

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
NATIONAL MUSEUM 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 Building Works

Bill No. 2 External Works

Bill No. 3 Exhibition Works

Bill No. 4 Furniture Works

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 m³ 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 m² 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 m².

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 m².

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 m².

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 m².
- Measurement shall be net, with all openings exceeding 0.25 m² 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 m².

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
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<p><u>PRELIMINARIES FOR THE WORK</u></p> <p><u>GENERAL PRINCIPLES</u></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
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<u>GENERAL PRINCIPLES (cont'd)</u>				
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.				
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)				
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.				
	<u>Pricing generally</u>				
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.				
E	The Contract shall be deemed to include for all and import duties, fees, License				
Total to Collection Page					

**THE TOURISM SECTOR DEVELOPMENT PROJECT
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<p><u>GENERAL PRINCIPLES (cont'd)</u></p> <p>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.</p> <p>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.</p> <p>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.</p>				
	Total to Collection Page				

**THE TOURISM SECTOR DEVELOPMENT PROJECT
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<u>GENERAL PRINCIPLES (cont'd)</u>				
A	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.				
B	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.				
C	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.				
Total to Collection Page					

**THE TOURISM SECTOR DEVELOPMENT PROJECT
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<u>CONDITIONS OF CONTRACT</u> <u>PART I & II</u>				
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
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
<u>CONDITIONS OF CONTRACT</u>					
<u>PART I & II (CONT'D)</u>					
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
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<u>CONDITIONS OF CONTRACT</u> <u>PART I & II (CONT'D)</u>				
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
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<u>CONDITIONS OF CONTRACT</u> <u>PART I & II (CONT'D)</u>				
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
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<u>CONDITIONS OF CONTRACT</u> <u>PART I & II (CONT'D)</u>				
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
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<u>CONDITIONS OF CONTRACT</u> <u>PART I & II (CONT'D)</u>				
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
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<u>CONDITIONS OF CONTRACT</u> <u>PART I & II (CONT'D)</u>				
A	54.8 Approval of Materials not Implied				
B	54.9 Contractor's Equipment, Temporary Works, Plant and Materials after Completion of the Works				
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
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<u>CONDITIONS OF CONTRACT</u> <u>PART I & II (CONT'D)</u>				
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
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
<u>CONDITIONS OF CONTRACT</u>					
<u>PART I & II (CONT'D)</u>					
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
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<u>SPECIFICATIONS</u>				
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
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<u>SITE AND INSPECTION</u>				
	<u>Access and restrictions</u>				
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
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<u>Site visit</u>				
A	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.				
B	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.				
	<u>Sub-soil conditions and Site investigation reports</u>				
C	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.				
D	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.				
	<u>Site levels</u>				
E	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.				
	<u>Contractor's responsibility to check Site conditions</u>				
F	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.				
Total to Collection Page					

**THE TOURISM SECTOR DEVELOPMENT PROJECT
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<u>Contractor's responsibility to check Site conditions (cont'd)</u>				
A	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.				
	<u>Contractor to accept Site as found</u>				
B	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.				
C	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.				
D	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.				
E	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.				
	<u>SITE CLEARANCE WORKS</u>				
F	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.				
Total to Collection Page					

**THE TOURISM SECTOR DEVELOPMENT PROJECT
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
A	<p><u>SITE CLEARANCE WORKS (Cont'd)</u></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><u>Soil erosion and sedimentation</u></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><u>Damage by erosion</u></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><u>Protection Works</u></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
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
A	<p><u>TEMPORARY WORKS (cont'd)</u></p> <p><u>Protection Works (cont'd)</u></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><u>Other Temporary Works</u></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><u>Removal of Temporary Works</u></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
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<u>Engineers Office</u>				
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.				
	<u>Provision of Vehicles for Use by Supervision Staff</u>				
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
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<p><u>Provision of office equipment use by Supervision Staff (including maintenance)</u></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><u>Walkie Talkies</u></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><u>Protective Clothing etc.</u></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><u>CO-ORDINATION WITH OTHER</u></p> <p><u>Archaeological Preservation</u></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
NATIONAL MUSEUM SUB-PROJECT**

PRELIMINARIES

Item	Description of Work	Unit	Quantity	Rate	Amount
	<u>PRELIMINARIES FOR THE WORK</u>				
	<u>COLLECTION</u>				
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 (Carry to Appendix E Column (1) of Instructions to Tenderers)					

CONSTRUCTION COST

GENERAL SUMMARY

**NATIONAL MUSEUM SUB - PROJECT
GENERAL SUMMARY**

Item	Description	Quantity	Unit	Rate	Amount
				JD/FILS	JD/FILS
	GENERAL SUMMARY				
	Preliminaries				994,679.00
	Bill No. 1 - Buildings				6,603,206.58
	Bill No. 2 - External Works				464,627.00
	Bill No. 3 - Exhibition works				3,752,244.00
	Bill No. 4 - Furniture Works				37,020.00
	Profit				710,223.42
	Total (Carry to Appendix E)			JD	12,562,000.00

BILL OF QUANTITIES

NATIONAL MUSEUM SUB-PROJECT
THE TOURISM SECTOR DEVELOPMENT PROJECT

VOLUME III
BILL NO. 1 BUILDING WORKS

PRICED COPY

**BILL NO. 1 - BUILDINGS
SUMMARY**

Div. No.	Description	Quantity	Unit	Rate	Amount
				JD/FILS	JD/FILS
	SUMMARY				
2	Sitework				480,015.00
3	Concrete				1,577,789.00
4	Masonry				990,991.30
5	Metals				207,250.00
6	Wood and Plastic				41,240.00
7	Thermal & Moisture Protection				309,279.40
8	Doors and Windows				234,890.00
9	Finishes				619,846.20
10	Specialties				9,578.00
12	Furnishings				91,820.00
15	Mechanical Works				1,063,237.30
16	Electrical Works				977,270.38
				To Grand Summary JD	6,603,206.58

BILL NO. 1
DIVISION 2 - SITEWORK

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	SITEWORK				
	Site Clearance				
2.0	Protection of existing utilities (Provisional Sum)	1	LS	3,000.00	3,000.00
	<u>EXCAVATION</u>				
	Excavation in any kind of soil, rock ... etc., starting at natural ground levels down to proposed slopes and levels, including removal of excavated material from site to dumping area complete as shown on drawings and as per specifications				
2.1	Bulk Excavation	53,518	m3	2.50	133,795.00
2.1a	Compaction of excavated sub-grade (Provisional Sum)	1	LS	5,300.00	5,300.00
2.1b	Loose soil replacement and compacted to 10t/m3 (Provisional Sum)	1	LS	3,000.00	3,000.00
	<u>FILLING</u>				
	Imported selected hard core fill material complete as per specifications				
2.2	Backfilling, generally	39,102	m3	6.00	234,612.00
	Imported selected single size coarse filling material complete as specifications				
2.3	To Make up levels	1,143	m3	6.00	6,858.00
	Light weight backfill (weight = 700 kg/m3) consisting of 50% perlite and 50% medium aggregate complete as shown on drawing and as per specifications				
2.4	Above existing culvert	7,697	m3	7.00	53,879.00
2.5	Imported Selected fill material complete as per specifications	5,653	m3	7.00	39,571.00
		To Summary		JD	480,015.00

BILL NO. 1
DIVISION 3 - CONCRETE

	Description		Unit	Rate	Amount
					JD/Fils
	03100 - Concrete Formwork				
	finish including positioning of grooves, chamfers, "V" shapes, recesses ...etc., specifications				
3.1	To Walls		m2		22,218.00
	To Ceilings		m2		17,088.00
	Ordinary Form		m2		258,504.00
	<u>03200 - Concrete Reinforcement</u>				
	Deformed high yield steel bar reinforcement of characteristic strength FY=420 MPa, including bending, hooks, tying wires, distance blocks and spacers, complete as per specifications				
3.3	Various diameters	1411.3	ton	400.00	564,520.00
	bending,				
3.4	Various diameters	82.14	ton	400.00	32,856.00
3.5	Type A142	2942	m2	6.00	17,652.00
		To Collection		JD	912,838.00

**BILL NO. 1
DIVISION 3
CONCRETE**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	CONCRETE (CONT'D)				
	<u>03251 - Expansion & Construction Joints</u> Compressible joint filler including closed cell backing cord, mastic sealant, complete as shown on drawings and as per specifications				
3.6	Laid horizontally and vertically, 20mm thick	12	m2	10.00	120.00
3.7	Ditto, 50mm thick	38	m2	18.00	684.00
	<u>03300 - Cast-In-Place Concrete</u> <u>03370 - Concrete Curing</u> Plain concrete (C 15), 15 Mpa at 28 day compressive strength with ordinary Portland cement complete as per specifications.				
3.8	50 mm thick blinding	325	m3	35.00	11,375.00
3.9	100 mm thick, ditto	228	m3	35.00	7,980.00
3.10	Mass Concrete	6	m3	35.00	210.00
		To Collection		JD	20,369.00

**BILL NO. 1
DIVISION 3
CONCRETE**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	CONCRETE (CONT'D)				
	<u>03300 - Cast IN Place Concrete (Cont'd)</u>				
	<u>03370 - Concrete Curing (Cont'd)</u>				
	Reinforced concrete (C 25), 25Mpa at 28 days compressive strength with ordinary Portland cement including all necessary as per specifications				
3.11	Column bases	884	m3	60.50	53,482.00
3.12	Strip Foundations	605	m3	58.00	35,090.00
3.13	Slab on grade, 100mm thick	311	m3	58.00	18,038.00
3.14	Ditto, 200mm thick	475	m3	58.00	27,550.00
3.15	Ditto, 300mm thick	694	m3	58.00	40,252.00
3.16	Walls, various thickness	2877	m3	58.00	166,866.00
3.17	Parapet walls	29	m3	58.00	1,682.00
3.18	Drop beams	246	m3	60.50	14,883.00
3.19	Isolated beams	7	m3	60.50	423.50
3.20	Suspended solid slabs, 200mm thick	104	m3	58.00	6,032.00
3.21	Ditto, 250mm thick	15	m3	58.00	870.00
3.22	Ditto, 300mm thick	821	m3	58.00	47,618.00
3.23	Ditto, 300mm thick , sloping	96	m3	58.00	5,568.00
		To Collection		JD	418,354.50

**BILL NO. 1
DIVISION 3
CONCRETE**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	CONCRETE (CONT'D)				
	<u>03300 - Cast In Place Concrete (Cont'd)</u>				
	<u>03370 - Concrete Curing (Cont'd)</u>				
	Reinforced concrete (C 25), 25MPa at 28 days compressive strength with ordinary Portland cement including all necessary as per specifications (Cont'd)				
3.24	Suspended solid slabs, 400mm thick	1247	m3	58.00	72,326.00
3.25	Vaulted suspended solid slabs, various thicknesses	35	m3	58.00	2,030.00
3.26	Trough slabs, 475mm thick	86	m3	60.50	5,203.00
3.27	Ditto, 900mm thick	913	m3	60.50	55,236.50
3.28	Ditto, 1000mm thick	735	m3	60.50	44,467.50
3.29	Steps and staircases, generally	91	m3	58.00	5,278.00
3.30	Upstand beams	56	m3	60.50	3,388.00
	Reinforced concrete (C30), 30 MPa at 28 days compressive strength with ordinary Portland cement including all necessary as per specifications				
3.31	Columns	401	m3	65.50	26,265.50
		To Collection		JD	214,194.50

**BILL NO. 1
DIVISION 3
CONCRETE**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	CONCRETE (CONT'D)				
	<u>03346 - Concrete Floor Finishing</u> Cement and sand screed with hardener "trowelled smooth" complete as shown on drawings and as per specifications				
3.32	To floors	4	m3	63.00	252.00
	Cement and sand protection screed complete as shown on drawings and as per specifications				
3.33	20mm thick	141	m3	63.00	8,883.00
3.34	50mm thick	46	m3	63.00	2,898.00
		To Collection		JD	12,033.00

BILL NO. 1
DIVISION 4 - MASONRY

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	MASONRY				
	<u>04100 - Mortar</u>				
	<u>04200 - Concrete Masonry Unit</u>				
	Fair face hollow concrete blockwork in cement and sand mortar (1:4) including all cutting, bonding, control and expansion joint, steel reinforcement bars where required, bond beams, jambs and lintels complete as shown on drawings and as per specifications				
4.1	100 mm thick wall, internally	561	m2	6.00	3,366.00
4.2	Ditto, built against waterproofing	4593	m2	6.00	27,558.00
4.3	150 mm thick wall, internally	1475	m2	7.40	10,915.00
4.4	Ditto, built against insulation	2173	m2	7.40	16,080.20
4.5	200 mm thick wall, internally	91	m2	9.10	828.10
4.6	400 mm thick cavity walls consisting of 150 mm thick inner skin block walls, 100 mm thick cavity and 150 mm thick outer skin block walls	43	m2	18.00	774.00
	Fair face solid concrete blockwork in cement and sand mortar (1:4) including all cutting, bonding, control and expansion joint, bond beams, jambs and lintels complete as shown on drawings and as per specifications				
4.7	100 mm thick walls, built against stone cladding	45	m2	7.00	315.00
4.8	Ditto, inclined walls	800	m2	7.00	5,600.00
4.9	150 mm thick walls, internally	220	m2	8.00	1,760.00
4.10	Ditto, built against stone cladding	215	m2	8.00	1,720.00
		To Collection		JD	68,916.30

**BILL NO. 1
DIVISION 4
MASONRY**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	MASONRY (CONT'D)				
	<u>04450 - Natural Stone Works</u>				
	Dark desert Gold Naqab stone wall cladding including cement and sand mortar bed and backing, special stones, heads, jambs, sills, external and internal angles, grooves, all necessary fixings, stainless steel mechanical fixing system, wire mesh, fitting, closed cell backing cord and mastic sealants where required, accessories and pointing complete as shown on drawings and as per specifications				
4.11	50 mm thick, smooth stone wall cladding	4269	m2	70.00	298,830.00
4.12	Ditto, hammered stone wall cladding	3514	m2	70.00	245,980.00
4.13	Ditto, inclined wall cladding	2323	m2	70.00	162,610.00
4.14	Ditto, to sides and soffits of arches	60	m2	100.00	6,000.00
4.15	Ditto, to soffits of domes	32	m2	100.00	3,200.00
	Desert yellow Naqab stone wall cladding including cement and sand mortar bed and backing, special stones, heads, jambs, sills, external and internal angles, grooves, all necessary fixings, stainless steel mechanical fixings, wire mesh, fitting, accessories and pointing complete as shown on drawings and as per specifications				
4.16	30 mm thick, mattabeh finish wall cladding	1481	m2	60.00	88,860.00
4.17	Ditto, natural layers state wall cladding	850	m2	60.00	51,000.00
4.18	Ditto, base cladding	140	m2	60.00	8,400.00
4.19	Ditto, soffits cladding	85	m2	80.00	6,800.00
4.20	Ditto, to sides and soffits of arches	155	m2	80.00	12,400.00
		To Collection		JD	884,080.00

**BILL NO. 1
DIVISION 4
MASONRY**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	MASONRY (CONT'D)				
	<u>04450 - Natural Stone Works</u>				
	Desert yellow Naqab stone wall cladding including cement and sand mortar bed and backing, special stones, heads, jambs, sills, external and internal angles, grooves, all necessary fixings, stainless steel mechanical fixings, wire mesh, fitting, accessories and pointing complete as shown on drawings and as per specifications (cont'd)				
4.21	Stone cornice, overall size 140 mm thick x 250 mm high	27	m	20.00	540.00
4.22	Honed stone wall nich, overall size 1000 mm wide x 1750 mm high x 450 mm deep	2	No.	150.00	300.00
	Rose (similar to stone of Petra Ruins) stone wall cladding including cement and sand mortar bed and backing, special stones, heads, jambs, sills, external and internal angles, grooves, all necessary fixings, stainless steel mechanical fixings, wire mesh, fittings, accessories and pointing complete as shown on drawings and as per specifications				
4.23	30 mm thick, honed finish wall cladding	150	m2	65.00	9,750.00
4.24	50 mm thick, rough finish wall cladding	60	m2	75.00	4,500.00
4.25	Pilasters including base and crown, external girth 1200 mm x 4800 mm high approximately	2	No.	700.00	1,400.00
4.26	Circular columns, 300 mm diameter x 3500 mm high	4	No.	800.00	3,200.00
		To Collection		JD	19,690.00

BILL NO. 1
DIVISION 4
MASONRY

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	MASONRY (CONT'D)				
	<u>04450 - Natural Stone Works (Contd.)</u>				
	Double faced rubble stone walls including cement and sand mortar bed and backing, all necessary fixings, fittings, accessories and pointing complete as shown on drawings and as per specifications				
4.27	Walls, 800 mm thick overall	25	m2	80.00	2,000.00
	<u>04455 - Natural Marble</u>				
	First quality marble vanity unit consisting of 30 mm thick marble counter tops, 100 mm high x 30 mm thick marble back splash, 30 mm thick marble fascia, all necessary fixings, framing system, fittings, accessories and decoration complete as shown on drawings and as per specifications				
4.28	Vanity unit, size 600 mm wide x 1600 mm long with cutouts for two basins	2	No.	260.00	520.00
4.29	Ditto, size 600 mm wide x 1700 mm long with cutouts for two basins	1	No.	770.00	770.00
4.30	Ditto, size 600 mm wide x 2000 mm long with cutouts for two basins	1	No.	300.00	300.00
4.31	Ditto, size 600 mm wide x 2500 mm long with cutouts for three basins	2	No.	350.00	700.00
4.32	Ditto, size 600 mm wide x 2500 mm overall length obliqued end cut, with cutouts for three basins	1	No.	350.00	350.00
		To Collection		JD	4,640.00

BILL NO. 1
DIVISION 4
MASONRY

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	MASONRY (CONT'D)				
	<u>04455 - Natural Marble (Contd.)</u>				
	First quality marble vanity unit consisting of 30 mm thick marble counter tops, 100 mm high x 30 mm thick marble back splash, 30 mm thick marble fascia, all necessary fixings, framing system, fittings, accessories and decoration complete as shown on drawings and as per specifications (cont'd)				
4.33	Vanity unit, size 600 mm wide x 2870 mm long, with cutouts for four basins	1	No.	400.00	400.00
4.34	Ditto, size 600 mm wide x 2915 mm long, with cutouts for four basins	1	No.	400.00	400.00
4.35	Ditto, size 600 mm wide x 3300 mm long, with cutouts for three basins	1	No.	450.00	450.00
4.36	Ditto, size 600 mm wide x 4450 mm long, with cutouts for six basins	2	No.	550.00	1,100.00
4.37	Marble tops, above urinal dividers, 200 mm wide First quality marble urinal dividers comprising 30 mm thick marble panels fixed to wall with 50 x 50 x 5 mm thick stainless steel angles complete as shown on drawings and as per specifications	17	m	30.00	510.00
4.38	Urinal divider, overall size 450 mm wide x 950 mm high	14	No.	100.00	1,400.00
4.39	Divider at handicapped toilet, overall size 600 mm wide x 1250 mm high	1	No.	150.00	150.00
		To Collection		JD	4,410.00

**BILL NO. 1
DIVISION 4
MASONRY**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	MASONRY (CONT'D)				
	<u>04455 - Natural Marble (Contd.)</u>				
	<u>Marble Toilet Compartment</u>				
	40mm thick local marble toilet compartment fixed on floor and wall with stainless steel supports including all necessary fixings, fittings, accessories and openings for doors complete as shown on detailed drawings and as per specifications				
4.40	Toilet compartment comprising one divider panel size 1400 mm deep x 1800mm high, front panel size 1840mm long	2	No.	315.00	630.00
4.41	Ditto, comprising 1 No. divider panel size 1400 mm deep x 1800mm high, front panel size 1850mm long	3	No.	315.00	945.00
4.42	Ditto, comprising 2 No. divider panel size 1400 mm deep x 1800mm high, front panel size 2750mm long	1	No.	700.00	700.00
4.43	Ditto, comprising 2 No. divider panel size 1400mm deep x 1800m high, front panel size 2850mm long	1	No.	800.00	800.00
4.44	Ditto, comprising 3 No. divider panel size 1400 mm deep x 1800mm high, front panel size 3650 mm long	2	No.	980.00	1,960.00
4.45	Ditto, comprising 3 No. divider panel size 1400m deep x 1800mm high, front panel size 3738mm long	1	No.	1,000.00	1,000.00
4.46	Ditto, comprising 4 No. divider panel size 1400 mm deep x 1800 mm high, front panel size 5650 mm long	2	No.	1,500.00	3,000.00
4.47	Toilet compartment, panel size 1400 mm deep x 1800 mm high, front panel size 840 mm long	1	No.	220.00	220.00
		To Collection		JD	9,255.00

BILL NO. 1
DIVISION 5 - METALS

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	METALS				
	<u>05161 - Space Frames</u> Mero system space frame including all steel node and members, 250mm diameter, steel columns, 100mm thick sandwich roof panel with thermal insulation, round gravel (max 5 cm), roof felt, vapour barrier, free discharge roof drains, all necessary fixings, fittings, accessories and decoration complete as shown on drawings and as per specifications. (contractor to submit construction calculation and drawings for the Engineer's approval).				
5.1	Space Frame	273	m2	90.00	24,570.00
	<u>05500 - Miscellaneous Metals</u> Security grill rolling shutter consisting of stainless steel pipes including all necessary frames, hardware, fixings, fittings accessories and decoration complete as shown on drawings and as per specifications				
5.2	Security grill rolling shutter, overall size 4500mm wide x 4250mm high	1	No.	1,000.00	1,000.00
	Steel louver including all necessary steel frames, fixings, fittings, welding, accessories and decoration complete as shown on drawings and as per specifications				
5.3	Steel louver shutter, type SL1, overall size 7500mm long x 750mm high	2	No.	560.00	1,120.00
5.4	Ditto, type SL2, overall size 4900mm long x 750mm high	1	No.	380.00	380.00
5.5	Ditto, type SL3, overall size 4250mm long x 750 high	2	No.	320.00	640.00
		To Collection		JD	27,710.00

BILL NO. 1
DIVISION 5
METALS

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	METALS(CONTD.)				
	<u>05500 - MISCELLANEOUS METALS</u>				
	Steel louver including all necessary steel frames, fixings, fittings, welding, accessories and decoration complete as shown on drawings and as per specifications (Contd.)				
5.6	Steel Louver, type SL4, overall size 2400mm long x 750mm high	1	No.	200.00	200.00
5.7	Steel louver, type SL5, overall size 3000 x 750 mm	1	No.	250.00	250.00
	Stainless steel pergola comprising 3" diameter and 2" diameter stainless steel pipes including all necessary fixings, fittings and accessories, complete as shown on drawings and as per specifications				
5.8	At Courts	85	m2	200.00	17,000.00
	Brass divider strip, including all necessary fixings and fittings complete as shown on drawings and as per specifications				
5.9	Brass Strip, 80 mm wide	32	m	20.00	640.00
	Aluminum divider strip, size 50mm wide x 5mm thick including all necessary fixings, and fittings complete as shown on drawings and as per specifications				
5.10	Aluminum Strip	1400	m	15.00	21,000.00
	Steel tube grid system with steel mesh (S.O.P finish), Including all necessary suspension system, fixings, fittings, accessories and decoration complete as shown on drawings and as per specifications				
5.11	Steel tube grid system false ceiling with steel mesh (S.O.P finish)	3082	m2	30.00	92,460.00
		To Collection		JD	131,550.00

**BILL NO. 1
DIVISION 5
METALS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	METALS(CONTD.)				
	<u>05520 - Handrails and Railings</u>				
	Stainless steel balustrade comprising 1.5"diameter steel pipe supports, 3" diameter steel pipe handrail including all necessary fixings, fittings, accessories and decoration complete as shown on drawings and as per specifications.				
5.12	Balustrade, 800mm overall high	95	m	90.00	8,550.00
	Stainless steel balustrade comprising 3mm thick stainless steel plates, 1.5" diameter stainless steel supporting pipes, 3" diameter timber hand rail, including all necessary fixings, fittings, accessories and decoration complete as shown on drawings and as per specifications.				
5.13	Balustrade, 1100mm overall high	163	m	180.00	29,340.00
	Stainless steel handrail comprising 3"diameter steel pipe screwed to steel neck, 1.5" diameter steel pipe supports, steel flanges, steel roses and plates, including all necessary welding, fixings, fittings, accessories, and decoration complete as shown on drawings, and as per specifications				
5.14	Handrail, 150mm overall high	122	m	50.00	6,100.00
	Stainless steel handrail comprising 3mm thick stainless steel plate, 1.5" diameter stainless steel supporting pipes, stainless steel roses, power coated steel flanges, 3" diameter Oak wood handrail including all necessary fixings, fittings, accessories and decoration complete as shown on drawings and as per specifications.				
5.15	Handrail, 150mm overall high	40	m	100.00	4,000.00
		To Collection		JD	47,990.00

BILL NO. 1
DIVISION 6 - WOOD AND PLASTIC

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	WOOD AND PLASTIC				
	<u>06200 - Finishing Carpentry</u>				
	Wood Panelling wall cladding including all necessary wood blocking and backing, fixings, fittings, accessories, hardware and decoration complete as shown on drawings and as per specifications				
6.1	To Walls	177	m2	150.00	26,550.00
	Hardwood skirting including softwood backing, fixings, fittings, accessories and decoration complete as shown on drawings and as per specifications				
6.2	Skirting	444	m	10.00	4,440.00
	<u>06410 - Custom Casework</u>				
	Wooden counter including polished stone counter top, polished stone facing, block wall backing, mechanical fixation, accessories, wooden shelves and drawers, all necessary fixing, fitting, accessories and decoration complete as shown on drawings and as per specifications				
6.3	Counter overall size 4200mm long x 1100 mm wide x 1250mm high, to tickets office reference G-07	1	No.	2,100.00	2,100.00
6.4	wide x 1100mm high, to cloak room reference G-03	1	No.	1,200.00	1,200.00
6.5	Ditto, to security room reference G-05	1	No.	1,200.00	1,200.00
6.6	Ditto, to security office room reference S-04	1	No.	750.00	750.00
		To Collection		JD	36,240.00

BILL NO. 1
DIVISION 6
WOOD & PLASTIC

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	WOOD AND PLASTIC(CONTD.)				
	<u>06410 - Custom Case Work</u>				
	Wooden counters including polished stone counter tops, polished stone facing, block wall backing, mechanical fixation accessories, wooden shelves and drawers, all necessary fixings, fittings, accessories and decoration complete as shown on drawings and as per specifications (Cont'd.)				
6.7	Counter overall size 3150mm x 600 x 1250mm high, to security office room reference G-39	1	No.	1,600.00	1,600.00
6.8	Counter overall size 1200 mm long x 600 mm wide x 1100 mm high to cloak room of foyer reference G-35	1	No.	900.00	900.00
	Wooden counters, including wooden shelves and drawers, counter top , all necessary fixings, fittings, hardware, accessories and decoration complete as shown on drawings and as per specifications				
6.9	Counter L shape overall size 3750/1800 mm x 600mm wide x 1150mm high, to restaurant	1	No.	2,500.00	2,500.00
		To Collection		JD	5,000.00

BILL NO. 1
DIVISION 7 - THERMAL & MOISTURE PROTECTION

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	THERMAL & MOISTURE PROTECTION				
	<u>03300 - Concrete</u>				
	Light weight concrete complete as shown on drawings and as per specifications				
7.1	To Roofs	387	m3	60.00	23,220.00
	Trowelled "smooth" cement and sand screed complete as shown on drawings and as per specifications				
7.2	To roof, 20 mm thick, topping layer	77	m3	100.00	7,700.00
	15 cm concrete including filler, mastic sealant and triangular fillet complete as shown on drawings and as per specifications				
7.3	To roofs	581	m3	100.00	58,100.00
	<u>07111 - Waterproofing for Under Ground Works</u>				
	Approved 4 mm thick torch applied waterproofing membrane sheet including, primer mastic sealant "where required" complete as shown on drawings and as per specifications				
7.4	Laid horizontally	6700	m2	5.00	33,500.00
7.5	Laid vertically	4568	m2	5.00	22,840.00
	<u>07120 - Fluid Applied Waterproofing</u>				
	Fluid applied waterproofing membrane coating complete as shown on drawings and as per specifications				
7.6	To wet areas	399	m2	5.00	1,995.00
		To Collection		JD	147,355.00

BILL NO. 1
DIVISION - 7
THERMAL & MOISTURE
PROTECTION

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	THERMAL & MOISTURE PROTECTION (CONT'D)				
	<u>07212 - Rock Wool Insulation</u>				
	50 mm thick high density (60 kg/m³) rockwool thermal insulation including all necessary fixings complete as shown on drawings and as per specifications				
7.9	To external walls	2218	m2	4.80	10,646.40
	<u>07535 - Modified Bitumen Roofing Membrane</u>				
	Two layers of 4 mm torch applied bitumen membrane waterproofing sheet including, primer, closed cell backing cord and mastic sealant and all necessary fixings, complete as shown on drawings and as per specifications				
7.10	To roofs	3689	m2	12.00	44,268.00
	Solar - shield heavily textured aluminum sheet with self - adhesive including all necessary fixings and fittings complete as shown on drawings and as per specifications				
7.11	To Parapets	1421	m2	50.00	71,050.00
	<u>07820 - Metal Framed Skylight</u>				
	Metal framed skylight consisting of fixed double glazing, 6mm clear glass, and 6mm thick tempered glass, gutter with insulation, aluminum frame flashing, including all necessary rods, anchor bolts, welding, mastic, fixings, fittings, accessories, and decoration complete as shown on drawings and as per specifications				
7.12	Skylight	24	m2	160.00	3,840.00
		To Collection		JD	129,804.40

BILL NO. 1
DIVISION 8 - DOORS AND WINDOWS

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	DOORS AND WINDOWS				
	<u>08110 - Steel Doors and Windows</u>				
	<u>08111 - Standard Steel Frames</u>				
	Standard steel doors comprising steel frames, sub frames, vision glass panels, louvers, trims, flashing, hardware, welding, fixings, fittings, accessories and decoration complete as shown on drawings and as per specifications				
8.1	Single leaf door type SD01, size 1000mm wide x 2250 mm high	11	No.	338.00	3,718.00
8.2	Ditto, type SD02, size 1000 mm wide x 2250 mm high	9	No.	338.00	3,042.00
8.3	Double leaf door type SD03, size 2000 mm wide x 2250 mm high	2	No.	675.00	1,350.00
8.4	Ditto, type SD04, size 1800 mm wide x 2250 mm high	5	No.	607.00	3,035.00
8.5	Ditto, type SD05, size 2250 mm wide x 2250 mm high	7	No.	760.00	5,320.00
8.6	Ditto, type SD06, size 1400 mm wide x 2250 mm high	3	No.	472.00	1,416.00
8.7	Ditto, door type SD07, size 1300 mm wide x 2250 mm high	2	No.	440.00	880.00
8.8	Single leaf door type SD08, size 1000 mm wide x 2250 mm high with push latch	1	No.	388.00	388.00
8.9	Double leaf door type SD09, size 2000 mm wide x 2250 mm high with push latch and over head door closer	1	No.	775.00	775.00
		To Collection		JD	19,924.00

BILL NO. 1
DIVISION - 8
DOORS & WINDOWS

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	DOORS AND WINDOWS (CONT'D)				
	<u>08110 - Steel Doors and Windows (Contd.)</u>				
	<u>08111 - Standard Steel Frames (Contd.)</u>				
	Standard steel doors comprising steel frames, sub frames, vision glass panels, louvers, trims, flashing, hardware, welding, fixings, fittings, accessories and decoration complete as shown on drawings and as per specifications (cont'd)				
8.10	Single leaf door type SD10, size 1000 mm wide x 2250 mm high with over head closer	1	No.	440.00	440.00
8.11	Double leaf door type SD11, size 1800 mm wide x 2250 mm high with over head door closer	2	No.	710.00	1,420.00
8.12	Single leaf door type AP01, size 800 mm wide x 2250 mm high	7	No.	270.00	1,890.00
	Steel doors comprising powder coated galvanized steel pipes 3" diameter horizontal and vertically including all necessary hardware, welding, fixings, fittings, accessories and decoration complete as shown on drawings and as per specifications				
8.13	Double leaf door type SD12, overall size 2000 mm wide x 7750 mm high	1	No.	1,930.00	1,930.00
8.14	Ditto, type SD13, overall size 2000mm wide x 11000mm high	1	No.	2,200.00	2,200.00
8.15	Ditto, type SD14, overall size 2000 mm wide x 3750 mm high	1	No.	750.00	750.00
		To Collection		JD	8,630.00

BILL NO. 1
DIVISION - 8
DOORS & WINDOWS

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	<p>DOORS AND WINDOWS (CONT'D)</p> <p><u>08110 - Steel Doors and Windows (Contd.)</u> <u>08111 - Standard Steel Frames (Contd.)</u></p> <p>Steel doors comprising powder coated galvanized steel pipes 3" diameter horizontal and vertically including all necessary hardware, welding, fixings, fittings, accessories and decoration complete as shown on drawings and as per specifications (Contd.)</p>				
8.16	Double leaf door type SD15, overall size 1800 mm wide x 3750 mm high	1	No.	675.00	675.00
8.17	Ditto, type SD16, overall size 2000 mm wide x 2500 mm high	1	No.	500.00	500.00
8.18	Single leaf type SD17, overall size 4500 mm wide x 4250 mm high	1	No.	1,000.00	1,000.00
		To Collection		JD	2,175.00

BILL NO. 1
DIVISION 8
DOORS & WINDOWS

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
DOORS AND WINDOWS (CONT'D)					
<u>08210 - Wood Doors and Frames</u>					
45mm thick Oak wood veneered doors including solid Oakwood door frames, glazing, subframes, architraves, all necessary fixings, fittings, accessories, hardware and decoration complete as shown on drawings and as per specifications					
8.19	Double leaf door type TD07, size 2400 mm wide x 3500 mm high with half circle shaped fixed top panel	1	No.	2,500.00	2,500.00
8.20	Ditto, four leaf door type TD08, overall size 4800 mm wide x 5000 mm overall high	1	No.	7,200.00	7,200.00
8.21	Ditto, double leaf door, type TD11, size 2000 mm wide x 3500 mm overall high	1	No.	2,100.00	2,100.00
8.22	Single leaf door, type TD12, size 1000 mm wide x 3500 mm overall high	3	No.	1,050.00	3,150.00
8.23	Double leaf door, type TD13, size 1800 mm wide x 2500 mm high	2	No.	1,350.00	2,700.00
8.24	Ditto, type TD14, size 2000 mm wide x 2500 mm high	1	No.	1,500.00	1,500.00
8.25	Four leaf door, type TD15, overall size 4800 mm wide x 4500 mm high	1	No.	6,500.00	6,500.00
8.26	Ditto, type TD16, overall size 7832mm wide x 3500mm high	1	No.	8,221.00	8,221.00
		To Collection		JD	33,871.00

BILL NO. 1
DIVISION 8
DOORS & WINDOWS

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
DOORS AND WINDOWS (CONT'D)					
<u>08210 - Wood Doors and Frames(Contd.)</u>					
45mm thick door panels including steel door frames, wooden subframes, glazing and architraves, all necessary fixings, fittings, accessories, hardware and decoration complete as shown on drawings and as per specifications					
8.27	Single leaf door, type TD01, size 900 mm wide x 2250 mm high, with overhead door closer	22	No.	400.00	8,800.00
8.28	Ditto, type TD03, size 1000 mm wide x 2250 mm high	20	No.	340.00	6,800.00
8.29	Double leaf door type TD04, size 1800 mm wide x 2250 mm high	2	No.	600.00	1,200.00
8.30	Ditto, type TD05, size 2250 mm wide x 2250 mm high	6	No.	760.00	4,560.00
8.31	Ditto, type TD09, size 1300 mm wide x 2250 mm high with overhead door closer	4	No.	540.00	2,160.00
8.32	Ditto, Single leaf door, type TD10, size 1000 mm wide x 2500 mm high	2	No.	375.00	750.00
8.33	Double leaf door, type TD11, size 2000 mm wide x 3500 mm overall high	1	No.	1,050.00	1,050.00
		To Collection		JD	25,320.00

BILL NO. 1
DIVISION - 8
DOORS & WINDOWS

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	DOORS AND WINDOWS (CONT'D)				
	<u>08800 - GLAZING</u>				
	12 mm thick tempered glass doors and screens, including all necessary embedded aluminium frames, hardware, glazing subframes, trims, flashings, mastic sealant and weather stripping complete as shown on drawings and as per specifications				
8.36	Double leaf door ref. TG01, overall size 2400 mm wide x 3500 mm high with wooden frame	1	No.	1,260.00	1,260.00
8.37	Screen ref. TG02, overall size 9630 mm wide x 3500 mm high, including double leaf door, Z-shape	1	No.	5,100.00	5,100.00
	<u>Parapet</u>				
	12 mm thick tempered glass panels including all necessary stainless steel supports, fixings, fittings and accessories complete as shown on drawings and as per specifications (parapet)				
8.38	Tempered glass panels	60	m2	150.00	9,000.00
	6 mm thick mirrors, including all necessary fixings, fittings and accessories complete as shown on drawings and as per specifications				
8.39	Mirrors	36	m2	40.00	1,440.00
		To Collection		JD	16,800.00

BILL NO. 1
DIVISION - 8
DOORS & WINDOWS

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	DOORS AND WINDOWS (CONT'D)				
	<u>08800 - Glazing (Contd.)</u>				
	12 mm thick glass stiffeners including all necessary fixings, fittings and adhesive complete as shown on drawings and as per specifications				
8.40	Telephone glass stiffeners, 200 mm wide	6	m	100.00	600.00
	<u>08520 - ALUMINIUM WINDOWS AND DOORS</u>				
	Double glazed anodized aluminium windows, doors and screens consisting of 12 mm thick tinted glass, 6 mm cavity, 8 mm clear glass, frames, subframes, trims, flashings, mastic sealant, weather stripping, flyscreens, all necessary fixings, fittings, accessories and hardware complete as shown on drawings and as per specifications				
8.41	Aluminium window type AW01, size 1500 mm wide x 1500 mm high, with two options opening directions	13	No.	225.00	2,925.00
8.42	Ditto, type AW02, size 3270 mm wide x 3000 mm high	13	No.	1,100.00	14,300.00
8.43	Ditto, type AW03, overall size 3270 mm wide x 3000 mm high, with double leaf door	2	No.	1,200.00	2,400.00
8.44	Ditto, type AW04, overall size 540 mm wide x 3000 mm high	2	No.	400.00	800.00
8.45	Aluminium window type AW05, size 1000 mm wide x 1500 mm high	1	No.	200.00	200.00
		To Collection		JD	21,225.00

BILL NO. 1
DIVISION - 8
DOORS & WINDOWS

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
DOORS AND WINDOWS (CONT'D)					
<u>08520 -Aluminum Windows & Doors(Contd.)</u>					
Double glazed anodized aluminium windows, doors and screens consisting of 6 mm thick tempered glass each pane, frames, subframes, trims, flashings, mastic sealant, weather stripping, flyscreens, all necessary fixings, fittings, accessories and hardware complete as shown on drawings and as per specifications (cont'd)					
8.46	Aluminium door type AD01, overall size 7450 mm wide x 2500 mm high with double leaf door	2	No.	2,000.00	4,000.00
8.47	Ditto, type AD02, size 4880 mm wide x 2500 mm high (fixed)	1	No.	1,200.00	1,200.00
8.48	Ditto, type AD03, size 2390 mm wide x 2500 mm high (fixed)	1	No.	585.00	585.00
8.49	Ditto, type AD04, overall size 8000 mm wide x 2500 mm high, with double leaf door	2	No.	2,000.00	4,000.00
8.50	Ditto, type AD05, overall size 2000 mm wide x 2500 mm high with double leaf door	1	No.	500.00	500.00
Double glazed anodized aluminium curtain walls including frames, subframes, glazing, stainless steel brackets and plates, trims, flashings, cap flashing, mastic sealant, weather stripping, all necessary fixings, fittings, accessories and hardware complete as shown on drawings and as per specifications					
8.51	Aluminium curtain type CW1, 252m2 approximate area with double leaf door	1	No.	37,800.00	37,800.00
8.52	Ditto, type CW2, 146m2 approximate area	1	No.	21,900.00	21,900.00
8.53	Ditto, type CW3, 100m2 approximate area	2	No.	15,000.00	30,000.00
			To Collection	JD	99,985.00

BILL NO. 1
DIVISION 9 - FINISHES

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	FINISHES				
	<u>09220 - Portland Cement Plaster</u> 25mm thick cement and sand plastering including all necessary casing stops, angle beads, bonding material, and wire mesh complete as shown on drawings and as per specifications				
9.1	To concrete or block walls	2436	m2	3.20	7,795.20
9.2	To concrete soffits	255	m2	3.60	918.00
9.3	To concrete sloping soffits	170	m2	5.00	850.00
	Cement and sand plastering on and included expanded metal lath longitudinal ribs 10mm deep all necessary fixings complete as shown on drawings and as per specifications				
9.5	To Walls externally	9726	m2	6.00	58,356.00
	<u>09260 - Gypsum Board False Ceiling System</u> Gypsum board suspended ceiling including suspension system, access panels, fixings, fittings, accessories and skim coat complete as shown on drawings and as per specifications				
9.6	Horizontally, bulk heads and coffers, 2 layers gypsum board	1936	m2	20.00	38,720.00
9.7	To Walls, Coved	5	m2	35.00	175.00
		To Collection		JD	106,814.20

BILL NO. 1
DIVISION - 9
FINISHES

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	FINISHES				
	<u>09260 - Gypsum Board False Ceiling System</u> Gypsum board "water repellent" suspended ceiling including suspension system, access panels, fixings, fittings, accessories and skim coat complete as shown on drawings and as per specifications				
9.8	Horizontally	365	m2	22.00	8,030.00
	<u>09310 - Ceramic Tiles</u> First quality "anti slip" ceramic floor type tiles on and including cement and sand mortar bed, sand fill material, cutting, fittings, trims, grouting and cleaning complete as shown on drawings and as per specifications				
9.9	To floors, size 200 x 200 x 6mm thick	334	m2	21.00	7,014.00
	First quality glazed ceramic wall type tiles on 25mm thick plaster with adhesive and coloured grouting, including all necessary fixings, accessories, adhesive, pointing and cleaning, complete as shown on drawings and as per specifications				
9.10	To walls, size 200 x 200 x 6mm thick	7635	m2	23.10	176,368.50
		To Collection		JD	191,412.50

BILL NO. 1
DIVISION - 9
FINISHES

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	FINISHES				
	<u>09410 - Terrazzo Tiles</u>				
	Terrazzo floor tiles on and including cement and sand mortar bed, sand fill material, cutting, fittings, trims, accessories, grouting and polishing complete as shown on drawings and as per specifications.				
9.11	To Floors, size 250 x 250 x 25mm thick	441	m2	6.00	2,646.00
9.12	Ditto, size 400 x 400 x 40mm thick	1192	m2	8.00	9,536.00
9.13	Skirting, 100mm high	1126	m2	3.50	3,941.00
9.14	Treads, 30mm thick	77	m2	10.00	770.00
9.15	Risers, 20mm thick	46	m2	8.00	368.00
	Cast in place terrazzo flooring on and including sand fill material, grouting, polishing and fixings, complete as shown on drawings and as per specifications.				
9.16	30mm thick, to floors	2719	m2	6.00	16,314.00
9.17	Ditto, to landings	175	m2	8.00	1,400.00
9.18	Skirting, 100 x 20mm thick	761	m	3.00	2,283.00
9.19	Ditto, to stair cases	221	m	4.00	884.00
		To Collection		JD	38,142.00

BILL NO. 1
DIVISION - 9
FINISHES

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	FINISHES				
	<u>09510 - Acoustical ceilings</u> Acoustic tiles suspended ceiling including suspension system, access panels, fixings, fittings and accessories complete as shown on drawings and as per specifications.				
9.20	Horizontally, size 600 x 600mm tegular edge	814	m2	16.00	13,024.00
	<u>09557 - Hardwood Flooring</u> Hard wood strips flooring including all necessary wood blocking, fixings, fittings, accessories and decoration complete as shown on drawings and as per specifications.				
9.21	To Floors	346	m2	90.00	31,140.00
	<u>09570 - Wood Panel Suspended Ceiling</u> Hardwood size 2190 mm x 1000 mm paneling suspended ceilings including soft wood joists and all necessary fixings, fittings accessories, trims and decoration complete as shown on drawings and as per specifications.				
9.22	Horizontally	91	m2	90.00	8,190.00
		To Collection		JD	52,354.00

BILL NO. 1
DIVISION - 9
FINISHES

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	FINISHES				
	<u>09610 - Stone Flooring</u> Stone floor tiles on and including cement and sand mortar bed, sand fill material, cutting, fittings, fixings and grouting complete as shown on drawings and as per specifications.				
9.23	Floor tiles, 30mm thick	46	m2	45.00	2,070.00
9.24	Patterned Floors, 30mm thick	4147	m2	45.00	186,615.00
9.25	Landings, 30mm thick	44	m2	45.00	1,980.00
9.26	Treads, 30mm thick	41	m2	45.00	1,845.00
9.27	Risers, 20mm thick	12	m2	40.00	480.00
9.28	Skirting, 20mm thick to staircases	13	m	7.00	91.00
	<u>09695 - Carpeting With Underlay</u> Carpet flooring including adhesive, underlay, cutting, fixings, carpet stops, complete as shown on drawings and as per specifications				
9.29	To floors	213	m2	35.00	7,455.00
	<u>09900 - Painting</u> Acrylic emulsion paint including preparation works and under coats, complete as shown on drawings and as per specifications				
9.30	To plastered walls, internally	2166	m2	2.00	4,332.00
9.31	To plastered soffits, internally	425	m2	2.00	850.00
9.32	To gypsum false ceilings, internally	2301	m2	2.50	5,752.50
9.33	To fair faced concrete works	6551	m2	3.00	19,653.00
		To Collection		JD	231,123.50

BILL NO. 1
DIVISION 10 - SPECIALTIES

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	SPECIALTIES				
	<u>10441 - Plasti Signs</u>				
	Signs, comprising 15mm tempered glass with sticked - on printed sheet, chamfered edge, with 25mm diameter lacceuered brass bracket, all necessary fixings, fittings and accessories, complete as shown on drawings and as per specifications.				
10.1	At counters, 300mm wide x 150mm high	5	No.	80.00	400.00
	Acrylic resin plate 5mm thick, with sticked on printed sheet, all necessary fixings, fittings and accessories, complete as shown on drawings and as per specifications				
10,2	Floor sign, 150mm wide x 150mm high	12	No.	25.00	300.00
10.3	Ditto, for staircase	12	No.	25.00	300.00
10.4	Ditto, for room name plate	50	No.	25.00	1,250.00
10.5	Ditto, for pantry sign	6	No.	25.00	150.00
10.6	Ditto, for Handicapped T. sign	2	No.	25.00	50.00
10.7	Ditto, for elevator sign	4	No.	25.00	100.00
10.8	Ditto, for toilet sign (F)	7	No.	25.00	175.00
10.9	Ditto, for toilet sign (M)	7	No.	25.00	175.00
		To Collection		JD	2,900.00

BILL No. 1
DIVISION - 10
SPECIALTIES

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	SPECIALTIES				
	<u>10800 - Toilets and Bath Accessories</u>				
	Stainless steel finished toilet and bath accessories including all necessary fixings, fittings, and accessories complete as shown on drawings and as per specifications				
10.10	Toilet paper holder	34	No.	35.00	1,190.00
10.11	Hand dryer	10	No.	170.00	1,700.00
10.12	Liquid soap dispenser, lavatory mounted	40	No.	60.00	2,400.00
10.13	Dual roll toilet paper dispenser, wall mounted	34	No.	25.00	850.00
10.14	Paper towel dispenser	10	No.	25.00	250.00
10.15	Coat hook	42	No.	4.00	168.00
10.16	Support arm for handicapped	3	No.	40.00	120.00
		To Collection		JD	6,678.00

DIVISION 15
MECHANICAL WORKS

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
<u>SECTION 3: VENTILATION & AIR</u>					
<u>CONDITIONING SYSTEM</u>					
15.1	Galvanized sheet metal ductwork for Ventilation and air conditioning of all gages to DW/142.	22000	KG	3.50	77,000.00
15.2	Duct Insulation				
	1 - For Exposed duct work on roof with aluminum cladding.	300	M2	8.40	2,520.00
	2 - For internal duct work.	2700	M2	3.50	9,450.00
	Flexible duct work				
	1 -. Diam 200mm.	20	MR	7.00	140.00
	2 -. Diam 300mm.	20	MR	10.50	210.00
15.3	Stainless steel exhaust ductwork for kitchen hood 2.0mm thick.	5	M2	140.00	700.00
15.4	Ceiling diffusers, square 4-way type with opposed blade dampers.				
	1 - SD1 150 x 150mm.	31	No.	21.00	651.00
	2 - SD2 230 x 230mm	53	No.	24.50	1,298.50
	3 - SD3 300 x 300mm	215	No.	28.00	6,020.00
	4 - SD4 380 x 380mm	21	No.	31.50	661.50
	5 - SD5 460 x 460mm	8	No.	35.00	280.00
	6 - SD6 530 x 530mm	2	No.	42.00	84.00
15.5	Linear slot diffuser with plenum box, sliding dampers and adjustable blades.				
	1- LD-1 3-Slot of 3/4" L = 1200mm	28	No.	56.00	1,568.00
15.6	Linear Dummy diffuser 3 slot.	8	MR	24.50	196.00
15.7	Ceiling return diffusers, 4-way square type with opposed blade dampers.				
	1 - RD1 : 150mm x 150 mm.	2	No.	21.00	42.00
	2 - RD2 : 230mm x 230 mm.	12	No.	24.50	294.00
	3 - RD3 : 300mm x 300 mm.	22	No.	28.00	616.00
	4 - RD4 : 380mm x 380 mm.	12	No.	31.50	378.00
15.8	Supply register, double blades with opposed blades dampers.				
	1 - SR - 1, 450 x 200	4	No.	28.00	112.00
		To Collection		JD	102,221.00

**DIVISION 15
MECHANICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
<u>SECTION 3: VENTILATION & AIR</u>					
<u>CONDITIONING SYSTEM (CONTD.)</u>					
15.9	Extract registers, double blades with opposed blades damper.				
	1 - ER-1 150 x 150mm.	64	No.	17.50	1,120.00
	2 - ER-2 230 x 230mm.	2	No.	21.00	42.00
	3 - ER-3 450 x 150mm.	4	No.	24.50	98.00
15.10	Door Grilles.				
	1- DG 500 x 250mm.	4	No.	28.00	112.00
15.11	Air Handling Unit with all sections and components as shown on drawings and called for in specifications.				
	1 - Ref - AHU - EXH1	1	No.	35,000.00	35,000.00
	2 - Ref - AHU - EXH2	1	No.	35,000.00	35,000.00
	3 - Ref - AHU - MEH	1	No.	31,500.00	31,500.00
	4 - Ref - AHU - TG	1	No.	25,200.00	25,200.00
	5 - Ref - AHU - ST	1	No.	19,600.00	19,600.00
	6 - Ref - AHU - SST	1	No.	14,000.00	14,000.00
	7 - Ref - AHU -FA	1	No.	17,500.00	17,500.00
15.12	Roof top A/C packaged unit heat pump type				
	1 - Ref. PRT - 1	1	No.	21,000.00	21,000.00
	2 - Ref. PRT-2	1	No.	17,500.00	17,500.00
15.13	Exhaust fans as shown in schedule of equipment and drawings.				
	1 - Ref - EXF-FA	1	No.	1,750.00	1,750.00
	2 - Ref - EXF-D1	1	No.	1,400.00	1,400.00
	3 - Ref - EXF-D2	1	No.	1,540.00	1,540.00
	4 - Ref - EXF-HD	1	No.	1,400.00	1,400.00
	5 - Ref - EXF-DC	1	No.	1,400.00	1,400.00
	6 - Ref - EXF-DS	1	No.	700.00	700.00
	7 - Ref - EXF-BR	1	No.	1,820.00	1,820.00
	8 - Ref - EXF-S	1	No.	210.00	210.00
15.14	Fresh air fan as shown in schedule of equipment and drawings.				
	1 - Ref. FAF-EXH1	1	No.	1,960.00	1,960.00
	2 - Ref. FAF-EXH2	1	No.	1,960.00	1,960.00
	3 - Ref. FAF-TG	1	No.	1,400.00	1,400.00
	4 - Ref. FAF-ST	1	No.	1,610.00	1,610.00
	5 - Ref. FAF-SST	1	No.	1,120.00	1,120.00
	6 - Ref. FAF-MEH	1	No.	1,610.00	1,610.00
	7 - Ref. FAF-FA	1	No.	1,890.00	1,890.00
	8 - Ref. FAF-BR	1	No.	1,890.00	1,890.00
		To Collection		JD	241,332.00

**DIVISION 15
MECHANICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	<u>SECTION 3: VENTILATION & AIR CONDITIONING SYSTEM (CONTD.)</u>				
15.15	Fan Coil Units concealed ducted with plenum type.				
	1 - FCU – B01	2	No.	980.00	1,960.00
	2 - FCU – B02	2	No.	980.00	1,960.00
	3 - FCU – B03	1	No.	980.00	980.00
	4 - FCU – B04	1	No.	980.00	980.00
	5 - FCU – B05	1	No.	980.00	980.00
	6 - FCU – B06	2	No.	980.00	1,960.00
	7 - FCU – G 01	1	No.	980.00	980.00
	8 - FCU – G 02	3	No.	980.00	2,940.00
	9 - FCU – G 03	1	No.	980.00	980.00
	10 - FCU – G 04	1	No.	980.00	980.00
	11 - FCU – F01	2	No.	980.00	1,960.00
	12 - FCU – F02	1	No.	980.00	980.00
	13 - FCU – F03	1	No.	980.00	980.00
	14 - FCU – F04	2	No.	980.00	1,960.00
	15 - FCU – F05	2	No.	980.00	1,960.00
	16 - FCU – F06	1	No.	980.00	980.00
	17 - FCU – F07	1	No.	980.00	980.00
	18 - FCU – F08	2	No.	980.00	1,960.00
	19 - FCU – F09	1	No.	980.00	980.00
	20 - FCU – F10	1	No.	980.00	980.00
15.16	Steam humidifier, electric self generative, duct mounted type for library. Ref. HUM - 1 Capacity 3 kg/hr, 160 L/S	1	No.	1,750.00	1,750.00
		To Collection		JD	30,170.00

**DIVISION 15
MECHANICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
<u>SECTION 4: CHILLED WATER SYSTEM</u>					
15.17	Air cooled water chiller packaged type 1. Ref. CHLR 1	2	No.	70,000.00	140,000.00
15.18	Chilled water primary pump with all instrumentations. 1. Ref. CHWPP (primary pumps). 2. Ref. CHWSP-1 (Secondary Pumpset) [variable packaged set of three pumps]. 3. Ref. HCSP-1 (change over for FCU ' S circuit) [Variable packaged set of two pumps]	2	No.	3,150.00	6,300.00
		1	Set	12,600.00	12,600.00
		1	Set	8,400.00	8,400.00
15.19	Chilled water system. Instrumentation as described in specification.	1	L.S.	4,200.00	4,200.00
15.20	Expansion tank. 1- Ref. EXP-2	1	No.	700.00	700.00
15.21	Chemical dosing pot	1	No.	350.00	350.00
15.22	Black mild steel pipes and fittings with insulation for chilled water and hot / chilled water pipework to BS 1387 medium weight.				
	1 - Diam 15 mm (1/2")	20	MR	3.50	70.00
	2 - Diam 20 mm (3/4")	150	MR	5.00	750.00
	3 - Diam 25 mm (1")	230	MR	7.10	1,633.00
	4 - Diam. 32 mm (1 1/4")	120	M.R.	11.00	1,320.00
	5 - Diam. 40 mm (1 1/2")	70	M.R.	14.00	980.00
	6 - Diam 50 mm (2")	120	MR	20.00	2,400.00
	7 - Diam. 65 mm (2 1/2")	60	M.R.	27.00	1,620.00
	8 - Diam. 80 mm (3")	100	M.R.	35.00	3,500.00
	9 - Diam. 100 mm (4")	160	M.R.	43.00	6,880.00
	10 - Diam. 150 mm (6")	120	M.R	70.00	8,400.00
	11 - Diam. 200 mm (8")	220	M.R	98.00	21,560.00
		To Collection		JD	221,663.00

**DIVISION 15
MECHANICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
<u>SECTION 4: CHILLED WATER SYSTEM (CONTD.)</u>					
15.23	UPVC pressure pipes for condensate drain pipes to BS 3505 class (E) of 15 bar working pressure.				
	1 - Diam 20mm O - D	140	M.R	6.30	882.00
	2 - Diam 25mm O - D	30	M.R	7.70	231.00
	3 - Diam 32mm O - D	60	M.R	9.80	588.00
	4 - Diam 40mm O - D	20	M.R	12.60	252.00
	5 - Diam 50mm O - D	30	M.R	16.10	483.00
	6 - Diam 75mm O - D	90	M.R	18.90	1,701.00
	7 - Diam 100mm O - D	20	M.R	24.50	490.00
15.24	Low pressure chilled water header complete with valves, fittings and flanged complete ends.				
	1- Diam. 400mm (16 ").	8	M.R	210.00	1,680.00
		To Collection		JD	6,307.00

**DIVISION 15
MECHANICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
<u>SECTION 5: HEATING SYSTEM</u>					
15.25	Hot water heating boiler 1- REF. HWB - 1	2	No.	14,000.00	28,000.00
15.26	Primary heating pumps 1. REF. HWPP	3	No.	2,450.00	7,350.00
15.27	Secondary heating pumpset (variable packaged set of three pumps). 1. Ref. HWSP - 1	1	Set	11,200.00	11,200.00
15.28	Black steel, seamless pipes and fitting with insulation to BS 1387 medium weight for heating pipework.				
	1 - Diam 15mm (1/2 ")	20	M.R	3.50	70.00
	2 - Diam 20mm (3/4 ")	100	M.R	5.00	500.00
	3 - Diam 25mm (1 ")	160	M.R	7.10	1,136.00
	4 - Diam.32mm (1 1/4")	230	M.R	11.00	2,530.00
	5 - Diam 40mm (1 1/2")	200	M.R	14.00	2,800.00
	6 - Diam 50mm (2")	120	M.R	20.00	2,400.00
	7 - Diam 65mm (2 1/2")	70	M.R	26.00	1,820.00
	8 - Diam 80mm (3")	30	M.R	36.00	1,080.00
	9 - Diam 100mm (4")	60	M.R	43.00	2,580.00
15.29	Expansion tank Ref. EXP-1	1	No.	2,100.00	2,100.00
15.30	Smoke breaching from stainless steel.	1	L.S	700.00	700.00
15.31	Smoke chimney from stainless steel 1. Diam 500 mm	25	M.R.	70.00	1,750.00
15.32	Hot water header complete with valves, fittings and flanged complete ends. 1- Diam. 300mm (12 ") .	8	M.R	189.00	1,512.00
		To Collection		JD	67,528.00

**DIVISION 15
MECHANICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
<u>SECTION 7: DOMESTIC COLD WATER SYSTEM</u>					
15.33	Galvanized steel to BS-1387 medium weight for cold water pipework:				
	1 - Diam. 15mm (1/2 ")	100	MR.	3.50	350.00
	2 - Diam. 20mm (3/4 ")	120	MR.	4.90	588.00
	3 - Diam. 25mm (1 ")	130	MR.	7.00	910.00
	4 - Diam. 32mm (1 1/4 ")	70	MR.	10.50	735.00
	5 - Diam. 40mm (1 1/2 ")	30	MR.	14.00	420.00
	6 - Diam. 50mm (2 ")	20	MR.	19.60	392.00
	7 - Diam. 65mm (2 1/2 ")	130	MR.	26.60	3,458.00
	8 - Diam. 80mm (3 ")	50	MR.	35.00	1,750.00
	9 - Diam. 100mm (4 ")	10	MR.	42.00	420.00
15.34	Ditto but for external pipework complete with excavation, bedding, backfilling, and two layers of hessian and tar. Diam. 50mm	20	MR.	22.40	448.00
15.35	Water tanks GRP. 12m x 7m x 2.5m	1	No.	49,000.00	49,000.00
15.36	Cold water boosting pumpset of three pumps and pressure vessel and control panel. CWP - 1	1	Set	12,600.00	12,600.00
15.37	Water meter with totalizer for domestic water use complete with all valves and accessories. Diam 50mm (2")	1	No.	84.00	84.00
		To Collection		JD	71,155.00

**DIVISION 15
MECHANICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
<u>SECTION 8: DOMESTIC HOT WATER SYSTEM</u>					
15.38	Hot water cylinder 1 - Ref. HWC - 1	1	No.	2,800.00	2,800.00
15.39	Hot water circulating pump. 1 - Ref. HWRP - 1	1	No.	700.00	700.00
15.40	Copper pipes and fittings to BS 2871 table (X) for domestic hot water services with insulation.				
	1 - Diam - 15 mm (1/2")	50	No.	9.10	455.00
	2 - Diam - 20 mm (3/4")	50	No.	11.20	560.00
	3 - Diam - 25 mm (1")	120	No.	14.00	1,680.00
	4 - Diam - 32 mm (1 1/4")	40	No.	21.70	868.00
	5 - Diam - 40 mm (1 1/2")	30	No.	25.90	777.00
	6 - Diam - 50 mm (2")	40	No.	30.80	1,232.00
15.41	Electrical water heater Ref. EWH - 80 Lit.	1	No.	210.00	210.00
		To Collection		JD	9,282.00

**DIVISION 15
MECHANICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
<u>SECTION 9: FUEL SYSTEM</u>					
15.42	Fuel oil storage tank, cylindrical type under ground. Ref. DIT Capacity: 20000 liter (2.5m dia. X 4.5m)	1	No.	9,800.00	9,800.00
15.43	Fuel pipes to BS-1387 Black steel Heavy class-seamless with fast seal protection tape.				
	1 - 15mm dia (1/2")	10	MR.	4.20	42.00
	2 - 20mm dia (3/4")	10	MR.	5.60	56.00
	3 - 25mm dia (1")	30	MR.	8.40	252.00
15.44	Filling cabinet complete with coupling and valve. Diam 65mm (2 1/2 ").	1	No.	140.00	140.00
15.45	Oil Content Gauge Diam 15mm (1/2 ").	1	No.	700.00	700.00
15.46	Oil filter 1. 15mm dia (1/2")	2	No.	35.00	70.00
15.47	Fire safety valve 1. Diam 15mm	2	No.	70.00	140.00
		To Collection		JD	11,200.00

**DIVISION 15
MECHANICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
<u>SECTION 10: FIRE FIGHTING SYSTEM</u>					
15.48	Fire pumping unit complete with all components as specified and shown on drawings, including pressure gauges, relief valves, release valves, gate valves check valves etc.				
	1 - Duty Pump REF. FEP, electric driven.	1	No.	14,000.00	14,000.00
	2 - Emergency pump – REF. FDP, diesel pump.	1	No.	14,000.00	14,000.00
	3 - Jockey pump - REF. FJP (Electric driven).	1	No.	2,800.00	2,800.00
	4 - Controllers and accessories for all pumps including wiring connections, and all components.	1	L.S.	11,900.00	11,900.00
	5 - Water measuring devices including flow meter and sensor.	1	No.	2,800.00	2,800.00
15.49	Fire hose reel cabinet REF. FHC.	17	No.	490.00	8,330.00
15.50	Black seamless steel pipes to ASTM A53 grade (A) schedule (40).				
	1 - Diam 20mm (3/4")	7	MR.	8.40	58.80
	2 - Diam 25mm (1")	5	MR.	11.90	59.50
	3 - Diam 32mm (1 1/4")	450	MR.	15.40	6,930.00
	4 - Diam 40mm (1 1/2")	120	MR.	18.90	2,268.00
	5 - Diam 50mm (2")	85	MR.	24.50	2,082.50
	6 - Diam 65mm (2 1/2 ")	85	MR.	35.00	2,975.00
	7 - Diam 100mm (4 ")	5	MR.	52.50	262.50
	8 - Diam 150mm (6 ")	20	MR.	84.00	1,680.00
	9 - Diam 200mm (8 ")	15	MR.	112.00	1,680.00
15.51	Ditto but fire fighting pipework external underground complete with anti corrosion paint and two layers of hessian and tar or self adhesive plastic tap.				
	1 - Diam 100mm	110	MR.	63.00	6,930.00
	2 - Diam 150mm	35	MR.	98.00	3,430.00
		To Collection		JD	82,186.30

**DIVISION 15
MECHANICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
<u>SECTION 10: FIRE FIGHTING SYSTEM</u>					
<u>(CONTD.)</u>					
15.52	Indicating O.S. & Y cast iron flanged gate valves.				
	1 - Diam 50mm	1	No.	70.00	70.00
	2 - Diam 150mm	4	No.	490.00	1,960.00
	3 - Diam 200mm	1	No.	700.00	700.00
15.53	Flexible coupling				
	1. Diam 200mm	1	No.	490.00	490.00
15.54	Automatic air release gate valve.				
	1. Diam 25mm	4	No.	49.00	196.00
15.55	Fire hydrant, pedestal type, complete with isolating valve.	3	No.	490.00	1,470.00
15.56	Siamese connection assembly complete with non-return valves.				
	Outlet diam : 100mm				
	Inlet diam : 65mm	1	No.	350.00	350.00
15.57	FM-200 System for Temporary Gallery	1	L.S.	35,000.00	35,000.00
		To Collection		JD	40,236.00

**DIVISION 15
MECHANICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	<u>SECTION 12: CONTROL</u>				
15.58	This section shall be read in conjunction with Section 12.00 of the Technical specifications, the Mechanical Drawing and schedule of equipment and material. A metal clad IP54 Motor control centers in the following areas, MCC shall comprise such as, but not limited to, 3ph isolating switch, busbars, circuit breakers, relays, phase failure phase reversal and under-voltage protection relay, indication lamps, push buttons voltmeter, ammeter, and all necessary equipment and accessories. Price shall include all control cables between each MCC and served equipment and isolator switches beside each equipment for maintenance. * (Refer to electrical BOQ for power cable) 1 - EMCC - 1 2 - EMCC - 2 3 - EMCC - 3	1 1 1	No. No. No.	7,000.00 7,000.00 7,000.00	7,000.00 7,000.00 7,000.00
15.59	All power cables between isolating switches and equipment.	1	L.S	3,500.00	3,500.00
15.60	All control and automatic control field devices such as, but not limited to thermostats, pressure states, 2--way control valves, actuators, temperature sensors, pressure sensors, smoke detector, motorized damper, humidity sensors, solenoid valves, automatic level control ... etc. as shown on drawing and called in specification.	1	L.S	14,000.00	14,000.00
15.61	Supply install test and commission: 1 - DDC controllers complete with all hardware digital and analog input and output electronics modules, software electronics and modems the price shall include all required labor for programming, engineering, testing and installation of the DDC. 2 - Point function modules (multi controllers). 3 - All application specific controller hardware firm ware and communications interface. 4 - Central system controllers. 5 - Terminal equipment controllers 6 - Gate way between central fire alarm panel and BMS.	1 1 1 1 1	L.S. L.S. L.S. L.S.	80,500.00	80,500.00
		To Collection		JD	119,000.00

**DIVISION 15
MECHANICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
<i>SECTION 14: SANITARY FIXTURES</i>					
15.62	Wash basin semi-pedestal type complete with one hole lever mixer and all trim and accessories.	2	No.	245.00	490.00
15.63	Wash basin countertop type	43	No.	210.00	9,030.00
15.64	European W.C floor mounted, bottom outlet.	24	No.	245.00	5,880.00
15.65	Ditto, but horizontal outlet	16	No.	245.00	3,920.00
15.66	Shower tray complete with shower head, diverter, hand spring, hose, bracket, and all accessories.	4	No.	280.00	1,120.00
15.67	Stainless steel sink single bowl complete with deck mounted mixer, angle valves and flexible connections. Dimensions: 1000mm x 600mm	4	No.	210.00	840.00
15.68	Chromium plated hand spray for WC's	40	No.	35.00	1,400.00
15.69	Urinal	17	No.	140.00	2,380.00
		To Collection		JD	25,060.00

**DIVISION 15
MECHANICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
<u>SECTION 15: ABOVE GROUND DRAINAGE SYSTEM</u>					
15.70	UPVC pipes and fittings to B.S. 4514 and BS 5255, for waste, soil, and rain water drainage services inside buildings.				
	1. Diam. 50mm (2").	160	MR.	5.60	896.00
	2. Diam 75mm (3")	120	MR.	8.00	960.00
	3. Diam 100mm (4")	600	MR.	11.00	6,600.00
15.71	Floor drain				
	1. Ref. FD	40	No.	70.00	2,800.00
15.72	Floor Cleanout sealed type including PVC sealed cover 100mm.				
		18	No.	30.00	540.00
15.73	Roof vent cap UPVC (RVC)				
	1. Diam 100mm (4 ")	4	No.	31.50	126.00
	Concrete drain trench with grill and frame including painting section size, 300 x 300mm.	10	LM.	35.00	350.00
		To Collection		JD	12,272.00

**DIVISION 15
MECHANICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	<u>SECTION 16: BELOW GROUND DRAINAGE SYSTEM</u>				
15.74	Manholes for sewage drainage complete with cover and steel steps as detailed on the drawings. Depth 60cm - 125cm. Dimensions: 600 x 600mm	3	No.	315.00	945.00
15.75	Ditto but dimensions: 800 x 800mm	2	No.	315.00	630.00
15.76	Ditto but dimensions: 900 x 900m	3	No.	350.00	1,050.00
15.77	UPVC drainage pipes and fittings to BS 4660 for external and below ground internal installations.				
	1 - Diam 100mm (4")	220	M.R.	17.50	3,850.00
	2 - Diam 150mm (6")	50	M.R.	21.00	1,050.00
15.78	Submersible pumpset complete with control panel (2 pumps) Ref. SUP - 2	1	Set	10,500.00	10,500.00
15.79	Submersible pump Ref. SUP - 1	2	No.	2,800.00	5,600.00
		To Collection		JD	23,625.00

DIVISION 16
ELECTRICAL WORKS

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	SECTION 1: POWER SYSTEM				
	<u>Preamble</u>				
	This Section shall be read in conjunction with parts of the electrical technical specifications general and particular and the Electrical Drawings except where otherwise indicated.				
	The unit price for all items in this Section shall include for supplying, installation, testing, and commissioning, unless otherwise specifically mentioned.				
	All Civil and Finishing Works related to the concerned item shall be included in the unit price, unless otherwise mentioned.				
	<u>Empty Conduits for main cables</u>				
16.1	Supply, install and test empty heavy duty UPVC conduits Diam 100mm, complete with all conduit accessories, civil works manholes, trenches with cover etc ... , according to the drawings, specifications and relevant code of practice and highest prevailing engineering standards.	66	M.R.	11.20	739.20
	<u>Single Core non-Armored Copper Cables</u>				
16.2	Supply, install, test and commission 600/1000V XLPE/PVC single-core copper cables including glands, cable ties, labeling, and all associated accessories according to the drawings, specifications and relevant codes of practice and highest prevailing engineering standards, for the following: 1C X 500mm ²	420	M.R.	17.50	7,350.00
	<u>Power Factor Correction Equipment</u>				
16.3	Supply, install, test and commission power factor correction equipment capable of correcting the PF to 0.9 minimum under full loads be suitable to operate on 400/230 V,3 - Phase, 50Hz including all accessories as specified and detailed and according to the codes of practice for the following: PFCE for MDB (500 KVAR)	1	L.S.	10,500.00	10,500.00
		To Collection		JD	18,589.20

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
SECTION 1: POWER SYSTEM (CONTD.)					
<u>Multi-core Non-armored Copper Cables</u>					
16.4	As item (16/1 - B), but PVC / PVC multi core copper cable for the following:-				
	4C X 400 + 1C X 240 mm2	285	M.R.	49.00	13,965.00
	4C X 300 + 1C X 150 mm2	291	M.R.	45.50	13,240.50
	4C X 185 + 1C X 95 mm2	326	M.R.	35.00	11,410.00
	4C X 150 + 1C X 95 mm2	143	M.R.	28.00	4,004.00
	4C X 95 + 1C X 50 mm2	43	M.R.	23.10	993.30
	4C X 70 + 1C X 35 mm2	84	M.R.	14.00	1,176.00
	4C X 50 + 1C X 25 mm2	173	M.R.	12.60	2,179.80
	4C X 35 + 1C X 16 mm2	142	M.R.	7.70	1,093.40
	4C X 25 + 1C X 16 mm2	168	M.R.	7.00	1,176.00
	4C X 16 + 1C X 16 mm3	178	M.R.	6.30	1,121.40
	4C X 10 + 1C X 10 mm2	139	M.R.	4.20	583.80
	4C X 6 + 1C X 6 mm2	5	M.R.	3.50	17.50
<u>Multicore, Non-armored, Fire Resistant Copper Cable</u>					
16.5	As item (16/1-B) bur for XLPE/PVC multicore, non-armored, copper fire resistant cable for the following:-				
	4C x 16 + 1C x 16mm2	60	M.R.	28.00	1,680.00
	4C x 6 + 1C x 6mm2	60	M.R.	14.00	840.00
<u>Main Distribution Boards (MDB)</u>					
16.6	Supply, install, test and commission complete main distribution board inclusive of all circuit breakers for outgoing and incoming cables, bus bars and their coupling unit, casing spaces for cables, cable clamps/terminals, cable shoes, current transformers, protection equipment, all associated civil works, foundations as required to form a complete unit. All shall be in accordance with the drawings, specification, the codes of practice and highest prevailing standards of engineering for:- 1- MDB	1	No.	17,500.00	17,500.00
		To Collection		JD	70,980.70

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	SECTION 1: POWER SYSTEM (CONTD.)				
	<u>Sub-Main Distribution Boards (SMD)</u>				
16.7	Supply, install, test and commission complete sub-main distribution board including all circuit breakers for incoming & outgoing cables, bus-bars, casing spaces for cables, cable clamps/terminals, cable shoes, protection equipment etc., as required to form a complete unit. All shall be in accordance with the drawings, codes of practice and highest prevailing engineering standards, for:-				
	1 - SMDB	1	No.	7,000.00	7,000.00
	2 - SMDG1	1	No.	2,100.00	2,100.00
	3 - SMDG2	1	No.	1,400.00	1,400.00
	4 - SMDS	1	No.	2,100.00	2,100.00
	<u>Secondary Distributions Boards</u>				
16.8	Supply, install, test and commission secondary distribution board, complete with circuit breaker on incoming and outgoing connection. The distribution board shall be of metal clad pattern complete with all circuit breakers, casing together with bus bars protection equipment having sufficient connections for all circuits served by the boards, all in accordance with the requirements of the specifications drawings and codes at practice for:				
	1 - DB1	1	No.	420.00	420.00
	2 - DB2	1	No.	420.00	420.00
	3 - DG1	1	No.	420.00	420.00
	4 - DG2	1	No.	420.00	420.00
	5 - DG3	1	No.	455.00	455.00
	6 - DG4	1	No.	385.00	385.00
	7 - DG5	1	No.	420.00	420.00
	8 - DG6	1	No.	420.00	420.00
	9 - DX	1	No.	840.00	840.00
	10 - DK	1	No.	280.00	280.00
	11 - DF1	1	No.	455.00	455.00
	12 - DS1	1	No.	385.00	385.00
	13 - DS2	1	No.	350.00	350.00
	14 - DS3	1	No.	385.00	385.00
	15 - DS4	1	No.	280.00	280.00
	16 - DS5	1	No.	350.00	350.00
	17 - DS6	1	No.	350.00	350.00
		To Collection		JD	19,635.00

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	<i>SECTION 1: POWER SYSTEM (CONTD.)</i>				
16.9	<u>Single- Phase Single receptacle, 16A, Unswitched</u> Supply, install, test and commission a complete single-phase single receptacle, unswitched, including all conductors, cables, conduits, terminal boxes, receptacle, and all connections between the appropriate distribution board to the terminal point, as specified and as detailed on drawings, for 1 gang 16A, earthed unswitched type.	155	No.	13.00	2,015.00
16.10	<u>Single phase Duplex Receptacle 16A Unswitched</u> Supply, install, test and commission as per item A above, but for 16A duplex receptacle, earthed unswitched type.	200	No.	16.00	3,200.00
16.11	<u>Spur Outlet 20A Switched</u> Supply, install, test and commission as per item A above, but for 20A spur outlet switched type with earthing pole, indication lamp and flex outlet.	214	No.	14.00	2,996.00
16.12	<u>Spur Outlet 20A, for Electric Water Heater</u> As per item A above but for electrical water heater	3	No.	17.50	52.50
16.13	<u>Spur Outlet 20A Switched, Water Proof</u> As per item A above but, water proof for hand dryer.	2	No.	17.50	35.00
16.14	<u>20A, Single Phase. Double Pole Switch</u> Supply, install, test, commission 20A single phase double pole switch with pilot lamp for water heater.	3	No.	21.00	63.00
16.15	<u>20A, Single Phase Low / Raise Switch</u> As per item A above but, low / raise switch	2	No.	31.50	63.00
16.16	<u>Single Phase, Single Receptacle 16A, Water Proof</u> As per item A above but water proof type.	21	No.	20.00	420.00
16.17	<u>Single Phase, Duplex Receptacle 16A, Floor Mounted Boxes</u> As per item A above but for floor mounted boxes, complete with single phase, duplex receptacle 16A and two RJ45 data cutters (CAT 5 cabling).	21	No.	140.00	2,940.00
16.18	<u>Three Phase, Single Receptacle, 32A, Industrial</u> As per item A above but three phase Industrial type, socket outlet complete with plug.	4	No.	45.50	182.00
16.19	<u>Single Phase, single receptacle 16A, Industrial Type</u> As per item A above but industrial type, socket outlet complete with plug.	9	No.	45.50	409.50
		To Collection		JD	12,376.00

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	SECTION 1: POWER SYSTEM (CONTD.)				
	<u>Isolating Switch and Cabling</u>				
16.20	Supply, install, test and commission complete with all cabling, conduits, galvanized steel trunking, boxes, isolating switch and all other accessories form the appropriate distribution board or MCC as specified and detailed on drawings for:				
	1 - Single phase 20A with earthing pole, IP 54	5	No.	42.00	210.00
	2 - Single phase 60A with earthing pole, IP 54	1	No.	87.50	87.50
	3 - Three phase, 20A with earthing pole IP 54	24	No.	56.00	1,344.00
	<u>Isolating Switch Without Cabling</u>				
16.21	As item A but without cabling				
	1 - Three phase, 30A with earthing pole IP 54.	1	No.	63.00	63.00
	2 - Three phase, 40A with earthing pole IP 54.	8	No.	87.50	700.00
	3 - Three phase, 60A with earthing pole IP 54.	1	No.	87.50	87.50
	4 - Three phase, 80A with earthing pole IP 54.	1	No.	112.00	112.00
	5 - Three phase, 100A with earthing pole IP 54.	3	No.	112.00	336.00
	6 - Three phase, 125A with earthing pole IP 54.	1	No.	210.00	210.00
	7 - Three phase, 250A with earthing pole IP 54.	1	No.	210.00	210.00
	8 - Three phase, 500A with earthing pole IP 54	2	No.	1,050.00	2,100.00
	<u>Under Floor Two Compartments Trunk System</u>				
16.21	Supply, install, test and commission under floor two compartments trunk system including all accessories outlet earthing, etc... as specified and detailed on plans.				
		68	M.R.	20.00	1,360.00
	<u>Power Cable Trays</u>				
16.22	Supply, install, test and commission hot deep galvanized steel after fabrication perforated cable tray, complete with all mounting accessories, tees, reducers, covers, elbows, etc. as shown on the drawings and specification for the following:				
	1 - 10cm wide	66	M.R	14.00	924.00
	2 - 20cm wide	62	M.R	14.00	868.00
	3 - 30cm wide	173	M.R	14.00	2,422.00
	4 - 50cm wide	32	M.R	31.50	1,008.00
	5 - 80cm wide	14	M.R	35.00	490.00
	6 - 90cm wide	57	M.R	42.00	2,394.00
	7 - 120cm wide	53	M.R	63.00	3,339.00
		To Collection		JD	18,265.00

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	SECTION 2: ILLUMINATION INSTALLATIONS				
	<u>Preamble</u>				
16.23	This Section shall be read in conjunction with parts of the electrical technical specifications general and particular and the Electrical Drawings except where otherwise indicated. The unit price for all items in this Section shall include for supplying, installation, testing, and commissioning, unless otherwise specifically mentioned. All Civil and Finishing Works related to the concerned item shall be included in the unit price, unless otherwise mentioned.				
	<u>Lighting Point</u>				
16.24	Supply, install, test and commission a complete lighting point including all conductors, cables, galvanized steel trunking, conduits (PVC or galvanized), switches, boxes ceiling rose, and all other accessories, from appropriate distribution board to lighting point, as specified and detailed on drawings.	2186	No.	14.93	32,636.98
	<u>External Lighting Point</u>				
16.25	Supply, install, test and commission a complete external lighting point including all conductors, cables, conduits, excavation works, boxes, foundations, and all mounting accessories, from appropriate distribution board to lighting point, as specified and detailed on drawings.	223	No.	35.00	7,805.00
		To Collection		JD	40,441.98

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	SECTION 2: ILLUMINATION INSTALLATIONS (CONTD.)				
	<u>Lighting Fixtures</u>				
16.26	Supply, install, test and commission complete lighting fixture, including all supports, lamps, switches connections, suspensions, clamps, switchgears, internal conductors and/or cables, and all other accessories necessary to provide a complete fitting with all terminals, as shown on the drawings and in accordance with the specifications.				
	1 - A1	69	No.	61.60	4,250.40
	2 - EA1	14	No.	116.20	1,626.80
	3 - A3	66	No.	56.70	3,742.20
	4 - EA3	7	No.	111.30	779.10
	5 - C1	10	No.	61.60	616.00
	6 - EC1	2	No.	116.20	232.40
	7 - E1	17	No.	68.60	1,166.20
	8 - EE1	3	No.	123.20	369.60
	9 - E2	13	No.	86.10	1,119.30
	10 - EE2	3	No.	140.70	422.10
	11 - E3	121	No.	36.40	4,404.40
	12 - EE3	25	No.	91.00	2,275.00
	13 - E4	89	No.	42.00	3,738.00
	14 - EE4	8	No.	68.60	548.80
	15 - F1	14	No.	61.60	862.40
	16 - EF1	3	No.	120.40	361.20
	17 - F2	238	No.	56.70	13,494.60
	18 - EF2	35	No.	116.20	4,067.00
	19 - F3	75	No.	54.60	4,095.00
	20 - EF3	18	No.	112.70	2,028.60
	21 - F4	13	No.	61.60	800.80
	22 - EF4	9	No.	116.20	1,045.80
	23 - F5	771	No.	283.50	218,578.50
	24 - EF5	49	No.	347.90	17,047.10
	25 - F6	12	No.	61.60	739.20
	26 - H	91	No.	81.90	7,452.90
	27 - EH	9	No.	65.10	585.90
	28 - K6	18	No.	42.00	756.00
	29 - M	42	No.	56.70	2,381.40
	30 - N1	118	No.	55.30	6,525.40
		To Collection		JD	306,112.10

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	SECTION 2: ILLUMINATION INSTALLATIONS (CONTD.) (A) Lighting Fixtures (Contd.)				
	31 - N4	53	No.	37.10	1,966.30
	32 - EN4	2	No.	91.00	182.00
	33 - O1	48	No.	396.20	19,017.60
	34 - O2	14	No.	376.60	5,272.40
	35 - O3	8	No.	371.00	2,968.00
	36 - P	7	No.	637.00	4,459.00
	37 - P1	28	No.	192.50	5,390.00
	38 - Q	28	No.	396.20	11,093.60
	39 - Q1	3	No.	399.00	1,197.00
	40 - R	69	No.	364.00	25,116.00
	41 - R1	14	No.	182.00	2,548.00
	42 - T	60	No.	175.00	10,500.00
	43 - T1	5	No.	210.00	1,050.00
	44 - S	9	No.	175.00	1,575.00
	<u>Escape Route Lighting</u>				
16.27	Supply, install, test and commission complete emergency lighting luminaries. The luminaries shall provide 3 hours operation after mains failure, including all wiring from adjacent lighting circuits, and/or appropriate distribution boards, using PVC wires and PVC conduits in accordance with the specifications and drawings for:				
	1 - Exit Sign type - 1	30	No.	149.80	4,494.00
	2 - Exit Sign type - 2	1	No.	126.00	126.00
	3 - Exit Sign type - 3	10	No.	160.30	1,603.00
	<u>Dimmer Switch</u>				
16.28	Supply, install, connect and commission lighting dimmer switches flush mounted including incoming conduits, conduit accessories, wires, boxes, dimmer itself, earthing etc., as specified and as shown on the drawings				
	1 - (1000 W Max) dimmer switch.	3	No.	105.00	315.00
		To Collection		JD	98,872.90

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	SECTION 2: ILLUMINATION INSTALLATIONS (CONTD.)				
	<u>Grid Switch</u>				
16.29	Supply, install, test and commission the following lighting grid switch panels, flush mounted, including incoming conduits, conduit accessories, wires, boxes, grids, cover plates, switches, earthing etc., as specified and shown on drawings.				
	1 - GS1	1	No.	350.00	350.00
	2 - GS2	1	No.	140.00	140.00
	3 - GS3	1	No.	210.00	210.00
	<u>Lighting Dimming System</u>				
16.30	Supply, install, test and commission complete dimming system including 24 zones dimming control panels, capable of setting 16 present scenes of lighting, dimmer panels consisting of 24 dimmers, 16A protected by single phase 16A breaker, switching panels, interfacing for computer software programming, conduits, feed wiring, load wiring, control wiring, boxes and all other accessories as specified and shown on the drawings.				
		1	L.S.	84,000.00	84,000.00
	<u>Lighting Track System</u>				
16.31	Supply, install, test and commission complete lighting track system, including lamps, supports, connections, suspensions clamps, spur outlet, and all other accessories, necessary to provide a complete fitting with all terminals as shown on the drawings and in accordance to specifications.				
		1565	M.R.	7.00	10,955.00
16.32	Lighting Fixtures for Track System Supply, install, test and commission complete lighting fixture with all accessories necessary to provide a complete fitting with all terminals for the following:				
	1 - 100W, Incandescent (R80) lamp, the body of the fixture is made of die cast aluminum and the reflector of 99.85% superpure aluminum, the flood light can be rotated by 330° on the vertical access and 90° on the horizontal axis similar to Iguzzini 8452 or approved equal.	188	No.	52.50	9,870.00
	2 - As item (D/1) but for 150 W/230V halogen lamp similar to Iguzzini 8462 or approved equal.	73	No.	105.00	7,665.00
	3 - As item (D/1) but for 50W/12V halogen lamp similar to Iguzzini 8478 or approved equal.	50	No.	210.00	10,500.00
					-
		To Collection		JD	123,690.00

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate JD/Fils	Amount JD/Fils
	<i>SECTION 3: EARTHING SYSTEM</i>				
	<u>Preamble</u>				
16.33	This Section shall be read in conjunction with parts of the electrical technical specifications general and particular and the Electrical Drawings except where otherwise indicated. The unit price for all items in this Section shall include for supplying, installation, testing, and commissioning, unless otherwise specifically mentioned. All Civil and Finishing Works related to the concerned item shall be included in the unit price, unless otherwise mentioned.				
	<u>Earthing System</u>				
16.34	Supply, install, test and commission a complete earthing system for the project including all conductors, copper bars, tape-clamps, conduits, manholes, and its heavy duty steel cover, fixing, etc., all in accordance with the specification, drawings, and codes of practice.	1	L.S.	350.00	350.00
	<u>Earthing for PABX, MDB</u>				
16.35	Ditto as item 1 but separate earthing for:				
	a. MDB	1	L.S.	350.00	350.00
	b. PABX	1	L.S.	350.00	350.00
	<u>Grounding</u>				
16.36	Supply, install, test and commission a complete ring grounding system for mechanical plants, chimney, all big metallic masses, etc., including all conductors, copper bars, clamps, conduits fixing etc., all in accordance with specifications, drawings and codes of practice.	1	L.S.	350.00	350.00
		To Collection		JD	1,400.00

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	SECTION 4: TELEPHONE SYSTEM				
	<u>Preamble</u>				
16.37	This Section shall be read in conjunction with parts of the electrical technical specifications general and particular and the Electrical Drawings except where otherwise indicated. The unit price for all items in this Section shall include for supplying, installation, testing, and commissioning, unless otherwise specifically mentioned. All Civil and Finishing Works related to the concerned item shall be included in the unit price, unless otherwise mentioned.				
	<u>Wall Mounted Telephone Points</u>				
16.38	Supply, install, test and commission complete telephone point boxes for socket outlets including all conduits fixing, boxes, wiring, outlet etc., according to specifications, and drawings.	29	No.	35.00	1,015.00
	<u>Main Telephone Terminal Board (MTTB) (100P)</u>				
16.39	Supply, install, test and commission main telephone terminal board (MTTB) complete with incoming cable and all accessories, needed for complete work, as specified and as detailed on drawings.	1	No.	1,050.00	1,050.00
	<u>Telephone Terminal Board (TTB)</u>				
16.40	Supply, install, test and commission telephone terminal boards (TTB) complete with all accessories needed for complete work, incoming cables, as specified and as detailed on drawings for the followings: TTBB (30 pairs)	1	No.	630.00	630.00
	TTBF (30 pairs)	1	No.	630.00	630.00
	<u>Main Patch Panel (MDPP)</u>				
16.41	Supply, install, test and commission main data patch panel complete with all accessories needed for the complete work, connection with main computer equipment and PABX.	1	No.	1,050.00	1,050.00
		To Collection		JD	4,375.00

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
<i>SECTION 4: TELEPHONE SYSTEM (CONTD.)</i>					
<u>Patch Panel (DPP)</u>					
16.42	Ditto as item D, but for secondary patch panels complete with fire optical connection from MDP to the DP as shown on the drawings.	1	No.	420.00	420.00
<u>Data Point</u>					
16.43	Supply, install, connect and commission complete data point boxes for socket outlet including all conduits fixing, boxes, cables (CAT 5), outlet RJ45 ... etc. According to specification and drawings.	43	No.	45.50	1,956.50
<u>Private Automatic Branch Exchange (PABX)</u>					
16.44	Supply, install, test and commission PABX 100 pairs internal and 10 pairs external complete with all internal wiring and all accessories needed for complete work. All shall be in accordance with specifications, drawings and code of practice, including the following special features:- 1- Automatic Hunter.	1	L.S.	17,500.00	17,500.00
<u>Empty Conduit for Main Telephone Cable</u>					
16.45	Supply, install, test and commission 4" heavy gauge rigged PVC conduit form the connection box to JTC. Price to include all necessary manholes as specified and detailed on drawings.	10	M.R.	7.00	70.00
<u>Low Current Cable Tray</u>					
16.46	Supply, install, test and commission hot deep galvanized steel (after fabrication) perforated cable tray, complete with all mounting accessories, tees, covers, elbows, etc. as shown on the drawings and specification for the following:- 1 - 50cm wide	22	M.R.	17.50	385.00
<u>Low Current Trunking</u>					
16.47	Supply, install, test and commission pre-galvanized steel trunk for low current systems for the following:- 1 - 10 x 5cm trunking	68	No.	14.00	952.00
	2 - 25 x 5cm trunking	68	No.	17.50	1,190.00
		To Collection		JD	22,473.50

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	SECTION 5: FIRE ALARM SYSTEM				
	<u>Preamble</u>				
16.48	This Section shall be read in conjunction with parts of the electrical technical specifications general and particular and the Electrical Drawings except where otherwise indicated. The unit price for all items in this Section shall include for supplying, installation, testing, and commissioning, unless otherwise specifically mentioned. All Civil and Finishing Works related to the concerned item shall be included in the unit price, unless otherwise mentioned.				
	<u>Fire-Alarm Control Panel</u>				
16.49	Supply, install, test and commission analogue addressable fire-alarm control panel inclusive of all equipment and accessories, batteries, charger, internal conductors and/or cables, switches, etc., in accordance with the requirements of the specifications and as shown on drawings for the following: a. FACP (4 Loops)	1	No.	7,000.00	7,000.00
	<u>Fire Alarm Annunciator Panels</u>				
16.50	Supply, install, test and commission a fire alarm annunciator panel analogue addressable type, zone display annunciator including all wiring needed (conductors boxes, conduits, etc.) from FACP to annunciator panel as specified and detailed on drawings.	2	No.	700.00	1,400.00
	<u>Fire-Man Telephone Points</u>				
16.51	Supply, install, test and commission fire-man telephone including all wiring needed (conductors, boxes, conduits etc.) as shown on the drawing.	6	No.	56.00	336.00
	<u>Fire-Alarm Heat-Detector (Analogue Addressable Type)</u>				
16.52	Supply, install, test and commission a fire-alarm heat-detector as per specifications and drawings.	20	No.	56.00	1,120.00
		To Collection		JD	9,856.00

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	<i>SECTION 5: FIRE ALARM SYSTEM (CONTD.)</i>				
	<u>Smoke Detector (Analogue Addressable Type)</u>				
16.53	Supply, install, test and commission a fire alarm smoke detector as per specifications and drawings.	162	No.	63.00	10,206.00
	<u>Fire Alarm Audiovisual</u>				
16.54	Supply, install, test and commission a fire alarm audiovisual as per specifications and drawings.	24	No.	56.00	1,344.00
	<u>Fire Alarm Bells</u>				
16.55	Supply, install, test and commission a fire alarm bells as per specifications and drawings.	3	No.	49.00	147.00
	<u>Manual Pull Station</u>				
16.56	Supply, install test and commission a fire alarm manual pull station with stopper cover as per specifications and as detailed on drawings.	24	No.	49.00	1,176.00
	<u>Control Devices</u>				
16.57	Supply, install, test and commission all needed control devices such as control modules, monitoring modules, short circuit isolators etc., for complete workable system as per requirements and specifications.	1	L.S.	700.00	700.00
	<u>Wiring For Fire-Alarm Points</u>				
16.58	Supply, install, test and commission all wiring for all fire alarm points (from the appropriate fire alarm panel to the detector) including conductors, conduits, boxes and all other accessories needed, as per specifications and as detailed on drawings.	241	No.	10.00	2,410.00
		To Collection		JD	15,983.00

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	<i>SECTION 6: PUBLIC ADDRESS SYSTEM</i>				
	<u>Preamble</u>				
16.59	This Section shall be read in conjunction with parts of the electrical technical specifications general and particular and the Electrical Drawings except where otherwise indicated. The unit price for all items in this Section shall include for supplying, installation, testing, and commissioning, unless otherwise specifically mentioned. All Civil and Finishing Works related to the concerned item shall be included in the unit price, unless otherwise mentioned.				
	<u>Main Public Address system Rack</u>				
16.60	Supply, install, test and commission the main public address system rack complete with desk type microphone (2 No.) double cassette tape (auto reverse) deck, amplifiers, zone switcher, tuner (FM, AM, SNR: FM = 60 dB, Am = 45 dB) and all other accessories. All as specified and as shown on drawings.	L.S.	L.S.	17,500.00	17,500.00
	<u>Loudspeaker (Ceiling Mounted)</u>				
16.61	Supply, install, test and commission ceiling mounted loudspeaker recessed type unit (6/8W, 8 ohm), with matching transformer with adjustable power outlet including all accessories as specified and as shown on drawings.	128	No.	45.50	5,824.00
	<u>Loudspeaker (Wall Mounted)</u>				
16.62	As per item (2) but 15 W wall mounted type.	21	No.	52.50	1,102.50
	<u>Wiring for Loudspeaker</u>				
16.63	Supply, install, test and commission all wiring needed for the loudspeaker, conduits, wires, boxes, etc., from the main rack sound unit to the loudspeaker. All as specified and as shown on drawings.	149	No.	31.50	4,693.50
		To Collection		JD	29,120.00

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
SECTION 6: PUBLIC ADDRESS SYSTEM (CONTD.)					
	<u>Paging Desk</u>				
16.64	Supply, install, test and commission the digital, multi-zone, keyboard- type paging desk with LCD display.	2	No.	3,500.00	7,000.00
	<u>Local Public Address System Rack</u>				
16.65	19" local public address/music distribution system rack including 1 No. CD player, 1No. Industrial auto-reverse double cassette player, 1 No. FM digital tuner with 16 present station, 1 No. AM digital tuner for MW and LW and all the necessary power amplifiers required to produce the specified sound pressure levels, line and microphone preamplifiers, and interface equipment required to link local system with fire alarm and central public address/music distribution and voice alarm systems. (Included in Audio & Video Distribution System).	1	L.S.		1,000.00
		To Collection		JD	8,000.00

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	SECTION 7: SECURITY & ACCESS CONTROL SYSTEMS				
	<u>Preamble</u>				
16.66	This Section shall be read in conjunction with parts of the electrical technical specifications general and particular and the Electrical Drawings except where otherwise indicated. The unit price for all items in this Section shall include for supplying, installation, testing, and commissioning, unless otherwise specifically mentioned. All Civil and Finishing Works related to the concerned item shall be included in the unit price, unless otherwise mentioned.				
	<u>Security Control Devices</u>				
16.67	Supply, install, test and commission a security system including wiring, conduits, boxes and all other accessories and consisting of: 1 - 24 - zone security control panel complete with battery and charger. 2 - Remote keypad. 3 - Ceiling mounted infrared 4 - Wall mounted infrared 5 - Security break glass detector 6 - Heavy duty magnetic contact 7 - Power supply unit complete with 4 - programmable relay outputs.	1 2 52 10 44 15 1	No. No. No. No. No. No. No.		
	<u>Access Control Devices</u>				
16.68	Supply, install, test and commission Access control system including wiring, conduits, boxes and all other accessories and consisting of: 1 - Dual door access control module 2 - Proximity reader 3 - Request to exit infrared 4 - Door electric lock 5 - Door magnetic contact	2 3 3 3 3	No. No. No. No. No.		
		To Collection		JD	50,000.00

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	SECTION 8: CCTV SYSTEM				
	<u>Preamble</u>				
16.69	This Section shall be read in conjunction with parts of the electrical technical specifications general and particular and the Electrical Drawings except where otherwise indicated. The unit price for all items in this Section shall include for supplying, installation, testing, and commissioning, unless otherwise specifically mentioned. All Civil and Finishing Works related to the concerned item shall be included in the unit price, unless otherwise mentioned.				
	<u>14" High Resolution Colored Monitor</u>				
16.70	Supply, install, test and commission 14" high resolution colored monitor for CCTV system including all accessories needed, all as specified and as detailed on the drawings.	2	No.		
	<u>Matrix Switcher</u>				
16.71	Supply, install, test and commission a digital multiplexer for 16 camera input and 4 monitor output expandable, with 16 alarm inputs complete with built in key board including all accessories needed as specified and detailed on drawings.	1	No.		
	<u>Time Lapse Video Cassette Recorder (VCR)</u>				
16.72	Supply, install, test and commission time lapse VCR (960 hour) for CCTV system including all accessories needed. All as specified and as detailed on the drawings.	1	No.		
	<u>Fixed Type Colored CCTV Camera</u>				
16.73	Supply, install, test and commission a complete fixed type colored indoor 1/3" complete with 8mm lens CCTV camera including all necessary accessories as specified and detailed on the drawings.	9	No.		
	<u>Fixed Type Outdoor Colored CCTV Camera</u>				
16.74	As per item D but for outdoor type.	1	No.		
		To Collection		JD	55,000.00

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	<i>SECTION 9: LIGHTNING SYSTEM</i>				
	<u>Preamble</u>				
16.75	This Section shall be read in conjunction with parts of the electrical technical specifications general and particular and the Electrical Drawings except where otherwise indicated. The unit price for all items in this Section shall include for supplying, installation, testing, and commissioning, unless otherwise specifically mentioned. All Civil and Finishing Works related to the concerned item shall be included in the unit price, unless otherwise mentioned.				
	<u>Lightning System</u>				
16.76	Supply, install, test and commission a lightning protection system as designed and as the general requirements of the specifications and as shown on drawings. The system is to be installed complete with copper tape (25 x 3mm ²) down conductors plates, earthing rods, air terminals, clamps, concrete inspection pits, cables, trunks, etc. All in accordance with relevant codes of practice, drawings, and highest prevailing engineering standards and meeting the safety and other requirements of the appropriate local authority.	1	L.S.	2,100.00	2,100.00
		To Collection		JD	2,100.00

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	SECTION 10: AUDIO & VIDEO DISTRIBUTION SYSTEM				
	<u>Preamble</u>				
16.77	This Section shall be read in conjunction with parts of the electrical technical specifications general and particular and the Electrical Drawings except where otherwise indicated. The unit price for all items in this Section shall include for supplying, installation, testing, and commissioning, unless otherwise specifically mentioned. All Civil and Finishing Works related to the concerned item shall be included in the unit price, unless otherwise mentioned. Design, supply, install on site, programming, testing and commissioning of AV system, complete with all related equipment and accessories as per the attached drawings and specifications, conduits, conduit accessories, cabling, earthing, comprising the following:-				
16.78	3500 ANSI Lumen LCD video / data projector complete with communication cable and motorized zoom lens	1	No.		
16.79	Video / data / audio switcher / projector controller complete with:- 1 No. CV input module 1 No. SV input module 2 No. RGB analog input module 2 No. output module 1 No. Communication module	1	L.S.		
16.80	Multifunctional analog graphics interface	2	No.		
16.81	Electric projector lift with ceiling closure panel and remote control system.	1	No.		
16.82	3.5m x 3m ceiling / wall mount electric projection screen.	1	No.		
16.83	Multimedia video imaging presenter	1	No.		
		To Collection		JD	35,000.00

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	SECTION 10: AUDIO & VIDEO DISTRIBUTION SYSTEM (CONTD.)				
16.84	Multi standard VHS stereo recorder / player	1	No.		
16.85	Handheld radio microphone system	1	No.		
16.86	Pocket / clip - on radio microphone system	1	No.		
16.87	Tabletop dynamic gooseneck microphone with built-in preamplifier.	1	No.		
16.88	Rackmount 5 - disc CD player	1	No.		
16.89	Rackmount twin audio cassette player	1	No.		
16.90	Rackmount AM / FM tuner	1	No.		
16.91	16 x 4 Audio mixing console	1	No.		
16.92	Headphone	1	No.		
16.93	15 / 25 Watt HIFI ceiling loudspeaker	6	No.		
		To Collection		JD	35,000.00

**DIVISION 16
ELECTRICAL
WORKS**

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	COLLECTION				
	Page No. 16 / 1				18,589.20
	Page No. 16 / 2				70,980.70
	Page No. 16 / 3				19,635.00
	Page No. 16 / 4				12,376.00
	Page No. 16 / 5				18,265.00
	Page No. 16 / 6				40,441.98
	Page No. 16 / 7				306,112.10
	Page No. 16 / 8				98,872.90
	Page No. 16 / 9				123,690.00
	Page No. 16 / 10				1,400.00
	Page No. 16 / 11				4,375.00
	Page No. 16 / 12				22,473.50
	Page No. 16 / 13				9,856.00
	Page No. 16 / 14				15,983.00
	Page No. 16 / 15				29,120.00
	Page No. 16 / 16				8,000.00
	Page No. 16 / 17				50,000.00
	Page No. 16 / 18				55,000.00
	Page No. 16 / 19				2,100.00
	Page No. 16 / 20				35,000.00
	Page No. 16 / 21				35,000.00
				To Summary	977,270.38
				JD	

NATIONAL MUSEUM SUB-PROJECT
THE TOURISM SECTOR DEVELOPMENT PROJECT

VOLUME III
BILL NO. 2 EXTERNAL WORKS

PRICED COPY

**BILL NO. 2
SUMMARY**

Div. No.	Description	Quantity	Unit	Rate	Amount
				JD/FILS	JD/FILS
	SUMMARY				
2	Sitework				30,762.00
3	Concrete				211,345.00
4	Masonry				33,100.00
5	Metals				900.00
6	Wood and Plastics				15,800.00
9	Finishes				172,720.00
				To Grand Summary JD	464,627.00

BILL NO. 2
DIVISION NO. 2 - SITEWORK

Item	Description	Qty.	Unit	Unit Rate	Amount
				JD/Fils	JD/Fils
	SITEWORK				
	<u>02110 - Clearing</u>				
	<u>Site Preparation</u> Clear the site from deleterious materials vegetation, debris, rubbish etc.				
2.1	Clearing the site generally	1	Item	1,000.00	1,000.00
2.1a	Protection of existing utilites (Provisional Sum)	1	LS	10,500.00	10,500.00
	<u>02219 - Structural Excavation & Backfilling</u>				
	<u>Excavation</u> Excavation in any kind of soil, rock ... etc., starting at natural ground levels and removal of surplus excavated materials from site to dumping area complete as per specifications				
2.2	Reduce Level Excavation, Generally	1500	m3	2.50	3,750.00
2.2a	Compaction excavated sub-grade (Provisional Sum)	1	LS	5,300.00	5,300.00
2.2b	Loose soil replacement and compaction to 10t/m3 (Provisional Sum)	1	LS	3,000.00	3,000.00
	<u>Filling</u> Imported selected hardcore and base course material including all necessary compaction complete as per specifications				
2.3	150 mm thick, beds	659	m3	6.00	3,954.00
		To Collection		JD	27,504.00

**BILL NO. 2
DIVISION 2
SITEWORK**

Item	Description	Qty.	Unit	Unit Rate	Amount
				JD/Fils	JD/Fils
	<p>SITEWORK (CONT'D)</p> <p><u>02480 - Landscape Development</u></p> <p><u>Planting Soil</u> Mixed planting soil for planters and ground covers, from natural domestic dune sweet sand suitable for the production of agricultural crops, and shall have a maximum 02% total dissolved salt and shall be free of spilled fuels, chemical contamination, stones, weeds, roots debris and other deleterious substances all as described and instructed by the Engineer</p>				
2.4	<p>Agricultural soil material for planters and ground cover, variable thickness</p>	61	m3	3.00	183.00
	<p><u>Sundries</u> Natural pebbles stone "different sizes and shapes" complete as shown on drawings and as per specifications</p>				
2.5	<p>Laid loose, over slab on grade to pavements</p>	123	m3	25.00	3,075.00
		To Collection		JD	3,258.00

BILL NO. 2
DIVISION NO. 3 - CONCRETE

Item	Description	Qty.	Unit	Unit Rate	Amount
				JD/Fils	JD/Fils
	CONCRETE				
	<u>03200 - Concrete Reinforcement</u> Deformed high yield steel bar reinforcement of characteristic strength FY=420 MPa, including bending, hooks, tying wires, distance blocks and spacers, complete as per specifications				
3.1	Various diameters	71.77	ton	400.00	28,708.00
	<u>03300 - Cast-In-Place Concrete</u> <u>03370 - Concrete Curing</u> Plain concrete "C15", 15 Mpa at 28 days compressive strength with ordinary Portland cement complete as per specifications				
3.2	50 mm thick blinding	219	m3	45.00	9,855.00
	Reinforced concrete (C25), 25 Mpa at 28 days compressive strength with ordinary Portland cement complete as shown on drawings and as per specifications				
3.3	Slab on Grade, 150mm thick	659	m3	58.00	38,222.00
	<u>03346 - CONCRETE FLOOR FINISHING</u> Stamped Reinforced concrete flooring with hardener complete as shown on drawings and as per specifications				
3.4	150 mm thick, to floors	2320	m2	58.00	134,560.00
			To Summary	JD	211,345.00

BILL NO. 2
DIVISION NO. 4 - MASONRY

Item	Description	Qty.	Unit	Unit Rate	Amount
				JD/Fils	JD/Fils
	MASONRY				
	<u>04450 - Natural Stone Work</u>				
	First quality stone works including all special stones, framing, grooves, recess and voids, all necessary concrete works, reinforcement steel bars, formworks, mechanical fixing system, mortar, pointing, fixing and fitting complete as shown on drawings and as per specifications				
4.1	To columns, 50mm thick stone cladding, 1000 x 1000 x 200mm thick stone coping, overall size 1100 x 1100 x 5200mm high	8	No.	1,600.00	12,800.00
4.2	Decorative stone museum logo, overall size 6500mm x 1000mm x 1000/500 height	1	No.	1,500.00	1,500.00
4.3	To water fountain, 50mm thick stone cladding, 500 x 200mm thick stone coping and 1500 x 1500 x 400mm thick sprayed clear waterproof fountain stone basin, overall size 3500 x 3500 x 800mm height	4	No.	3,500.00	14,000.00
4.5	To planters, 50mm thick stone cladding, 100 x 50mm thick stone coping, overall size 1100 x 1100 x 500mm height	6	No.	400.00	2,400.00
4.5	To Seats, 50mm thick stone cladding, 1100 x 1100 x 200mm thick stone capping overall size 1100 x 1100 x 500mm height	6	No.	400.00	2,400.00
		To Summary		JD	33,100.00

BILL NO. 2
DIVISION NO. 5 - METALS

Item	Description	Qty.	Unit	Unit Rate	Amount
				JD/Fils	JD/Fils
	METALS <u>05500 - Miscellaneous Metals</u> Steel tree cover grating including all necessary fixings, fittings, accessories and decoration complete as shown on drawings and as per specifications				
5.1	Steel tree cover overall size 900 x 900mm	18	No.	50.00	900.00
			To Summary	JD	900.00

BILL NO. 2
DIVISION 6 - WOOD AND PLASTIC

Item	Description	Quantity	Unit	Rate	Amount
				JD/Fils	JD/Fils
	<p>WOOD AND PLASTIC</p> <p><u>06423 - Wooden Pergolas</u> Wooden pergolas comprising 50 x 150mm solid wood main and diagonal beams, 50 x 70mm solid wood intermediate beams, solid wood down stand at center, 150 x 150 x 250mm steel tube including all necessary fixings, fittings, accessories and decoration complete as shown on drawings and as pr specifications.</p>				
6.1	Wooden Pergolas	158	m2	100.00	15,800.00
		To Summary		JD	15,800.00

BILL NO. 2
DIVISION NO. 9 - FINISHES

Item	Description	Qty.	Unit	Unit Rate	Amount
				JD/Fils	JD/Fils
	FINISHES				
	<u>09610 - Stone Flooring</u> Stone floor tiles on and including cement and sand mortar bed, sand fill material, cutting, fittings, fixings and grouting complete as shown on drawings and as per specifications				
9.1	30mm thick floor tiles, bush hammered finish	1646	m2	45.00	74,070.00
9.2	Ditto, bush hammered finish, curved on plan	28	m2	50.00	1,400.00
9.3	Ditto, musamsam finish	516	m2	45.00	23,220.00
9.4	Ditto, matabba finish	436	m2	45.00	19,620.00
9.5	Ditto, honed finish	1108	m2	45.00	49,860.00
9.6	Ditto, honed finish, curved on plan	22	m2	50.00	1,100.00
9.7	Stone curbs, overall size 300mm wide x 300mm thick	138	m	25.00	3,450.00
		To Summary		JD	172,720.00

NATIONAL MUSEUM SUB-PROJECT
THE TOURISM SECTOR DEVELOPMENT PROJECT

VOLUME III
BILL NO. 3 EXHIBITION WORKS

PRICED COPY

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
	<u>EXHIBITION WORKS</u>				
	<u>Price includes necessary data and material collection, research and editing of software</u>				
A	Orientation Plaza				
1	Orientation Plaza				
	• Guidance of Jordan Topography/Sites This model consisting of acrylic boards (Topographical Map Lank B) 5,300 mm wide x 5,900 mm Visitor will first comprehend the characteristics of geographical location and natural environment of Jordan which is a intersection of several civilizations and is connecting with all the world. In this section, visitors can also take the information ,such as the location and abstracts of archaeological sites and museums, which is indispensable to visit the sites. Map, scale 1/76,000 including entier Jordan with a part of Mediterranean. Powder coating with natural color depend on aerial photo Contou line expressed acrylic sheet layers LED lights located with 30 locations as shown on detailed drawing No.(EX-35, M-1) Specification No.Article 3-2	No..	1	495,240.00	495,240.00
	• Stage of model(M-1) Stone stage consisting of 8 mm thick glass fence. size : 5,900 mm wide x 6,500 mm x 500 height based on the steel flame size :50 mm x 50 mm x 5 mm with tabular florescent lights as shown on detailed drawing No.(EX-034 & 037)	No..	1	8,000.00	8,000.00
	• Audio visual system Three(3) sets of DVD, Plasma Display, wall flush mount type AV.<A> set A-1 FLAT PANEL COLOR VIDEO MONITOR(3 sets) A-2 MOUNTING BRACKETS FOR FLAT PANEL MONITOR(3 sets) A-3 DVD PLAYER(3 sets) A-4 SYSTEM OPERATION COMPUTER(3 sets) A-5 I/F UNIT(1 set) A-6 POWERD MIXER(1 set) A-7 GRAPHIC EQUALIZER(1 set) A-8 SPEAKER(1 set) A-9 SPEAKER HOLDER(2 sets) A-10 CONNECTING CABLES(1 set) A-11 INSTALLATION MATERIAL(1 set) as shown on detailed drawing No.(EX-40, A-1) Specification No.Article 4	No..	1	174,000.00	174,000.00
	Total to Collection				677,240.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
	<ul style="list-style-type: none"> • AV.soft(Nature and Culture of Jordan) 3 minutes(edit the existing software) Naration with Music with as shown on detailed drawing No.(EX-40, A-1) Specification No.Article 4 (Provisional Sum) 	LS	1	3,500.00	3,500.00
B 1	Corridor Of Time(Histrical Exhibition) Hunter & Gatherers <ul style="list-style-type: none"> • Sign of the exhibition room sign of the exhibition room consisting of wooden panel with flex size: 2,000 mm wide x 2,500 mm height t = 20 mm Text 1, Photo 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-39) Specification No.Article 2 • Explanation of the theme Explanation of the theme panel consisting of 8 mm thick clear float glass panel wih flex size: 1,000 mm wide x 4,500 mm height Text 1, Photo 1, Drawing 1 as shown on detailed drawing No.(EX-39) Specification No.Article 2 • Model of scene of life of early man FRP/clay model (Diorama Lank A) size: 3,000 mm wide x 1,500 mm Exhibit on hunting era. Forest scenery as background and 3 men standing by bonfire after hunting Scale 1/1 model of (Natural Color Finishing) as shown on detailed drawing No.(EX-35, M-2) Specification No.Article 3 • Panel type A Panel type A consisting of wooden panel with flex size : 1,800 mm wide x 2,000 mm height t = 30 mm Text 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 • Panel type B Panel type B consisting of wooden panel with flex size : 1,000 mm wide x 1,000 mm height t = 20 mm Text 1, Drawing 1, Photo 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	1	2,250.00	2,250.00
		No.	1	1,120.00	1,120.00
		No.	1	207,000.00	207,000.00
		No.	2	1,680.00	3,360.00
		No.	2	1,070.00	2,140.00
Total to Collection					219,370.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
•	Glass case (H=0.5 m) Type-A Show cases consisting of 8 mm thick clear glass overall size 1,500 mm x 700 mm x 500 mm height based on steel frame 1) steel angles 2) glasses 3) others Should be installed on the archetectural platform as shown on detailed drawing No.(EX-007 & 028) Specification No.Article 1	No.	3	1,100.00 600.00 400.00 100.00	3,300.00
3	Traditional to food production				
•	Sign of the exhibition room sign of the exhibition room consisting of wooden panel with flex size: 2,000 mm wide x 2,500 mm height t = 20 mm Text 1, Photo 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-39) Specification No.Article 2	No.	1	2,250.00	2,250.00
•	Explanation of the theme Explanation of the theme consisting of 8mm thick clear float glass panel with flex size : 1,000 mm wide x 4,500 mm height Text 1, Photo 1, Drawing 1 as shown on detailed drawing No.(EX-39) Specification No.Article 2	No.	1		1,120.00
•	Panel type B Panel type B consisting og wooden panel wigh flex size : 1,000 mm wide x 1,000 mm height t = 20 mm Text 1, Drawing 1, Photo 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	4	1,070.00	4,280.00
•	Panel type A Panel type A consisting og wooden panel wigh flex size : 1,800 mm wide x 2,000 mm height t = 30 mm Text 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	2	1,680.00	3,360.00
•	Dwelling in transitional period(mesolithic) (Architectural Model Lank B) size : 3,500 mm wide x 2,500 mm Scale 1/10 model with wooden frame to express structure of building, Base made of FRP. natural color finishing. as shown on detailed drawing No.(EX-35, M-3) Specification No.Article 3	No.	1	146,125.00	146,125.00
Total to Collection					160,435.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
	<ul style="list-style-type: none"> • Stage of model / stone(M-3) size : 4,000 mm wide x 3,000 mm x 500 mm height based on the steel flame size :50 mm x 50 mm x 5 mm with tabular florescent lights as shown on detailed drawing No.(EX-034) 	No.	1	1,800.00	1,800.00
	<ul style="list-style-type: none"> • Glass case (H=0.5 m) Type-A Show cases consisting of 8 mm thick clear glass overall size 1,500 mm x 700 mm x 500 mm height based on steel flame 1) steel angles 2) glasses 3) others Should be installed on the archetectoral platform as shown on detailed drawing No.(EX-007 & 028) Specification No.Article 1 	No.	5	1,100.00 600.00 400.00 100.00	5,500.00
4	Early Farming Communities				
4.1	Early Villages				
	<ul style="list-style-type: none"> • Sign of the exhibition room Sign of the exhibition room consisting of wooden panel with flex size : 2,000 mm wide x 2,500 mm height t = 20 mm Text 1, Photo 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-39) Specification No.Article 2 	No.	1	2,250.00	2,250.00
	<ul style="list-style-type: none"> • Explanation of the theme Explanation of the theme consisting of 8 mm thick clear float glass panel with flex size: 1,000 mm wide x 4,500 mm height Text 1, Photo 1, Drawing 1 as shown on detailed drawing No.(EX-39) Specification No.Article 2 	No.	1	1,120.00	1,120.00
	<ul style="list-style-type: none"> • Panel type B Panel type B consisting of wooden panel with flex size : 1,000 mm wide x 1,000 mm height t = 20 mm Text 1, Drawing 1, Photo 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	4	1,070.00	4,280.00
	<ul style="list-style-type: none"> • Panel type D Panel type D consisting of wooden panel with flex size : 3,000 mm wide x 2,000 mm height t = 30 mm Text 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	2	3,360.00	6,720.00
Total to Collection					21,670.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
•	Model of circular house in PPNA period FRP/stone/ wood / plaster (Architectural Model Lank B) size : 2,000 mm wide x 1,500 mm 4 circuler model houses with scale of 1/10 Base made of FRP, Finishing fof builbing are stone, wood and plaster with natural color paint. as shown on detailed drawing No.(EX-35, M-4) Specification No.Article 3	No.	1	50,100.00	50,100.00
•	Model of early farming village FRP / wood(Architectural Model Lank B) size : 6,300 mm wide x 2,400 mm x 500 mm height Restored house of Ain ghazal in the neolithic era. with 6 houses, 20 trees and sky as seanary Base made of FRP. Finish for hauses are stone, wood, plaster with natural color. as shown on detailed drawing No.(EX-35, M-4) Specification No.Article 3	No.	1	252,504.00	252,504.00
•	Showcase for statue Type-F Showcase consisting of 5 mm and 10 mm thick special glass "museum glass", overall size 2,000 mm x 2,000 mm x 2,000 mm with stone, based on the steel flame size :45 mm x 45 mm x 1.6 mm with tabular florescent lights including the following function air proof case seismically isolated function for 1 case 1) steel angles 2) glasses 3) others 4) isolation system as shown on detailed drawing No.(EX-008 & 029) Specification No.Article 1 & 6	No.	1	69,000.00 17,250.00 10,350.00 6,900.00 34,500.00	69,000.00
•	Stage for burial glass/stone size : 2,000 mm wide x 1,500 mm x 500 mm height based on the steel flame size :50 mm x 50 mm x 5 mm with stone and tabular florescent lights as shown on detailed drawing No.(EX-034)	No.	1	450.00	450.00
•	Glass case Type-A Show cases consisting of 8 mm thick clear glass overall size 1,500 mm x 700 mm x 500 mm height based on steel flame 1) steel angles 2) glasses 3) others Should be installed on the archetectoral platform as shown on detailed drawing No.(EX-008 & 028) Specification No.Article 1	No.	4	1,100.00 600.00 400.00 100.00	4,400.00
	Total to Collection				376,454.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
4.2	Developed Village				
	<ul style="list-style-type: none"> Explanation of the theme Explanation of the theme consisting of 8mm thick clear float glass panel with flex size : 1,000 mm wide x 4,500 mm height Text 1, Photo 1, Drawing 1 as shown on detailed drawing No.(EX-39) Specification No.Article 2 	No.	1	1,120.00	1,120.00
	<ul style="list-style-type: none"> Panel type B Panel type B consisting of wooden panel with flex size : 1,000 mm wide x 1,000 mm height t = 20 mm Text 1, Drawing 1, Photo 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	5	1,070.00	5,350.00
	<ul style="list-style-type: none"> Panel type D Panel type D consisting of wooden panel with flex size : 3,000 mm wide x 2,000 mm height t = 30 mm Text 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	2	3,360.00	6,720.00
	<ul style="list-style-type: none"> Glass case Type-A Show cases consisting of 8 mm thick clear glass overall size 1,500 mm x 700 mm x 500 mm height based on steel flame 1) steel angles 2) glasses 3) others Should be installed on the archetectoral platform as shown on detailed drawing No.(EX-008 & 028) Specification No.Article 1 	No.	4	1,100.00 600.00 400.00 100.00	4,400.00
5	Pastoral Nomads				
	<ul style="list-style-type: none"> Sign of the exhibition room sign of the exhibition room consisting of wooden panel with flex size: 2,000 mm wide x 2,500 mm height t = 20 mm Text 1, Photo 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	1	2,250.00	2,250.00
	<ul style="list-style-type: none"> Explanation of the theme Explanation of the theme consisting of 8 mm thick clear float glass panel with flex size: 1,000 mm wide x 4,500 mm height Text 1, Photo 1, Drawing 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	1	1,120.00	1,120.00
Total to Collection					20,960.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
	<ul style="list-style-type: none"> Panel type B Panel type B consisting of wooden panel with flex size : 1,000 mm wide x 1,000 mm height t = 20 mm Text 1, Drawing 1, Photo 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	2	1,070.00	2,140.00
	<ul style="list-style-type: none"> Large scale photo of desert landscape & pastral nomads today photo size 8,000 mm wide x 5,000 mm height Flex Desert scenery with image of Pastral Nomad as shown on detailed drawing No.(EX-010) Specification No.Article 2 	No.	1	5,000.00	5,000.00
	<ul style="list-style-type: none"> Glass cover Glass cover consisting of 8 mm thick float glass Size 7,500 mm wide x 1,800 mm 250 mm height based on the stainless steel angle size 70 mm x 50 mm x 3 mm as shown on detailed drawing No.(EX-010) Specification No.Article 1 	No.	1	5,000.00	5,000.00
6	City States				
	<ul style="list-style-type: none"> Sign of the exhibition room sign of the exhibition room consisting of wooden panel with flex size: 2,000 mm wide x 2,500 mm height t = 20 mm Text 1, Photo 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	1	2,250.00	2,250.00
	<ul style="list-style-type: none"> Explanation of the theme Explanation of the theme consisting of 8 mm thick clear float glass panel with flex size: 1,000 mm wide x 4,500 mm height Text 1, Photo 1, Drawing 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	3	1,120.00	3,360.00
	<ul style="list-style-type: none"> Topography map of city water system paper (Topographical Map Lank C) size : 4,800 mm wide x 1,800 mm x 500 mm height Restore Jawa's city water system by model scale 1/2000, contour by cardboard layer. color of base is 1 as shown on detailed drawing No.(EX-012 & 35, M-6) Specification No.Article 3 	No.	1	82,080.00	82,080.00
Total to Collection					99,830.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
	<ul style="list-style-type: none"> • Stage for model of Topography map stone stage(M-6) size : 5,000 mm wide x 2,000 mm x 500 mm height based on the steel flame size :50 mm x 50 mm x 5 mm with tabular florescent lights as shown on detailed drawing No.(EX-034) 	No.	1	1,500.00	1,500.00
	<ul style="list-style-type: none"> • Case for figurine with pottery Type-G Showcase consisting of 10 mm thick special glass "museum glass", overall size 2,000 mm x 1,000 mm x 500 mm including the following function based on the steel flame size :50 mm x 50 mm x 5 mm with stone(t = 40 mm) and tabular florescent lights Including function <ul style="list-style-type: none"> air proof case seismically isolated function for 1 case 1) steel angles 2) glasses 3) others 4) isolation system as shown on detailed drawing No.(EX-011 & 028) Specification No.Article 1 & 6	No.	1	40,000.00 10,000.00 6,000.00 4,000.00 20,000.00	40,000.00
	<ul style="list-style-type: none"> • Panel type B Panel type B consisting og wooden panel wigh flex size : 1,000 mm wide x 1,000 mm height t = 20 mm Text 1, Drawing 1, Photo 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	6	1,070.00	6,420.00
	<ul style="list-style-type: none"> • Panel type C(Temple top plan) Panel type C consisting of wooden panel with flex size : 2,000 mm wide x 2,000 mm height t = 30 mm Text 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	1	1,860.00	1,860.00
	<ul style="list-style-type: none"> • Panel type D Panel type D consisting of wooden panel with flex size : 3,000 mm wide x 2,000 mm height t = 30 mm Text 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	1	3,360.00	3,360.00
	<ul style="list-style-type: none"> • Stage for panel C(Temple top plan) stone stage size: 2,000 mm wide x 2,000 mm x 500 mm height t = 30 mm Text 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) 	No.	1	600.00	600.00
Total to Collection					53,740.00

National Museum Exhibition Estimation

Item No.	Description	Unit	Quaty	Museum	
				Rate J.D.	Amount J.D.
•	Glass case Type-C Show cases consisting of 8 mm thick clear glass overall size 2,000 mm x 700 mm x 1,000 mm height based on steel flame 1) steel angles 2) glasses 3) others Should be installed on the archetectural platform as shown on detailed drawing No.(EX-011 & 028) Specification No.Article 1	No.	9	1,600.00 900.00 550.00 150.00	14,400.00
7	"Kingdom / Chiefdoms(Ammonite, Moabite, Edomite)"				
•	Sign of the exhibition room sign of the exhibition room consisting of wooden panel with flex size: 2,000 mm wide x 2,500 mm height t = 20 mm Text 1, Photo 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	1	2,250.00	2,250.00
•	Explanation of the theme Explanation of the theme consisting of 8 mm thick clear float glass panel with flex size: 1,000 mm wide x 4,500 mm height Text 1, Photo 1, Drawing 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	1	1,120.00	1,120.00
•	Panel type B Panel type B consisting og wooden panel wigh flex size : 1,000 mm wide x 1,000 mm height t = 20 mm Text 1, Drawing 1, Photo 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	4	1,070.00	4,280.00
•	Panel type C Panel type C consisting of wooden panel with flex size : 2,000 mm wide x 2,000 mm height t = 30 mm Text 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	1	1,860.00	1,860.00
•	Glass case Type-C Show cases consisting of 8 mm thick clear glass overall size 2,000 mm x 700 mm x 1,000 mm height based on steel flame 1) steel angles 2) glasses 3) others Should be installed on the archetectural platform as shown on detailed drawing No.(EX-011 & 028) Specification No.Article 1	No.	3	1,600.00 900.00 550.00 150.00	4,800.00
Total to Collection					28,710.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
•	Case Type-G Showcase consisting of 10 mm thick special glass "museum glass", overall size 2,000 mm x 1,000 mm x 500 mm including the following function based on the steel flame size :50 mm x 50 mm x 5 mm with stone(t = 40 mm) and tabular florescent lights Including function air proof case seismically isolated function for 1 case	No.	1	40,000.00 10,000.00 6,000.00 4,000.00 20,000.00	40,000.00
8	Orient and Occident				
8.1	Hellenistic period				
•	Sign of the exhibition room sign of the exhibition room consisting of wooden panel with flex size: 2,000 mm wide x 2,500 mm height t = 20 mm Text 1, Photo 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	1	2,250.00	2,250.00
•	Explanation of the theme Explanation of the theme consisting of 8 mm thick clear float glass panel with flex size: 1,000 mm wide x 4,500 mm height Text 1, Photo 1, Drawing 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	1	1,120.00	1,120.00
•	Panel type B Panel type B consisting og wooden panel wigh flex size : 1,000 mm wide x 1,000 mm height t = 20 mm Text 1, Drawing 1, Photo 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	1	1,070.00	1,070.00
•	Glass case Type-A' Show cases consisting of 8 mm thick clear glass overall size 1,500 mm x 700 mm x 1,000 mm height based on steel flame 1) steel angles 2) glasses 3) others Should be installed on the archetectural platform as shown on detailed drawing No.(EX-012 & 028) Specification No.Article 1	No.	1	1,200.00 600.00 500.00 100.00	1,200.00
	Total to Collection				45,640.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
•	Glass case Type-C Show cases consisting of 8 mm thick clear glass overall size 2,000 mm x 700 mm x 1,000 mm height based on steel flame	No.	1	1,600.00	1,600.00
	1) steel angles			900.00	
	2) glasses			550.00	
	3) others			150.00	
	Should be installed on the archetectual platform as shown on detailed drawing No.(EX-014 & 028) Specification No.Article 1				
•	Model of Hellenistic palace(Iraq Al Amir) FRP/ paint (Architectoral Model Lank B) size : 1,500 mm wide x 1,500 mm Restored Cattle in Hellenistic period srouded by water. Scale is 1/100, Base and building made by FRP Finishing is natural color. as shown on detailed drawing No.(EX-36, M-7) Specification No.Article 3	No.	1	37,575.00	37,575.00
•	Glass case Type-B Show cases consisting of 8 mm thick clear glass overall size 1,500 mm x 700 mm x 1,000 mm height based on steel flame	No.	1	1,300.00	1,300.00
	1) steel angles			600.00	
	2) glasses			600.00	
	3) others			100.00	
	Should be installed on the archetectual platform as shown on detailed drawing No.(EX-012 & 028) Specification No.Article 1				
8.2	Roman Empire & Decapolise				
•	Explanation of the theme Explanation of the theme consisting of 8 mm thick clear float glass panel with flex size: 1,000 mm wide x 4,500 mm height Text 1, Photo 1, Drawing 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	1	1,120.00	1,120.00
•	Panel type D Panel type D consisting of wooden panel with flex size : 3,000 mm wide x 2,000 mm height t = 30 mm Text 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	1	3,360.00	3,360.00
•	Panel type B Panel type B consisting og wooden panel wigh flex size : 1,000 mm wide x 1,000 mm height t = 20 mm Text 1, Drawing 1, Photo 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	2	1,070.00	2,140.00
Total to Collection					47,095.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
	<ul style="list-style-type: none"> • Model of Roman fort FRP/paint (Architectural Model Lank B) size : 1,500 mm wide x 1,500 mm Restored Castle model from Roman era Scale 1/110, Base and Building made of FRP Natural finishing color as shown on detailed drawing No.(EX-36, M-8) Specification No.Article 3 	No.	1	37,575.00	37,575.00
	<ul style="list-style-type: none"> • Glass case Type-C Show cases consisting of 8 mm thick clear glass overall size 2,000 mm x 700 mm x 1,000 mm height based on steel flame 1) steel angles 2) glasses 3) others Should be installed on the archetectural platform as shown on detailed drawing No.(EX-014 & 028) Specification No.Article 1 	No.	3	1,600.00 900.00 550.00 150.00	4,800.00
	<ul style="list-style-type: none"> • Stage for stratue(H=0.5m) Stone stage consisting of 8 mm thick glass fence. size : 1,650 mm wide x 1,650 mm x 500 height based on the steel flame size :50 mm x 50 mm x 5 mm with tabular florescent lights as shown on detailed drawing No.(EX-034) 	No.	2	100.00	200.00
	<ul style="list-style-type: none"> • * Dead Sea Scroll Type-C' Showcase consisting of 10 mm thick special glass "museum glass", overall size : 2,000 mm wide x 700 mm x 1,000 mm height based on the steel flame size : 50 mm x 50 mm x 5 mm with tabular florescent lights Including the following function air proof case seismically isolated function for 1 case 	No.	1	32,000.00 8,000.00 4,800.00 3,200.00 16,000.00	32,000.00
	<ul style="list-style-type: none"> 1) steel angles 2) glasses 3) others 4) isolation system as shown on detailed drawing No.(EX-016 & 028) Specification No.Article 1 & 6 				
	<ul style="list-style-type: none"> • Stage(h=0.5m) stone Stone stage consisting of 8 mm thick glass fence. size : 2,100 mm wide x 1,500 mm x 500 height based on the steel flame size :50 mm x 50 mm x 5 mm with tabular florescent lights as shown on detailed drawing No.(EX-016 & 034) 	No.	1	100.00	100.00
	Total to Collection				74,675.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
	<ul style="list-style-type: none"> column stone size : 300 mm wide x 1,000 mm height based on RC.column covered with matal sheeting 20 mm thick. as shown on detailed drawing No.(EX-016 & 034) 	No.	2	150.00	300.00
8.3	Nabataean Kingdom				
	<ul style="list-style-type: none"> Explanation of the theme Explanation of the theme consisting of 8 mm thick clear float glass panel with flex size: 1,000 mm wide x 4,500 mm height Text 1, Photo 1, Drawing 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	1	1,120.00	1,120.00
	<ul style="list-style-type: none"> Panel Type B Panel type B consisting og wooden panel wigh flex size : 1,000 mm wide x 1,000 mm height t = 20 mm Text 1, Drawing 1, Photo 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	2	1,070.00	2,140.00
	<ul style="list-style-type: none"> Large screen Audio Visual System AV.<D> 	No.	1	77,900.00	77,900.00
	D-1 LCD PROJECTOR(1 set)				
	D-2 LENS FOR COLOR LCD PROJECTOR(1 set)				
	D-3 PROJECTOR LAMP(2 sets)				
	D-4 SUSPENTION SUPPORT FOR PROJECTOR(1 set)				
	D-5 100-INCH FLAT SCREEN(1 set)				
	D-6 DVD PLAYER(1 set)				
	D-7 SYSTEM OPERATION COMPUTER(1 set)				
	D-8 I/F UNIT(1 set)				
	D-9 POWERD MIXER(1 set)				
	D-10 GRAPHIC EQUALIZER(2 sets)				
	D-11 POWER AMPLIFIER(1 set)				
	D-12 SPEAKER(2 pcs)				
	D-13 SPEAKER HOLDER(2 sets)				
	D-14 CONNECTING CABLES(1 lot)				
	D-15 INSTALLATION MATERIAL(1 lot)				
	as shown on detailed drawing No.(EX-040, A-2) Specification No.Article 4				
	<ul style="list-style-type: none"> AV.Software 3 minutes (Provisional Sum) AV.Soft(edit the existing software) Introduction of the history of Nabataean Kingdom and Roman ocupation seen of old Nabataean caraban ocupation of Nabataean Kingdom by Roman empaire. This soft shall indroduce history doramatically and dinamic. as sho as shown on detailed drawing No.(EX-040, A-2) Specification No.Article 4 	LS	1	3,500.00	3,500.00
	Total to Collection				84,960.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate	J.D.	Amount	J.D.
•	Glass case Type-C Show cases consisting of 8 mm thick clear glass overall size 2,000 mm x 700 mm x 1,000 mm height based on steel flame 1) steel angles 2) glasses 3) others Should be installed on the archetectural platform as shown on detailed drawing No.(EX-016 & 028) Specification No.Article 1	No.	2	1,600.00 900.00 550.00 150.00		3,200.00	
•	*Stage for relief of goddess of fruits Stone stage consisting of 8 mm thick glass fence. size : 2,500 mm wide x 1,500 mm x 500 height based on the steel flame size :50 mm x 50 mm x 5 mm with tabular florescent lights as shown on detailed drawing No.(EX-016 & 034)	No.	1	200.00		200.00	
•	*Nabatean pottery Glass case Type-C Show cases consisting of 8 mm thick clear glass overall size 2,000 mm x 700 mm x 1,000 mm height based on steel flame 1) steel angles 2) glasses 3) others Should be installed on the archetectural platform as shown on detailed drawing No.(EX-016 & 028) Specification No.Article 1	No.	1	1,600.00 900.00 550.00 150.00		1,600.00	
•	Stage(h=0.5m) stone stage Stone stage consisting of 8 mm thick glass fence. size : 2,100 mm wide x 1,500 mm x 500 height based on the steel flame size :50 mm x 50 mm x 5 mm with tabular florescent lights as shown on detailed drawing No.(EX-016 & 034)	No.	1	200.00		200.00	
•	Column stone column size : 300 mm wide x 1,000 mm height based on RC.column covered with matal sheeting 20 mm thick. as shown on detailed drawing No.(EX-016 & 034)	No.	2	150.00		300.00	
•	*Arab Trib Language / Glass case(Type- C) Show case consisting of 8 mm thick, special glass for museum's show case, overall size : 2,000 mm wide x 700 mm x 1000 mm height 1) steel angles 2) glasses 3) others as shown on detailed drawing No.(EX-016 & 028) Specification No.Article 2	No.	1	1,600.00 900.00 550.00 150.00		1,600.00	
	Total to Collection					7,100.00	

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
	<ul style="list-style-type: none"> • Stage(h=0.5 m) stone stage Stone stage consisting of 8 mm thick glass fence. size : 2,100 mm wide x 1,500 mm x 500 height based on the steel frame size :50 mm x 50 mm x 5 mm with tabular florescent lights as shown on detailed drawing No.(EX-016 & 034) 	No.	1	200.00	200.00
	<ul style="list-style-type: none"> • Column stone column size : 300 mm wide x 1,000 mm height based on RC.column covered with matal sheeting 20 mm thick. as shown on detailed drawing No.(EX-016 & 034) 	No.	2	150.00	300.00
8.4	Early Christianity				
	<ul style="list-style-type: none"> • Explanation of the theme Explanation of the theme consisting of 8 mm thick clear float glass panel with flex size: 1,000 mm wide x 4,500 mm height Text 1, Photo 1, Drawing 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	1	1,120.00	1,120.00
	<ul style="list-style-type: none"> • Panel Type B Panel type B consisting og wooden panel wigh flex size : 1,000 mm wide x 1,000 mm height t = 20 mm Text 1, Drawing 1, Photo 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	6	1,070.00	6,420.00
	<ul style="list-style-type: none"> • Stand type glass case glass case(Type-H) Show case consisting of 8 mm thick, special glass for museum's show case, overall size : 500 mm wide x 500 mm x 1750 mm height 	No.	1	150.00	150.00
	<ul style="list-style-type: none"> 1) steel angles 2) glasses 3) others 			90.00	
				45.00	
				15.00	
	<ul style="list-style-type: none"> as shown on detailed drawing No.(EX-016 & 028) 				
	<ul style="list-style-type: none"> • "Madaba mosaic" map floor restoration" mosaic tail / restoration size : 10,000 mm wide x 5,000 mm height Copy of Madaba Mosaic can be obtained in Jordan as shown on detailed drawing No.(EX-018) 	No.	1	25,000.00	25,000.00
Total to Collection					33,190.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
9 9.1	<ul style="list-style-type: none"> Glass case Type-C Show cases consisting of 8 mm thick clear glass overall size 2,000 mm x 700 mm x 1,000 mm height based on steel flame 1) steel angles 2) glasses 3) others Should be installed on the archetectural platform as shown on detailed drawing No.(EX-016 & 028) Specification No.Article 1 	No.	6	1,600.00 900.00 550.00 150.00	9,600.00
	<ul style="list-style-type: none"> Stage for mosaic stone stage Stone stage consisting of 8 mm thick glass fence. size : 1,000 mm wide x 1,000 mm x 500 height based on the steel flame size :50 mm x 50 mm x 5 mm with tabular florescent lights as shown on detailed drawing No.(EX-018 & 034) 	No.	2	100.00	200.00
9 9.1	Jordan in the Islamic Period Early Islamic Period				
	<ul style="list-style-type: none"> Sign of the exhibition room sign of the exhibition room consisting of wooden panel with flex size: 2,000 mm wide x 2,500 mm height t = 20 mm Text 1, Photo 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	1	2,250.00	2,250.00
	<ul style="list-style-type: none"> Explanation of the theme Explanation of the theme consisting of 8 mm thick clear float glass panel with flex size: 1,000 mm wide x 4,500 mm height Text 1, Photo 1, Drawing 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	1	1,120.00	1,120.00
	<ul style="list-style-type: none"> Panel type B Panel type B consisting og wooden panel wigh flex size : 1,000 mm wide x 1,000 mm height t = 20 mm Text 1, Drawing 1, Photo 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	2	1,070.00	2,140.00
	<ul style="list-style-type: none"> Panel type D Panel type D consisting of wooden panel with flex size : 3,000 mm wide x 2,000 mm height t = 30 mm Text 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	1	3,360.00	3,360.00
Total to Collection					18,670.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
•	"Quseir Amra General View Palace" / model FRP / paintl (Architectoral Model Lank B) size : 3,500 mm wide x 2,500 mm Restored Model of Quseir Amra located at 35km from Amman in East direction. The Model consist of interview, bath and water tank rooms. Scale is 1/10, Base and buildings made of FRP. Finishing of model are natural color as shown on detailed drawing No.(A-457,M-9) Specification No.Article 3	No.	1	146,125.00	146,125.00
•	Stage for model(h=0.5 m) stone stage(MC-9) Stone stage consisting of 8 mm thick glass fence. size : 4,000 mm wide x 3,500 mm x 500 height based on the steel flame size :50 mm x 50 mm x 5 mm with tabular florescent lights as shown on detailed drawing No.(EX-019 & 034)	No.	1	2,100.00	2,100.00
•	Stage for statue glass / stone stage Stone stage consisting of 8 mm thick glass fence. size : 2,000 mm wide x 2,000 mm x 500 height based on the steel flame size :50 mm x 50 mm x 5 mm with tabular florescent lights as shown on detailed drawing No.(EX-020 & 034)	No.	1	600.00	600.00
•	Glass case Type-C Show cases consisting of 8 mm thick clear glass overall size 2,000 mm x 700 mm x 1,000 mm height based on steel flame 1) steel angles 2) glasses 3) others Should be installed on the archetectoral platform as shown on detailed drawing No.(EX-020 & 028) Specification No.Article 1	No.	3	1,600.00 900.00 550.00 150.00	4,800.00
•	"Restoration of Early Islamic Period ""Quseir Amra"" Ceiling Fresco Picture" wood ceiling / painting size :3,600 mm wide x 3,600 mm height as shown on detailed drawing No.(EX-019) Restored Fresco Ceiling at Quseir Amra. Fresco on Vault Ceiling with wooden frame under. Motiff is the ecliptic	No.	1	10,000.00	10,000.00
Total to Collection					163,625.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
9.2	Middle Islamic Period				
	• Explanation of the theme Explanation of the theme consisting of 8 mm thick clear float glass panel with flex size: 1,000 mm wide x 4,500 mm height Text 1, Photo 1, Drawing 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	1	1,120.00	1,120.00
	• Panel type B Panel type B consisting og wooden panel wigh flex size : 1,000 mm wide x 1,000 mm height t = 20 mm Text 1, Drawing 1, Photo 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	2	1,070.00	2,140.00
	• Panel type D Panel type D consisting of wooden panel with flex size : 3,000 mm wide x 2,000 mm height t = 30 mm Text 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	1	3,360.00	3,360.00
	• Model of Medieval Islamic Castle FRP/paper/wood (Architectural Model Lank B) size : 2,500 mm wide x 2,500 mm Islamic Castle model. Scale 1/50, Bases and Building made of FRP Natural Color Finishing. as shown on detailed drawing No.(EX-36, M-10) Specification No.Article 3	No.	1	104,375.00	104,375.00
	• Stage for model stone / stage(MC-10) Stone stage consisting of 8 mm thick glass fence. size : 3,000 mm wide x 3,000 mm x 500 height based on the steel flame size :50 mm x 50 mm x 5 mm with tabular florescent lights as shown on detailed drawing No.(EX-020 & 034)	No.	1	1,350.00	1,350.00
	• Audio Visual System AV.<C> C-1 FLAT PANEL COLOR VIDEO MONITOR(1 set) C-2 MOUNTING BRACKETS FOR FLAT PANEL(1 set) C-3 DVD PLAYER(1 set) C-4 SYSTEM OPERATION COMPUTER(1 set) C-5 I/F UNIT(1 set) C-6 SYSTEM CONTROLER(1 set) C-7 POWERD MIXER(1 set) C-8 GRAPHIC EQUALIZER(1 set) C-9 SPEAKER(1 pair) C-10 SPEAKER HOLDER(2 sets) C-11 CONNECTING CABLES(1 lot) C-12 INSTALLATION M)ATERIAL(1 lot as shown on detailed drawing No.(EX-040, A-3) Specification No.Article 4	No.	1	48,700.00	48,700.00
	Total to Collection				161,045.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
	<ul style="list-style-type: none"> • AV.software (Offence and Defense of Crusader) 3 minutes AV.Soft (edit the existing software) Explanation of relation between Arab and Crusade Introduciton of the history crysader Introduciton of european culture effected by islamic tradition as shown on detailed drawing No.(EX-040, A-3) Specification No.Article 4 (Provisional Sum) 	LS	1	3,500.00	3,500.00
	<ul style="list-style-type: none"> • Glass case Type-C Show cases consisting of 8 mm thick clear glass overall size 2,000 mm x 700 mm x 1,000 mm height based on steel flame 	No.	3	1,600.00	4,800.00
	<ul style="list-style-type: none"> 1) steel angles 2) glasses 3) others 			900.00	
	<ul style="list-style-type: none"> Should be installed on the archetectoral platform as shown on detailed drawing No.(EX-020 & 028) Specification No.Article 1 			550.00	
	<ul style="list-style-type: none"> Should be installed on the archetectoral platform as shown on detailed drawing No.(EX-020 & 028) Specification No.Article 1 			150.00	
9.3	Late Islamic Period				
	<ul style="list-style-type: none"> • Explanation of the theme Explanation of the theme consisting of 8 mm thick clear float glass panel with flex size: 1,000 mm wide x 4,500 mm height Text 1, Photo 1, Drawing 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	1	1,120.00	1,120.00
	<ul style="list-style-type: none"> • Panel type B Panel type B consisting og wooden panel wigh flex size : 1,000 mm wide x 1,000 mm height t = 20 mm Text 1, Drawing 1, Photo 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	2	1,070.00	2,140.00
	<ul style="list-style-type: none"> • Panel type D Panel type D consisting of wooden panel with flex size : 3,000 mm wide x 2,000 mm height t = 30 mm Text 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	1	3,360.00	3,360.00
	<ul style="list-style-type: none"> • Glass case Type-C Show cases consisting of 8 mm thick clear glass overall size 2,000 mm x 700 mm x 1,000 mm height based on steel flame 	No.	3	1,600.00	4,800.00
	<ul style="list-style-type: none"> 1) steel angles 2) glasses 3) others 			900.00	
	<ul style="list-style-type: none"> Should be installed on the archetectoral platform as shown on detailed drawing No.(EX-020 & 028) Specification No.Article 1 			550.00	
	<ul style="list-style-type: none"> Should be installed on the archetectoral platform as shown on detailed drawing No.(EX-020 & 028) Specification No.Article 1 			150.00	
Trotal to Collection					19,720.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
	<ul style="list-style-type: none"> Model of Sugar Factory FRP / paint model (Architectural Model Lank B) size : 3,500 mm wide x 2,500 mm Restored Suger Factory Osmanli era Scale 1/15, Base and Building made of FRP Natural Color Finishing as shown on detailed drawing No.(EX-036, M-11) Specification No.Article 3 	No.	1	146,125.00	146,125.00
	<ul style="list-style-type: none"> Stage for model stone / stage(MC-11) Stone stage consisting of 8 mm thick glass fence. size : 4,000 mm wide x 3,000 mm x 500 height based on the steel frame size :50 mm x 50 mm x 5 mm with tubular florescent lights as shown on detailed drawing No.(EX-020 & 034) 	No.	1	1,200.00	1,200.00
10	Traditional Technology of Jordan				
	<ul style="list-style-type: none"> Sign of the exhibition room sign of the exhibition room consisting of wooden panel with flex size: 2,000 mm wide x 2,500 mm height t = 20 mm Text 1, Photo 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	1	2,250.00	2,250.00
10.1	Science of Life				
	<ul style="list-style-type: none"> Explanation of the theme Explanation of the theme consisting of 8 mm thick clear float glass panel with flex size: 1,000 mm wide x 4,500 mm height Text 1, Photo 1, Drawing 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	1	1,120.00	1,120.00
	<ul style="list-style-type: none"> Panel type B Panel type B consisting og wooden panel wigh flex size : 1,000 mm wide x 1,000 mm height t = 20 mm Text 1, Drawing 1, Photo 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2 	No.	8	1,070.00	8,560.00
	<ul style="list-style-type: none"> Cabinet wood / glass size : 1,000 mm wide x 1,000 mm height with four(4) wooden drawers two(2) wooden doors with 8 mm thick glass with florescent unit as shown on detailed drawing No.(EX-032) 	m	26	1,500.00	39,000.00
Total to Collection					198,255.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
10.2	Traditional Village Life				
	• Explanation of the theme Explanation of the theme consisting of 8 mm thick clear float glass panel with flex size: 1,000 mm wide x 4,500 mm height Text 1, Photo 1, Drawing 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	1	1,120.00	1,120.00
	• Panel type B Panel type B consisting og wooden panel wigh flex size : 1,000 mm wide x 1,000 mm height t = 20 mm Text 1, Drawing 1, Photo 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	5	1,070.00	5,350.00
	• Weaving machine wood model size : 1,000 mm wide x 2,000 mm height Purchase from produser	No.	1	300.00	300.00
	• Air proof wall case stone/glass size : 15,000 mm wide x 2,000 mm height Including lighting box. Underlayer in the Case are wooden panel with fabric covering. Steel flaming as shown on detailed drawing No.(EX-026) Specification No.Article 1	m ²	30	2,500.00	75,000.00
11	The Hashemite Kingdom of Jordan				
	• Sign of the exhibition room sign of the exhibition room consisting of wooden panel with flex size: 2,000 mm wide x 2,500 mm height t = 20 mm Text 1, Photo 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	1	2,250.00	2,250.00
	• Explanation of the theme Explanation of the theme consisting of 8 mm thick clear float glass panel with flex size: 1,000 mm wide x 4,500 mm height Text 1, Photo 1, Drawing 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	4	1,120.00	4,480.00
	• Panel type B Panel type B consisting og wooden panel wigh flex size : 1,000 mm wide x 1,000 mm height t = 20 mm Text 1, Drawing 1, Photo 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	3	1,070.00	3,210.00
	Total to Collection				91,710.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
•	Panel type D Panel type D consisting of wooden panel with flex size : 3,000 mm wide x 2,000 mm height t = 30 mm Text 1, Drawing 1, Map 1 as shown on detailed drawing No.(EX-039) Specification No.Article 2	No.	1	3,360.00	3,360.00
•	Air proof wall case steel/glasscase Glass case consisting of 10 mm thick special glass "museum glass", size : 27,000 mm wide x 2,000 mm Including lighting box. Undeerlayer in the Case wooden panelwith fabric covering. Steel flaming Including function air proof case seismically isolated function for 1 case * 2 m x 2 m 3 sets as shown on detailed drawing No.(EX-026) Specification No.Article 1 & 6	No. m ²	1 54 1	295,000.00 295,000.00 2,500.00 160,000.00	295,000.00
•	Air Proof Glass case Type-F Glass case consisting of 10 mm thick special glass "museum glass", with stone overall size : 2,000 mm wide x 2,000 mm x 2,000 mm high based on the steel flame size : 45 mm x 45 mm x 1.6 mm with tabular florescrent lights with emargency alarm equipment Including function air proof case seismically isolated function for 1 case 1) steel angles 2) glasses 3) others 4) isolation system as shown on detailed drawing No.(EX-025 & 029) Specification No.Article 1 & 6	No.	1	74,000.00 18,500.00 11,100.00 7,400.00 37,000.00	74,000.00
•	Punched metal plate oval shape wall steel wall size : 10,000 mm wide x 8,000 mm x 3,100 height Jordan - show image of the future. Image room with Projector. Image booth for soundproofing and protection from lighting leak. as shown on detailed drawing No.(EX-027)	No.	1	29,000.00	29,000.00
•	Audio Visual System AV.<F> F-1 DVD SET(1 set) F-2 DISPLAY(15 inch)+DVD as shown on detailed drawing No.(EX-040, A-4) Specification No.Article 4	No.	3	4,000.00	12,000.00
Total to Collection					413,360.00

National Museum Exhibition Estimation

Museum

Item No.	Description	Unit	Quaty	Rate J.D.	Amount J.D.
•	AV.software 3 minutes AV.software (edit the existing software) A-4 News in Sherlf Hussein period A-5 News in King Abudullah ara A-6 News in King Hussein ara Collection of news film as shown on detailed drawing No.(EX-041) Specification No.Article 4 (Provisional Sum)	No.	3	3,500.00	10,500.00
B	Corridor Of Time (Historical Exhibition) Sub Total				
C	Outdoor Exhibition				
12.1	Life of Bedouin Bedouin tent model "wood, fabric" model 6 m x 3 m	No.	1	600.00	600.00
12.2	Life of Village Water Lifting machine model "wood, stone" model 2 m x 4 m	No.	1	300.00	300.00
	Traditional Baking Oven structure model "wood, stone" model 2 m x 2 m	No.	1	200.00	200.00
	Byzantine olive oil press model stone model 2 m x 2 m	No.	1	200.00	200.00
	Pottery oven model stone model 2 m x 2 m	No.	1	200.00	200.00
	Stand type explanation panel of Outdoor exhibition panel	No.	20	20.00	400.00
	Total to Collection				12,400.00

National Museum Exhibition Estimation

Item No.	Description	Unit	Quaty	Museum	
				Rate J.D.	Amount J.D.
D	Common				
	Equipment for reinforcement :				
a	Stage equipment	No.	90	50.00	4,500.00
b	Inclined stage equipment	No.	90	50.00	4,500.00
c	Type A equipment	No.	750	4.00	3,000.00
d	Type B equipment	No.	750	5.00	3,750.00
e	Perforated steel sheet equipment	No.	50	30.00	1,500.00
f	Acrylic stage equipment	No.	50	30.00	1,500.00
g	Acrylic box equipment	No.	50	40.00	2,000.00
h	Acrylic box B equipment as shown on detailed drawing No.(EX-033) Specification No.Article 5	No.	50	40.00	2,000.00
	Panels :				
	Sign of the exhibition room, wood	No.	11	500.00	5,500.00
	Explanation of the theme, glass	No.	22	450.00	9,900.00
	Panel type A, wood	No.	4	360.00	1,440.00
	Panel type B, wood	No.	60	100.00	6,000.00
	Panel type C, wood	No.	2	400.00	800.00
	Panel type D, wood as shown on detailed drawing No.(EX-039)	No.	10	600.00	6,000.00
E	Others				
	Transportation cost From Japanese factory to Jordan National Museum Include the following, Domestic transportation cost for both Japanese and Jordan side, ocean freight from Japanese port to Jordan port, export packing, insurance premium, custom clearance fee and all domestic charges. the budgetary volume for goods : about 1,000 m3	L.S.	1	310,000.00	310,000.00
	The supervising fee for installation of the exhibition work until complete of all the construction	L.S.	1	360,000.00	360,000.00
	Total to Collection				722,390.00

National Museum Exhibition Estimation

Item No.	Description	Unit	Quaty	Rate	Museum	
					J.D.	Amount J.D.
	COLLECTION					
	Page No.3/25/1					677,240.00
	Page No.3/25/2					219,370.00
	Page No.3/25/3					160,435.00
	Page No.3/25/4					21,670.00
	Page No.3/25/5					376,454.00
	Page No.3/25/6					20,960.00
	Page No.3/25/7					99,830.00
	Page No.3/25/8					53,740.00
	Page No.3/25/9					28,710.00
	Page No.3/25/10					45,640.00
	Page No.3/25/11					47,095.00
	Page No.3/25/12					74,675.00
	Page No.3/25/13					84,960.00
	Page No.3/25/14					7,100.00
	Page No.3/25/15					33,190.00
	Page No.3/25/16					18,670.00
	Page No.3/25/17					163,625.00
	Page No.3/25/18					161,045.00
	Page No.3/25/19					19,720.00
	Page No.3/25/20					198,255.00
	Page No.3/25/21					91,710.00
	Page No.3/25/22					413,360.00
	Page No.3/25/23					12,400.00
	Page No.3/25/24					722,390.00
	Total to General Summary					3,752,244.00

NATIONAL MUSEUM SUB-PROJECT
THE TOURISM SECTOR DEVELOPMENT PROJECT

VOLUME III
BILL NO. 4 FURNITURE WORKS

PRICED COPY

National Museum Furniture&Fixture

Museum

Item No.	Description	Unit	Quantity	Rate	J.D.	Amount J.D.
	Furniture&Fixture Director's Office					
a	Desk 200Width,5drawers w/side table	No.	1	400.00		400.00
b	Chair high back chair ,leather cover	No.	1	80.00		80.00
c	Sofa leather cover,5 sofa set w/center table	No.	1	420.00		420.00
d	Side Table wood	No.	2	100.00		200.00
e	Cabinet wood,glass door	No.	2	600.00		1,200.00
	Deputy Director's Office					
a	Desk 200Width,3drawers w/side table	No.	1	280.00		280.00
b	Chair high back chair ,leather cover	No.	1	70.00		70.00
c	Sofa leather cover,5 sofa set w/center table	No.	1	340.00		340.00
d	Side Table wood	No.	2	100.00		200.00
e	Cabinet wood,glass door	No.	2	400.00		800.00
	Office					
a	Desk-1 180x80,3 drawers,wood	No.	5	160.00		800.00
b	Desk-2 160x75,3 drawers,wood	No.	30	120.00		3,600.00
c	Desk-3 140x70,3 drawers,wood	No.	30	100.00		3,000.00
d	Chair-1 high back ,cloth cover,steel	No.	5	60.00		300.00
e	Chair-2 high back ,cloth cover,steel	No.	30	45.00		1,350.00
f	Chair-3 w/arms,steel	No.	30	40.00		1,200.00
g	Cabinet 190x90x42,2 doors,steel	No.	30	150.00		4,500.00
	Library					
a	Counter 360x120,2drawers,wood(for Librarian)	No.	1	200.00		200.00
b	Book Shelf 190x90x42,4shelves,w/o door,steel	No.	40	70.00		2,800.00
c	Reference Desk 140x70,w/o.drawer,wood	No.	10	80.00		800.00
d	Chair w/o arms,wood	No.	10	40.00		400.00
	Meeting Room					
a	Center Table 140x70,wood	No.	6	80.00		480.00
b	Chair movable,steel,cloth cover	No.	20	45.00		900.00
c	White Board steel,movable	No.	1	100.00		100.00
	EntranceHall,Foyer					
a	Public Chair stainless steel ,3seats	No.	10	120.00		1,200.00
b	Sofa leather,wood	No.	10	80.00		800.00
c	Ash Tray Stand stainless steel	No.	10	100.00		1,000.00
	Seminar Room					
a	Stacking chair stainless steel,vinyle leather,w/writing table	No.	120	80.00		9,600.00
	Total to General Summary					37,020.00

VOLUME III

PART: 2

DAYWORK RATE

Item	Description of Work
	<p><u>GENERAL</u></p> <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> <p><u>PREAMBLES FOR DAYWORK</u></p> <p>A The Contractor shall insert in this Schedule the Daywork rates which the Engineer may choose to apply.</p> <p>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.</p> <p>C 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> <p>D 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> <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.</p> <p>F 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
	<u>LABOR</u>
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
<u>MATERIALS</u>	<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">a. Delivery to Site;b. Unloading, Storing, Protecting and Waste in Storage; andc. Establishment charges, insurances, overheads and profit.

MATERIALS : Percentage Addition : _____.

(* To be Inserted by Tenderer)

(Signature) _____

(Name of Tenderer) _____

(Company Stamp) _____

Item	Description of Work
<u>CONTRACTOR'S EQUIPMENT</u>	
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

<u>LABOR</u>			
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

<u>MATERIALS & PLANT</u>			
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

<u>CONTRACTOR'S EQUIPMENT</u>			
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.		