION</u></b>				
	Page (D2/1)				10,196.00
	Page (D2/2)				5,593.00
	Page (D2/3)				7,816.50
	Page (D2/4)				22,830.00
	Page (D2/5)				16,575.75
	Page (D2/6)				21,450.00
	Page (D2/7)				42,511.00
	Page (D2/8)				6,261.00
	Page (D2/9)				9,752.00
	Page (D2/10)				13,477.00
<b>To Summary</b>					<b>156,462.25</b>

## 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	415.00	415.00
b.	DBA.	No.	1	425.00	425.00
c.	DBB.	No.	1	425.00	425.00
d.	DBC.	No.	1	375.00	375.00
e.	DBD.	No.	1	375.00	375.00
16.2	S&I The following main distribution board:				
a.	MDB.	No.	1	975.00	975.00
16.3	S&I Earthing system for MDB.	L.S.	L.S.	125.00	125.00
16.4	S&I External lighting point.	No.	55	84.00	4,620.00
16.5	S&I The following lighting fittings:				
a.	H1.	No.	36	232.00	8,352.00
b.	F1.	No.	19	107.00	2,033.00
16.6	S&I Main feeding cable to MDB 4x25+1x16 mm <sup>2</sup> CU/PVC/SWA/PVC.	L.M	50	8.00	400.00
<b>To Summary</b>					<b>18,520.00</b>



**VOLUME III**

**PART: 2**

**DAYWORK RATE**

Item	Description of Work
<b><u>GENERAL</u></b>	<p>The Engineer, if in his opinion it is necessary or desirable, issue an instruction that any varied work shall be executed on daywork bases. The Contractor shall then be paid for such work under the terms set out in the daywork schedule included in the Contract and at the rates and price affixed thereto by him in the Tender.</p>
	<p>The Contractor shall furnish to the Engineer such receipts or other vouchers as may be necessary to prove the amounts paid and, before materials, shall submit to the Engineer quotations for the same for the Engineer's approval.</p>
	<p>In respect of such of the Works executed on a daywork basis, the Contractor shall, during continuance of such work, deliver each day to the Engineer an exact list in duplicate of the names, occupation and time of all workmen employed on such work and a statement, also in duplicate, showing the description and quantity of all materials and Contractor's Equipment used thereon or therefore than Contractor's Equipment which is included in the percentage addition in accordance with such daywork schedule. One copy of each list and statement will, if correct, or when agreed, be signed by the Engineer and return to the Contractor.</p>
	<p>At the end of each month the Contractor shall deliver to the Engineer a priced statement of the labor, materials and Contractor's Equipment, except as aforesaid, used and the Contractor shall not be entitled to any payment unless such list and statements have been fully and punctually rendered. Provided always that if the Engineer considers that for any reason the sending of such lists or statements by the Contractor, in accordance with the provision of the Conditions of Contract, was impracticable he shall nevertheless be entitled to authorize payment for such work, either as daywork, on being satisfied as to the time employed and the labor, materials and Contractor's Equipment used on such work, or at such value thereof as shall, in his opinion, be fair and reasonable.</p>
	<b><u>PREAMBLES FOR DAYWORK</u></b>
A	The Contractor shall insert in this Schedule the Daywork rates which the Engineer may choose to apply.
B	The Contractor shall give notice to the Engineer prior to commencement and upon completion of any work which the Contractor considers falls within the definition of Daywork.
C	<p>Claims for payment for work on a Daywork basis must be accompanied by time sheets and materials and goods vouchers, to be endorsed by the Engineer or the Engineer's vouchers, to be enclosed vouchers, to be endorsed by the Engineer or the Engineer's Representative. Such endorsement will not bind the Engineer to value the work as Daywork. If required the Contractor will also produce original copies of his receipt bills and wages books in support of his accounts.</p>
D	<p>Time sheets must be submitted to the Engineer or his representative for endorsement not later than the day following that day in which the work was carried out. Claims accompanied by late time sheets and vouchers will be rejected by the Engineer at his discretion.</p>
E	Rates quoted will be deemed to be fully inclusive of all necessary costs and expenses, overheads and profit and shall fully cover the Contractor's obligations under the Conditions of Contract.
F	<p>Rates inserted in this schedule will be taken into consideration by the Engineer when comparing Tenders. Establishment charges will be deemed to be included in the rates and such rates shall be inclusive of all Contractor's Site and head and other office administrative charges and arrangements, constructional plant ( except plant employed exclusively on daywork ), Contractor's facilities and Temporary works.</p>

Item	Description of Work
	<b><u>LABOR</u></b>
A	Rates will be held to include :
a	Wages and all allied costs in connection therewith and any items of expenditure which are not allowed for elsewhere, accommodation and messing costs, fares, any costs due to importing labor from other district etc., bonuses, additional amounts for working in dirty or hazardous conditions and including preparatory and temporary work, for delays due to wet or inclement weather, for working including weather, for working in shifts and / or overtime and allowances paid to operatives directly engaged on daywork ( including those operating mechanical plant and transport ) in accordance with the appropriate employment agreement or, where no such agreement exists, the actual payments made to the work people concerned.
b	All Site supervision, foremen and staff.
c	Provision and use of all standing scaffolding, walkways, ramps, etc.
d	Non-powered hand tools such as picks, shovels, barrows, saws, chisels, etc.
e	Protective clothing, and other special apparatus and all consumable.
f	Standing time and traveling time.
B	Only actual net time to the nearest hour spent working upon daywork will be considered for payment.

MATERIALS : Percentage Addition : \_\_\_\_\_.

( \* To be Inserted by Tenderer )

( Signature ) \_\_\_\_\_

( Name of Tenderer ) \_\_\_\_\_

( Company Stamp )

Item	Description of Work
<b><u>MATERIALS</u></b>	<p>The following percentage addition ( to be inserted by the Tenderer ) for materials used in Daywork, shall apply to the net invoiced costs of approved material after the deduction of all discounts and will include :</p> <ul style="list-style-type: none"><li>a. Delivery to Site;</li><li>b. Unloading, Storing, Protecting and Waste in Storage; and</li><li>c. Establishment charges, insurances, overheads and profit.</li></ul>

MATERIALS : Percentage Addition : \_\_\_\_\_.

( \* To be Inserted by Tenderer )

( Signature ) \_\_\_\_\_

( Name of Tenderer ) \_\_\_\_\_

( Company Stamp ) \_\_\_\_\_

Item	Description of Work
<b><u>CONTRACTOR'S EQUIPMENT</u></b>	
A	Rates will apply to both owned equipment or hired in equipment.
B	Plant rates generally will include all accessories e.g. hoses, breakers bits, vibrators heads, pipes, grabs, skips, slings, burners etc.
C	Rates will further be held to include :
a.	Mobilization and demobilization
b	All consumables ( including fuel, lubricants, electrodes, gases, welding rods, drill bits and heads, dollies, sawing and grinding discs, blades etc. ;
c	All maintenance, sharpening and grinding of tools, repairs and spares.
d	Standing time.
e	Temporary tracks, sleepers etc. ; and
f	Establishment charges, insurances, overheads and profit.
D	Only time actually spent upon daywork at the units contained in the schedule will be considered for payment. Minimum hire periods will not apply.

( Signature ) \_\_\_\_\_

( Name of Tenderer ) \_\_\_\_\_

( Company Stamp ) \_\_\_\_\_

**DAYWORK RATE**

<b><u>LABOR</u></b>			
item	Description of Work	DAYWORK HOURLY RATE	
		Local Labor	Foreign Labor
		(JD)	(JD)
Note	CONTRACTOR TO ENTER HERE HIS LABOR CATEGORIES (TRADES ) FOR SKILLED AND UNSKILLED WORKMEN. USE ADDITIONAL PAGES IF REQUIRED.		

**DAYWORK RATE**

<b><u>MATERIALS &amp; PLANT</u></b>			
item	Description of Work	DAYWORK HOURLY RATE	
		Local Material	Foreign Material
		(JD)	(JD)
Note	CONTRACTOR TO ENTER HERE MATERIALS OF THE WORKS USE ADDITIONAL PAGE IF REQUIRED.		

**DAYWORK RATE**

<b><u>CONTRACTOR'S EQUIPMENT</u></b>			
item	Description of Work	DAYWORK HOURLY RATE	
		Local Equipment	Foreign Equipment
		(JD)	(JD)
Note	CONTRACTOR TO ENTER HERE CONSTRUCTION EQUIPMENT TO BE USED ON THE WORKS. USE ADDITIONAL PAGE IF REQUIRED.		