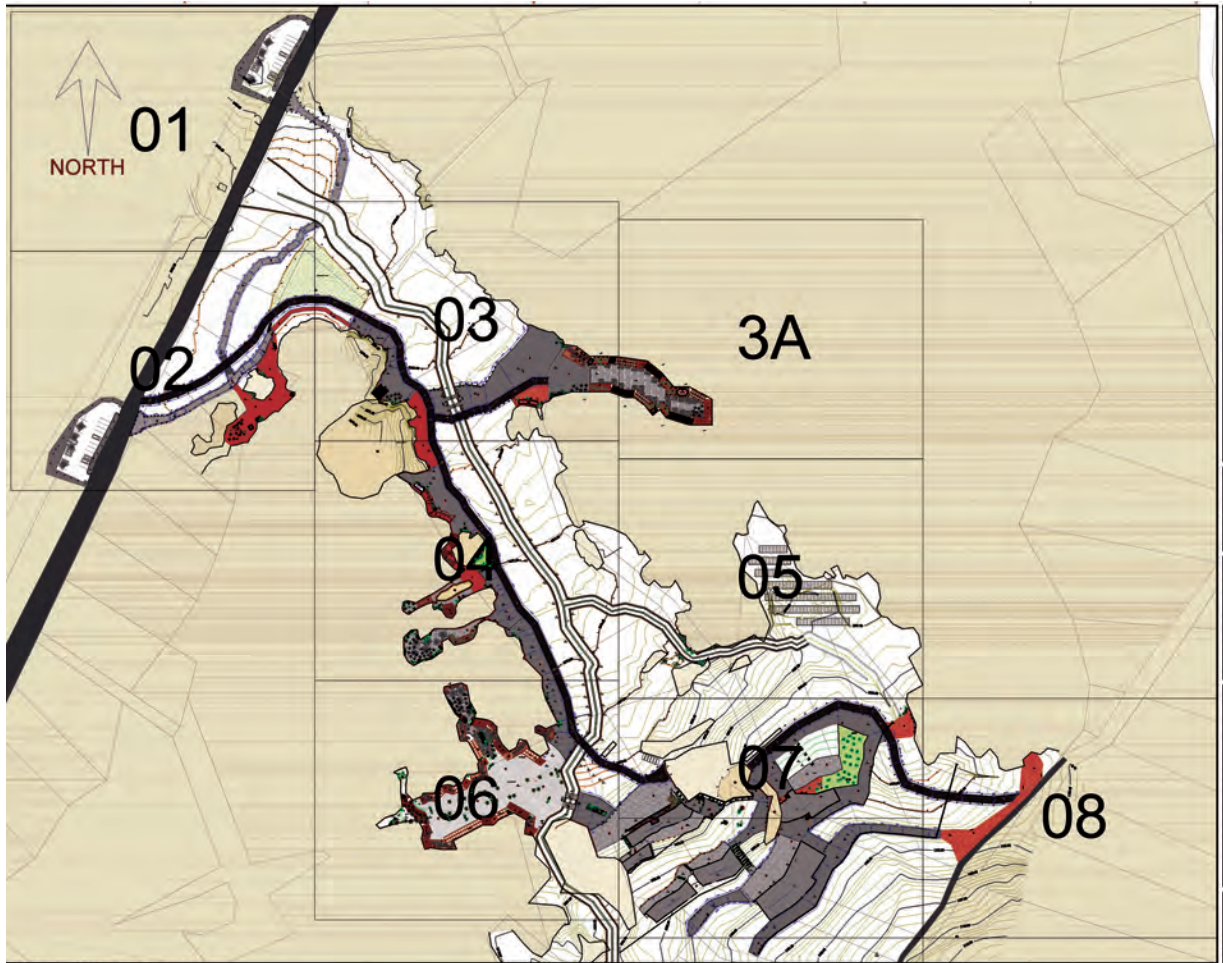


PETRA CULTURAL HERITAGE VILLAGE

PHASE 4: DRAFT FINAL DETAILED DESIGN



BILL OF QUANTITIES

MAY 2015

PREFACE TO VOLUME III

PREFACE TO VOLUME III

This volume - Bill of Quantities - is one of the below listed volumes, all of which make the complete set of Contract Documents for :

PETRA CULTURAL HERITAGE VILLAGE

- Volume 1** : Tender Conditions and Procedures
Conditions of Contract
- Volume 2** : Specifications
- Volume 3** : Bill of Quantities
- Volume 4** : Drawings

GENERAL PREAMBLES

GENERAL PREAMBLES

1. INTRODUCTION

- 1.01 The rules contained in this Method of Measurement apply equally to both proposed and executed works.
- 1.02 The Bills of Quantities are to be read and construed in conjunction with the Conditions of Contract, the Specifications, the Drawings and the Measurement and Payment items in the Specifications.
- 1.03 Where work cannot be fully described or where the quantity of work required cannot be accurately determined, it is given as an item or as a Provisional Sum.
- 1.04 Where Provisional Sums are included in the Bills of Quantities, the work to be executed in respect thereof will be ordered by the Engineer and the cost will be adjusted in accordance with provisions of the Conditions of Contract.
- 1.05 Where a Provisional Sum is included for the supply of goods or supply and installation of work to be carried out as a Nominated Sub-contract, the supplier or subcontractor will be nominated by the Engineer and the cost will be determined in accordance with provisions of the Conditions of Contract.
- The percentage addition to be applied shall be deemed to include for the Contractor's profit, overheads and administrative charges in connection with the Provisional Sum and, in the case of a Nominated Subcontractor who supplies and installs work or equipment, it shall be deemed to include for general attendance on the Nominated Subcontractor, assistance in off-loading materials and equipment, provision of adequate storage facilities, water and electricity for the Nominated Sub-contractor and use of the Contractor's general facilities. If the Contractor provides any other labour or materials or performs other work in connection with the Nominated Sub-contractor, the additional costs shall be determined in accordance with the provisions of the Conditions of Contract.

2. QUANTITIES

- 2.01 Quantities set out in the Bills of Quantities are the estimated quantities and they shall not be taken as the actual and correct quantities for ordering or purchasing of materials.
- 2.02 Works shall be measured net as fixed in position in accordance with the rules contained in this Method of Measurement or except where otherwise stated in a measurement rule applicable to the work.

3. DESCRIPTIONS

- 3.01 Headings to groups of items in the Bill of Quantities are to be read as part of the descriptions of the items to which the headings apply.
- 3.02 Dimensions are stated in descriptions generally in the sequence length, width, height. Where ambiguity could arise, the dimensions are identified.
- 3.03 Unless otherwise specifically stated in the Bill of Quantities or herein, the costs of the following are deemed to be included in the rates of all measured work:

labour and all costs in connection therewith,

materials, products, goods and all costs in connection therewith,

Contractor's equipment, including but not limited to construction plant, scaffolding, tools, vehicles and the like, and all costs in connection therewith,

assembling, fitting and fixing materials, products and goods in position,

any method of fixing, fixing to any nature of base or background including preparation and providing fixing materials,

breaking down for transport and installation and subsequent re-assembly of composite items manufactured off site,

waste of materials,

square, raking and curved cutting,

work at any location or height,

work in small, isolated quantities,

protection of all work,

protection of all existing structures, utilities, site improvements, trees and vegetation, features, pavements and other facilities on and adjacent to the site, which are to remain upon completion of the work,

all other enabling tasks, associated and subsidiary components and items of work, which are indicated or reasonably inferred from the Drawings and/or Specification, and necessary to perform and complete the work described.

establishment and overhead charges and profit.

- 3.05 Except where items are included in the Bill of Quantities and are priced separately by the Contractor therein, the costs of the following are deemed to be included in the rates of all measured work:

site administration and security,

insurances,

bonds and guarantees,

water for the works,

lighting and power for the works,

temporary accommodation for the use of the Contractor and the Engineer,

temporary telephones for the use of the Contractor and the Engineer, and the cost of calls,

temporary roads, hard standings, crossings and the like,

temporary fencing, hoardings, screens, fans, foot- ways, guardrails, gantries and the like,

giving notices and making applications, including the payment of fees and charges in connection therewith,

safety, health and welfare of workpeople,

compliance with traffic regulations,

maintenance of public and private roads, services and adjoining property,

control of noise and pollution, prevention of fire and compliance with all other statutory and general obligations,

removing rubbish, protective casings and coverings and cleaning the works on completion,

dewatering and drying the works,

testing and commissioning of service installations including providing fuel,

samples of materials and testing of materials, including providing equipment for testing,

design, co-ordination, installation and as-built record drawings and the like,

preparation and submittal of reports, records, certificates, notices, proposals, designs, details, calculations and other information and data required by the Specification,

allow in unit rates for all other requirements services, provisions, liabilities and obligations contained in the General Requirements and Conditions of Contract.

Maintaining, adapting, clearing away and making good are deemed to be included with the items for temporary works.

- 3.06 all rebuilding , and substitution works shall be adequate for the boundary works in the site.
- 3.07 all excavations and backfilling prices shall be measured geometrically without counting the working distance which shall be carried on the price.
- 3.08 excavations shutters and dewatering shall be carried on the price and no addition payments shall be paid for the contractor .
- 3.09 The contractor shall provide full topographic survey of working area and the existing building and shall submit verified drawings accordingly subject to the Engineer approval .

4. SYMBOLS, ABBREVIATIONS AND DEFINITIONS

4.01 The following symbols and abbreviations are used in this Preambles and in the Bills of Quantities:

Cu.M : Cubic meters

Sq.M : Square meters

L.M : Linear meres

Ton : Metric ton

No. : Number

4.02 The following definitions apply to all work:

'horizontal' means level or sloping work not exceeding 15 degrees from the horizontal,

'sloping' means sloping work exceeding 15 degrees but not exceeding 80 degrees from the horizontal,

'vertical' means work exceeding 80 degrees from the horizontal,

'curved' means curved in any direction or in more than one direction and to any radius or radii, and includes curved work to domes, vaults and the like.

BILLS OF QUANTITIES

Civil Works

Mechanical Works

Electrical Works

civil Works

PETRA Cultural Heritage Village

Item No.	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
1	Preliminary					
1.1	<u>Engineer's Offices</u>					
	establish and provide for the Engineer's solely use, one office furnished with furniture and equipment which will be at least as the mentioned in Specification. The offices will be kept accessible, clean, furnished and supplied with services for the whole project period, until the issuing of the hand over certificate.	LS				
	Overhead & Profit, Percentage of pay item 1.03.6 above 10 %	10%				
1.2	<u>Engineer's Offices services</u>					
	including cost of office rent and provide services for the Engineer's offices including but not limited water, drinking water, electricity, lighting, air-conditioning, stationery, beverages, telephone lines and internet, mobile phones and services lines, also Provide a Semi-skilled Workman for offices serving and cleaning.all as mentioned in the specification	per month	20			
	Overhead & Profit, Percentage of pay item 1.03.6 above 10 %					
1.3	<u>Engineer's vehicles</u>					
1.3.1	Provide Two Diesel Pickups, new model, Double Cabinet, 4WD Air-Conditioned, 2400 CC min	P.C				
	add 5% Overhead and Profit, Percentage of Payed Item 1.10(1)	%				
1.3.2	Operation and Maintenance of the Pickups, Item 1.10(1), unit rate is for one pickup.	Vehicle-month	40			
1.3.3	Provide One Driver	M-Month	20			
	Total Bill Carried Forward					

Item No.	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
1.4	<u>Geotechnical Investigation</u>					
	<p>The contractor shall carry out geotechnical investigation in the two intermediate pumping stations location under pumpstaion and offices building and reservoirs, in each pumping station per Jordanian Code for this kind of buildings. The investigation shall be carried out by approved laboratory. The laboratory shall give it's recommendations regarding the foundation level and the bearing capacity. If the bearing capacity is not as the designed bearing capacity the Contractor shall redesign the foundations as per American Code, of all buildings accordingly and get the approval of the Engineer including producing all required drawings and documents.</p>	LS				
Subtotal Bill No.1 Carried to Summary						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	<u>HERITAGE CENTER B2</u>					
1.1	Earth Works					
	a. Excavation from the natural or reduced levels (which is lower) in any kind of soil, concrete or asphalt, trees to foundation level, excavation in any kind of soil and rock to the required depth, de-watering ,and all necessary works to keep the excavation dry and workable for construction, removal and transport at any distance of unsuitable material for backfilling and surplus materials, the price includes using the excavated materials if it is suitable for backfilling around the foundations in (200 mm) thick layers watering, compacting to 95% according to the modified field density test up to the required levels as per specifications.	M ³	473			
	b. supplying and excuting backfilling from outside the site around the foundations in (200 mm) thick layers up to the required levels if the excavated materials is not enough or unsuitable for backfilling .The rate of this item shall include machinery, equipment and manpower to complete the works as per specifications and drawings.	M ³	407			
	c. supply and apply well compacted hard core 15 cm thick as per specifications .price to include soil leveling average 25 m thick , watering , and compacting to 95% according to the modified density to the soil under hard core and base course .	M ³	42			
1.2	Concrete Works					
	a. Supply and place Plain Concrete Class (C15) .					
	1. under foundations and under slab on grade ,the price include supply and place vabour barrier in the middle of the plain concrete under slab on grade as shown in the drawing .		47			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	2. for mortar above columns neck under foundations and under slab on grade	M ³	7			
	b. Supply and place reinforced cast in place concrete (Ready-mix) Class C45 (with O.P.C Ordinary Portland Cement), including formwork, and steel reinforcement for slab on grade.					
	1. for foundation	M ³	47			
	2. for columns' neck	M ³	84			
	3. for slab on grade.	M ³	43			
	c. Supply and place reinforced cast in place concrete (Ready-mix) Class C35 (with O.P.C) Ordinary Portland Cement), the price includes also supplying and building of blocks with a size(10x10x20)cm for the formwork, reinforcement steel, additives and all materials, workmanship, machinery to complete the works as per specification and shown in the drawing materials all exposed concrete surfaces will be of fair face finish					
	1. for columns	M ³	3			
	2. bonding beams	M ³	9			
	3. for lintels and sills	M ³	2			
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
1.3	Seel Works					
	a. supply and install H beams for the slabs reinforcement ,with the required detailed dimentions ,the price shall includes forming , fabricating in the plant ,delivering of the required beams , also supplying and fixing the levelling grouted pads and all fixing bolts and all materials, workmanship, machinary to complete the works as per specification and shown in the drawing.	ton	6			
	b. supply and install steel reinforcement bars for reinforced concrete work , yield stress 420 /mm2 high tensile steel garde 60 for main steel, and normal tensile steel garde 40 yield stress 300/mm2 for the minor steel reinforcement, with all required diameters and lengths as per drawings,the price includes cutting, forming,the tie bars and spacing for the steel bars , as detailed in the drawings and specifications.	ton	13			
1.4	Builder Works and Finishing					
	Construction and execution of all works required for the Building including providing workmanship and supplying material for complete execution of all works & finishing as specified, shown on the drawings and as instructed by the Engineer,also the price shall include forming opening in the walls as per detailed drawings, with no extra overhead .					
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	a. Geogrid Reinforced System					
	supply and excute Geogrid Reinforced System behind the burried compressed earth block walls,the price includes supplying and installation of geogrid and geotextile, steel ties , aslo the single size (fine aggregate) for drainage behind the burried faces of the building, and fixing perforated pipes ,the price shall include the excavation and backfilling required for the work, and aslo includes all necessary equipment to finish the work as specified, and as shown on the drawings and as instructed by the Engineer . (the measurment shall be made per square meter of wall face measured as the vertical projection of the face of the reinforced soil wall or slope).	M ²	213			
	b. Compressed Earth Block Work					
	supplying and fixing compressed earth block walls (ADOBE) manufactured in the site , the block walls shall be exposed as indicated in the drawings , with keeping the joints straight , the blocks cut will be neat saw , the price also includes all plant, materials and labour required to achieve the finishes instructed in full compliance with the Specification and drawings including preparation, and all other works necessary for the satisfactory completion of the work.					
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	1. Earth compressed Blocks for walls 40 cm thick, comprising of two layers (15cm Blocks 10 cm cavity and 15 cm blocks thickness).	M ²	791			
	2.Earth compressed Blocks for internal walls (15 cm thick) .	M ²	108			
	3.Earth compressed Blocks Walls for parapet (30 cm thickness).	M ²	36			
	c. Floor Finishing					
	supply and fix several types of tiles , sills and threshold as shown in the drawings and specified , including sand bed, mortar, white cement, pointing, grinding, and polishing, and all equipment, materials, and labours required to complete the works as shown on the drawings or as otherwise instructed in full compliance with soecfication.					
	1.Threshold and sills for doors and windows of heavy duty porcelain tiles non-slip 600 x 600 mm (thickness 10mm).	LM	18			
	2. stone tiles 400x400 mm	M ²	144			
	3.stone tiles 200x200 mm	M ²	50			
	4. heavy duty porcelain tiles non-slip 600 x 600 mm (thickness 10mm).	M ²	0			
	5. heavy duty porcelain tiles non-slip 400 x 400 mm (thickness 10mm).	M ²	17			
	6. ceramic tiles non -slip 300x300 mm (thickness 6 mm)	M ²	40			
	7. terrazzo tiles 300 x300 mm (thickness 3cm)	M ²	80			
	e.Carpet					
	1. supply and fix special carpet on terrazo tiles for parayer hall .	M ²	73			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	d. Skirting finish works					
	1. stone height 150mm	LM	103			
	2. terrazzo tiles hight 100 mm .	LM	23			
	e. Ceiling finish works					
	3. aluminum Strip 100 mm	M ²	96			
	4. abmboo strips 100 mm	M ²	161			
	6.structural beams with bamboo strips .	M ²	4			
	f. Doors					
	Supply and install doors, the doors shall be fabricated as per specifications, the price includes frames, ironmongery, fixings and painting all plant, materials and labour required to provide and install the doors as shown on the Drawings, or as otherwise instructed in accordance with the Specification.					
	D1(0.94X2.35)m	No	2			
	D2(0.8X2.4)m	No	8			
	D3(1.0X2.35)m	No	1			
	D4(0.79X2.14)m	No	1			
	D5(0.79X2.14)m	No	1			
	D6(1.1X2.47)m	No	1			
	D7(1.87X2.47)m	No	1			
	D8(1.25X2.47)m	No	3			
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	g. niches					
	teak wood for niches cores in the walls with a thickness 10 mm . As per detailed drawing .					
	niche type 1 (1.37X1.0)	No	2			
	niche type 2 (1.26X1.0)	No	4			
	niche type 10 (0.48X1.8)8	No	3			
	h. toilet partitions					
	supply and fix palstic laminated mdf parttions for toيلاتes , the price shall include also Pilasters, Headrail, Shoes, Brackets, and all necssary equipments to finish the work according to the specifications and the manufactorer instructions, the parttions color shall be suitable for site with coordination with the Engineer .	M ²	34			
	i. Wall finishing works					
	1.Supply and fix ceramic wall tiles300 x300 mm as shown in the drawings and specified, including mortar, white cement pointing,and all equipment, material and labour required to achieve the finishes shown on the Drawings or as otherwise instructed in full compliance with the Specification.	M ²	250			
	j. roof layers					
	1. supply and apply and fixing of roof layers composed of rock wool in polyethelene bags 6 cm thickness , corrugated sheet panel, 18 cm sand screed with stablization, and the final tiling layer of 7 cm tile with morter of sigle skin hot dip galvanized corrugated sheet panel	M ²	280			
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	2. U.P.V.C water pipes . supply and fix (U.P.V.C) rain water pipes of first choice with all necessary fittings , accessories , supports, adhesive material and manpower to complete the work throughly in accordance to drawings and as per specification	L.M	15			
	k. Water Proofing for foundation					
	supply and install torch applied bituminous membrane (4 mm) between blinding layers under footings and against buried concrete members and walls as detailed on drawings, the price includes making overlapping between the strips, including all materials , labours, and machines to complete the work in accordance with specification and drawings to the acceptance of the Engineer					
	1. torched applied bituminous membrane under foundations	M ²	154			
	2.torched applied bituminous membrane with protection layeras per drawings around foundations and against buried concrete walls	M ²	740			
	Sub-total Carried to Summary					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	<u>HERITAGE CENTER B3</u>					
1.1	Earth Works					
	a. Excavation from the natural or reduced levels (which is lower) in any kind of soil, concrete or asphalt, trees to foundation level, excavation in any kind of soil and rock to the required depth, de-watering ,and all necessary works to keep the excavation dry and workable for construction, removal and transport at any distance of unsuitable material for backfilling and surplus materials, the price includes using the excavated materials if it is suitable for backfilling around the foundations in (200 mm) thick layers watering, compacting to 95% according to the modified field density test up to the required levels as per specifications.	M ³	100			
	b. supplying and excuting backfilling from outside the site around the foundations in (200 mm) thick layers up to the required levels if the excavated materials is not enough or unsuitable for backfilling .The rate of this item shall include machinery, equipment and manpower to complete the works as per specifications and drawings.	M ³	75			
	c. supply and apply well compacted hard core 15 cm thick as per specifications .price to include soil leveling average 25 m thick , watering , and compacting to 95% according to the modified density to the soil under hard core and base course .	M ³	18			
1.2	Concrete Works					
	a. Supply and place Plain Concrete Class (C15) .					
	1. under foundations and under slab on grade ,the price include supply and place vabour barrier in the middle of the plain concrete under slab on grade as shown in the drawing .	M ³	17			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	2. for mortar above columns neck under foundations and under slab on grade	M ³	3			
	b. Supply and place reinforced cast in place concrete (Ready-mix) Class C45 (with O.P.C Ordinary Portland Cement), including formwork, and steel reinforcement for slab on grade.					
	1. for foundation	M ³	17			
	2. for columns' neck	M ³	34			
	3. for slab on grade.	M ³	16			
	c. Supply and place reinforced cast in place concrete (Ready-mix) Class C35 (with O.P.C) Ordinary Portland Cement), the price includes also supplying and building of blocks with a size(10x10x20)cm for the formwork, reinforcement steel, additives and all materials, workmanship, machinery to complete the works as per specification and shown in the drawing materials all exposed concrete surfaces will be of fair face finish					
	1. for columns	M ³	2			
	2. bonding beams	M ³	5			
	3. for lintels and sills	M ³	2			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
1.3	Seel Works					
	a. supply and install H beams for the slabs reinforcement ,with the required detailed dimentions ,the price shall includes forming , fabricating in the plant ,delivering of the required beams , also supplying and fixing the levelling grouted pads and all fixing bolts and all materials, workmanship, machinery to complete the works as per specification and shown in the drawing.	ton	2			
	b. supply and install steel reinforcement bars for reinforced concrete work , yield stress 420 /mm2 high tensile steel garde 60 for main steel, and normal tensile steel garde 40 yield stress 300/mm2 for the minor steel reinforcement, with all required diameters and lengths as per drawings,the price includes cutting, forming,the tie bars and spacing for the steel bars , as detailed in the drawings and specifications.	ton	5			
1.4	Builder Works and Finishing					
	Construction and execution of all works required for the Building including providing workmanship and supplying material for complete execution of all works & finishing as specified, shown on the drawings and as instructed by the Engineer,also the price shall include forming opening in the walls as per detailed drawings, with no extra overhead .					
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	a. Geogrid Reinforced System					
	supply and excute Geogrid Reinforced System behind the burried compressed earth block walls,the price includes supplying and installation of geogrid and geotextile, steel ties , aslo the single size (fine aggregate) for drainage behind the burried faces of the building, and fixing perforated pipes ,the price shall include the excavation and backfilling required for the work, and aslo includes all necessary equipment to finish the work as specified, and as shown on the drawings and as instructed by the Engineer . (the measurment shall be made per square meter of wall face measured as the vertical projection of the face of the reinforced soil wall or slope).	M ²	157			
	b. Compressed Earth Block Work					
	supplying and fixing compressed earth block walls (ADOBE) manufactured in the site , the block walls shall be exposed as indicated in the drawings , with keeping the joints straight , the blocks cut will be neat saw , the price also includes all plant, materials and labour required to achieve the finishes instructed in full compliance with the Specification and drawings including preparation, and all other works necessary for the satisfactory completion of the work.					
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	1. Earth compressed Blocks for walls 40 cm thick, comprising of two layers (15cm Blocks 10 cm cavity and 15 cm blocks thickness).	M ²	159			
	2.Earth compressed Blocks for internal walls (15 cm thick) .	M ²	10			
	3.Earth compressed Blocks Walls for parapet (30 cm thickness).	M ²	50			
	c. Floor Finishing					
	supply and fix several types of tiles , sills and threshold as shown in the drawings and specified , including sand bed, mortar, white cement, pointing, grinding, and polishing, and all equipment, materials, and labours required to complete the works as shown on the drawings or as otherwise instructed in full compliance with soecfication.					
	1.Threshold and sills for doors and windows of heavy duty porcelain tiles non-slip 600 x 600 mm (thickness 10mm).	LM	4			
	2. stone tiles 400x400 mm	M ²	85			
	d. Skirting finish works					
	1. stone height 150mm	LM	64			
	e. Ceiling finish works					
	1. painted 12.5 mm thick gypsum board	M ²	40			
	4. abmboo strips 100 mm	M ²	27			
	5.decorative wood	M ²	5			
	6.structural beams with bamboo strips .	M ²	17			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	f. Windows and Louvers					
	Supply and install windows, the windows shall be fabricated as per specifications the price includes mosquito screens, security grills, glazing, frames, all plant, materials and manpower required to provide and install the windows as shown on the drawings or as otherwise instructed in accordance with the Specification including providing and fixing ironmongery and cleaning.					
	AW01 (0.94X 1.32)	No	2			
	AW02 (0.79 X1.32)	No	3			
	g. Doors					
	Supply and install doors, the doors shall be fabricated as per specifications, the price includes frames, ironmongery, fixings and painting all plant, materials and labour required to provide and install the doors as shown on the Drawings, or as otherwise instructed in accordance with the Specification.					
	D9(1.56X2.47)m	No	1			
	h. niches					
	teak wood for niches cores in the walls with a thickness 10 mm . As per detailed drawing .					
	niche type 3 (1.1X1.20)	No	5			
	niche type 4 (.94X1.0)	No	3			
	niche type 5 (.48X1.0)	No	3			
	niche type 6 (1.25X1.0)	No	2			
	niche type 7 (0.8X1.0)	No	1			
	niche type 11 (1.1X1.0)	No	1			
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	k. roof layers					
	1. supply and apply and fixing of roof layers composed of rock wool in polyethelene bags 6 cm thickness , corrugated sheet panel, 18 cm sand screed with stablization, and the final tiling layer of 7 cm tile with mortar of sigle skin hot dip galvanizer corrugated sheet panel	M ²	115			
	2. U.P.V.C water pipes . supply and fix (U.P.V.C) rain water pipes of first choice with all necessary fittings , accessories , supports, adhesive material and manpower to complete the work througly in accordance to drawings and as per specification	L.M	7			
	l . Water Proofing for foundation					
	supply and install torch applied bituminous membrane (4 mm) between blinding layers under footings and against buried concrete members and walls as detailed on drawings, the price includes making overlapping between the strips, including all materials , labours, and machines to complete the work in accordance with specification and drawings to the acceptance of the Engineer					
	1. torched applied bituminous membrane under foundations	M ²	53			
	2.torched applied bituminous membrane with protection layeras per drawings around foundations and against buried concrete walls	M ²	240			
	Sub-total Carried to Summary					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	<u>ADMINISTRATION BUILDING B4</u>					
1.1	Earth Works					
	a. Excavation from the natural or reduced levels (which is lower) in any kind of soil, concrete or asphalt, trees to foundation level, excavation in any kind of soil and rock to the required depth, de-watering ,and all necessary works to keep the excavation dry and workable for construction, removal and transport at any distance of unsuitable material for backfilling and surplus materials, the price includes using the excavated materials if it is suitable for backfilling around the foundations in (200 mm) thick layers watering, compacting to 95% according to the modified field density test up to the required levels as per specifications.	M ³	346			
	b. supplying and excuting backfilling from outside the site around the foundations in (200 mm) thick layers up to the required levels if the excavated materials is not enough or unsuitable for backfilling .The rate of this item shall include machinery, equipment and manpower to complete the works as per specifications and drawings.	M ³	300			
	c. supply and apply well compacted hard core 15 cm thick as per specifications .price to include soil leveling average 25 m thick , watering , and compacting to 95% according to the modified density to the soil under hard core and base course .	M ³	38			
1.2	Concrete Works					
	a. Supply and place Plain Concrete Class (C15) .					
	1. under foundations and under slab on grade ,the price include supply and place vabour barrier in the middle of the plain concrete under slab on grade as shown in the drawing .	M ³	42			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	2. for mortar above columns neck under foundations and under slab on grade	M ³	5			
	b. Supply and place reinforced cast in place concrete (Ready-mix) Class C45 (with O.P.C Ordinary Portland Cement), including formwork, and steel reinforcement for slab on grade.					
	1. for foundation	M ³	34			
	2. for columns' neck	M ³	103			
	3. for slab on grade.	M ³	42			
	c. Supply and place reinforced cast in place concrete (Ready-mix) Class C35 (with O.P.C) Ordinary Portland Cement), the price includes also supplying and building of blocks with a size(10x10x20)cm for the formwork, reinforcement steel, additives and all materials, workmanship, machinery to complete the works as per specification and shown in the drawing materials all exposed concrete surfaces will be of fair face finish					
	1. for columns	M ³	2			
	2. bonding beams	M ³	10			
	3. for lintels and sills	M ³	2			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
1.3	Seel Works					
	a. supply and install H beams for the slabs reinforcement ,with the required detailed dimentions ,the price shall includes forming , fabricating in the plant ,delivering of the required beams , also supplying and fixing the levelling grouted pads and all fixing bolts and all materials, workmanship, machinery to complete the works as per specification and shown in the drawing.	ton	3			
	b. supply and install steel reinforcement bars for reinforced concrete work , yield stress 420 /mm2 high tensile steel garde 60 for main steel, and normal tensile steel garde 40 yield stress 300/mm2 for the minor steel reinforcement, with all required diameters and lengths as per drawings,the price includes cutting, forming,the tie bars and spacing for the steel bars , as detailed in the drawings and specifications.	ton	12			
1.4	Builder Works and Finishing					
	Construction and execution of all works required for the Building including providing workmanship and supplying material for complete execution of all works & finishing as specified, shown on the drawings and as instructed by the Engineer,also the price shall include forming opening in the walls as per detailed drawings, with no extra overhead .					
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
a. Geogrid Reinforced System						
	supply and excute Geogrid Reinforced System behind the burried compressed earth block walls,the price includes supplying and installation of geogrid and geotextile, steel ties , aslo the single size (fine aggregate) for drainage behind the burried faces of the building, and fixing perforated pipes ,the price shall include the excavation and backfilling required for the work, and aslo includes all necessary equipment to finish the work as specified, and as shown on the drawings and as instructed by the Engineer . (the measurment shall be made per square meter of wall face measured as the vertical projection of the face of the reinforced soil wall or slope).	M ²	172			
b. Compressed Earth Block Work						
	supplying and fixing compressed earth block walls (ADOBE) manufactured in the site , the block walls shall be exposed as indicated in the drawings , with keeping the joints straight , the blocks cut will be neat saw , the price also includes all plant, materials and labour required to achieve the finishes instructed in full compliance with the Specification and drawings including preparation, and all other works necessary for the satisfactory completion of the work.					
	1. Earth compressed Blocks for walls 40 cm thick, comprising of two layers (15cm Blocks 10 cm cavity and 15 cm blocks thickness).	M ²	365			
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	2.Earth compressed Blocks for internal walls (15 cm thick) .	M ²	46			
	3.Earth compressed Blocks Walls for parapet (30 cm thickness) .	M ²	77			
	c. Floor Finishing					
	supply and fix several types of tiles , sills and threshold as shown in the drawings and specified , including sand bed, mortar, white cement, pointing, grinding, and polishing, and all equipment, materials, and labours required to complete the works as shown on the drawings or as otherwise instructed in full compliance with soecfication.					
	1.Threshold and sills for doors and windows of heavy duty porcelain tiles non-slip 600 x 600 mm (thickness 10mm).	LM	16			
	3.stone tiles 200x200 mm	M ²	217			
	6. ceramic tiles non -slip 300x300 mm (thickness 6 mm)	M ²	33			
	d. Skirting finish works					
	2. porelain tiles hight 150 mm .	LM	145			
	e. Ceiling finish works					
	1. painted 12.5 mm thick gypsum board	M ²	153			
	2.glasswool tiles 600x600 mm	M ²	15			
	4. abmboo strips 100 mm	M ²	36			
	5.decorative wood	M ²	5			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
f. Windows and Louvers						
	Supply and install windows, the windows shall be fabricated as per specifications the price includes mosquito screens, security grills, glazing, frames, all plant, materials and manpower required to provide and install the windows as shown on the drawings or as otherwise instructed in accordance with the Specification including providing and fixing ironmongery and cleaning.					
	AW02 (0.79 X1.32)	No	2			
	AW03 (0.63 X1.32)	No	4			
	AW04 (0.48 X 1.32)	No	4			
	AW05 (1.10 X 1.99)	No	9			
g. Doors						
	Supply and install doors, the doors shall be fabricated as per specifications, the price includes frames, ironmongery, fixings and painting all plant, materials and labour required to provide and install the doors as shown on the Drawings, or as otherwise instructed in accordance with the Specification.					
	D3(1.0X2.35)m	No	1			
	D10(4.9X2.35)m	No	4			
	D11(1.87X2.47)m	No	1			
	D15(0.96X2.35)m	No	1			
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	j. Wall finishing works					
	1. Supply and fix ceramic wall tiles 300 x 300 mm as shown in the drawings and specified, including mortar, white cement pointing, and all equipment, material and labour required to achieve the finishes shown on the Drawings or as otherwise instructed in full compliance with the Specification.	M ²	80			
	k. roof layers					
	1. supply and apply and fixing of roof layers composed of rock wool in polyethelene bags 6 cm thickness , corrugated sheet panel, 18 cm sand screed with stablization, and the final tiling layer of 7 cm tile with mortar of sigle skin hot dip galvanized corrugated sheet panel	M ²	250			
	2. U.P.V.C water pipes . supply and fix (U.P.V.C) rain water pipes of first choice with all necessary fittings , accessories , supports, adhesive material and manpower to complete the work througly in accordance to drawings and as per specification	L.M	11			
	l . Water Proofing for foundation					
	supply and install torch applied bituminous membrane (4 mm) between blinding layers under footings and against buried concrete members and walls as detailed on drawings, the price includes making overlapping between the strips, including all materials , labours, and machines to complete the work in accordance with specification and drawings to the acceptance of the Engineer					
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	1. torched applied bituminous membrane under foundations	M ²	113			
	2.torched applied bituminous membrane with protection layeras per drawings around foundations and against buried concrete walls	M ²	722			
Sub-total Carried to Summary						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	<u>ADMINISTRATION ANNIX B5</u>					
1.1	Earth Works					
	a. Excavation from the natural or reduced levels (which is lower) in any kind of soil, concrete or asphalt, trees to foundation level, excavation in any kind of soil and rock to the required depth, de-watering ,and all necessary works to keep the excavation dry and workable for construction, removal and transport at any distance of unsuitable material for backfilling and surplus materials, the price includes using the excavated materials if it is suitable for backfilling around the foundations in (200 mm) thick layers watering, compacting to 95% according to the modified field density test up to the required levels as per specifications.	M ³	230			
	b. supplying and excuting backfilling from outside the site around the foundations in (200 mm) thick layers up to the required levels if the excavated materials is not enough or unsuitable for backfilling .The rate of this item shall include machinery, equipment and manpower to complete the works as per specifications and drawings.	M ³	178			
	c. supply and apply well compacted hard core 15 cm thick as per specifications .price to include soil leveling average 25 m thick , watering , and compacting to 95% according to the modified density to the soil under hard core and base course .	M ³	45.6			
1.2	Concrete Works					
	a. Supply and place Plain Concrete Class (C15) .					
	1. under foundations and under slab on grade ,the price include supply and place vabour barrier in the middle of the plain concrete under slab on grade as shown in the drawing .	M ³	49			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	2. for mortar above columns neck under foundations and under slab on grade	M ³	6			
	b. Supply and place reinforced cast in place concrete (Ready-mix) Class C45 (with O.P.C Ordinary Portland Cement), including formwork, and steel reinforcement for slab on grade.					
	1. for foundation	M ³	38			
	2. for columns' neck	M ³	59			
	3. for slab on grade.	M ³	50			
	c. Supply and place reinforced cast in place concrete (Ready-mix) Class C35 (with O.P.C) Ordinary Portland Cement), the price includes also supplying and building of blocks with a size(10x10x20)cm for the formwork, reinforcement steel, additives and all materials, workmanship, machinery to complete the works as per specification and shown in the drawing materials all exposed concrete surfaces will be of fair face finish					
	1. for columns	M ³	2			
	2. bonding beams	M ³	11			
	3. for lintels and sills	M ³	2			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
1.3	Seel Works					
	a. supply and install H beams for the slabs reinforcement ,with the required detailed dimentions ,the price shall includes forming , fabricating in the plant ,delivering of the required beams , also supplying and fixing the levelling grouted pads and all fixing bolts and all materials, workmanship, machinary to complete the works as per specification and shown in the drawing.	ton	6			
	b. supply and install steel reinforcement bars for reinforced concrete work , yield stress 420 /mm2 high tensile steel garde 60 for main steel, and normal tensile steel garde 40 yield stress 300/mm2 for the minor steel reinforcement, with all required diameters and lengths as per drawings,the price includes cutting, forming,the tie bars and spacing for the steel bars , as detailed in the drawings and specifications.	ton	11			
1.4	Builder Works and Finishing					
	Construction and execution of all works required for the Building including providing workmanship and supplying material for complete execution of all works & finishing as specified, shown on the drawings and as instructed by the Engineer,also the price shall include forming openining in the walls as per detailed drawings, with no extra overhead .					
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	a. Geogrid Reinforced System					
	supply and excute Geogrid Reinforced System behind the burried compressed earth block walls,the price includes supplying and installation of geogrid and geotextile, steel ties , aslo the single size (fine aggregate) for drainage behind the burried faces of the building, and fixing perforated pipes ,the price shall include the excavation and backfilling required for the work, and aslo includes all necessary equipment to finish the work as specified, and as shown on the drawings and as instructed by the Engineer . (the measurment shall be made per square meter of wall face measured as the vertical projection of the face of the reinforced soil wall or slope).	M ²	190			
	b. Compressed Earth Block Work					
	supplying and fixing compressed earth block walls (ADOBE) manufactured in the site , the block walls shall be exposed as indicated in the drawings , with keeping the joints straight , the blocks cut will be neat saw , the price also includes all plant, materials and labour required to achieve the finishes instructed in full compliance with the Specification and drawings including preparation, and all other works necessary for the satisfactory completion of the work.					
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	1. Earth compressed Blocks for walls 40 cm thick, comprising of two layers (15cm Blocks 10 cm cavity and 15 cm blocks thickness).	M ²	341			
	2.Earth compressed Blocks for internal walls (15 cm thick) .	M ²	30			
	3.Earth compressed Blocks Walls for parapet (30 cm thickness).	M ²	75			
	c. Floor Finishing					
	supply and fix several types of tiles , sills and threshold as shown in the drawings and specified , including sand bed, mortar, white cement, pointing, grinding, and polishing, and all equipment, materials, and labours required to complete the works as shown on the drawings or as otherwise instructed in full compliance with soecfication.					
	1.Threshold and sills for doors and windows of heavy duty porcelain tiles non-slip 600 x 600 mm (thickness 10mm).	LM	8			
	2. stone tiles 400x400 mm	M ²	101			
	3.stone tiles 200x200 mm	M ²	47			
	5. heavy duty porcelain tiles non-slip 400 x 400 mm (thickness 10mm).	M ²	137			
	d. Skirting finish works					
	1. stone height 150mm	LM	52			
	4. wood panel height 150 mm	LM	64			
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
e. Ceiling finish works						
	3. aluminum Strip 100 mm	M ²	79			
	4. abmboo strips 100 mm	M ²	110			
	5.decorative wood	M ²	12			
	6.structural beams with bamboo strips .	M ²	48			
f. Windows and Louvers						
	Supply and install windows, the windows shall be fabricated as per specifications the price includes mosquito screens, security grills, glazing, frames, all plant, materials and manpower required to provide and install the windows as shown on the drawings or as otherwise instructed in accordance with the Specification including providing and fixing ironmongery and cleaning.					
	AW02 (0.79 X1.32)	No	3			
	AW05 (1.10 X 1.99)	No	3			
g. Doors						
	Supply and install doors, the doors shall be fabricated as per specifications, the price includes frames, ironmongery, fixings and painting all plant, materials and labour required to provide and install the doors as shown on the Drawings, or as otherwise instructed in accordance with the Specification.					
	D1(0.94X2.35)m	No	2			
	D2(0.8X2.4)m	No	8			
	D3(1.0X2.35)m	No	1			
	D4(0.79X2.14)m	No	1			
	D5(0.79X2.14)m	No	1			
	D12(1.72X2.35)m	No	1			
	D16(1.1X2.14)m	No	1			
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	i. toilet partitions					
	supply and fix palstic laminated mdf parttions for toilates , the price shall include also Pilasters, Headrail, Shoes, Brackets, and all nescssary equipments to finish the work according to the specifications and the manufactorer instructions, the parttions color shall be suitable for site with coordination with the Engineer .	M ²	33			
	j. Wall finishing works					
	1. Supply and fix ceramic wall tiles 300 x 300 mm as shown in the drawings and specified, including mortar, white cement pointing, and all equipment, material and labour required to achieve the finishes shown on the Drawings or as otherwise instructed in full compliance with the Specification.	M ²	270			
	k. roof layers					
	1. supply and apply and fixing of roof layers composed of rock wool in polyethelene bags 6 cm thickness , corrugated sheet panel, 18 cm sand screed with stablization, and the final tiling layer of 7 cm tile with morder of sigle skin hot dip galvanized corrugated sheet panel	M ²	304			
	2. U.P.V.C water pipes .					
	supply and fix (U.P.V.C) rain water pipes of first choice with all necessary fittings , accessories , supports, adhesive material and manpower to complete the work througly in accordance to drawings and as per specification	L.M	18			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N ^o	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
I . Water Proofing for foundation						
	supply and install torch applied bituminous membrane (4 mm) between blinding layers under footings and against buried concrete members and walls as detailed on drawings, the price includes making overlapping between the strips, including all materials , labours, and machines to complete the work in accordance with specification and drawings to the acceptance of the Engineer					
	1. torched applied bituminous membrane under foundations	M ²	120			
	2.torched applied bituminous membrane with protection layers as per drawings around foundations and against buried concrete walls	M ²	525			
Sub-total Carried to Summary						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	<u>CULTURAL AND EDUCATION CENTER B6</u>					
1.1	Earth Works					
	a. Excavation from the natural or reduced levels (which is lower) in any kind of soil, concrete or asphalt, trees to foundation level, excavation in any kind of soil and rock to the required depth, de-watering ,and all necessary works to keep the excavation dry and workable for construction, removal and transport at any distance of unsuitable material for backfilling and surplus materials, the price includes using the excavated materials if it is suitable for backfilling around the foundations in (200 mm) thick layers watering, compacting to 95% according to the modified field density test up to the required levels as per specifications.	M ³	673			
	b. supplying and excuting backfilling from outside the site around the foundations in (200 mm) thick layers up to the required levels if the excavated materials is not enough or unsuitable for backfilling .The rate of this item shall include machinery, equipment and manpower to complete the works as per specifications and drawings.	M ³	580			
	c. supply and apply well compacted hard core 15 cm thick as per specifications .price to include soil leveling average 25 m thick , watering , and compacting to 95% according to the modified density to the soil under hard core and base course .	M ³	106.5			
1.2	Concrete Works					
	a. Supply and place Plain Concrete Class (C15) .					
	1. under foundations and under slab on grade ,the price include supply and place vabour barrier in the middle of the plain concrete under slab on grade as shown in the drawing .	M ³	98			
	Sub-total Carried Forward					
	Sub-total Brought Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	2. for mortar above columns neck under foundations and under slab on grade	M ³	10			
	b. Supply and place reinforced cast in place concrete (Ready-mix) Class C45 (with O.P.C Ordinary Portland Cement), including formwork, and steel reinforcement for slab on grade.					
	1. for foundation	M ³	66			
	2. for columns' neck	M ³	204			
	3. for slab on grade.	M ³	107			
	c. Supply and place reinforced cast in place concrete (Ready-mix) Class C35 (with O.P.C) Ordinary Portland Cement), the price includes also supplying and building of blocks with a size(10x10x20)cm for the formwork, reinforcement steel, additives and all materials, workmanship, machinery to complete the works as per specification and shown in the drawing materials all exposed concrete surfaces will be of fair face finish					
	1. for columns	M ³	3			
	2. bonding beams	M ³	18			
	3. for lintels and sills	M ³	4			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
1.3	Seel Works					
	a. supply and install H beams for the slabs reinforcement ,with the required detailed dimentions ,the price shall includes forming , fabricating in the plant ,delivering of the required beams , also supplying and fixing the levelling grouted pads and all fixing bolts and all materials, workmanship, machinery to complete the works as per specification and shown in the drawing.	ton	21			
	b. supply and install steel reinforcement bars for reinforced concrete work , yield stress 420 /mm2 high tensile steel garde 60 for main steel, and normal tensile steel garde 40 yield stress 300/mm2 for the minor steel reinforcement, with all required diameters and lengths as per drawings,the price includes cutting, forming,the tie bars and spacing for the steel bars , as detailed in the drawings and specifications.	ton	25			
1.4	Builder Works and Finishing					
	Construction and execution of all works required for the Building including providing workmanship and supplying material for complete execution of all works & finishing as specified, shown on the drawings and as instructed by the Engineer,also the price shall include forming opening in the walls as per detailed drawings, with no extra overhead .					
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	a. Geogrid Reinforced System					
	supply and excute Geogrid Reinforced System behind the burried compressed earth block walls,the price includes supplying and installation of geogrid and geotextile, steel ties , aslo the single size (fine aggregate) for drainage behind the burried faces of the building, and fixing perforated pipes ,the price shall include the excavation and backfilling required for the work, and aslo includes all necessary equipment to finish the work as specified, and as shown on the drawings and as instructed by the Engineer . (the measurment shall be made per square meter of wall face measured as the vertical projection of the face of the reinforced soil wall or slope).	M ²	215			
	b. Compressed Earth Block Work					
	supplying and fixing compressed earth block walls (ADOBE) manufactured in the site , the block walls shall be exposed as indicated in the drawings , with keeping the joints straight , the blocks cut will be neat saw , the price also includes all plant, materials and labour required to achieve the finishes instructed in full compliance with the Specification and drawings including preparation, and all other works necessary for the satisfactory completion of the work.					
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	1. Earth compressed Blocks for walls 40 cm thick, comprising of two layers (15cm Blocks 10 cm cavity and 15 cm blocks thickness).	M ²	805			
	2. Earth compressed Blocks for internal walls (15 cm thick) .	M ²	125			
	3. Earth compressed Blocks Walls for parapet (30 cm thickness).	M ²	172			
	c. Floor Finishing					
	supply and fix several types of tiles , sills and threshold as shown in the drawings and specified , including sand bed, mortar, white cement, pointing, grinding, and polishing, and all equipment, materials, and labours required to complete the works as shown on the drawings or as otherwise instructed in full compliance with specification.					
	1. Threshold and sills for doors and windows of heavy duty porcelain tiles non-slip 600 x 600 mm (thickness 10mm).	LM	14			
	2. stone tiles 400x200 mm	M ²	210			
	3. heavy duty porcelain tiles non-slip 400 x 400 mm (thickness 10mm).	M ²	14			
	4. heavy duty porcelain tiles non-slip 600 x 600 mm (thickness 10mm).	M ²	334			
	5. ceramic tiles non -slip 300x300 mm (thickness 6 mm)	M ²	40			
	6. terrazzo tiles 300x300 mm	M ²	25			
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	d. Skirting finish works					
	1. stone height 150mm	LM	16			
	2. porcalain	LM	176			
	4. wood panel height 150 mm	LM	42			
	e. Ceiling finish works					
	1. painted 12.5 mm gypsum board	M ²	50			
	2. glass wool 600x600 mm	M ²	177			
	3. aluminum Strip 100 mm	M ²	128			
	4. bambboo strips 100 mm	M ²	108			
	5.decorative wood	M ²	12			
	6.structural beams with bambboo strips .	M ²	110			
	f. Windows and Louvers					
	Supply and install windows, the windows shall be fabricated as per specifications the price includes mosquito screens, security grills, glazing, frames, all plant, materials and manpower required to provide and install the windows as shown on the drawings or as otherwise instructed in accordance with the Specification including providing and fixing ironmongery and cleaning.					
	AW02 (0.79 X1.32)	No	5			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	g. Doors					
	Supply and install doors, the doors shall be fabricated as per specifications, the price includes frames, ironmongery, fixings and painting all plant, materials and labour required to provide and install the doors as shown on the Drawings, or as otherwise instructed in accordance with the Specification.					
	D1(0.94X2.35)m	No	11			
	D2(0.8X2.4)m	No	12			
	D3(1.0X2.35)m	No	1			
	D11(1.87X2.47)m	No	11			
	D13(2.51 X 2.54)m	No	1			
	D14(1.56 X 2.47)m	No	1			
	D16(1.1X 2.14)m	No	1			
	g. niches					
	teak wood for niches cores in the walls with a thickness 10 mm . As per detailed drawing .					
	niche type 1 (1.37X1.0)	No	2			
	niche type 8 (1.88X1.0)	No	3			
	h. movable wooden partitions					
	supply and apply movable wooden partitions , the price include accessories and all required works as shown in the details .	M ²	44			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	i. toilet partitions					
	supply and fix palstic laminated mdf parttions for toيلات , the price shall include also Pilasters, Headrail, Shoes, Brackets, and all nescssary equipments to finish the work according to the specifications and the manufactorer instructions, the parttions color shall be suitable for site with coordination with the Engineer .	M ²	82			
	j. Wall finishing works					
	1.Supply and fix ceramic wall tiles300 x300 mm as shown in the drawings and specified, including mortar, white cement pointing,and all equipment, material and labour required to achieve the finishes shown on the Drawings or as otherwise instructed in full compliance with the Specification.	M ²	355			
	k. roof layers					
	1. supply and apply and fixing of roof layers composed of rock wool in polyethelene bags 6 cm thickness , corrugated sheet panel, 18 cm sand screed with stablization, and the final tiling layer of 7 cm tile with mortar of sigle skin hot dip galvanized corrugated sheet panel	M ²	710			
	2. U.P.V.C water pipes . supply and fix (U.P.V.C) rain water pipes of first choice with all necessary fittings , accessories , supports, adhesive material and manpower to complete the work througly in accordance to drawings and as per specification	L.M	15			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	I . Water Proofing for foundation					
	supply and install torch applied bituminous membrane (4 mm) between blinding layers under footings and against buried concrete members and walls as detailed on drawings, the price includes making overlapping between the strips, including all materials , labours, and machines to complete the work in accordance with specification and drawings to the acceptance of the Engineer					
	1. torched applied bituminous membrane under foundations	M ²	269			
	2.torched applied bituminous membrane with protection layeras per drawings around foundations and against buried concrete walls	M ²	1686			
	Sub-total Carried to Summary					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures USD	Rates in words USD	Amount USD
	<u>INTERPRETATION CENTER B7</u>					
1.1	Earth Works					
	a. Excavation from the natural or reduced levels (which is lower) in any kind of soil, concrete or asphalt, trees to foundation level, excavation in any kind of soil and rock to the required depth, de-watering ,and all necessary works to keep the excavation dry and workable for construction, removal and transport at any distance of unsuitable material for backfilling and surplus materials, the price includes using the excavated materials if it is suitable for backfilling around the foundations in (200 mm) thick layers watering, compacting to 95% according to the modified field density test up to the required levels as per specifications.	M ³	189			
	b. supplying and excuting backfilling from outside the site around the foundations in (200 mm) thick layers up to the required levels if the excavated materials is not enough or unsuitable for backfilling .The rate of this item shall include machinery, equipment and manpower to complete the works as per specifications and drawings.	M ³	136			
	c. supply and apply well compacted hard core 15 cm thick as per specifications .price to include soil leveling average 25 m thick , watering , and compacting to 95% according to the modified density to the soil under hard core and base course .	M ³	57			
1.2	Concrete Works					
	a. Supply and place Plain Concrete Class (C15) .					
	1. under foundations and under slab on grade ,the price include supply and place vabour barrier in the middle of the plain concrete under slab on grade as shown in the drawing .	M ³	54			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures USD	Rates in words USD	Amount USD
	Sub-total Brought Forward					
	2. for mortar above columns neck under foundations and under slab on grade	M ³	5			
	b. Supply and place reinforced cast in place concrete (Ready-mix) Class C45 (with O.P.C Ordinary Portland Cement), including formwork, and steel reinforcement for slab on grade.					
	1. for foundation	M ³	39			
	2. for columns' neck	M ³	46			
	3. for slab on grade.	M ³	57			
	c. Supply and place reinforced cast in place concrete (Ready-mix) Class C35 (with O.P.C) Ordinary Portland Cement), the price includes also supplying and building of blocks with a size(10x10x20)cm for the formwork, reinforcement steel, additives and all materials, workmanship, machinery to complete the works as per specification and shown in the drawing materials all exposed concrete surfaces will be of fair face finish					
	1. for columns	M ³	3			
	2. bonding beams	M ³	11			
	3. for lintels and sills	M ³	2			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures USD	Rates in words USD	Amount USD
Sub-total Brought Forward						
1.3	Seel Works					
	a. supply and install H beams for the slabs reinforcement ,with the required detailed dimentions ,the price shall includes forming , fabricating in the plant ,delivering of the required beams , also supplying and fixing the levelling grouted pads and all fixing bolts and all materials, workmanship, machinery to complete the works as per specification and shown in the drawing.	ton	14.5			
	b. supply and install steel reinforcement bars for reinforced concrete work , yield stress 420 /mm2 high tensile steel garde 60 for main steel, and normal tensile steel garde 40 yield stress 300/mm2 for the minor steel reinforcement, with all required diameters and lengths as per drawings,the price includes cutting, forming,the tie bars and spacing for the steel bars , as detailed in the drawings and specifications.	ton	11			
1.4	Builder Works and Finishing					
	Construction and execution of all works required for the Building including providing workmanship and supplying material for complete execution of all works & finishing as specified, shown on the drawings and as instructed by the Engineer,also the price shall include forming opening in the walls as per detailed drawings, with no extra overhead .					
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures USD	Rates in words USD	Amount USD
	Sub-total Brought Forward					
	a. Geogrid Reinforced System					
	supply and excute Geogrid Reinforced System behind the burried compressed earth block walls,the price includes supplying and installation of geogrid and geotextile, steel ties , aslo the single size (fine aggregate) for drainage behind the burried faces of the building, and fixing perforated pipes ,the price shall include the excavation and backfilling required for the work, and aslo includes all necessary equipment to finish the work as specified, and as shown on the drawings and as instructed by the Engineer . (the measurment shall be made per square meter of wall face measured as the vertical projection of the face of the reinforced soil wall or slope).	M ²	210			
	b. Compressed Earth Block Work					
	supplying and fixing compressed earth block walls (ADOBE) manufactured in the site , the block walls shall be exposed as indicated in the drawings , with keeping the joints straight , the blocks cut will be neat saw , the price also includes all plant, materials and labour required to achieve the finishes instructed in full compliance with the Specification and drawings including preparation, and all other works necessary for the satisfactory completion of the work.					
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures USD	Rates in words USD	Amount USD
Sub-total Brought Forward						
	1. Earth compressed Blocks for walls 40 cm thick, comprising of two layers (15cm Blocks 10 cm cavity and 15 cm blocks thickness).	M ²	566			
	2.Earth compressed Blocks for internal walls (15 cm thick) .	M ²	103			
	3.Earth compressed Blocks Walls for parapet 30 cm thickness .	M ²	156			
	c. Floor Finishing					
	supply and fix several types of tiles , sills and threshold as shown in the drawings and specified , including sand bed, mortar, white cement, pointing, grinding, and polishing, and all equipment, materials, and labours required to complete the works as shown on the drawings or as otherwise instructed in full compliance with soecfication.					
	1.Threshold and sills for doors and windows of heavy duty porcelain tiles non-slip 600 x 600 mm (thickness 10mm).	LM	17			
	2. stone tiles 400x200 mm	M ²	42			
	4. heavy duty porcelain tiles non-slip 600 x 600 mm (thickness 10mm).	M ²	159			
	5. heavy duty porcelain tiles non-slip 400 x 400 mm (thickness 10mm).	M ²	17			
	6. ceramic tiles non -slip 300x300 mm (thickness 6 mm)	M ²	97			
	7. terrazzo tiles 300 x300 mm (thickness 3cm)	M ²	30			
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures USD	Rates in words USD	Amount USD
	Sub-total Brought Forward					
	d. Skirting finish works					
	1. stone height 150mm	LM	13			
	2. porelain tiles hight 150 mm .	LM	32			
	3. terrazzo tiles hight 100 mm .	LM	25			
	4. wood panel height 150 mm	LM	75			
	e. Ceiling finish works					
	1. painted plaster with decorative wood	M ²	270			
	2. aluminum Strip 100 mm	M ²	95			
	3. structural beams with bamboo strips .	M ²	10			
	f. Doors					
	Supply and install doors, the doors shall be fabricated as per specifications, the price includes frames, ironmongery, fixings and painting all plant, materials and labour required to provide and install the doors as shown on the Drawings, or as otherwise instructed in accordance with the Specification.					
	D1(0.94X2.35)m	No	4			
	D2(0.8X2.4)m	No	6			
	D17(0.94X2.47)m	No	1			
	D18(0.94X2.47)m	No	2			
	D21(0.84X2.35)m	No	2			
	g. niches					
	teak wood for niches cores in the walls with a thickness 10 mm . As per detailed drawing .					
	1.niche type 6	No	8			
	2. niche type 10	No	3			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures USD	Rates in words USD	Amount USD
	Sub-total Brought Forward					
	h. movable wooden partitions					
	supply and apply movable wooden partitions , the price include accessories and all required works as shown in the details .	M ²	37			
	i. toilet partitions					
	supply and fix palstic laminated mdf parttions for toilates , the price shall include also Pilasters, Headrail, Shoes, Brackets, and all nescsary equipments to finish the work according to the specifications and the manufactorer instructions, the parttions color shall be suitable for site with coordination with the Engineer .	M ²	43			
	j. Wall finishing works					
	1.Supply and fix ceramic wall tiles300 x300 mm as shown in the drawings and specified, including mortar, white cement pointing,and all equipment, material and labour required to achieve the finishes shown on the Drawings or as otherwise instructed in full compliance with the Specification.	M ²	144			
	k. roof layers					
	1. supply and apply and fixing of roof layers composed of rock wool in polyethelene bags 6 cm thickness , corrugated sheet panel, 18 cm sand screed with stablization, and the final tiling layer of 7 cm tile with mortar of sigle skin hot dip galvanized corrugated sheet panel	M ²	392			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	<u>LANDSCAPE TOILATES</u>					
1.1	Earth Works					
	a. Excavation from the natural or reduced levels (which is lower) in any kind of soil, concrete or asphalt, trees to foundation level, excavation in any kind of soil and rock to the required depth, de-watering ,and all necessary works to keep the excavation dry and workable for construction, removal and transport at any distance of unsuitable material for backfilling and surplus materials, the price includes using the excavated materials if it is suitable for backfilling around the foundations in (200 mm) thick layers watering, compacting to 95% according to the modified field density test up to the required levels as per specifications.	M ³	189			
	b. supplying and excuting backfilling from outside the site around the foundations in (200 mm) thick layers up to the required levels if the excavated materials is not enough or unsuitable for backfilling .The rate of this item shall include machinery, equipment and manpower to complete the works as per specifications and drawings.	M ³	136			
	c. supply and apply well compacted hard core 25 cm thick as per specifications .price to include soil leveling average 25 m thick , watering , and compacting to 95% according to the modified density to the soil under hard core and base course .	M ³	9			
1.2	Concrete Works					
	a. Supply and place Plain Concrete Class (C15) .					
	1. under foundations and under slab on grade ,the price include supply and place vabour barrier in the middle of the plain concrete under slab on grade as shown in the drawing .	M ³	12			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	2. for mortar above columns neck under foundations and under slab on grade	M ³	1			
	b. Supply and place reinforced cast in place concrete (Ready-mix) Class C45 (with O.P.C Ordinary Portland Cement), including formwork, and steel reinforcement for slab on grade.					
	1. for foundation	M ³	13			
	2. for columns' neck	M ³	9			
	3. for slab on grade.	M ³	9			
	c. Supply and place reinforced cast in place concrete (Ready-mix) Class C35 (with O.P.C) Ordinary Portland Cement), the price includes also supplying and building of blocks with a size(10x10x20)cm for the formwork, reinforcement steel, additives and all materials, workmanship, machinery to complete the works as per specification and shown in the drawing materials all exposed concrete surfaces will be of fair face finish					
	1. for columns	M ³	1			
	2. bonding beams	M ³	4			
	3. for lintels and sills	M ³	1			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
1.3	Seel Works					
	a. supply and install H beams for the slabs reinforcement ,with the required detailed dimentions ,the price shall includes forming , fabricating in the plant ,delivering of the required beams , also supplying and fixing the levelling grouted pads and all fixing bolts and all materials, workmanship, machinery to complete the works as per specification and shown in the drawing.	ton	4			
	b. supply and install steel reinforcement bars for reinforced concrete work , yield stress 420 /mm2 high tensile steel garde 60 for main steel, and normal tensile steel garde 40 yield stress 300/mm2 for the minor steel reinforcement, with all required diameters and lengths as per drawings,the price includes cutting, forming,the tie bars and spacing for the steel bars , as detailed in the drawings and specifications.	ton	5			
1.4	Builder Works and Finishing					
	Construction and execution of all works required for the Building including providing workmanship and supplying material for complete execution of all works & finishing as specified, shown on the drawings and as instructed by the Engineer,also the price shall include forming opening in the walls as per detailed drawings, with no extra overhead .					
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	b. Compressed Earth Block Work					
	supplying and fixing compressed earth block walls (ADOBE) manufactured in the site , the block walls shall be exposed as indicated in the drawings , with keeping the joints straight , the blocks cut will be neat saw , the price also includes all plant, materials and labour required to achieve the finishes instructed in full compliance with the Specification and drawings including preparation, and all other works necessary for the satisfactory completion of the work.					
	1.Earth compressed Blocks for internal walls (15 cm thick) .	M ²	291			
	c. Floor Finishing					
	supply and fix several types of tiles , sills and threshold as shown in the drawings and specified , including sand bed, mortar, white cement, pointing, grinding, and polishing, and all equipment, materials, and labours required to complete the works as shown on the drawings or as otherwise instructed in full compliance with soecfication.					
	6. ceramic tiles non -slip 200x200 mm (thickness 6 mm)	M ²	55			
	e. Ceiling finish works					
	1. aluminum Strip 100 mm	M ²	55			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	f. Doors					
	Supply and install doors, the doors shall be fabricated as per specifications, the price includes frames, ironmongery, fixings and painting all plant, materials and labour required to provide and install the doors as shown on the Drawings, or as otherwise instructed in accordance with the Specification.					
	D20(1.7X2.05)m	No	8			
	j. Wall finishing works					
	1. Supply and fix ceramic wall tiles 300 x 300 mm as shown in the drawings and specified, including mortar, white cement pointing, and all equipment, material and labour required to achieve the finishes shown on the Drawings or as otherwise instructed in full compliance with the Specification.	M ²	236			
	k. roof layers					
	1. supply and apply and fixing of roof layers composed of rock wool in polyethelene bags 6 cm thickness , corrugated sheet panel, 18 cm sand screed with stablization, and the final tiling layer of 7 cm tile with mortar of sigle skin hot dip galvanized corrugated sheet panel	M ²	55			
	2. U.P.V.C water pipes . supply and fix (U.P.V.C) rain water pipes of first choice with all necessary fittings , accessories , supports, adhesive material and manpower to complete the work througly in accordance to drawings and as per specification	L.M	4			
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
I . Water Proofing for foundation						
	supply and install torch applied bituminous membrane (4 mm) between blinding layers under footings and against buried concrete members and walls as detailed on drawings, the price includes making overlapping between the strips, including all materials , labours, and machines to complete the work in accordance with specification and drawings to the acceptance of the Engineer					
	1. torched applied bituminous membrane under foundations	M ²	43			
	2.torched applied bituminous membrane with protection layeras per drawings around foundations and against buried concrete walls	M ²	198			
Sub-total Carried to Summary						

BILL No. (1) CIVIL WORKS

Item N ^o	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	<u>WATER TANK WORKS</u>					
1.1	Earth Works a. Excavation to foundation level, excavation in any kind of soil and rock to the required depth, de-watering including construction of cofferdam and all necessary works to keep the excavation dry and workable for construction, removal and transport at any distance of unsuitable material for backfilling and surplus materials	M ³	960			
1.2	Concrete Works a. Supply and place Plain Concrete Class (C15) under foundations and under slab on grade ,the price include supply and place vabour barrier in the middle of the plain concret under slab on grade as shown in the drawing . b. Supply and place reinforced cast in place concrete (Ready-mix) Class C45 (with O.P.C Ordinary Portland Cement), including formwork, and steel reinforcement for slab on grade. 1. for foundation . c. Supply and place reinforced cast in place concrete (Ready-mix) Class C35 (with O.P.C) Ordinary Portland Cement), including formwork, additives and all materials, workmanship, machinery to complete the works as per specification and shown in the drawing materials all exposed concrete surfaces will be of fair face finish 1. for reinforced walls 2. for top slab .	M ³	7			
		M ³	19			
		M ³	42			
		M ³	17			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N ^o	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
1.3	Seel Works					
	a. supply and install steel reinforcement bars for reinforced concrete work , yield stress 420 /mm2 high tensile steel garde 60 for main steel, and normal tensile steel garde 40 yield stress 300/mm2 for the minor steel reinforcement, with all required diameters and lengths as per drawings,the price includes cutting, forming,the tie bars and spacing for the steel bars , as detailed in the drawings and specifications.	ton	10			
1.3	Concrete Joint Accessories supply and apply construction joint with water stop of PVC , The rate of this item shall include fasteners and all accessories, all machinery, equipment and manpower to complete the works as per specifications and drawings.	L.M	31			
1.4	steel access covers Supply and install steel covers ,it shall be fabricated as per specifications, the price includes frames, ironmongery, fixings and painting all plant, materials and labour required to provide and install covers as shown on the Drawings, or as otherwise instructed in accordance with the Specification.					
	1. (1.0 x1.0)m	No	1			
	2. (0.7x 0.6)m	No	1			
	3.(1.6x 0.6)m	No	1			
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
1.5	<p>Wall finishing works Interior painting for the water tank walls of cement materials with polymer base, including surface preparation, priming, painting with as indicated on drawings, the number of coats specified, working on horizontal, vertical and inclined surfaced and in narrow widths and all other works necessary for full satisfaction of the Engineer.</p>	M ²	195			
1.6	<p>Water Proofing for foundation supply and install torch applied bituminous membrane (4 mm) between blinding layers under footings and against buried concrete members and walls as detailed on drawings, the price includes making overlapping between the strips, including all materials , labours, and machines to complete the work in accordance with specification and drawings to the acceptance of the Engineer</p> <p>1. bituminous membrane under foundations</p> <p>2. bituminous membrane with protection layer as per drawings around foundations and against buried concrete walls</p>	M ²	68			
		M ²	139			
Sub-total Carried to Summary						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures USD	Rates in words USD	Amount USD
1.1	WADI (water way) WORKS : Earth Works					
	a.structural Excavation for bridges construction in any kind of soil and rock to the required depth, de-watering ,and all necessary works to keep the excavation dry and workable for construction, removal and transport at any distance of unsuitable material for backfilling and surplus materials, the price includes using the excavated materials if it is suitable for backfilling around the foundations in (200 mm) thick layers watering, compacting to 95% according to the modified field density test up to the required levels as per specifications.	M ³	455			
	b. supplying and excuting structural backfilling for bridges construction from outside the site around the foundations in (200 mm) thick layers up to the required levels if the excavated materials is not enough or unsuitable for backfilling .The rate of this item shall include machinery, equipment and manpower to complete the works as per specifications and drawings.	M ³	142			
	c. supply and apply lose riprap for wadi duration contains of boulders of around 25 cm diameter as per specifications above the backfilling .price to include soil leveling average 25 cm thick , watering , and compacting to 95% according to the modified density to the soil under the boulders .	M ³	1033			
	d. gravel beside the river sides with a width of (0.4 m) and a height of approxmitly(0.3 m) ,as shown in the drawing and as per specification.	M ³	2200			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures USD	Rates in words USD	Amount USD
Sub-total Brought Forward						
1.2	Concrete Works					
	a. Supply and place Plain Concrete Class (C15) under foundations and the approach slab ,the price including all materials, workmanship, machinery to complete the works as per specification and shown in the drawing.	M ³	24			
	b. Supply and place reinforced cast in place concrete (Ready-mix) Class C45 (with O.P.C Ordinary Portland Cement), the price including the construction joints, additives, formwork and all materials, workmanship, machinery to complete the works as per specification and shown in the drawing.					
	1. for wadi foundation	M ³	41			
	2. for side reinforced walls .	M ³	26			
	3. for the approach slab.	M ³	16			
1.3	Seel Works					
	a. supply and install H beams for the bridges reinforcement ,with the required dimentions ,the price shall includes all fixing bolts and all materials, workmanship, machinery to complete the works as per specification and shown in the drawing.	ton	7			
	b. supply and install steel reinforcement bars for reinforced concrete work,with a yield stress 420 /mm2 high tensile steel garde 60 for main steel, and normal tensile steel garde 40 yield stress 300/mm2 for the minor steel reinforcement, with all required diameters and lengths as per drawings,the price includes cutting, forming,the tie bars and spacing for the steel bars , as detailed in the drawings and specifications.	ton	3			
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures USD	Rates in words USD	Amount USD
Sub-total Brought Forward						
1.4	<p>Builder Works and Finishing Construction and execution of all works required for the Building including providing workmanship and supplying material for complete execution of all works & finishing as specified, shown on the drawings and as instructed by the Engineer.</p> <p>a. Floor Finishing</p>					
	Construction and execution of all works required for wadi bridges including providing workmanship and supplying material for complete execution of all works & finishing as specified, shown on the drawings and as instructed by the Engineer, also the price shall include forming opening in the walls as per detailed drawings, with no extra overhead .					
	1. teak wood panel fixed to beamz (50 mm).	M ²	123			
1.5	<p>bridges handrail . supply and install handrails for wadi bridges consists of 6 mm thick bowder coated steel plates fixed with 50 x50 mm wood rods with a (50x50) mm wood handle above , the price shall includes all fasteners ,anchors, all related accessories, and includes all plant, materials and labor required to finish the work as shown on the detailed Drawings and as otherwise instructed in accordance with the Specification .</p>					
		LM	30			
Sub-total Carried to Summary						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	<u>SITE WORKS</u>					
1.1	Earth Works					
	a. removal and cleaning (15 cm) in any kind of soil, rock asphalt, concrete, etc for the whole site within the boundary limits, the price includes grubbing of all undesired plants and shrubs to the locations approved by authorities as per specifications.	M ²	87000			
	b. site levelling					
	1. excavations for the whole site (including building and landscape area) ;cutting in any kind of soil, rock .. Etc for the whole site within the boundary limits to reach the (site F.F.L) as extracted from drawing and specifications .	M ³	9465			
	2. backfilling for the whole site in 200 mm thick layers and compacting same to 95% of modified density according to the modified AASHTO using suitable approved excavated materials or imported selected fill for backfilling as per specifications .	M ³	5140			
	c. supply and install loose mortered stone riprap of field stones to form stone walls lines in broad float shapes to the maximum extent practicable . all stone shall be hard,sound,durable, highly resistant to the weathering , as per specifications and drawings .	M ³	630			
1.2	Concrete Works					
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	a . Supply and place reinforced cast in place concrete (Ready-mix) Class C35 (with O.P.C) Ordinary Portland Cement), including formwork, additives and all materials, workmanship, machinery to complete the works as per specification and shown in the drawing materials all exposed concrete surfaces will be of fair face finish					
	1. for foundation for benches on the site	M ³	18			
	2. reinforced concretefor slabs on grade under mechanical equipments	M ³	46			
	2. Reinforced concrete class 25 ditch lining for building protection , with 10 mm diameter steel reinforcement .	M3	300			
	3 .Single Reinforced Concrete Pipe Culvert CLASS 35 of 500 mm diameter , THE price shall include all excavation , backfilling, reinforcement steel, and all necessary equipment , materials, workmanship, to complete the works as per specifications , darwing and the Engineer .	L.M	55			
	Seel Works					
	a. supply and install steel reinforcement bars for reinforced concrete work , yield stress 420 /mm2 high tensile steel garde 60 for main steel, and normal tensile steel garde 40 yield stress 300/mm2 for the minor steel reinforcement, with all required diameters and lengths as per drawings,the price includes cutting, forming,the tie bars and spacing for the steel bars , as detailed in the drawings and specifications.	ton	31			
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
1.3	Builder Works and Finishing					
	Construction and execution of all works required for the Building including providing workmanship and supplying material for complete execution of all works & finishing as specified, shown on the drawings and as instructed by the Engineer.					
	a. Floor Finishing					
	supply and fix several types of tiles ,as shown in the drawings and specified , including sand bed, mortar, white cement, pointing, grinding, and polishing, and all equipment, materials, and labours required to complete the works as shown on the drawings or as otherwise instructed in full compliance with specification.					
	1. interlocking stone paver(7 cm thickness) semi- irregular pattern	M2	12618			
	2. sand interlocking tiles (10x10x8 cm) square grid pattern	M2	3123			
	3. sand interlocking tiles (20x10x8 cm) herringbone pattern	M2	7684			
	4. interlocking stone paver (7 cm)circular patern	M2	3152			
	5. patterned earth final layer for pedestrian path, including geotextile layer, and draingae gravel under it .	M2	3536			
	6. open grid block pavement for open theater ,including geotextile layer, and draingae gravel under it .	M2	293			
	7.protective mesh on bare rock	M2	868			
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	b. kerb work					
	supply and fix curb stone (20x30 cm) at the edges of tiling works, the price includes also 2 cm mortar bed ,concrete backing behind the curb and including providing workmanship and supplying material for complete execution of all works & finishing as specified, shown on the drawings and as instructed by the Engineer.	L.M	6263			
	c. precast concrete for seat with sand smooth finish (150mm width) for site benches.	M2	90			
	j. blustrades					
	supply and install balustrade for stairs of glav.steel pipe (75) mm and (50) mm diameter of height 85 cm above stairs parapet ,according to specifications, painting two primer coats	LM	122			
Signage system						
	supply and fix interior and exterior signage system of brushed aluminum with the dimensions shown in the drawings ,the price includes all stiffeners, painting, stickers,equipment, materials, and labors required to complete the works as shown on the drawings or as otherwise instructed in full compliance with specification.					
	1. interior signage system of the following types:					
	S1	No.	11			
	S2	No.	12			
	S3	No.	8			
	S4	No.	6			
	S5	No.	7			
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	2. exterior signage system of the following types:					
	S3	No.	4			
	S6	No.	4			
	S07	No.	4			
	S08	No.	7			
	S9	No.	30			
	Pergolas					
	supply and fix pergoals of different types seperated in the site ,the price includes all stiffeners, bolts, painting,,equipment, materials, and labors required to complete the works as shown on the drawings or as otherwise instructed in full compliance with specification.					
	1. pergolas type (1) of dark oak wood beams and frames, and structural columns of dark oak pre composite wood .	M2	81			
	2. pergolas type (2) of dark oak wood beams, and steel columns covered by synthatic render with oriental paint and a wood corbel on column top .	M2	181			
	3. pergolas type (3) of G.R.P beams and strips on the top, also steel beams for stiffining with columns .	M2	16			
	4. pergolas type (4) of dark oak wood beams with steel stiffeners beams covered by dark oak wood at the edges and structural columns of dark oak pre composite wood .	M2	701			
	5. pergolas type (5) of dark oak wood beams, studs,and brass sheets with a structural columns of dark oak pre composite wood .	M2	65			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	6. pergolas type (6) of dark oak wood beams,sub frames and louvers, and steel columns covered by synthatic render with oriental paint and a wood corbel on column top .	M2	25			
	7. pergolas type (7) of dark oak wood beams,sub frames and louvers, and steel columns covered by synthatic render with oriental paint and a wood corbel on column top .	M2	139			
	8. pergolas type (8) of dark oak wood beams,sub frames,and light color fabric in the middle with steel columns covered by synthatic render with oriental paint and a wood corbel on column top .	M2	266			
	9. pergolas type (9) of dark oak wood beams,sets on building walls as per drawings .	M2	118			
	Fabric shades					
	supply and fix fabric shades ,the price includes all equipment, materials, and labors required to complete the works as shown on the drawings and specification.	No.	19			
	Gabion Works					
	supplying,furnishing, assembling and istalling of Geogrid reinforced soil as shown in the drawing and mentioned in the specifications including supplying and installation of geogrid and geotextile also includes excavation and backfilling for all Mechanically Stabilized Earth Walls (MSE Walls) as per specifications and drawing . (THE GEO GRID SHALL BE MESURED BY SQUARE METER OF WALL FACE MEASURED AS THE VERTICAL PROJECTION OF THE FACE OF THE REINFORCED SOIL WALL OR SLOPE) :					
Sub-total Carried Forward						

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	1. Gabion for the theater works , the price includes stone tiling 40x20 cm and modular block facing for the exposed surfaces .	Sq.m	175			
	2.Gabion for site works of stairs , several areas ..(except the buildings), the price includes modular block facing for the exposed surfaces .	Sq.m	115			
	Agricultural works a. forming agricultural areas; left for growth of spontaneous vegetation ;works forseen:leveling and laying 30 cm thickness of agricultural top soil , the price includes supplying and furnishing of agricultural soil, and includes also machinery equipment and manpower to complete the works as per specifications and drawings. b. supplying and installing the following trees and shrubs as shown in the drawings, the price includes also excavation works,supplying insalling, and curing the soil surrounding the tree, fertilizers,fixing studs, and all required fasteners to support the plants as per specifications :	M2	1850			
	1.Kermes Oak (CC)	No.	12			
	2. Common Fig (FC)	No.	14			
	3. Carob (CS)	No.	20			
	4. Acacia (AR)	No.	8			
	5. Christ's Thorn (ZS)	No.	56			
	6. Tamarisk (SM)	No.	13			
	7. Date Palm (PD)	No.	42			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	c. supplying and installing the following flowers as shown in the drawings, the price includes also excavation works, supplying insalling, and curing the soil surrounding the tree, fertilizers, fixing studs, and all required fasteners to support the plants as per specifications :					
	1. Aloe Vera (AV)	No.	44			
	2. Wild Pink (DS)	No.	56			
	3. Toothed Lavender (LD)	No.	45			
	4. Henbit Deadnettle (LA)	No.	35			
	5. Crocus Pallasii (CP)	No.	73			
	6. Golden Henbane (HA)	No.	22			
	7. Gypsophila Arabica (GA)	No.	22			
	8. Wild Mignonette (RL)	No.	38			
	d. lawn works beside the river	M2	10120			
	e. steel mesh supply and fix protective steel mesh on bare rock for stabilization as shown on the Drawings or as otherwise instructed in accordance with the Specification .	M2				
	f. luminous phosphorescent paint of approved properties according to the engineers instructions and accordance with the Specification and drawings .	LM	1146			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	<p>dustbins Supply and install the following galvanized steel dustbins complete including all necessary earthworks, galvanized steel supports, reinforced concrete foundations, all necessary accessories like, painting to galvanized steel surfaces with all parts polyester powder coated. All fixing are in stainless steel, all as specified, shown on the drawings and to the satisfaction of the Engineer. Dustbin type 1, 35 litre capacity , cylindrical container, diameter 300mm, 1000 mm height from the ground</p>	No.	40			
Sub-total Carried to Summary						

BILL No. (1) CIVIL WORKS

Item N ^o	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	3. Bituminous Construction					
a.	Bituminous Prime Coat MC-70, application rate from 1.0 to 1.7 kg/m ²	Ton	5			
b.	Bituminous Wearing Course, 5 cm thick after Compaction (without po	Sq.M	10,000			
	4. Concrete, Steel and Structure (For Drainage Structures and All Retaining Walls)					
a.	Concrete Class (20) for pipe culvert encasement for culvert slope exceeding 5% and or cover less than 60cm.	Cu.M	20			
b.	Reinforced Concrete Pipe Culver, single and multible cells :					
	1. 3 ^ϕ 900	L.M	150			
	2. 600mm	L.M	65			
	3. 400mm as Utility Duct Crossing (provisional)	L.M	20			
	Sub-total Carried Forward					

BILL No. (1) CIVIL WORKS

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	5. Incedental Construcion					
a.	Grouted Stone Ditch Lining as per Drawings and Grouted Stone Protection for culverts inlet and outlet work.	Cu.M	560			
b.	Stone masonry retaning wall	Cu.M	420			
c.	Triangular Shape, Circular Signs, and Small Rectangular Signs (equal and not exceeding 1 sq.m area)	No.	23			
d.	Large Ground Mounted Signs (exceeding 1 sq.m area)	Sq.M	11			
e.	Thermoplastic Reflectorized Paint (TRP) as pavements Lines, white an (gaps not measured)	Sq.M	635			
f.	Refelective Alumium Marker with flat reflective strip, 10 x 10 cm	No.	270			
g.	Steel Guardrail including reflectors	L.M	350			
	Sub-total Carried to Summary					

Mechanic Works

Traditional Restaurant

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
1	<p>AIR CONDITIONING& VENTILATION</p> <p>variable refrigerant flow (VRF) system</p> <p>supply & install variable refrigerant flow (VRF) system as shown on drawing and specification composed of the followings :</p> <p>A- Out door unit with cooling capacity 7.2 ton and cooling input power 6.07 kw and heating capacity 7.7 ton and heating input power 6.21 ton , and the price include all electrical connection and copper pipes and condensate pipes and gas and all necessary work and equipment as shown on drawing and specification</p> <p>B- decorative heat pump split units with all connection and filter as shown on drawing and specification , with capacity as follows :</p> <p>1-cooling load 2 ton</p> <p>2-cooling load 1.5 ton</p>	NO	1			
	Total Bill Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
2	<p>kitchen hoods</p> <p>A-supply & install 1.82mX1.32m stainless steel 304 Kitchen induction hoods with double jacket and the price include all connection and all necessary work as shown in drawing and specification</p> <p>B- supply & install bifurcated kitchen hood exhaust fan 3200 M³/h and input power 400 w and the price include all necessary work and connections as shown on drawing and specification</p> <p>C- supply & install Galvanized steel sheet HVAC ducts, 0.7mm(gage 24) thickness for all ducts up through 30" width, and 1mm(gage 20) for ducts larger than 30". With 270-280 g/m2 galvanization, for exhaust air , with volume dampers at all branches, vanes, seams, angles, supports, hangers, splitters, expansion flexible connections, and all balancing works, etc... Ducts shall be fully sealed against infiltration.The price shall include the supports and hanging rods and angles, joints, seams and angles to ASHRAE recommendations & standards, vanes at all elbows and TEE's, splitters at all branches, straightening vanes at all individual short branches, flexible joints at building expansion joints and at connection to equipment, balancing works to get the required CFM within ±1.5% allowance., and the payment shall be based on the net dimensions of the horizontal and vertical duct runs, measured from the approved.</p>	NO	1			
		NO	1			
		Kg	100			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
3	D- supply & install gravity shutter 24"X18" and the price include all necessary work and equipment and fram and cut in wall or window	NO	1			
	Toilets Ventilation					
	A- supply & install Toilets axial exhaust fan with flow (750-1000 M ³ /h) and power (36-57 W) and the price incloude all necessary work and connections as shown on drawing and specification	NO	1			
	B-supply & install Galvanized steel sheet HVAC ducts, 0.7mm(gage 24) thickness for all ducts up through 30" width, and 1mm(gage 20) for ducts larger than 30". With 270-280 g/m2 galvanization, for exhaust air , with volume dampers at all branches, vanes, seams, angles, supports, hangers, splitters, expansion flexible connections, and all balancing works, etc... Ducts shall be fully sealed against infiltration.The price shall include the supports and hanging rods and angles, joints, seams and angles to ASHRAE recommendations & standards, vanes at all elbows and TEE's, splitters at all branches, straightening vanes at all individual short branches, flexible joints at building expansion joints and at connection to equipment, balancing works to get the required CFM within ±1.5% allowance., and the payment shall be based on the net dimensions of the horizontal and vertical duct runs, measured from the approved.	kg	100			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
	C- supply & install exhaust louver 20"X18" and the price include all necessary work and equipment and fram and cut in wall or window as shown on drawing and specification	NO	1			
	D-supply & install disc valves Ø100 mm and the price include all necessary work and equipment and fram and cut duct as shown on drawing and specification	NO	8			
4	door grill supply & install door grill with dimension 18"X8" and the price include all necessary work and equipment and fram and cut in door as shown on drawing and specification	NO	2			
ABOVE GROUND DRAINAGE						
5	UPVC pipe Supply and install Sewer pipes , push fit UPVC according to Bs. 4517 or Din 19531 , 19534 , including accessories of same quality, wall brackets , fittings and all related civil works and as per shown on drawing and specifications					
	a-Ø110mm	M	60			
	b- Ø80mm	M	24			
	c- Ø50mm	M	24			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
6	Clean out Supply and install Clean out point, floor mounted, and chrome and threaded cover size 20 x 20 cms of best quality as shown in drawings and specifications, and Engineer Instructions.	NO	3			
7	Floor drain Supply and install 4" uPVC Floor drain trap, with 3 inlet and 1 outlet, with two chrome plated covers of best quality, one perforated and other is closed size 20 x 20 cms. as shown in the drawings and specifications , and Engineer Instructions.	NO	6			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
8	<p>SANITARY Toilet Seat supply and install white vitreous china wall mounted European toilet seat as specified the price includes rubber adaptor for connection to the floor drain pipe, with rigid heavy duty seating frame and cover, with outlet to floor not less than 3.5" diameter, with close coupled vitreous china 9 liters cistern, with bell type flushing device, and low noise filling operation, and chrome plated flushing handle, connecting the cistern to the water supply by a chrome plated Tee and 1/2" angle valve suitable to produce not less than 0.25 l/s at the applied pressures, with the chrome plated copper flexible connection, the price includes 15x15cms vitreous china paper holder, hand shower with 90cms flexible hose suitable for the applied pressures and air admittance valve and pipe connection to valve .</p> <p>wall mounted European toilet seat</p>	NO	6			
9	<p>HAND BASEN supply and install white vitreous china hand basin, price includes 1.25" PVC bottle trap, with overflow connection, with chrome plated outlet, and a rubber cap with a chrome plated chain, with a self drained recess for soap, and rubber adaptor for connection to the wall 2" drain pipe. With soap holder, chrome mixer connected to the water supply capable of supplying not less than 0.15 l/s, and all accessories as specified</p> <p>mounted hand basin on marble counter, 58X42 cms size</p>	NO	6			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
10	<p>kitchen sink supply and install stainless steel kitchen double bowl sink as specified and shown on drawing for complete supply and installation and connection to the water supply and drainage system</p>	NO	2			
11	<p>Toilet Seat for handicap people supply & install white Vitreous china Hygienic type European toilet seat, for handicap people as specified the price includes rubber adaptor for connection to the floor drain pipe, with rigid heavy duty seating frame and cover, with outlet to floor not less than 3.5" diameter, with close coupled vitreous china 9 liters cistern, with bell type flushing device, and low noise filling operation, and chrome plated flushing handle, connecting the cistern to the water supply by a chrome plated Tee and 1/2" angle valve suitable to produce not less than 0.25 l/s at the applied pressures, with the chrome plated copper flexible connection, the price includes 15x15cms vitreous china paper holder, hand shower with 90cms flexible hose suitable for the applied pressures and air admittance valve and pipe connection to valve .</p>	NO	2			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
12	<p>The price includes two chrome plated rods or holders , covered with soft strong un-slippery plastic to allow handicaps to set down or rising or standing up, of length not less than 85 cms. could be adjusted for maneuvering vertically not less than 25 cms, easy to be bend up stream, and should be fixed on hollow guide rail , made of the same materials of holders, which are fixed to wall with all accessories on the right and left of WC.</p> <p>Hand basin for handicap people</p> <p>supply and install white vitreous China Hand basin, designed for handicap people mounted on specially designed standard concealed cast iron or steel brackets bolted to wall of well known type and best fabrication company , this hand basin should be equipped with hydraulic levered jack , that can allow to raise basin up or down 25 cms, according to height of user. price includes 1.25" PVC bottle trap, with overflow connection, with chrome plated outlet, and a rubber cap with a chrome plated chain, with a self drained recess for soap, and rubber adaptor for connection to the wall 2" drain pipe. With soap holder, Also equipped with two rods, adequate length ,not less than 25 cms, horizontal hollow stainless steel rails or heavy duty aluminum rods coated with soft layer of durable plastic materials,</p>	NO	2			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Total Brought Forward					
13	<p>The price shall includes rim mounted fully exposed, mixer, photo cell, 9 volts battery built in system control to open or close cold or hot water easily of best quality and well known making, chrome plated, capable of supplying not less than 0.15 l/s , with chrome plated flexible connection to the angle valves, with two 1/2" angle valves.</p> <p>The price also includes 70x50cms Al. frame, wall mounted mirror,4 mm thick of best quality first choice material ., and all accessories as specified</p> <p>WATER SERVICES</p> <p>WATER CABINET</p> <p>supply and install and test water cabinet for distribution cold water and hot water, the price include the metal box, brass collectors, valves , angle valves , vents, connections , elbows , and Pex pipe (cross linked polyethylene) for distribution water from collectors to the sanitary fixtures the price includes sleeves for Pex pipe , and connections to sanitary and any necessary work as shown on drawing and specification and complay with BS7291</p>					
	a- cabinet with 13 cold pipes and 5 hot pipes	NO	2			
	b- cabinet with 4 cold pipes and 4 hot pipes	NO	1			
	Total Bill Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
14	<p>PE pipe</p> <p>Supply and Installation of HDPE Pipes PE10 Including storage, transportation and handling of all pipes, fittings, valves and accessories (including all types of bends, adaptors, collars, tees, flexible couplings, hangers reducers, blind flanges) and all other materials required and civil work in accordance with the specification and comply with DIN 8074, DIN 8075, DIN 19533 and in accordance with the Drawings, the Technical specifications and set out in the preamble to the complete satisfaction of the Engineer.</p> <p>B- Ø32mm outside diameter C- Ø25mm outside diameter</p>	M M	30 25			
15	<p>water heater</p> <p>supply and install and testing 50LT electrical water heater including valves and connections with distribution system and any necessary work and equipment as shown on drawing and specification</p>	NO	3			
Sub-total Carried to Summary						

Heritage center

Item N ^o	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
1	<p>AIR CONDITIONING& VENTILATION</p> <p>SPLIT UNIT supply and install air condition (split unit) consists outdoor unit and indoor unit , the price includes also all electrical and mechanical connections, supports, pipes and gas and any necessary work and equipment .</p> <p>a) 1.5 TON cooling load b) 1 TON cooling load</p>	NO NO	2 1			
	Sub-total Carried to Summary					

Administration Building

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	AIR CONDITIONING& VENTILATION					
1	SPLIT UNIT supply and install air condition (split unit) consists outdoor unit and indoor unit , the price includes also all electrical and mechanical connections, supports, pipes and gas and any necessary work and equipment .					
	a) 1 TON cooling load	NO	1			
2	variable refrigerant flow (VRF) system supply & install variable refrigerant flow (VRF) system as shown on drawing and specification composed of the followings : A- Out door unit with cooling capacity 7.2 ton and cooling input power 6.07 kw and heating capacity 7.7 ton and heating input power 6.21 ton , and the price include all electrical connection and copper pipes and condensate pipes and gas and all necessary work and equipment as shown on drawing and specification B- decorative heat pump split units with all connection and filter as shown on drawing and specification , with capacity as follows : 1-1 TON cooling load					
		NO	1			
		NO	6			
	Sub-total Carried to Summary					

Adminstration Building

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	AIR CONDITIONING & VENTILATION					
1	<p>variable refrigerant flow (VRF) system supply & install variable refrigerant flow (VRF) system as shown on drawing and specification composed of the followings :</p> <p>A- Out door unit with cooling capacity 7.2 ton and cooling input power 6.07 kw and heating capacity 7.7 ton and heating input power 6.21 ton , and the price include all electrical connection and copper pipes and condensate pipes and gas and all necessary work and equipment as shown on drawing and specification</p> <p>B- decorative heat pump split units with all connection and filter as shown on drawing and specification , with capacity as follows :</p> <p>1-cooling load 1 ton</p>	NO	1			
		NO	6			
2	<p>kitchen and Café ventilation A-supply & install Kitchen axial fan 800-1150 M³/h with power (45-95 W) and the price include all connection and all necessary work as shown in drawing and specification</p> <p>B- supply & install exhaust register include all necessary work and equipment and fram and cut in false ceiling as shown in drawing and specification :</p> <p>1- exhaust register 30"X10" 2- exhaust register 16"X10"</p>	NO	1			
		NO	1			
		NO	1			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Total Brought Forward					
	C- supply & install Galvanized steel sheet HVAC ducts, 0.7mm(gage 24) thickness for all ducts up through 30" width, and 1mm(gage 20) for ducts larger than 30". With 270-280 g/m2 galvanization, for exhaust air , with volume dampers at all branches, vanes, seams, angles, supports, hangers, splitters, expansion flexible connections, and all balancing works, etc... Ducts shall be fully sealed against infiltration.The price shall include the supports and hanging rods and angles, joints, seams and angles to ASHRAE recommendations & standards, vanes at all elbows and TEE's, splitters at all branches, straightening vanes at all individual short branches, flexible joints at building expansion joints and at connection to equipment, balancing works to get the required CFM within ±1.5% allowance., and the payment shall be based on the net dimensions of the horizontal and vertical duct runs, measured from the approved.					
	D- supply & install gravity shatter 22"X22" and all necessary work and equipment and fram and cut in wall as shown in drawing and specification	Kg	60			
3	Toilets Ventilation A- supply & install vertical discharge Toilets centerfugal roof fan with 1100 M³/h and power 100 W and the price include all necessary work and connections as shown on drawing and specification	NO	1			
		NO	1			
	Total Bill Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Total Brought Forward					
4	B-supply & install Galvanized steel sheet HVAC ducts, 0.7mm(gage 24) thickness for all ducts up through 30" width, and 1mm(gage 20) for ducts larger than 30". With 270-280 g/m2 galvanization, for exhaust air , with volume dampers at all branches, vanes, seams, angles, supports, hangers, splitters, expansion flexible connections, and all balancing works, etc... Ducts shall be fully sealed against infiltration.The price shall include the supports and hanging rods and angles, joints, seams and angles to ASHRAE recommendations & standards, vanes at all elbows and TEE's, splitters at all branches, straightening vanes at all individual short branches, flexible joints at building expansion joints and at connection to equipment, balancing works to get the required CFM within ±1.5% allowance., and the payment shall be based on the net dimensions of the horizontal and vertical duct runs, measured from the approved.	kg	150			
	C- supply & install return grill 16"X10" and the price include all necessary work and equipment and fram and cut in wall as shown in drawing and specification	NO	1			
	D-supply & install disc valves Ø100 mm and the price include all necessary work and equipment and fram and cut in wall as shown in drawing and specification	NO	8			
	door grill supply & install door grill 18"X8" and all necessary work and equipment and fram and cut in door as shown in drawing and specification	NO	3			
	Total Bill Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
	ABOVE GROUND DRAINAGE					
5	UPVC pipe Supply and install Sewer pipes , push fit UPVC according to Bs. 4517 or Din 19531 , 19534 , including accessories of same quality, wall brackets , fittings and all related civil works and as per shown on drawing and specifications					
	a-Ø110mm	M	70			
	b- Ø80mm	M	20			
	c- Ø50mm	M	40			
6	Clean out Supply and install Clean out point, floor mounted, and chrome and threaded cover size 20 x 20 cms of best quality as shown in drawings and specifications, and Engineer Instructions.	NO	2			
7	Floor drain Supply and install 4" uPVC Floor drain trap, with 3 inlet and 1 outlet, with two chrome plated covers of best quality, one perforated and other is closed size 20 x 20 cms. as shown in the drawings and specifications , and Engineer Instructions.	NO	5			
8	P-trap supply & install P- trap, Ø110 mm deep seal as shown in drawings and specifications	NO	1			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
8	<p>SANITARY Toilet Seat supply and install white vitreous china wall mounted European toilet seat as specified the price includes rubber adaptor for connection to the floor drain pipe, with rigid heavy duty seating frame and cover, with outlet to floor not less than 3.5" diameter, with close coupled vitreous china 9 liters cistern, with bell type flushing device, and low noise filling operation, and chrome plated flushing handle, connecting the cistern to the water supply by a chrome plated Tee and 1/2" angle valve suitable to produce not less than 0.25 l/s at the applied pressures, with the chrome plated copper flexible connection, the price includes 15x15cms vitreous china paper holder, hand shower with 90cms flexible hose suitable for the applied pressures and air admittance valve and pipe connection to valve</p>					
9	<p>wall mounted European toilet seat Hand basin supply and install white vitreous china hand basin, price includes 1.25" PVC bottle trap, with overflow connection, with chrome plated outlet, and a rubber cap with a chrome plated chain, with a self drained recess for soap, and rubber adaptor for connection to the wall 2" drain pipe. With soap holder, chrome mixer connected to the water supply capable of supplying not less than 0.15 l/s, and all accessories as specified</p>	NO	8			
10	<p>kitchen sink supply and install stainless steel kitchen double bowl sink as specified and shown on drawing for complete supply and installation and connection to the water supply and drainage system</p>	NO	10			
		NO	2			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
	WATER SERVICES					
11	WATER CABINET supply and install and test water cabinet for distribution cold water and hot water, the price include the metal box, brass collectors, valves , angle valves , vents, connections , elbows , and Pex pipe (cross linked polyethylene) for distribution water from collectors to the sanitary fixtures the price includes sleeves for Pex pipe , and connections to sanitary and any necessary work as shown on drawing and specification and complay with BS7291					
	a- cabinet with 13 cold pipes and 5 hot pipes	NO	2			
	b- cabinet with 5 cold pipes and 5 hot pipes	NO	1			
	c- cabinet with 1 cold pipes and 1 hot pipes	NO	1			
12	PE pipe Supply and Installation of HDPE Pipes PE10 Including storage, transportation and handling of all pipes, fittings, valves and accessories (including all types of bends, adaptors, collars, tees, flexible couplings, hangers reducers, blind flanges) and all other materials required and civil work in accordance with the specification and complay with DIN 8074, DIN 8075 ,DIN 19533 and in accordance with the Drawings, the Technical specifications and set out in the preamble to the complete satisfaction of the Engineer.					
	A- 50 mm outside diameter	M	12			
	B- 40 mm outside diameter	M	12			
	A- 32 mm outside diameter	M	6			
	B- 25 mm outside diameter	M	40			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
13	water heater supply and install and testing 80LT electrical water heater including valves and connections with distribution system and any necessary work and equipment as shown on drawing and specification	NO	2			
14	ablution mixers supply and instal long nick ablution mixers and the price include all necessary work and equipment as specified and drawing	NO	5			
Sub-total Carried to Summary						

Culture and Education Center

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
1	AIR CONDITIONING& VENTILATION					
	variable refrigerant flow (VRF) system supply & install variable refrigerant flow (VRF) system as shown on drawing and specification composed of the followings :					
	A- Out door unit with cooling capacity 12.85 ton and cooling input power 14.05 kw and heating capacity 14.28 ton and heating input power 12.6 ton , and the price include all electrical connection and copper pipes and condensate pipes and gas and all necessary work and equipment as shown on drawing and specification	NO	1			
	B- decorative heat pump split units with all connection and filter as shown on drawing and specification , with capacity as follows :					
	1-cooling load 2 ton	NO	3			
2-cooling load 1.5 ton	NO	3				
3-cooling load 1 ton	NO	2				
2	kitchen hoods					
	A-supply & install 1.18mX0.8m stainless steel 304 Kitchen hoods with and the price include all connection and all necessary work as shown in drawing and specification	NO	1			
	B- supply & install in line centrifugal fan 220-340 M ³ /h and input power 60-85 w and the price include all necessary work and connections as shown on drawing and specification	NO	1			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Total Brought Forward					
3	C- supply & install Galvanized steel sheet HVAC ducts, 0.7mm(gage 24) thickness for all ducts up through 30" width, and 1mm(gage 20) for ducts larger than 30". With 270-280 g/m2 galvanization, for exhaust air , with volume dampers at all branches, vanes, seams, angles, supports, hangers, splitters, expansion flexible connections, and all balancing works, etc... Ducts shall be fully sealed against infiltration.The price shall include the supports and hanging rods and angles, joints, seams and angles to ASHRAE recommendations & standards, vanes at all elbows and TEE's, splitters at all branches, straightening vanes at all individual short branches, flexible joints at building expansion joints and at connection to equipment, balancing works to get the required CFM within ±1.5% allowance., and the payment shall be based on the net dimensions of the horizontal and vertical duct runs, measured from the approved.					
	D- supply & install PVC pipe Ø150 mm and the price include support and tee and all necessary work as shown on drawing	Kg	15			
	E-supply & install fresh air fan 300 M³/h and the price include box and canvas and aluminum filter and all necessary work and connections as shown on drawing and specification	M	20			
	A-supply & install axial fan 1180 M³/h with power 70 W and the price include all connection and all necessary work as shown in drawing and specification	NO	1			
	Total Bill Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
	<p>B- C- supply & install Galvanized steel sheet HVAC ducts, 0.7mm(gage 24) thickness for all ducts up through 30" width, and 1mm(gage 20) for ducts larger than 30". With 270-280 g/m2 galvanization, for exhaust air , with volume dampers at all branches, vanes, seams, angles, supports, hangers, splitters, expansion flexible connections, and all balancing works, etc... Ducts shall be fully sealed against infiltration.The price shall include the supports and hanging rods and angles, joints, seams and angles to ASHRAE recommendations & standards, vanes at all elbows and TEE's, splitters at all branches, straightening vanes at all individual short branches, flexible joints at building expansion joints and at connection to equipment, balancing works to get the required CFM within ±1.5% allowance., and the payment shall be based on the net dimensions of the horizontal and vertical duct runs, measured from the approved.</p> <p>C- supply & install exhaust register 30"X12" and the price include all necessary work and equipment and fram and cut in wall as shown in drawing and specification</p> <p>D- supply & install gravity shatter 24"X24" and the price include all necessary work and equipment and fram and cut in wall as shown in drawing and specification</p>	Kg	110			
	Total Bill Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
4	<p>Toilets Ventilation</p> <p>A- supply & install Toilets centrifugal roof fan with flow (1100 M³/h) and power (100 W) and the price include all necessary work and connections as shown on drawing and specification</p> <p>B-supply & install Galvanized steel sheet HVAC ducts, 0.7mm(gage 24) thickness for all ducts up through 30" width, and 1mm(gage 20) for ducts larger than 30". With 270-280 g/m2 galvanization, for exhaust air , with volume dampers at all branches, vanes, seams, angles, supports, hangers, splitters, expansion flexible connections, and all balancing works, etc... Ducts shall be fully sealed against infiltration. The price shall include the supports and hanging rods and angles, joints, seams and angles to ASHRAE recommendations & standards, vanes at all elbows and TEE's, splitters at all branches, straightening vanes at all individual short branches, flexible joints at building expansion joints and at connection to equipment, balancing works to get the required CFM within ±1.5% allowance., and the payment shall be based on the net dimensions of the horizontal and vertical duct runs, measured from the approved.</p> <p>C- supply & install disc valves Ø100 mm and the price include all necessary work and equipment and fram and cut in false ceiling as shown in drawing and specification</p>	NO	1			
		kg	150			
		NO	12			
4	<p>door grill</p> <p>supply & install 20"X12" door grill and the price include all necessary work and equipment and fram and cut in doors ceiling as shown in drawing and specification</p>	NO	2			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
	ABOVE GROUND DRAINAGE					
5	UPVC pipe Supply and install Sewer pipes , push fit UPVC according to Bs. 4517 or Din 19531 , 19534 , including accessories of same quality, wall brackets , fittings and all related civil works and as per shown on drawing and specifications					
	a-Ø110mm	M	100			
	b- Ø80mm	M	34			
	c- Ø50mm	M	60			
6	Clean out Supply and install Clean out point, floor mounted, and chrome and threaded cover size 20 x 20 cms of best quality as shown in drawings and specifications, and Engineer Instructions					
		NO	5			
7	Floor drain Supply and install 4" uPVC Floor drain trap, with 3 inlet and 1 outlet, with two chrome plated covers of best quality, one perforated and other is closed size 20 x 20 cms. as shown in the drawings and specifications , and Engineer Instructions.					
		NO	8			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
8	<p>SANITARY</p> <p>Toilet Seat supply and install white vitreous china wall mounted European toilet seat as specified the price includes rubber adaptor for connection to the floor drain pipe, with rigid heavy duty seating frame and cover, with outlet to floor not less than 3.5" diameter, with close coupled vitreous china 9 liters cistern, with bell type flushing device, and low noise filling operation, and chrome plated flushing handle, connecting the cistern to the water supply by a chrome plated Tee and 1/2" angle valve suitable to produce not less than 0.25 l/s at the applied pressures, with the chrome plated copper flexible connection, the price includes 15x15cms vitreous china paper holder, hand shower with 90cms flexible hose suitable for the applied pressures and air admittance valve and pipe connection to valve</p>					
9	<p>wall mounted European toilet seat</p> <p>Hand basin supply and install white vitreous china hand basin, price includes 1.25" PVC bottle trap, with overflow connection, with chrome plated outlet, and a rubber cap with a chrome plated chain, with a self drained recess for soap, and rubber adaptor for connection to the wall 2" drain pipe. With soap holder, chrome mixer connected to the water supply capable of supplying not less than 0.15 l/s, and all accessories as specified</p>	NO	10			
10	<p>mounted hand basin on marble counter, 58X42 cms size</p> <p>kitchen sink supply and install stainless steel kitchen sink as specified and shown on drawing for complete supply and installation and connection to the water supply and drainage system</p>	NO	16			
		NO	2			

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
11	<p>Toilet Seat for handicap people supply & install white Vitreous china Hygienic type European toilet seat, for handicap people as specified the price includes rubber adaptor for connection to the floor drain pipe, with rigid heavy duty seating frame and cover, with outlet to floor not less than 3.5" diameter, with close coupled vitreous china 9 liters cistern, with bell type flushing device, and low noise filling operation, and chrome plated flushing handle, connecting the cistern to the water supply by a chrome plated Tee and 1/2" angle valve suitable to produce not less than 0.25 l/s at the applied pressures, with the chrome plated copper flexible connection, the price includes 15x15cms vitreous china paper holder, hand shower with 90cms flexible hose suitable for the applied pressures and air admittance valve and pipe connection to valve . The price includes two chrome plated rods or holders , covered with soft strong un-slippery plastic to allow handicaps to set down or rising or standing up, of length not less than 85 cms. could be adjusted for maneuvering vertically not less than 25 cms, easy to be bend up stream, and should be fixed on hollow guide rail , made of the same materials of holders, which are fixed to wall with all accessories on the right and left of WC.</p>	NO	2			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
12	<p>Hand basin for handicap people supply and install white vitreous China Hand basin, designed for handicap people mounted on specially designed standard concealed cast iron or steel brackets bolted to wall of well known type and best fabrication company , this hand basin should be equipped with hydraulic levered jack , that can allow to raise basin up or down 25 cms, according to height of user. price includes 1.25" PVC bottle trap, with overflow connection, with chrome plated outlet, and a rubber cap with a chrome plated chain, with a self drained recess for soap, and rubber adaptor for connection to the wall 2" drain pipe. With soap holder, Also equipped with two rods, adequate length ,not less than 25 cms, horizontal hollow stainless steel rails or heavy duty aluminum rods coated with soft layer of durable plastic materials, The price shall includes rim mounted fully exposed, mixer, photo cell, 9 volts battery built in system control to open or close cold or hot water easily of best quality and well known making, chrome plated, capable of supplying not less than 0.15 l/s , with chrome plated flexible connection to the angle valves, with two 1/2" angle valves. The price also includes 70x50cms Al. frame, wall mounted mirror,4 mm thick of best quality first choice material ., and all accessories as specified</p>	NO	2			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
	WATER SERVICES					
13	WATER CABINET supply and install and test water cabinet for distribution cold water and hot water, the price include the metal box, brass collectors, valves , angle valves , vents, connections , elbows , and Pex pipe (cross linked polyethylene) for distribution water from collectors to the sanitary fixtures the price includes sleeves for Pex pipe , and connections to sanitary and any necessary work as shown on drawing and specification and complay with BS7291					
	a- cabinet with 11 cold pipes and 5 hot pipes	NO	2			
	b- cabinet with 10 cold pipes and 4 hot pipes	NO	2			
	c- cabinet with 2 cold pipes and 2 hot pipes	NO	1			
14	PE pipe Supply and Installation of HDPE Pipes PE10 Including storage, transportation and handling of all pipes, fittings, valves and accessories (including all types of bends, adaptors, collars, tees, flexible couplings, hangers reducers, blind flanges) and all other materials required and civil work in accordance with the specification and complay with DIN 8074, DIN 8075 ,DIN 19533 and in accordance with the Drawings, the Technical specifications and set out in the preamble to the complete satisfaction of the Engineer.					
	A- 50 mm outside diameter	M	16			
	B- 40 mm outside diameter	M	30			
	C- 32 mm outside diameter	M	32			
	D- 25 mm outside diameter	M	30			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
15	<p>water heater supply and install and testing electrical water heater including valves and connections with distribution system and any necessary work and equipment as shown on drawing and specification</p> <p>A) 50 LT capacity B) 80 LT capacity</p>	NO NO	1 1			
Sub-total Carried to Summary						

Interpretation center

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
1	AIR CONDITIONING& VENTILATION					
	variable refrigerant flow (VRF) system supply & install variable refrigerant flow (VRF) system as shown on drawing and specification composed of the followings :					
	A- Out door unit with cooling capacity 9.57 ton and cooling input power 9.88 kw and heating capacity 10.7 ton and heating input power 9.1 ton , and the price include all electrical connection and copper pipes and condensate pipes and gas and all necessary work and equipment as shown on drawing and specification	NO	1			
	B- decorative heat pump split units with all connection and filter as shown on drawing and specification , with capacity as follows :					
	1-cooling load 2 ton	NO	2			
2-cooling load 1.5 ton	NO	1				
3-cooling load 1 ton	NO	4				
2	Café & kitchen Ventilation					
	A-supply & install café and kitchen fresh air fan 1100 M³/h with power 70 W and the price include box and canvas and aluminum filter and all connection and all necessary work as shown in drawing and specification	NO	1			
	B- supply & install café and kitchen centrifugal roof exhaust fan 1100 M³/h with power 100 W and the price include all necessary work and connections as shown on drawing and specification	NO	1			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Total Brought Forward					
	C- supply & install Galvanized steel sheet HVAC ducts, 0.7mm(gage 24) thickness for all ducts up through 30" width, and 1mm(gage 20) for ducts larger than 30". With 270-280 g/m2 galvanization, for exhaust air , with volume dampers at all branches, vanes, seams, angles, supports, hangers, splitters, expansion flexible connections, and all balancing works, etc... Ducts shall be fully sealed against infiltration.The price shall include the supports and hanging rods and angles, joints, seams and angles to ASHRAE recommendations & standards, vanes at all elbows and TEE's, splitters at all branches, straightening vanes at all individual short branches, flexible joints at building expansion joints and at connection to equipment, balancing works to get the required CFM within ±1.5% allowance., and the payment shall be based on the net dimensions of the horizontal and vertical duct runs, measured from the approved.					
		Kg	160			
	D- supply & install supply register 18"X18" and the price include all necessary work and equipment and fram and cut in false ceiling and wall as shown in drawing and specification	NO	1			
	E- supply & install supply register 16"X10" and the price include all necessary work and equipment and fram and cut in false ceiling as shown in drawing and specification	NO	1			
	F- supply & install exhaust register 18"X18" and the price include all necessary work and equipment and fram and cut in false ceiling as shown in drawing and specification	NO	1			
	G- supply & install exhaust register 16"X10" and the price include all necessary work and equipment and fram and cut in false ceiling as shown in drawing and specification	NO	1			
	Total Bill Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
3	<p>Toilets Ventilation</p> <p>A- supply & install Toilets centrifugal roof fan with flow (1100 M³/h) and power (100 W) and the price include all necessary work and connections as shown on drawing and specification</p> <p>B-supply & install Galvanized steel sheet HVAC ducts, 0.7mm(gage 24) thickness for all ducts up through 30" width, and 1mm(gage 20) for ducts larger than 30". With 270-280 g/m2 galvanization, for exhaust air , with volume dampers at all branches, vanes, seams, angles, supports, hangers, splitters, expansion flexible connections, and all balancing works, etc... Ducts shall be fully sealed against infiltration.The price shall include the supports and hanging rods and angles, joints, seams and angles to ASHRAE recommendations & standards, vanes at all elbows and TEE's, splitters at all branches, straightening vanes at all individual short branches, flexible joints at building expansion joints and at connection to equipment, balancing works to get the required CFM within ±1.5% allowance., and the payment shall be based on the net dimensions of the horizontal and vertical duct runs, measured from the approved.</p> <p>C-supply & install disc valves Ø100 mm and the price include all necessary work and equipment and fram and cut in false ceiling as shown in drawing and specification</p>	NO	1			
		kg	80			
		NO	8			
4	<p>door grill</p> <p>supply & install 20"X10" door grill and the price include all necessary work and equipment and fram and cut in doors ceiling as shown in drawing and specification</p>	NO	2			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
	ABOVE GROUND DRAINAGE					
5	UPVC pipe Supply and install Sewer pipes , push fit UPVC according to Bs. 4517 or Din 19531 , 19534 , including accessories of same quality, wall brackets , fittings and all related civil works and as per shown on drawing and specifications					
	a-Ø110mm	M	60			
	b- Ø80mm	M	28			
	c- Ø50mm	M	36			
6	Clean out Supply and install Clean out point, floor mounted, and chrome and threaded cover size 20 x 20 cms of best quality as shown in drawings and specifications, and Engineer Instructions					
		NO	3			
7	Floor drain Supply and install 4" uPVC Floor drain trap, with 3 inlet and 1 outlet, with two chrome plated covers of best quality, one perforated and other is closed size 20 x 20 cms. as shown in the drawings and specifications , and Engineer Instructions.					
		NO	6			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
	SANITARY					
8	<p>Toilet Seat supply and install white vitreous china wall mounted European toilet seat as specified the price includes rubber adaptor for connection to the floor drain pipe, with rigid heavy duty seating frame and cover, with outlet to floor not less than 3.5" diameter, with close coupled vitreous china 9 liters cistern, with bell type flushing device, and low noise filling operation, and chrome plated flushing handle, connecting the cistern to the water supply by a chrome plated Tee and 1/2" angle valve suitable to produce not less than 0.25 l/s at the applied pressures, with the chrome plated copper flexible connection, the price includes 15x15cms vitreous china paper holder, hand shower with 90cms flexible hose suitable for the applied pressures and air admittance valve and pipe connection to valve</p> <p>wall mounted European toilet seat</p>	NO	6			
9	<p>Hand basin supply and install white vitreous china hand basin, price includes 1.25" PVC bottle trap, with overflow connection, with chrome plated outlet, and a rubber cap with a chrome plated chain, with a self drained recess for soap, and rubber adaptor for connection to the wall 2" drain pipe. With soap holder, chrome mixer connected to the water supply capable of supplying not less than 0.15 l/s, and all accessories as specified</p> <p>mounted hand basin on marble counter, 58X42 cms size</p>	NO	13			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
10	kitchen sink supply and install stainless steel kitchen sink as specified and shown on drawing for complete supply and installation and connection to the water supply and drainage system	NO	2			
11	WATER SERVICES WATER CABINET supply and install and test water cabinet for distribution cold water and hot water, the price include the metal box, brass collectors, valves , angle valves , vents, connections , elbows , and Pex pipe (cross linked polyethylene) for distribution water from collectors to the sanitary fixtures the price includes sleeves for Pex pipe , and connections to sanitary and any necessary work as shown on drawing and specification and comply with BS7291					
	a- cabinet with 12 cold pipes and 6 hot pipes	NO	2			
	b- cabinet with 2 cold pipes and 2 hot pipes	NO	1			
12	PE pipe Supply and Installation of HDPE Pipes PE10 Including storage, transportation and handling of all pipes, fittings, valves and accessories (including all types of bends, adaptors, collars, tees, flexible couplings, hangers reducers, blind flanges) and all other materials required and civil work in accordance with the specification and comply with DIN 8074, DIN 8075 ,DIN 19533 and in accordance with the Drawings, the Technical specifications and set out in the preamble to the complete satisfaction of the Engineer.					
	A- 40 mm outside diameter	M	10			
	B- 32 mm outside diameter	M	16			
	C- 25 mm outside diameter	M	34			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
13	<p>water heater supply and install and testing electrical water heater including valves and connections with distribution system and any necessary work and equipment as shown on drawing and specification</p> <p>A) 50 LT capacity B) 80 LT capacity</p>	NO NO	1 1			
Sub-total Carried to Summary						

Irrigation Network

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
1	<p>PE PIPE Supply and Installation of HDPE Pipes PE10 Including supply, storage, transportation and handling of all pipes, fittings and chambers and accessories (including all types of bends, adaptors, collars, tees, flexible couplings, reducers, valves , ...etc.), and all other materials required; excavation at any depth in any kind of asphalt, soil and rock , trial pits for identifying existing services and concerned water pipelines as required, repair of any damage of any service at full satisfaction of relevant Service Authority, removal and transport at any distance of excess or unsuitable material, cleaning of sites; laying of pipes including all jointing any ancillary necessary for proper laying and jointing of pipes; supply from any distance placing and compaction of bedding, (sand fill) backfilling and surface reinstatement, including warning tape with ferrous strip in accordance with the specification and comply with DIN 8074, DIN 8075 ,DIN 19533 ; testing; flushing and disinfection; in accordance with the Drawings, the Technical specifications complete satisfaction of the Engineer.</p>					
	<p>a- Ø2"mm inside diameter b- Ø1 ½"mm inside diameter c- Ø1 ¼"mm inside diameter d- Ø1 "mm inside diameter e- Ø½ "mm inside diameter f-Ø2 "mm inside diameter for over flow pipe</p>	<p>M M M M M M</p>	<p>570 290 710 200 630 250</p>			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
2	irrigation kites A-Supply, install and test control zone kites as shown on drawing and Schedule and the price include 1" solenoid valve and two 1" ball valve and 1" basket filter and 1" pressure regulator and any component and connection to complete the works B-Supply, install and test control zone kite as shown on drawing and Schedule and the price include 1 ½ solenoid valve and 1 ½ ball valve and two number 1" basket filter and two number 1" pressure regulator and two number 1" ball valve any component and connection to complete the works	NO	4			
		NO	1			
3	Controller Supply, install, test and commission modular controller, with 1 station, the controller shall have three separate and independent programs which can have differetn strat times, station timing and watering days, and shall have a 365 days calender. The controller shall have removable battery and programable front panel. rate shall include all electrical connections, wiring, conduits, cable isolating switch between the solenoid valves and the controller, draw boxes, PVC sleeves all as shwon on drawings and details and specifications	L.S	1			
4	BUBBLER supply and install tree bubbler (50 L/H) and the price include all necessary work to complete work as shown on drawing and specifications	NO	250			
Sub-total Carried to Summary						

Sewer Network

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
1	<p>UPVC PIPE Supply and install Sewer pipes , push fit UPVC according to Bs. 4517 or Din 19531 , 19534 including accessories of same quality , wall brackets ,excavation at any depth in any kind of soil and rock , trial pits for identifying existing services and repair of any damage of any service at full satisfaction of relevant Service Authority, removal and transport at any distance of excess or unsuitable material, cleaning of sites , laying of pipes including all jointing any ancillary necessary for proper laying and jointing of pipes; supply from any distance placing and compaction of bedding, (sand fill) backfilling and surface reinstatement, including and all related civil works, and as per shown on drawing and specifications and as for the following</p> <p>a- Ø200mm</p>	M	266			
2	<p>SEWAGE MANHOLE construction of manholes for sewer lines size 90cm X 90xm, withn different depths, of fair face class 30 concrete using cement type 5, price includes excavation, and blinding concrete class 20, price also includes galvanised cast iron steps , C.I heavy duty manhole cover and frame according to drawings and specification</p>	NO	25			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Total Brought Forward					
3	<p>SEWAGE TREATMENT PACKAGE</p> <p>A- Supply and install, testing and commissioning of below ground sewage Treatment Plant (STP) packaged system for B5 + B6 of capacity 60 m3/day, the STP to comprise of three individual tanks of Primary Settlement tank (PST), Biological Treatment tanks (Biozones) and Final Settlement tank (FST) complete with connecting pipes, for blowers, Blower housing (from GRP.), blowers, control panels with visual alarm and vent pipes with deodorizing carbon filters (see specs). The STP effluent of high effluent quality suitable for irrigation of Biochemical Oxygen Demand (BOD) 30 mg/l or lower, and below ground irrigation tank of 6m3/day capacity with submersible pump complete with floats, butterfly and check valves Including all excavation and back fill and all equipment and connections and work according to drawings and specification</p> <p>B-Supply and install, testing and commissioning of below ground sewage Treatment Plant (STP) packaged system for B2 + B7 of capacity 25 m3/day, the STP to comprise of one tank shall of Primary Settlement tank (PST), Biological Treatment tanks (Biozones) and Final Settlement tank (FST) complete with connecting pipes, for blowers, Blower housing (from GRP.), blowers, control panels with visual alarm and vent pipes with deodorizing carbon filters (see specs). The STP effluent of high effluent quality suitable for irrigation of Biochemical Oxygen Demand (BOD) 30 mg/l or lower, and below ground irrigation tank of 3m3/day capacity with submersible pump complete with floats, butterfly and check valves Including all excavation and back fill and all equipment and connections and work according to drawings and specification</p>	L.S	1			
		L.S	2			
	Total Bill Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
	<p>C- Supply and install, testing and commissioning of below ground sewage Treatment Plant (STP) packaged system for site public toilets capacity 3 m3/day, the STP to comprise of one tank shall of Primary Settlement tank (PST), Biological Treatment tanks (Biozones) and Final Settlement tank (FST) complete with blowers, control panels with visual alarm and vent pipes with deodorizing carbon filters (see specs). The STP effluent of high effluent quality suitable for irrigation of Biochemical Oxygen Demand (BOD) 30 mg/l or lower, and below ground irrigation tank of 3m3/day capacity with submersible pump complete with floats, butterfly and check valves Including all excavation and back fill and all equipment and connections and work according to drawings and specification</p>	L.S	2			
Sub-total Carried to Summary						

Water Network

Item N ^o	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
1	<p>PE PIPE Supply and Installation of HDPE Pipes PE16 Including supply, storage, transportation and handling of all pipes, valves , surface box fittings and chambers and accessories (including all types of bends, adaptors, collars, tees, flexible couplings, reducers, valves , ...etc.), and all other materials required; excavation at any depth in any kind of asphalt, soil and rock , trial pits for identifying existing services and concerned water pipelines as required, repair of any damage of any service at full satisfaction of relevant Service Authority, removal and transport at any distance of excess or unsuitable material, cleaning of sites; laying of pipes including all jointing any ancillary necessary for proper laying and jointing of pipes; supply from any distance placing and compaction of bedding, (sand fill) backfilling and surface reinstatement, including warning tape with ferrous strip in accordance with the specification and comply with DIN 8074, DIN 8075 ,DIN 19533 ; testing; flushing and disinfection; in accordance with the Drawings, the Technical specifications complete satisfaction of the Engineer.</p> <p>a- Ø125mm outside diameter b-Ø65mm outside diameter c-Ø32mm outside diameter</p>	M M M	635 216 20			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
2	<p>Air Release Valves (PN16) Supply, storage, Installation on pipelines, testing and commissioning of Air Valves ,including the valves, valve's chamber, isolation valves, Tees, bends, wall pipes with paddle flanges, spool pieces, other fittings and accessories necessary to complete the work properly in accordance to specification, the drawings and preamble subject to the approval of the Engineer.</p> <p>a. DN 40 single orifice air valve on HDPE lines of DN125mm</p>	NO	1			
3	<p>Washouts with (PN16) valves Supply, storage, Installation on pipelines, testing and commissioning of washout, including valves on main line and on the washing branch, valve's chamber, flooding manhole type C1, dismantling joint, adaptors, wall pipes with paddle flanges, spool pieces, bends, Tees...etc. the work shall also include accessories necessary for proper installation. in accordance to specification, drawings and preamble subject to the approval of the Engineer.</p> <p>DN 50mm</p>	NO	1			
Sub-total Carried to Summary						

Toilets in Site

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	ABOVE GROUND DRAINAGE					
1	UPVC pipe Supply and install Sewer pipes , push fit UPVC according to Bs. 4517 or Din 19531 , 19534 , including accessories of same quality, wall brackets , fittings and all related civil works and as per shown on drawing and specifications					
	a-Ø110mm	M	38			
	b- Ø80mm	M	18			
	c- Ø50mm	M	26			
2	Clean out Supply and install Clean out point, floor mounted, and chrome and threaded cover size 20 x 20 cms of best quality as shown in drawings and specifications, and Engineer Instructions					
		NO	8			
3	Floor drain Supply and install 4" uPVC Floor drain trap, with 3 inlet and 1 outlet, with two chrome plated covers of best quality, one perforated and other is closed size 20 x 20 cms. as shown in the drawings and specifications , and Engineer Instructions.					
		NO	10			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
4	<p>SANITARY Toilet Seat supply and install white vitreous china wall mounted European toilet seat as specified the price includes rubber adaptor for connection to the floor drain pipe, with rigid heavy duty seating frame and cover, with outlet to floor not less than 3.5" diameter, with close coupled vitreous china 9 liters cistern, with bell type flushing device, and low noise filling operation, and chrome plated flushing handle, connecting the cistern to the water supply by a chrome plated Tee and 1/2" angle valve suitable to produce not less than 0.25 l/s at the applied pressures, with the chrome plated copper flexible connection, the price includes 15x15cms vitreous china paper holder, hand shower with 90cms flexible hose suitable for the applied pressures</p>	NO	6			
5	<p>Hand basin supply and install white vitreous china hand basin, price includes 1.25" PVC bottle trap, with overflow connection, with chrome plated outlet, and a rubber cap with a chrome plated chain, with a self drained recess for soap, and rubber adaptor for connection to the wall 2" drain pipe. With soap holder, chrome mixer connected to the water supply capable of supplying not less than 0.15 l/s, and all accessories as specified</p> <p>wall mounted hand basin, with pedestal type, 45x36 cms size</p>	NO	10			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
	WATER SERVICES					
6	WATER CABINET supply and install and test water cabinet for distribution cold water and hot water, the price include the metal box, brass collectors, valves , angle valves , vents, connections , elbows , and Pex pipe (cross linked polyethylene) for distribution water from collectors to the sanitary fixtures the price includes sleeves for Pex pipe , and connections to sanitary and any necessary work as shown on drawing and specification and complay with BS7291 :					
	a- cabinet with 8 cold pipes	NO	1			
	B- cabinet with 7 cold pipes	NO	2			
7	PE pipe Supply and Installation of HDPE Pipes PE10 Including storage, transportation and handling of all pipes, fittings, valves and accessories (including all types of bends, adaptors, collars, tees, flexible couplings, hangers reducers, blind flanges) and all other materials required and civil work in accordance with the specification and complay with DIN 8074, DIN 8075 ,DIN 19533 and in accordance with the Drawings, the Technical specifications and set out in the preamble to the complete satisfaction of the Engineer.					
	a- 25 mm inside diameter	M	26			
Total Bill Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Total Brought Forward						
	<p>Toilets Ventilation</p> <p>A- supply & install exhust fan 85 M³/h and input power 15 w and the price include all necessary work and connections as shown on drawing and specification</p> <p>B- supply & install 12"X6" door grill and the price include all necessary work and equipment and fram and cut in doors ceiling as shown in drawing and specification</p>	NO	6			
	Sub-total Carried to Summary					

Water Tank

Item N ^o	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
1	POTABLE WATER PUMPS supply and install potable water submersible pump 6 M ³ /h at 58m head with power 1.7 Kw and the price include PE pipe from pump to main pipe and check valve and butterfly valve and elbows and any electrical connections and control panel and any necessary work as shown on drawing and specifications	NO	3			
2	FEEDING LINE supply and install feeding line Ø100mm HDPE from Municipality line to water tank and the price include butterfly valve and ordinary flow meter and float valve and any necessary work as shown on drawing and specifications	NO	1			
3	PRESSURE VESSEL supply and install 360L pressure vessel and the price include PE100 pipe from pressure vessel to discharge pipe and pressure switch and tee and elbow and valve and any necessary work as shown on drawing and specifications	NO	1			
Sub-total Carried to Summary						

Electrical Works

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	<p><u>Administration Annex.</u></p> <p>Introduction Items have to include , supply , install , test commissioning and handing over , guarantee for all items below , items shall include all accessories , parts , needed without any extra costs unless otherwise indicated , , all items have to comply with specs , drawings , and supervising engineer opinion's.</p> <p>Internal Electrical Works</p> <p>3.1 Electrical Panels supply , install , test commissioning and handing over , guarantee Electrical distribution panels according to attached specs , drawings , and supervising engineer as follows :</p> <p>a. Flush Mounted Electrical Distribution panels , with not less than 2 mm thickness, electrostatically coated , IP55 with proper busbar , maincircuit MCCB breaker , MCB's, and accessories according attached specs , drawings , and supervising engineer</p> <p>1. electrical panels DB5 24 WAYS</p>	NO	1			
	Sub-total Carried Forward					

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
3.1.1	<p>Internal Lighting</p> <p>works shall include all internal lighting works as points , including digging , laying conduits and cables , connecting lighting to distribution boards,switches, testing , operation and gurantee , price shall include laminairs and all included accessories , according attached specs , drawings , and supervising engineer</p> <p>a. Lighting Points for Administration Annex</p> <p>1. 1X24 WATT ROUND LED RECESSED DOWNLIGHT WITH HIGHLY SPECULAR REFLECTOR OF ULTRA-PURE ALUMINUM, LUMINAIRE LUMINOUS FLUX 1900 LM, LUMINOUS EFFICIENCY OF LUMINAIRE 73 LM/W, COLOR TEMPERATURE 3000 K, COLOR RENDERING INDEX RA > 80, SHEET STEEL LUMINAIRE BODY, POWDER-COATED SOLVENT-FREE, WITH ELECTRONIC TRANSFORMER.</p> <p>2.1X22 WATT ROUND LED RECESSED DOWNLIGHT WITH OPAL COVER, LUMINAIRE LUMINOUS FLUX 1197 LM, IP65, INTEGRAL TRANSFORMER.</p> <p>3.1X14.4 WATT LED CELLING / WALL RECESSED, LUMINAIRE LUMINOUS FLUX 1200 LM, LINEAR LIGHTING WITH 1M LENGTH.</p> <p>4.1X13.5 WATT LED SUSPENDED MOUNTED, LUMINAIRE LUMINOUS FLUX 800 LM.</p> <p>5. 1X18 WATT LED SUSPENDED MOUNTED, LUMINAIRE LUMINOUS FLUX 1100 LM.</p>	NO	3			
		NO	17			
		NO	42			
		NO	2			
		NO	10			
Sub-total Carried Forward						

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
3.2	6. 1X13.5 WATT LED WALL MOUNTED, LUMINAIRE LUMINOUS FLUX 800 LM.	NO	10			
	7. 1X25 WATT LED SUSPENDED MOUNTED, LUMINAIRE LUMINOUS FLUX 2130 LM, INCLUDING THE ELECTRONIC BALLAST HOUSED IN A SEALED CASING.	NO	3			
	8. EMERGENCY LIGHTING 2X8W FLORESCENT, 3 HOURS DURATION BATTERY NICKEL WALL MOUNTED	NO	4			
	Power Sockets and Isolators					
	works shall include all internal Power Sockets works as points , including digging , laying condiouts and cables , connecting to distribution boards, tesing , operation and gurantee , price shall include Sockets , Isolators , Outlets and all included accessories , according attached specs , drawings , and supervising engineer					
	a. Power sockets for Administration Annex					
	1. 13 Amp, 220 Volt, single Receptacle.	NO	16			
	2. 13 Amp, 220 Volt, single Receptacle water proof.	NO	8			
	3. 13 Amp, 220 Volt, double Receptacle.	NO	2			
	4. Double pole switch 20 Amps, operated, 2 poles, 3 Wires, 600V rated switches, Suitable for wet environments	NO	1			
b. Power Isolaters for Administration Annex						
1. 30 Amp Isolater, 380 Volt,IP54, housed in thermoplastic/polycarbonate or sheet steel enclosures, Straight Blade, Industrial Grade, Grounding, , Side Wired, Steel Strap.	NO	1				
Sub-total Carried Forward						

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
3.3	<p>Fire Alarm System works shall include all internal Fire Alarm Sensors and Panels , including digging , laying conduits and cables , connecting to Fire Alarm Panels and connecting each panel with eachother using fiberoptic cables, tesing , operation and gurantee , price shall include all Alarm Panels , Interfaces , Sensors of diffrent kinds , and all included accessories , according attached specs , drawings , and supervising engineer</p> <p>a. Fire Alarm Sensors</p> <p>1. Sensors for Administration Annex</p> <p>1.1 Supply, install, and operate photo detector complete with rigid PVC conduits and accessories and wires as per drawings and specifications. Rate includes for item 711/1 to technical specifications volume 3, electrical services for building</p> <p>1.2 Supply, install, and operate heat detector complete with rigid PVC conduits and accessories and wires as per drawings and specifications. Rate includes for item 711/1 to technical specifications volume 3, electrical services for building</p>	NO	1			
	Sub-total Carried Forward					

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	1.3 Supply, install, connect and operate Pull Station complete with all necessary connection in PVC conduits as per drawings and specifications. Rate includes for all necessary as item 711/3 of technical specifications, volume 3, electrical services for building	NO	2			
	1.4 Supply, install, connect and operate indoor fire alarm bell Ø 6 inch, red colour, complete with all necessary connections in rigid PVC conduits as per drawings and specifications. Rate includes all necessary for item 711/4 of technical specifications volume 3, electrical services for buildings	NO	2			
3.4	Telephone System supply , install , test commissioning and handing over , guarantee VOIP telephonic system according to attached specs , drawings , and supervising engineer as follows : a. Supply install , test commissioning and handing over , guarantee of all works related to establishing data & voice networks , price shall include all digging works , laying PVC conduits , Cat6a & wall mounted RJ45 Receptables , and it shall include all accessories , parts according to attached specs , drawings , and supervising engineer. 1. Voice Points 2. Wireless data points	NO NO	1 1			
Sub-total Carried Forward						

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
3.5	<p>CCTV System Supply, install , test and commission a complete CCTV Security System including CAT6a cables, conduits, boxes, sleeves,and all pertinent accessories to complete the system according to attached specs , drawings , and supervising engineer.</p> <p>a. Outdoor water proof fixed box camera wall mounted type complete with single data RJ45 Outlet.</p> <p>b. Indoor fixed box camera wall mounted type complete with single data RJ45 Outlet.</p>	NO	2			
3.6	<p>Public adress system a. Loud speaker 8W</p>	NO	6			
Sub-total Carried to Summary						

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
3.1	<p><u>Administration Building .</u></p> <p>Introduction Items have to include , supply , install , test commissioning and handing over , guarantee for all items below , items shall include all accessories , parts , needed without any extra costs unless otherwise indicated , , all items have to comply with specs , drawings , and supervising engineer opinion's.</p> <p>Internal Electrical Works</p> <p>Electrical Panels supply , install , test commissioning and handing over , guarantee Electrical distribution panels according to attached specs , drawings , and supervising engineer as follows :</p> <p>a. Flush Mounted Electrical Distribution panels , with not less than 2 mm thickness, electrostatically coated , IP55 with proper busbar , maincircuit MCCB breaker , MCB's, and accessories according attached specs , drawings , and supervising engineer</p> <p>1. electrical panels SMDB1 12 WAYS 2. electrical panels DB4 24 WAYS 3. electrical panels DBUPS 18 WAYS</p>	NO NO NO	1 1 1			
	Sub-total Carried Forward					

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
3.1.1	Internal Lighting works shall include all internal lighting works as points , including digging , laying conduits and cables , connecting lighting to distribution boards,switches, testing , operation and gurantee , price shall include laminairs and all included accessories , according attached specs , drawings , and supervising engineer a. Lighting Points for Administration Building 1. 1X37 WATT LED CELLING RECESSED MOUNTED, DECORATIVE OPAL PMMA DIFFUSER, LUMINAIRE LUMINOUS FLUX 3900 LM, SHEET STEEL LUMINAIRE BODY, WITH ELECTRONIC TRANSFORMER. 2.1X37 WATT LED SUSPENDED MOUNTING, LUMINAIRE LUMINOUS FLUX 4200 LM, LINEAR LIGHTING WITH 1.17M LENGTH. 3.EMERGENCY LIGHTING 2X8W FLORESCENT, 3 HOURS DURATION BATTERY NICKEL WALL MOUNTED 4. motion detectors					
		NO	30			
		NO	7			
		NO	7			
		NO	7			
Sub-total Carried Forward						

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
3.2	Power Sockets and Isolators works shall include all internal Power Sockets works as points , including digging , laying condiouts and cables , connecting to distribution boards, tesing , operation and gurantee , price shall include Sockets , Isolators , Outlets and all included accessories , according attached specs , drawings , and supervising engineer					
	a. Power sockets for Administration Building					
	1. 13 Amp, 220 Volt, single Receptacle.	NO	28			
	2. 13 Amp, 220 Volt, single Receptacle water proof.	NO	3			
	3. 13 Amp, 220 Volt, double Receptacle.	NO	4			
	b. Power Isolaters for Administration Building					
	1. 30 Amp Isolater, 380 Volt,IP54, housed in thermoplastic/polycarbonate or sheet steel enclosures, Straight Blade, Industrial Grade, Grounding, , Side Wired, Steel Strap.	NO	1			
	2. 15 Amp Isolater, 220 Volt,IP54, housed in thermoplastic/polycarbonate or sheet steel enclosures, Straight Blade, Industrial Grade, Grounding, , Side Wired, Steel Strap.	NO	1			
3.3	Fire Alarm System works shall include all internal Fire Alarm Sensors and Panels , including digging , laying condiouts and cables , connecting to Fire Alarm Panels and connecting each panel with eachother using fiberoptic cables, tesing , operation and gurantee , price shall include all Alarm Panels , Interfaces , Sensors of diffrent kinds , and all included accessories , according attached specs , drawings , and supervising engineer					
Sub-total Carried Forward						

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	a. Fire alarm panel for 2 loops	NO	1			
	b. Fire Alarm Sensors					
	1. Sensors for Administration Building					
	1.1 Supply, install, and operate photo detector complete with rigid PVC conduits and accessories and wires as per drawings and specifications. Rate includes for item 711/1 to technical specifications volume 3, electrical services for building	NO	10			
	1.2 Supply, install, connect and operate Pull Station complete with all necessary connection in PVC conduits as per drawings and specifications. Rate includes for all necessary as item 711/3 of technical specifications, volume 3, electrical services for building	NO	3			
	1.3 Supply, install, connect and operate indoor fire alarm bell Φ 6 inch, red colour, complete with all necessary connections in rigid PVC conduits as per drawings and specifications. Rate includes all necessary for item 711/4 of technical specifications volume 3, electrical services for buildings	NO	3			
3.4	Telephone System					
	supply , install , test commissioning and handing over , guarantee VOIP telephonic system according to attached specs , drawings , and supervising engineer as follows :					
	a. (19"- 8U) main data cabinet rack (MDC)	NO	1			
	b. 24 Port MM fiber optic patch panel	NO	1			
	c. 24 Port MM fiber optic switch	NO	1			
	d. 48 Port Cat6a patch panel	NO	1			
	e. 48 Port Cat6a switch	NO	1			
	Sub-total Carried Forward					

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	f. Supply install , test commissioning and handing over , guarantee of all works related to establishing data & voice networks , price shall include all digging works , laying PVC conduits , Cat6a & wall mounted RJ45 Receptables , and it shall include all accessories , parts according to attached specs , drawings , and supervising engineer.					
	1. Voice Points	NO	5			
	2. data points	NO	5			
	3. Wireless data points	NO	1			
	g. floor box including two double power socket and two cat6a receptable RJ45.	NO	8			
3.5	CCTV System Supply, install , test and commission a complete CCTV Security System including CAT6a cables, conduits, boxes, sleeves,and all pertinent accessories to complete the system according to attached specs , drawings , and supervising engineer.					
	a. Outdoor water proof fixed box camera wall mounted type complete with single data RJ45 Outlet.	NO	3			
	b. Indoor fixed box camera wall mounted type complete with single data RJ45 Outlet.	NO	1			
	c. Network video recorder	NO	1			
3.6	Public adress system Supply, install , test and commission a complete public address system including required power supply, holders, wiring and cabinets, cables, conduits, boxes, sleeves,and all pertinent accessories to complete the system according to attached specs , drawings , and supervising engineer.					
	Sub-total Carried Forward					

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	a. Loud speaker 8W	NO	8			
	b. Audio matrix switcher	NO	1			
	c. 1# CD player changer	NO	1			
	d. AM / FM tunner	NO	1			
	e. 200W power amplifier	NO	2			
	f. 19" metal rack with glass door, lock and all accessories need to suit all equipment	NO	1			
Sub-total Carried to Summary						

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	<p><u>Culture & Education center .</u></p> <p>Introduction Items have to include , supply , install , test commissioning and handing over , guarantee for all items below , items shall include all accessories , parts , needed without any extra costs unless otherwise indicated , , all items have to comply with specs , drawings , and supervising engineer opinion's.</p> <p>Internal Electrical Works</p> <p>3.1 Electrical Panels supply , install , test commissioning and handing over , guarantee Electrical distribution panels according to attached specs , drawings , and supervising engineer as follows :</p> <p>a. Flush Mounted Electrical Distribution panels , with not less than 2 mm thickness, electrostatically coated , IP55 with proper busbar , maincircuit MCCB breaker , MCB's, and accessories according attached specs , drawings , and supervising engineer</p> <p>1. electrical panels SMDB2 12 WAYS 2. electrical panels DB6 30 WAYS</p> <p>b. supply , install , commisining , test , guarantee , and run motor control center MCC 380 /220 , including main circuit breakers , sub circuit , release contactors , over load current according to the attached drawing , calculations , specifications .</p>					
	Sub-total Carried Forward					

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
3.1.1	Internal Lighting works shall include all internal lighting works as points , including digging , laying conduits and cables , connecting lighting to distribution boards,switches, testing , operation and gurantee , price shall include laminairs and all included accessories , according attached specs , drawings , and supervising engineer a. Lighting Points for Culture & Education center 1. 1X24 WATT ROUND LED RECESSED DOWNLIGHT WITH HIGHLY SPECULAR REFLECTOR OF ULTRA-PURE ALUMINUM, LUMINAIRE LUMINOUS FLUX 1900 LM, LUMINOUS EFFICIENCY OF LUMINAIRE 73 LM/W, COLOR TEMPERATURE 3000 K, COLOR RENDERING INDEX RA > 80, SHEET STEEL LUMINAIRE BODY, POWDER-COATED SOLVENT-FREE, WITH ELECTRONIC TRANSFORMER. 2.1X22 WATT ROUND LED RECESSED DOWNLIGHT WITH OPAL COVER, LUMINAIRE LUMINOUS FLUX 1197 LM, IP65, INTEGRAL TRANSFORMER. 3.1X13.5 WATT LED SUSPENDEED MOUNTED, LUMINAIRE LUMINOUS FLUX 800 LM. 4.1X18 WATT LED SUSPENDEED MOUNTED, LUMINAIRE LUMINOUS FLUX 1100 LM.					
		NO	7			
		NO	24			
		NO	2			
		NO	8			
Sub-total Carried Forward						

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	5.1X13.5 WATT LED WALL MOUNTED, LUMINAIRE LUMINOUS FLUX 800 LM.	NO	8			
	6.1X54 WATT LED WALL MOUNTED, LUMINAIRE LUMINOUS FLUX 3200 LM.	NO	8			
	7.1X25 WATT LED SUSPENDED MOUNTED, LUMINAIRE LUMINOUS FLUX 2130 LM, INCLUDING THE ELECTRONIC BALLAST HOUSED IN A SEALED CASING.	NO	10			
	8.EMERGENCY LIGHTING 2X8W FLORESCENT, 3 HOURS DURATION BATTERY NICKEL WALL MOUNTED	NO	4			
	9.1X14.4 WATT LED WALL / CELLING RECESSED, LUMINAIRE LUMINOUS FLUX 1200 LM, LINEAR LIGHTING WITH 1M LENGTH.	NO	16			
	10. 1X37 WATT LED CELLING RECESSED MOUNTED, DECORATIVE OPAL PMMA DIFFUSER, LUMINAIRE LUMINOUS FLUX 3900 LM, SHEET STEEL LUMINAIRE BODY, WITH ELECTRONIC TRANSFORMER.	NO	28			
	11. 1X41 WATT LED WALL MOUNTED, PURE ALUMINIUM REFLECTORS, CLEAR POLYCARBONATE DIFFUSER, LUMINAIRE LUMINOUS FLUX 1741 LM.	NO	5			
	12. 1X0.5 WATT LED RECESSED IN FLOOR, POLYCARBONATE DIFFUSER, LUMINAIRE LUMINOUS FLUX 3 LM, IP67.	NO	26			
3.2	Power Sockets and Isolators works shall include all internal Power Sockets works as points , including digging , laying condiouts and cables , connecting to distribution boards, tesing , operation and gurantee , price shall include Sockets , Isolators , Outlets and all included accessories , according attached specs , drawings , and supervising engineer					
	Sub-total Carried Forward					

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	a. Power sockets for Culture & Education center					
	1. 13 Amp, 220 Volt, single Receptacle.	NO	31			
	2. 13 Amp, 220 Volt, single Receptacle water proof.	NO	11			
	3. 13 Amp, 220 Volt, duple Receptacle.	NO	1			
	4. 20 Amp, 380 Volt, three-Phase Receptacle.	NO	1			
	5. Double pole switch 20 Amps, operated, 2 poles, 3 Wires, 600V rated switches, Suitable for wet environments	NO	2			
	b. Power Isolaters for Culture & Education center					
	1. 60 Amp Isolater, 380 Volt, IP54, housed in thermoplastic/polycarbonate or sheet steel enclosures, Straight Blade, Industrial Grade, Grounding, , Side Wired, Steel Strap.	NO	1			
	2. 15 Amp Isolater, 220 Volt, IP54, housed in thermoplastic/polycarbonate or sheet steel enclosures, Straight Blade, Industrial Grade, Grounding, , Side Wired, Steel Strap.	NO	1			
3.3	Fire Alarm System					
	works shall include all internal Fire Alarm Sensors and Panels , including digging , laying conduits and cables , connecting to Fire Alarm Panels and connecting each panel with each other using fiberoptic cables, tesing , operation and gurantee , price shall include all Alarm Panels , Interfaces , Sensors of diffrent kinds , and all included accessories , according attached specs , drawings , and supervising engineer					
	Sub-total Carried Forward					

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	a. Fire Alarm Sensors					
	1. Sensors for Traditional Restaurant					
	1.1 Supply, install, and operate photo detector complete with rigid PVC conduits and accessories and wires as per drawings and specifications. Rate includes for item 711/1 to technical specifications volume 3, electrical services for building	NO	12			
	1.2 Supply, install, and operate heat detector complete with rigid PVC conduits and accessories and wires as per drawings and specifications. Rate includes for item 711/1 to technical specifications volume 3, electrical services for building	NO	2			
	1.3 Supply, install, connect and operate Pull Station complete with all necessary connection in PVC conduits as per drawings and specifications. Rate includes for all necessary as item 711/3 of technical specifications, volume 3, electrical services for building	NO	3			
	1.4 Supply, install, connect and operate indoor fire alarm bell Ø 6 inch, red colour, complete with all necessary connections in rigid PVC conduits as per drawings and specifications. Rate includes all necessary for item 711/4 of technical specifications volume 3, electrical services for buildings	NO	3			
3.4	Telephone System					
	supply , install , test commissioning and handing over , guarantee VOIP telephonic system according to attached specs , drawings , and supervising engineer as follows :					
	a. (19"- 8U) main data cabinet rack (DC1)	NO	1			
	b. 12 Port MM fiber optic patch panel	NO	1			
	c. 12 Port MM fiber optic switch	NO	1			
Sub-total Carried Forward						

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	d. 12 Port Cat6a patch panel	NO	1			
	e. 12 Port Cat6a switch	NO	1			
	f. Supply install , test commissioning and handing over , guarantee of all works related to establishing data & voice networks , price shall include all digging works , laying PVC conduits , Cat6a cables and wall mounted RJ45 Receptables , and it shall include all accessories , parts according to attached specs , drawings , and supervising engineer.					
	1. Voice Points	NO	2			
	2. Wireless data points	NO	1			
3.5	CCTV System Supply, install , test and commission a complete CCTV Security System including CAT6a, conduits, boxes, sleeves, and all pertinent accessories to complete the system according to attached specs , drawings , and supervising engineer.					
	a. Outdoor water proof fixed box camera wall mounted type complete with single data RJ45 Outlet.	NO	3			
	b. Indoor fixed box camera wall mounted type complete with single data RJ45 Outlet.	NO	1			
3.6	Public adress system					
	a. Loud speaker 8W	NO	11			
Sub-total Carried to Summary						

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	<p><u>Heritage Center .</u></p> <p>Introduction Items have to include , supply , install , test commissioning and handing over , guarantee for all items below , items shall include all accessories , parts , needed without any extra costs unless otherwise indicated , , all items have to comply with specs , drawings , and supervising engineer opinion's.</p> <p>Internal Electrical Works</p> <p>3.1 Electrical Panels supply , install , test commissioning and handing over , guarantee Electrical distribution panels according to attached specs , drawings , and supervising engineer as follows :</p> <p>a. Flush Mounted Electrical Distribution panels , with not less than 2 mm thickness, electrostatically coated , IP55 with proper busbar , maincircuit MCCB breaker , MCB's, and accessories according attached specs , drawings , and supervising engineer</p> <p>1. electrical panels DB3 24 WAYS</p>	NO	1			
	Sub-total Carried Forward					

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
3.1.1	Internal Lighting works shall include all internal lighting works as points , including digging , laying conduits and cables , connecting lighting to distribution boards,switches, testing , operation and gurantee , price shall include laminairs and all included accessories , according attached specs , drawings , and supervising engineer a. Lighting Points for Heritage Center 1. 1X22 WATT LED RECESSED IN FLOOR, PURE ALUMINIUM REFLECTORS, LUMINAIRE LUMINOUS FLUX 1700 LM, WITH ELECTRONIC TRANSFORMER. 2.1X3 WATT LED WALL RECESSED, CLEAR TOUGHENED GLASS DIFFUSER, LUMINAIRE LUMINOUS FLUX 22 LM. 3.1X13.5 WATT LED SUSPENDE MOUNTED, LUMINAIRE LUMINOUS FLUX 800 LM. 4.1X0.5 WATT LED RECESSED IN FLOOR, POLYCARBONATE DIFFUSER, LUMINAIRE LUMINOUS FLUX 3 LM, IP67. 5.1X25 WATT LED SUSPENDE MOUNTED, LUMINAIRE LUMINOUS FLUX 2130 LM, INCLUDING THE ELECTRONIC BALLAST HOUSED IN A SEALED CASING. 6.1X10.5 WATT LED CELLING MOUNTED, LUMINAIRE LUMINOUS FLUX 658 LM, WITH ELECTRONIC BALLAST.					
		NO	6			
		NO	6			
		NO	9			
		NO	7			
		NO	4			
		NO	14			
Sub-total Carried Forward						

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	7.1X14.4 WATT LED CELLING/ WALL RECESSED, LUMINAIRE LUMINOUS FLUX 1200 LM, LINEAR LIGHTING WITH 1M LENGTH.	NO	10			
	8.EMERGENCY LIGHTING 2X8W FLORESCENT, 3 HOURS DURATION BATTERY NICKEL WALL MOUNTED	NO	3			
	9.1X11 WATT LED WALL MOUNTED, PURE ALUMINIUM REFLECTORS, CLEAR POLYCARBONATE DIFFUSER, LUMINAIRE LUMINOUS FLUX 846 LM.	NO	4			
	10.1X41 WATT LED WALL MOUNTED, PURE ALUMINIUM REFLECTORS, CLEAR POLYCARBONATE DIFFUSER, LUMINAIRE LUMINOUS FLUX 1741 LM.	NO	29			
3.2	Power Sockets and Isolators works shall include all internal Power Sockets works as points , including digging , laying condiouts and cables , connecting to distribution boards, tesing , operation and gurantee , price shall include Sockets , Isolators , Outlets and all included accessories , according attached specs , drawings , and supervising engineer					
	a. Power sockets for Heritage Center					
	1. 13 Amp, 220 Volt, single Receptacle.	NO	16			
	2. 13 Amp, 220 Volt, single Receptacle water proof.	NO	3			
	b. Power Isolaters for Heritage Center					
	1. 20 Amp Isolater, 220 Volt,IP54, housed in thermoplastic/polycarbonate or sheet steel enclosures, Straight Blade, Industrial Grade, Grounding, , Side Wired, Steel Strap.	NO	2			
	2. 15 Amp Isolater, 220 Volt,IP54, housed in thermoplastic/polycarbonate or sheet steel enclosures, Straight Blade, Industrial Grade, Grounding, , Side Wired, Steel Strap.	NO	1			
Sub-total Carried Forward						

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
<p>3.3 Fire Alarm System</p> <p>works shall include all internal Fire Alarm Sensors and Panels , including digging , laying conduits and cables , connecting to Fire Alarm Panels and connecting each panel with eachother using fiberoptic cables, tesing , operation and gurantee , price shall include all Alarm Panels , Interfaces , Sensors of diffrent kinds , and all included accessories , according attached specs , drawings , and supervising engineer</p> <p>a. Fire Alarm Sensors</p> <p>1. Sensors for Heritage Center</p> <p>1.1 Supply, install, and operate photo detector complete with rigid PVC conduits and accessories and wires as per drawings and specifications. Rate includes for item 711/1 to technical specifications volume 3, electrical services for building</p> <p>1.3 Supply, install, connect and operate Pull Station complete with all necessary connection in PVC conduits as per drawings and specifications. Rate includes for all necessary as item 711/3 of technical specifications, volume 3, electrical services for building</p> <p>1.4 Supply, install, connect and operate indoor fire alarm bell Φ 6 inch, red colour, complete with all necessary connections in rigid PVC conduits as per drawings and specifications. Rate includes all necessary for item 711/4 of technical specifications volume 3, electrical services for buildings</p>		<p>NO</p> <p>NO</p> <p>NO</p>	<p>3</p> <p>1</p> <p>1</p>			
Sub-total Carried Forward						

BILL No. (3) Electrical Works

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
3.4	Telephone System supply , install , test commissioning and handing over , guarantee VOIP telephonic system according to attached specs , drawings , and supervising engineer as follows :					
	a. Supply install , test commissioning and handing over , guarantee of all works related to establishing data & voice networks , price shall include all digging works , laying PVC conduits , CAT6A cables and wall mounted RJ45 Receptables , and it shall include all accessories , parts according to attached specs , drawings , and supervising engineer					
	1. Data Points	NO	2			
	2. Voice Points	NO	2			
	3. Wireless Points	NO	1			
3.5	CCTV System Supply, install , test and commission a complete CCTV Security System including CAT6a cables, conduits, boxes, sleeves,and all pertinent accessories to complete the system according to attached specs , drawings , and supervising engineer.					
	a. Outdoor water proof fixed box camera wall mounted type complete with single data RJ45 Outlet.	NO	2			
	b. Indoor fixed box camera wall mounted type complete with single data RJ45 Outlet.	NO	3			
3.6	Public adress system a. Loud speaker 8W	NO	3			
Sub-total Carried to Summary						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	<p><u>Interpretation center .</u></p> <p>Introduction Items have to include , supply , install , test commissioning and handing over , guarantee for all items below , items shall include all accessories , parts , needed without any extra costs unless otherwise indicated , , all items have to comply with specs , drawings , and supervising engineer opinion's.</p> <p>Internal Electrical Works</p> <p>3.1 Electrical Panels supply , install , test commissioning and handing over , guarantee Electrical distribution panels according to attached specs , drawings , and supervising engineer as follows :</p> <p>a. Flush Mounted Electrical Distribution panels , with not less than 2 mm thickness, electrostatically coated , IP55 with proper busbar , maincircuit MCCB breaker , MCB's, and accessories according attached specs , drawings , and supervising engineer</p> <p>1. electrical panels MDB 36 WAYS 2. electrical panels DB7 30 WAYS</p>	NO NO	1 1			
	Sub-total Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
3.1.1	<p>Internal Lighting</p> <p>works shall include all internal lighting works as points , including digging , laying conduits and cables , connecting lighting to distribution boards,switches, testing , operation and gurantee , price shall include laminairs and all included accessories , according attached specs , drawings , and supervising engineer</p> <p>a. Lighting Points for Interpretation center</p> <p>1. 1X24 WATT ROUND LED RECESSED DOWNLIGHT WITH HIGHLY SPECULAR REFLECTOR OF ULTRA-PURE ALUMINUM, LUMINAIRE LUMINOUS FLUX 1900 LM, LUMINOUS EFFICIENCY OF LUMINAIRE 73 LM/W, COLOR TEMPERATURE 3000 K, COLOR RENDERING INDEX RA > 80, SHEET STEEL LUMINAIRE BODY, POWDER-COATED SOLVENT-FREE, WITH ELECTRONIC TRANSFORMER.</p> <p>2.1X22 WATT ROUND LED RECESSED DOWNLIGHT WITH OPAL COVER, LUMINAIRE LUMINOUS FLUX 1197 LM, IP65, INTEGRAL TRANSFORMER.</p> <p>3.1X22 WATT LED RECESSED IN FLOOR, PURE ALUMINIUM REFLECTORS, LUMINAIRE LUMINOUS FLUX 1700 LM, WITH ELECTRONIC TRANSFORMER.</p> <p>4.1X25 WATT LED SUSPENDEd MOUNTED, LUMINAIRE LUMINOUS FLUX 2130 LM, INCLUDING THE ELECTRONIC BALLAST HOUSED IN A SEALED CASING.</p> <p>5.1X0.5 WATT LED RECESSED IN FLOOR, POLYCARBONATE DIFFUSER, LUMINAIRE LUMINOUS FLUX 3 LM, IP67.</p>					
	Sub-total Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	6.1X10.5 WATT LED CELLING MOUNTED, LUMINAIRE LUMINOUS FLUX 658 LM, WITH ELECTRONIC BALLAST.	NO	15			
	7.1X37 WATT LED CELLING RECESSED MOUNTED, DECORATIVE OPAL PMMA DIFFUSER, LUMINAIRE LUMINOUS FLUX 3900 LM, SHEET STEEL LUMINAIRE BODY, WITH ELECTRONIC TRANSFORMER.	NO	6			
	8.EMERGENCY LIGHTING 2X8W FLORESCENT, 3 HOURS DURATION BATTERY NICKEL WALL MOUNTED	NO	4			
	9.1X37 WATT LED SUSPENDED MOUNTING, LUMINAIRE LUMINOUS FLUX 4200 LM, LINEAR LIGHTING WITH 1.17M LENGTH.	NO	12			
	10. 1X14.4 WATT LED CELLING / WALL RECESSED, LUMINAIRE LUMINOUS FLUX 1200 LM, LINEAR LIGHTING WITH 1M LENGTH.	NO	28			
3.2	Power Sockets and Isolators					
	works shall include all internal Power Sockets works as points , including digging , laying condiouts and cables , connecting to distribution boards, tesing , operation and gurantee , price shall include Sockets , Isolators , Outlets and all included accessories , according attached specs , drawings , and supervising engineer					
	a. Power sockets for Interpretation center					
	1. 13 Amp, 220 Volt, single Receptacle.	NO	19			
	2. 13 Amp, 220 Volt, single Receptacle water proof.	NO	10			
	3. 13 Amp, 220 Volt, duble Receptacle.	NO	1			
	4. Double pole switch 20 Amps, operated, 2 poles, 3 Wires, 600V rated switches, Suitable for wet environments	NO	2			
	Sub-total Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	<p>b. Power Isolaters for Interpretation center</p> <p>1. 40 Amp Isolater, 380 Volt,IP54, housed in thermoplastic/polycarbonate or sheet steel enclosures, Straight Blade, Industrial Grade, Grounding, , Side Wired, Steel Strap.</p> <p>2. 15 Amp Isolater, 220 Volt,IP54, housed in thermoplastic/polycarbonate or sheet steel enclosures, Straight Blade, Industrial Grade, Grounding, , Side Wired, Steel Strap.</p>	NO	1			
		NO	3			
3.3	<p>Fire Alarm System</p> <p>works shall include all internal Fire Alarm Sensors and Panels , including digging , laying conduits and cables , connecting to Fire Alarm Panels and connecting each panel with eachother using fiberoptic cables, tesing , operation and gurantee , price shall include all Alarm Panels , Interfaces , Sensors of diffrent kinds , and all included accessories , according attached specs , drawings , and supervising engineer</p>					
	<p>a. Fire Alarm Sensors</p> <p>1. Sensors for Traditional Restaurant</p> <p>1.1 Supply, install, and operate photo detector complete with rigid PVC conduits and accessories and wires as per drawings and specifications. Rate includes for item 711/1 to technical specifications volume 3, electrical services for building</p>	NO	7			
	<p>1.2 Supply, install, and operate heat detector complete with rigid PVC conduits and accessories and wires as per drawings and specifications. Rate includes for item 711/1 to technical specifications volume 3, electrical services for building</p>	NO	2			
	Sub-total Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	1.3 Supply, install, connect and operate Pull Station complete with all necessary connection in PVC conduits as per drawings and specifications. Rate includes for all necessary as item 711/3 of technical specifications, volume 3, electrical services for building	NO	2			
	1.4 Supply, install, connect and operate indoor fire alarm bell Φ 6 inch, red colour, complete with all necessary connections in rigid PVC conduits as per drawings and specifications. Rate includes all necessary for item 711/4 of technical specifications volume 3, electrical services for buildings	NO	2			
3.4	Telephone System supply , install , test commissioning and handing over , guarantee VOIP telephonic system according to attached specs , drawings , and supervising engineer as follows :					
	a. Supply install , test commissioning and handing over , guarantee of all works related to establishing data & voice networks , price shall include all digging works , laying PVC conduits , MM fiber optic cables and wall mounted RJ45 Receptables , and it shall include all accessories , parts according to attached specs , drawings , and supervising engineer.					
	1. Voice Points	NO	2			
	2. Data points	NO	1			
	2. Wireless data points	NO	1			
	Sub-total Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
3.5	CCTV System Supply, install , test and commission a complete CCTV Security System including Fiber Optic cables, conduits, boxes, sleeves,and all pertinent accessories to complete the system according to attached specs , drawings , and supervising engineer.					
	a. Outdoor water proof fixed box camera wall mounted type complete with single data RJ45 Outlet.	NO	2			
	b. Indoor fixed box camera wall mounted type complete with single data RJ45 Outlet.	NO	1			
3.6	Public adress system					
	a. Loud speaker 8W	NO	6			
Sub-total Carried to Summary						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	<p>Site works .</p> <p>Introduction Items have to include , supply , install , test commissioning and handing over , guarantee for all items below , items shall include all accessories , parts , needed without any extra costs unless otherwise indicated , , all items have to comply with specs , drawings , and supervising engineer opinion's.</p> <p>3.1 Electrical Panels supply , install , test commissioning and handing over , guarantee Electrical distribution panels according to attached specs , drawings , and supervising engineer as follows :</p> <p>a. Electrical Distribution panels , with not less than 2 mm thickness, electrostatically coated , IP55 with proper busbar , maincircuit MCCB breaker , MCB's, and accessories according attached specs , drawings , and supervising engineer</p> <p>1. main distribution panel MDB 36 WAYS 2. electrical panel EXDB1 18 WAYS 3. electrical panel EXDB2 24 WAYS</p>					
	Sub-total Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
3.1.1	Lighting					
	a. works shall include all lighting works as points , including digging , laying conduits and cables , connecting lighting to distribution boards,switches, testing , operation and gurantee , price shall include laminairs and all included accessories , according attached specs , drawings , and supervising engineer					
	1.1X22 WATT ROUND LED RECESSED DOWNLIGHT WITH OPAL COVER, LUMINAIRE LUMINOUS FLUX 1197 LM, IP65, INTEGRAL TRANSFORMER.	NO	10			
	2.1X5 WATT LED WALL MOUNTED, PURE ALUMINIUM REFLECTORS, LUMINAIRE LUMINOUS FLUX 43 LM, IP65.	NO	2			
	b. works shall include operation and gurantee , price shall include laminairs and all included accessories , according attached specs , drawings , and supervising engineer					
	3.6 LED 11 W, WITH PHOTOVOLTAIC CELL AND RECHARGEABLE BATTERIES, LUMINAIRE LUMINOUS FLUX 103 LM, IP 65.	NO	185			
	4. 4 LED 11 W, WITH PHOTOVOLTAIC CELL AND RECHARGEABLE BATTERIES, LUMINAIRE LUMINOUS FLUX 127 LM, IP 65.	NO	33			
	5. HIGH POWER LOW WATTAGE SOLAR LED LIGHT, SOLID GLULAM WOOD CONSTRUCTION, COLOR TEMPERATURE 2700K, LUMINAIRE LUMINOUS FLUX 130 LM.	NO	38			
	6. HIGH POWER LOW WATTAGE SOLAR LED LIGHT, SOLID GLULAM WOOD CONSTRUCTION, COLOR TEMPERATURE 2700K, LUMINAIRE LUMINOUS FLUX 1354 LM.	NO	78			
	Sub-total Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
	7. DUPLEX RECEPTACLE AND STEP LIGHT MOUNTING , 10 LED 25 W, WITH PHOTOVOLTAIC CELL AND RECHARGEABLE BATTERIES, LUMINAIRE LUMINOUS FLUX 378 LM., IP 65.	NO	75			
	8. WALL MOUNTED SOLAR LIGHT 4 LED 1.2 HIGH EFFICIENCY WITH PHOTOVOLTAIC CELLS AND RECHARGEABLE BATTERIES, BODY AND COVER IN DIE CAST ALUMINUM , POLYCARBONATE DIFFUSER, IP 65.	NO	15			
	9.12 HIGH POWERED SUPER BRIGHT LED BULBS SOLAR FLAG AND SPOTLIGHT, 6 WATT, BATTERY Li-ion 3.7V 2000 RECHARGEABLE BATTERY (INCLUDED),PRO-GRADE CAST ALUMINUM CONSTRUCTION LIGHT AND GROUND STAKE.	NO	110			
	10. SOLAR BOLLARD LED LIGHT, MONOCRYSTALLINE SOLAR PANEL. LUMINOUS FLUX 288 LM. 4W SOLAR PANEL WATTAGE.	NO	170			
	11. MONOCRYSTALLINE SOLAR PANEL AND A LONG-LASTING LI-ION BATTERY. LUMINOUS FLUX 675 LM. 15 W SOLAR PANEL WATTAGE, IP 67.	NO	804			
	12. 6 WATT MOTION SENSOR SOLAR LIGHT POWERED BY A HIGH-EFFICIENCY MONOCRYSTALLINE SOLAR PANEL AND A LONG-LASTING LI-ION BATTERY. LUMINOUS FLUX 400 LM.	NO	52			
	13. 350watt / 50m LINEAR STRIP LED, LUMINAIRE LUMINOUS FLUX 40000lm / 50m, COLOR TEMPERATURE 3000K, INPUT VOLTAGE 220V, IP67, CUTTABLE UNIT EVERY 0.5m.	NO	550			

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
3.2	<p>Power Sockets and Isolators works shall include all Power Sockets works as points , including digging , laying condiouts and cables , connecting to distribution boards, tesing , operation and gurantee , price shall include Isolators and all included accessories , according attached specs , drawings , and supervising engineer</p> <p>a. Power Isolaters</p> <p>1. 40 Amp Isolater, 380 Volt,IP54, housed in thermoplastic/polycarbonate or sheet steel enclosures, Straight Blade, Industrial Grade, Grounding, , Side Wired, Steel Strap.</p> <p>2. 30 Amp Isolater, 380 Volt,IP54, housed in thermoplastic/polycarbonate or sheet steel enclosures, Straight Blade, Industrial Grade, Grounding, , Side Wired, Steel Strap.</p> <p>3. 20 Amp Isolater, 380 Volt,IP54, housed in thermoplastic/polycarbonate or sheet steel enclosures, Straight Blade, Industrial Grade, Grounding, , Side Wired, Steel Strap.</p> <p>4. 30 Amp Isolater, 220 Volt,IP54, housed in thermoplastic/polycarbonate or sheet steel enclosures, Straight Blade, Industrial Grade, Grounding, , Side Wired, Steel Strap.</p> <p>5. 20 Amp Isolater, 220 Volt,IP54, housed in thermoplastic/polycarbonate or sheet steel enclosures, Straight Blade, Industrial Grade, Grounding, , Side Wired, Steel Strap.</p>					
	Sub-total Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
3.3	Fire Alarm system supply , install , test commissioning, handing over ,Gurantee data Cables including the cables accessories , terminations and joints and all necessary accessories according to attached specs , drawings , and supervising engineer as follows : 2 CORE FIRE RETARDANT CABLE INTO 1X100 UPVC UNDER GROUND+1x100 UPVC UNDER GROUND(spare) CONDUITS,H=0.7m	m	800			
3.4	VOIP System supply , install , test commissioning, handing over ,Gurantee data Cables including the cables accessories , terminations and joints and all necessary accessories according to attached specs , drawings , and supervising engineer as follows :					
a.	2 CORE MULTI MODE FIBER OPTIC CABLE INTO 1X100 UPVC UNDER GROUND+1x100 UPVC UNDER GROUND(spare) CONDUITS,H=0.7m	m	600			
b.	4UTP PAIRS Cat6a 1X100mm PVC CONDUIT+ 1X100mm PVC CONDUIT (SPARE	m	300			
Sub-total Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
3.5	CCTV System Supply, install , test and commission a complete CCTV Security System including Fiber Optic cables, conduits, boxes, sleeves,and all pertinent accessories to complete the system according to attached specs , drawings , and supervising engineer.					
	a. OUTDOOR IP FIXED BOX CAMERA WALL MOUNTED TYPE COMPLETE WITH SINGLE DATA RJ45 OUTLET AND TRANSMITTER/RECEIVER CONVERTOR (CAT6a-MM FIBER-CAT6a) WITH ALL BRACKETS	NO	14			
	b. 3m HEIGHT, 4" GALVANIZED STEEL POLE WITH POLYESTER POWDERED PAINT WITH HIGH RESISTSANCE AGAINST CORROSION AND COMPLETE WITH JUNCTION BOX TO ACCOMMODATE 24V TRANSFORMER POWER SUPPLY FOR 1 CAMERAS, CIRCUIT BREAKER AND TERMINALS.	NO	14			
	C. 2 CORE MULTI MODE FIBER OPTIC CABLE INTO 1X100 UPVC UNDER GROUND+1x100 UPVC UNDER GROUND(spare) CONDUITS,H=0.7m	m	6300			
	D. 4UTP PAIRS Cat6a 1X100mm PVC CONDUIT+ 1X100mm PVC CONDUIT (SPARE	m	320			
3.6	communication manholes works shall include digging , laying conduits, cables and all included accessories , according attached specs , drawings , and supervising engineer	NO	66			
3.7	Electrical manholes works shall include digging , laying conduits, cables and all included accessories , according attached specs , drawings , and supervising engineer	NO	8			
Sub-total Carried Forward						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
3.8	Electrical cables supply , install , test commissioning, handing over , Gurantee Instrument & power Cables including the cables accessories , terminations and joints according to attached specs , drawings , and supervising engineer as follows :					
	a. Cable (4x35 mm ² +16mm ² G CU/XLPE/SWA/PVC)	LM	650			
	b. Cable(4x16 mm ² +10mm ² G CU/XLPE/SWA/PVC)	LM	135			
	c. Cable (4x10 mm ² +10mm ² G CU/XLPE/SWA/PVC)	LM	220			
	d.Cable (4x10 mm ² +10mm ² G CU/XLPE/PVC)	LM	10			
	e.Cable (4x6 mm ² +6mm ² G CU/XLPE/SWA/PVC)	LM	140			
3.9	PROVISIONAL SUM FOR POWER SUPPLY Provisional sum from which EDCO (electricity company) shall be paid against official invoice for the supply and installation of under ground 4X185mm ² +1x95mm ² cables from nearest source up to MDB and all related civil and electrical works necessary to complete work.	PS	1			
Sub-total Carried to Summary						

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	<p>Traditional Restaurant .</p> <p>Introduction Items have to include , supply , install , test commissioning and handing over , guarantee for all items below , items shall include all accessories , parts , needed without any extra costs unless otherwise indicated , , all items have to comply with specs , drawings , and supervising engineer opinion's.</p> <p>Internal Electrical Works</p> <p>3.1 Electrical Panels supply , install , test commissioning and handing over , guarantee Electrical distribution panels according to attached specs , drawings , and supervising engineer as follows :</p> <p>a. Flush Mounted Electrical Distribution panels , with not less than 2 mm thickness, electrostatically coated , IP55 with proper busbar , maincircuit MCCB breaker , MCB's, and accessories according attached specs , drawings , and supervising engineer</p> <p>1. electrical panels DB2 24 WAYS</p>	NO	1			
	Sub-total Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
3.1.1	<p>Internal Lighting</p> <p>works shall include all internal lighting works as points , including digging , laying conduits and cables , connecting lighting to distribution boards,switches, testing , operation and gurantee , price shall include laminairs and all included accessories , according attached specs , drawings , and supervising engineer</p> <p>a. Lighting Points for Traditional Restaurant</p> <p>1. 1X24 WATT ROUND LED RECESSED DOWNLIGHT WITH HIGHLY SPECULAR REFLECTOR OF ULTRA-PURE ALUMINUM, LUMINAIRE LUMINOUS FLUX 1900 LM, LUMINOUS EFFICIENCY OF LUMINAIRE 73 LM/W, COLOR TEMPERATURE 3000 K, COLOR RENDERING INDEX RA > 80, SHEET STEEL LUMINAIRE BODY, POWDER-COATED SOLVENT-FREE, WITH ELECTRONIC TRANSFORMER.</p> <p>2.1X22 WATT ROUND LED RECESSED DOWNLIGHT WITH OPAL COVER, LUMINAIRE LUMINOUS FLUX 1197 LM, IP65, INTEGRAL TRANSFORMER.</p> <p>3.1X5 WATT LED WALL MOUNTED, PURE ALUMINIUM REFLECTORS, LUMINAIRE LUMINOUS FLUX 43 LM, IP65.</p> <p>4.1X0.5 WATT LED RECESSED IN FLOOR, POLYCARBONATE DIFFUSER, LUMINAIRE LUMINOUS FLUX 3 LM, IP67.</p>					
	Sub-total Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
3.2	5.1X25 WATT LED SUSPENDED MOUNTED, LUMINAIRE LUMINOUS FLUX 2130 LM, INCLUDING THE ELECTRONIC BALLAST HOUSED IN A SEALED CASING.	NO	24			
	6.1X1.3 WATT LED DOWN LIGHT, OPAL DIFFUSER, LUMINAIRE LUMINOUS FLUX 29 LM.	NO	30			
	7.1X14.4 WATT LED CELLING/ WALL RECESSED, LUMINAIRE LUMINOUS FLUX 1200 LM, LINEAR LIGHTING WITH 1M LENGTH.	NO	25			
	8.EMERGENCY LIGHTING 2X8W FLORESCENT, 3 HOURS DURATION BATTERY NICKEL WALL MOUNTED	NO	3			
	Power Sockets and Isolators					
	works shall include all internal Power Sockets works as points , including digging , laying condiouts and cables , connecting to distribution boards, tesing , operation and gurantee , price shall include Sockets , Isolators , Outlets and all included accessories , according attached specs , drawings , and supervising engineer					
	a. Power sockets for Traditional Restaurant					
	1. 13 Amp, 220 Volt, single Receptacle.	NO	14			
	2. 13 Amp, 220 Volt, single Receptacle water proof.	NO	13			
	3. Double pole switch 20 Amps, operated, 2 poles, 3 Wires, 600V rated switches, Suitable for wet environments	NO	3			
b. Power Isolaters for Traditional Restaurant						
1. 30 Amp Isolater, 380 Volt,IP54, housed in thermoplastic/polycarbonate or sheet steel enclosures, Straight Blade, Industrial Grade, Grounding, , Side Wired, Steel Strap.	NO	1				
	Sub-total Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
3.3	<p>2. 15 Amp Isolater, 220 Volt,IP54, housed in thermoplastic/polycarbonate or sheet steel enclosures, Straight Blade, Industrial Grade, Grounding, , Side Wired, Steel Strap.</p> <p>Fire Alarm System works shall include all internal Fire Alarm Sensors and Panels , including digging , laying condiouts and cables , connecting to Fire Alarm Panels and connecting each panel with eachother using fiberoptic cables, tesing , operation and gurantee , price shall include all Alarm Panels , Interfaces , Sensors of diffrent kinds , and all included accessories , according attached specs , drawings , and supervising engineer</p> <p>a. Fire Alarm Sensors 1. Sensors for Traditional Restaurant 1.1 Supply, install, and operate photo detector complete with rigid PVC conduits and accessories and wires as per drawings and specifications. Rate includes for item 711/1 to technical specifications volume 3, electrical services for building 1.2 Supply, install, and operate heat detector complete with rigid PVC conduits and accessories and wires as per drawings and specifications. Rate includes for item 711/1 to technical specifications volume 3, electrical services for building</p>	NO	1			
		NO	8			
		NO	2			
	Sub-total Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
	Sub-total Brought Forward					
	1.3 Supply, install, connect and operate Pull Station complete with all necessary connection in PVC conduits as per drawings and specifications. Rate includes for all necessary as item 711/3 of technical specifications, volume 3, electrical services for building	NO	3			
	1.4 Supply, install, connect and operate indoor fire alarm bell Ø 6 inch, red colour, complete with all necessary connections in rigid PVC conduits as per drawings and specifications. Rate includes all necessary for item 711/4 of technical specifications volume 3, electrical services for buildings	NO	3			
3.4	Telephone System supply , install , test commissioning and handing over , guarantee VOIP telephonic system according to attached specs , drawings , and supervising engineer as follows :					
	a. Supply install , test commissioning and handing over , guarantee of all works related to establishing data & voice networks , price shall include all digging works , laying PVC conduits , MM fiber optic cables and wall mounted RJ45 Receptables , and it shall include all accessories , parts according to attached specs , drawings , and supervising engineer.					
	1. Voice Points	NO	1			
	2. Wireless data points	NO	1			
	Sub-total Carried Forward					

Item N°	DESCRIPTION	Unit	Quantity	Rates In Figures JD	Rates in words JD	Amount JD
Sub-total Brought Forward						
3.5	CCTV System Supply, install , test and commission a complete CCTV Security System including Fiber Optic cables, conduits, boxes, sleeves,and all pertinent accessories to complete the system according to attached specs , drawings , and supervising engineer.					
	a. Outdoor water proof fixed box camera wall mounted type complete with single data RJ45 Outlet.	NO	5			
	b. Indoor fixed box camera wall mounted type complete with single data RJ45 Outlet.	NO	1			
3.6	Public adress system					
	a. Loud speaker 8W	NO	7			
Sub-total Carried to Summary						