ELECTRICITE DU LIBAN (EDL)
ETABLISSEMENT PUBLIC
BEIRUT-LEBANON

REHABILITATION OF EDL CENTRAL BUILDING
MAR MICHAEL ROAD
BEIRUT – LEBANON

VOLUME 3
BILL OF QUANTITIES
(PRICED)
Strengthen + Rehabilitation

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SPECTRUM Engineering Consultants S.A.R.L
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REHABILITATION OF EDL CENTRAL BUILDING
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BEIRUT – LEBANON

TABLE OF CONTENTS

GENERAL PREAMBLES

GENERAL SUMMARY

PART 1/3	**CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS**
Division 1	GENERAL REQUIREMENTS
Division 2	SITE WORK AND PREPARATION
Division 3	CONCRETE WORK
Division 4	MASONRY
Division 5	METALS
Division 6	WOOD, PLASTICS AND COMPOSITES
Division 7	THERMAL AND MOISTURE PROTECTION
Division 8	OPENING AND WOODEN DOOR SCHEDULES
Division 9	FURNITURE - LIGHT PARTITION GYPSUM BOARD
Division 10	SPECIALITIES
PART 1a	**STRENGTHENING WORKS (Prepared by EDL)**
1	DEMOLITION AND REMOVAL OF HAZARDIOUS MATERIAL
2	CONCRETE WORKS
3	EXPANSION JOINTS & ANTI-CARBONATE PAINT
PART 2/3	**MECHANICAL WORKS**
Chapter 1	GENERAL TECHNICAL REQUIREMENTS
Chapter 2	BELOW GROUND DRAINAGE
Chapter 3	SANITARY, VENT, WASTE AND RAINWATER PIPEWORK INSTALLATION
Chapter 4	PIPED SYSTEMS (LIQUIDS)
Chapter 5	COMPRESSED AIR (NOT USED)
Chapter 6	FUEL OIL INSTALLATION
Chapter 7	GENERAL BOILER PLANT (NOT USED)
Chapter 8	AIR CONDITIONING AND VENTILATION INSTALLATION
Chapter 9	FIRE PROTECTION
Chapter 10	TREATMENT PLANT (NOT USED)
Chapter 11	THERMAL INSULATION AND IDENTIFICATION OF SERVICES
Chapter 12	AUTOMATIC CONTROLS AND MONITORING INSTALLATION
Chapter 13	CONTROL, INSTRUMENTATION & BUILDING MANAGEMENT SYSTEM (BMS)
Chapter 14	KITCHEN EQUIPMENT (NOT USED)
Chapter 15	LAUNDRY EQUIPMENT (NOT USED)
Chapter 16	SANITARY FIXTURES

PART 3/3 **ELECTRICAL WORKS**

Chapter 1 GENERTING POWER PLANT
Chapter 2 POWER TRANSFORMER
Chapter 3 UPS
Chapter 4 DISTRIBUTION BOARD AND CIRCUIT BREAKERS
Chapter 5 AUTOMATIC POWER FACTOR CORRECTION EQUIPMENT
Chapter 6 CABLES AND WIRES
Chapter 7 WIRING DEVICES, SWITCHES, SOCKETS, ETC
Chapter 8 LIGHTING INSTALLATION
Chapter 9 AFTER LIGHTING SYSTEM (NOT USED)
Chapter 10 MAIN EARTHING SYSTEM
Chapter 11 LIGHTING PROTECTION
Chapter 12 FIRE ALARM AND DETECTION
Chapter 13 DATA NETWORK
Chapter 14 TELEPHONE AND PABX IP TELEPHONE SYSTEM
Chapter 15 IP CCTV SYSTEM
Chapter 16 IPTV SYSTEM
Chapter 17 IP ACCESS CONTROL SYSTEM
Chapter 18 PUBLIC ADDRESS/SYSTEM
Chapter 19 SOLAR SYSTEM
Chapter 20 CLOCK SYSTEM
Chapter 21 ELEVATORS

GENERAL PREAMBLE

SPECIFICATIONS

The Works as shown on the Drawings and described in the Bill of Quantities shall be executed and completed fully in accordance with the provisions and the requirements contained in Volume 2 - Specifications.

DRAWINGS

The Drawings pertaining to the Works are identified and listed hereunder and they are to be read and construed in conjunction with Volume 1 - Conditions of Contract and General Requirements, Volume 2 - Specifications, and this Volume 3 - Bill of Quantities.

The Contractor's attention is drawn to the necessity for all dimensions and elevations shown on the Drawings to be physically checked and co-ordinated on the Site prior to the setting out of works, during the progress of works and prior to ordering, purchasing or manufacturing of installed components and equipment. The Contractor shall be deemed to have made due allowance in his Bid for identifying and resolving any such dimensional discrepancies which may arise.

The Drawings are as numbered and listed on Drawing A100, entitled 'List of Drawings'.

BILL OF QUANTITIES

Symbols and Abbreviations

The following symbols and abbreviations, where used in this Bill of Quantities, have the following meanings:

m	=	linear metre
m2	=	square metre
m3	=	cubic metre
cm	=	centimetre
mm	=	millimetre
Nr or No	=	number
kg	=	kilogramme
T	=	tonne
"	=	inches
Item	=	lump sum amount
%	=	percentage
Qty	=	quantity
Drg or Dwg	=	Drawing

Generally

The Bill of Quantities are to be read in conjunction with Volume 1 - Conditions of Contract and General Requirements, Volume 2 – Specifications, the Drawings, and these Preambles, all of which shall be taken as being mutually explanatory to each other, and construed accordingly.

The Works have been measured in accordance with the descriptions and notes described in the Bill of Quantities, which shall apply equally to both proposed andexecuted Works.

The Contractor shall not rely upon the descriptions, the dimensions therein, nor the quantities given in the Bill of Quantities for the purpose of ordering, purchasing or manufacturing of any materials, components or equipment.

The Contractor is required to provide with his Bid, in accordance with the requirements prescribed in the Bidding Documents, a detailed analysis of all unit rates and prices inserted in the Bills of Quantities. This shall include a break down of each unit rate and price, showing the allocation of cost for labour, materials, plant, equipment and other charges. The Employer or the Engineer shall have the right, and the Contractor shall provide if so requested, a further analysis of any or all unit rates and prices, including a detailed breakdown of "other charges".

Descriptions

The descriptions of the work items as set out in the Bill of Quantities are approximations only and are not necessarily, nor are they to be taken as the precise and complete descriptions of work to be performed by the Contractor in the execution and completion of the Works, and in fulfillment of his obligations under the Contract.

Headings and sub-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 and sub-headings apply.

The general and detailed requirements of the Specification are not repeated in the descriptions of the items in the Bill of Quantities, other than cross-referencing for the purposes of identification.

Where work cannot be fully ascertained or accurately described, or where the quantity of work required cannot be determined it is denoted as ‘PROVISIONAL’. Such work is to be carried out only in accordance with the instructions of the Engineer and may, if the Engineer so decides, be omitted entirely.

The term EXTRA means that work so described involves extra cost over the basic work in which it occurs. No deduction of the basic quantity is made in respect of the extra work so described.

Quantities

The quantities set out in the Bill of Quantities are estimated quantities only and they are not to be taken as the actual and correct quantities of work to be performed by the Contractor in the execution and completion of the Works, nor are they intended to limit the amount of work to be performed under the Contract. Upon completion, all work will be re-measured in accordance with the Contract, following the descriptions and notes contained in the Bill of Quantities and these Preambles.

Works are measured net as fixed in position except where otherwise stated in a measurement note applicable to the work. Excavation and earthwork in particular, are measured on the basis of net volumes required to accommodate only the Permanent Works as shown on Drawings, without allowance for any additional volume requirements for working space, supporting sides, battering of sides, bulking of volumes and the like, etc.

Quantities as measured are given to the nearest whole unit, except that any quantity less than one unit is given as one unit.

Pricing

The Contractor shall be deemed to have fully checked the descriptions and quantities contained in the Bill of Quantities against the Drawings and Specifications to ensure that the unit rates and prices inserted by him in his Bid, include for the full cost of executing and completing the work described, including for all ancillaries and associated works which are indicated or reasonably inferred from the Drawings and Specifications and necessarily required for the proper and timely execution and completion of the Works in accordance with the Contract.

Unit rates and prices inserted in the Bill of Quantities shall be fixed and, except as provided for in the Contract not subject to adjustment, in respect of any rise or fall in the cost to the Contractor of undertaking, executing and completing the Works.

The cost of any items of work in the Bill of Quantities, for which no unit rate or price has been inserted by the Contractor, shall be deemed to be covered by and included in the other rates and prices inserted in the Bill of Quantities.

Unless otherwise stated, all costs necessarily incurred in complying with the provisions and requirements of the Conditions of Contract and General Requirements are deemed to be included with the works, as applicable. Unit rates and prices inserted by the Contractor against the work items in the Bill of Quantities, shall be deemed to cover for all such costs; including but not necessarily limited to the following, as applicable:

- on-site and off-site supervision and management,
- site administration and security,
- insurances, bonds and guarantees,

- water for the works,

- lighting and power for the works,

- temporary roads, hardstandings, crossings and the like,

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

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

- safety, health and welfare of workpeople, and of employees, users and occupants of existing buildings and facilities on the Site,

- 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,

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

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

- compliance with all other requirements, provisions, responsibilities and obligations contained in the Contract Documents.

- Temporary facilities for the Consultant / Engineer including Site offices - Furniture - Equipment.

Unless otherwise stated, all costs necessarily incurred in complying with the provisions and requirements of the Specifications and Drawings are deemed to be included with the work, as applicable. Unit rates and pricesinserted by the Contractor against the work items in the Bill of Quantities, shall be deemed to cover for all such costs; including but not necessarily limited to the following, as applicable:

- mobilisation: including bringing to and providing on Site, all Contractor’s Equipment and temporary works; carrying out enabling tasks and providing all temporary services necessary to commence and undertake the Works,

- labour and all costs in connection therewith,

- materials, products, equipment, goods, supplies and consumables, and all costs in connection therewith,

- Contractor’s Equipment, including but not limited to: plant, machinery, scaffolding, tools, vehicles and the like, and all costs in connection therewith,

- temporary works and all costs in connection therewith, including but not limited to: designing; preparing and submitting shop drawings; installing, maintaining, adapting, clearing away and making good as necessary,

- work at any location or depth,

- work in small or isolated quantities,

- curved, sloping, raking or battered work,

- cleaning and protection of all work,

- protection of all existing buildings and facilities, 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 ancillary work, which are indicated or reasonably inferred from the Specifications and/or Drawings, and which are necessary to perform and complete the work described,

- demobilising the Site upon completion of the Works, including but not limited to: removing from Site all Contractor's Equipment and temporary works materials, clearing and removing from the Site all Contractor's rubbish, debris and surplus materials, and reinstating and restoring the Site to its' original condition,

- establishment costs, overhead charges, profit and risk.

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BILL OF QUANTITIES

GENERAL SUMMARY

Part	Description	Amount (U.S $)
Part-1	Civil, Structural and Architectural Works From Summary	
Part-1a	Strengthening Works (Prepared by EDL) From Summary	
Part-2	Mechanical Engineering Services From Summary	
Part-3	Electrical Engineering Services and Passive IT Works From Summary	
	TOTAL	
	Deduct the Cost of all damaged elements (windows, steel, timbere, plastic, tiling, piping, cables, fixtures, all elements, … etc) (Refer to items in the Bill	
	TOTAL	
	ADD: - For any and all ancillary components and miscellaneous items of work which are shown, indicated, or reasonably inferred from the Drawings and Specifications, but which have not been included in the unit rates and prices inserted against the work items described in the Bill of Quantities to have a complete job.	
	- VAT (When applicable)	
	Rehabilitation of the EDL Building Beirut - Lebanon **TOTAL PRICE** **CARRIED TO FORM OF BID:**	

(Total Price in Words) U.S. DOLLARS:

PART 1
CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

REHABILITATION OF EDL CENTRAL BUILDING
MAR MICHAEL ROAD
BEIRUT – LEBANON

PART-1
CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	DIVISION 1 - GENERAL REQUIREMENTS				
1.1	Refer to Volume 2 Technical Specifications, Section 0, Book 1 of 1, Division 1, General Requirement (all sections).	L.S.	1.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	DIVISION 2 - SITE WORK AND PREPARATION				
2.1	**SITE PREPARATION**				
	Site Clearance				
2.1.1	Clear and prepare site areas generally, as required to enable and facilitate all new construction.	L.S.	1.00		
	Site Protection				
2.1.2	Protect, safeguard and support as necessary existing buildings, structures, facilities, site areas, site boudaries, fences, trees and planting, services and utilities; etc., which are to remain upon completion, from damage due to construction operations and activities Also complete protection on the four sides of the towers to prevent and falling item outside this protection	L.S.	1.00		
2.2	**DEMOLISHING**				
2.2.1	Demolishing and remove of debris; including H.C.B. walls, tiling floor and walls, etc... any demolishing works needed. The contractor shall remove the debris completely to any approved dumps.				
2.2.1.1	Demolition of damaged hollow-core concrete blocks and all types of concrete masonry units				
2.2.1.1.a	Damaged concrete masonry unit 8cm	m2	120.00		
2.2.1.1.b	Damaged concrete masonry unit 10cm	m2	8,700.00		
2.2.1.1.c	Damaged concrete masonry unit 15cm	m2	250.00		
2.2.1.1.d	Damaged concrete masonry unit 20cm	m2	700.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
2.2.1.2	Demolition of non-damaged block walls blocks and all type of concrte masonry units (temporaru walls)				
2.2.1.2.a	Non damaged concrete masonry unit 10cm	m2	360.00		
2.2.1.2.b	Non damaged concrete masonry unit 20cm	m2	260.00		
	The following items are for information only their cost to be deducted as stated in the Summary				
2.2.2	Demolition of Existing Light Partitions				
2.2.2.1	Aluminum Partition 737m2	m2			
2.2.2.2	Gypsum Partition 1620m2	m2			
2.2.2.3	Steel Partition 379m2	m2			
2.2.2.4	Wooden Partition 606m2	m2			
2.2.3	Demolition of existing damaged steel frame floor slab on Level 6 (560m2)	m2			
2.2.4	Demolition of all glazed aluminum panels and the removal of the debris 1.00	L.S.			
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
2.3	**EXISTING ROADWAY**				
2.3.1	Repair the existing roadway at project site boundary as shown on drawing; 5cm thick asphalt surfacing, 25cm thick sub bases courses, 20cm thick bases courses, etc., as necessary, where damaged or disturbed by new construction; make good and joint at junction with new asphalt paving and/or precast concrete curbing as shown on drawing and to Engineer's approval.	L.S.	1.00		
2.4	**EXISTING WALKWAYS**				
2.4.1	Repair existing walkways all around the lot from all sides at project site boundary: precast concrete paver tiles, bases courses, etc., as necessary, where damaged or disturbed by new construction; make good and joint at junction with new precast concrete paving and/or curbing as required and to Engineer's approval.	L.S.	1.00		
2.5	**PLANTING**				
2.5.1	Supply and plant new trees vertical/Conical trees as per drawings not less than 15 cmm in perimeter tree trunk and height min 200 cm Location as specified on drawings, works to include: - Excavation of 100cm diameter and 100 cm depth - Removal of the ploughed materials in preparation of agricultural works	No	3.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
2.5.2	Agricultural Works: Rehabilitate all flower beds and the refreshment of all trees in addition to the suitable soil to the flower bed and the planting of trees according to the drawings (i.e. A-C-122) and specifications as per the Engineer's instructions Works to include: - Rehabilitate of all beds - Reparation of damaged parts - Provision of good agriculture soil - Trimal trees by Professional	Item	1.00		
2.6	**<u>Rehabilitation of the Site Fence</u>**				
2.6.1	<u>Rehabilitate Existing Fence</u> Restore the entire existing Site fence by the means of rehabilitation, overhaul, repairations, patching , improvement of existing fence facades and components, including finishes as necessary, required, as indicated, specified, and approved by the Engineer				
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection Works to include: Rehabilitate, add, or replace elements simlar to existing fence with upper steel elements and support all the existing fence as per drawings Reconstruct the broken and damaged parts and rehabilitate as it was with all similar materials including steel parts with related epoxy paint as per the engineer instructions Replace the Damaged Parts, that may include steel supports, plates, fixations… etc Rehabilitate exisitng steel protection (Replace all damaged part by new similar to existing and paint with epoxy as specified) All needed parts as per the engineer instructions and Specification Rub then paint epoxy with base paint the required areas of the fence The Contractor is responsible for the preparation of shop drawings, preparation on actual site drawings with levels, determining the places that requires support, replacement of all broken elements, redoing of all damaged elements and to be similar to existing, finishing works as existing Installation of new external steel fence elements similar to existing at the site limits as per specification and the design drawings, works to include: steel fence with related supports, accessories, horizontal and vertical steel channels, tubes, chamfering, weldings, galvanized steel parts, barbed wires… etc				
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection steel gates with all related supports and accessories Works to include all concrete works, steel works, accessories, fixations, hollow block works, plaster, and paint, insulation works, epoxy paint of fence and gate, replacing the damaged parts all necessary works required to finish internal and external surfaces, labors, equipment and materials to carry out the tasks as per the drawings, technical specifications and the Engineer's instructions.	L.M.	440.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	DIVISION 3 - CONCRETE WORKS				
3.1	**SUN BREAKERS** Cost of all concrete and additive accessories stated in Specifications and Drawings are included in the Cost of the Item				
3.1.1	**PRECAST HORIZONTAL LOUVERS**				
3.1.1.1	Prepare and install after the removal of all broken horizontal louver similar to the existing	L.M.	85.00		
3.1.2	**PRECAST VERTICAL LOUVERS**				
3.1.2.1	Prepare and install after the removal of all broken horizontal louver similar to the existing	L.M.	40.00		
3.1.3	**REMOVAL OF ALL PARTIALLY DAMAGED LOUVERS**				
3.1.3.1	Rehabilitate all existing horizontal and vertical louver on all sides (of the louver) and paint to look similar to existing	L.S.	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
3.2	**EPOXY DOWELS** Provide, drill for Epoxy dowels, size, type shape and length of steel anchor shall be as described and shown on drawings. Epoxy Adhesive shall be two component liquid epoxy specially suited for similar epoxy anchor application. Works shall include drilling of holes to diameters as recommended and proven suitable by the manufacturer. Calculation shall be submitted to the Engineer prior to execution. For installation procedures refer to Contract's specifications.				
3.2.1	Provide shear connector Ø 16mm for the exit stairs length 25 cm with their steel plates	No	540.00		
3.2.2	Cut in the existing concrete wall at the east and west facades for exit doors and make good without any disturbancy to the façade with all needed safety measures	No	24.00		
3.3	**Precast Concrete Pavements AND Curbs**				
3.3.1	**WHEEL STOPPER** Supply new fairfaced precast concrete wheel stopper as per specifications; work to include: - Labor, material and equipments - Curb, fill and mortar - Casting concrete behind wheel stopper - All works required as per specifications and Engineer's instructions	No	217.00		
3.3.2	**Curbs** Curbs; 200mm x 250mm high; include for curves, drops and other special shaped curbs as indicated or required	L.m.	220.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	DIVISION 4 - MASONRY				
4.1	**UNIT MASONRY** Hollow concrete unit masonry as specified and detailed, installed complete; INCLUDING for joint and steel ladder reinforcement, grout filled cells, wall ties and anchors; cutting. bonding and forming openings; precast or cast in place concrete lintels and cills; closures, control joints and weepholes; and all other related ancillaries as indicated or required. Walls and partitions:				
4.1.2	100mm thick	m2	8,200.00		
4.1.3	150mm thick	m2	450.00		
4.1.4	200mm thick	m2	1,900.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
4.2	**STONEWORK AND MARBLE** Exterior stone or marble and stonework as specified and detailed, installed complete; wet fixation (cement, sand method); INCLUDING for substrate preparation; anchors, dowels, supports and fixings; rebates, grooves, chamfers and the like; setting, jointing, grouting and finishing; trim and accessories; and all other related ancillaries as indicated or required				
4.2.1	**Marble Treshold Tile** Supply and install marble thresholds tiles units, first choice, polished finish.				
4.2.1.1	3 cm thick, 15 cm width	m	72.00		
4.2.1.2	3 cm thick, 16 cm width	m	6.00		
4.2.1.3	3 cm thick, 20 cm width	m	3.00		
4.2.1.4	3 cm thick, 25 cm width	m	7.00		
4.3	**Marble Urinal Partition** Supply and install 4 cm thick carrara marble urinal partition with 40 x 40 x 4mm chrome plate brass clip 5cm long and all the required works	No	40.00		
4.4	**Marble Coping** Supply and install first choice marble carrara marble coping above wall-hung toilet seat wall 180 mm wide	m	119.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	DIVISION 5 - METALS				
5.1	**METAL FABRICATIONS** Metalwork components and assemblies as specified and detailed, fabricated and installed complete; INCLUDING for supports, brackets, anchorages, escutcheon ring, grout fixings and fasteners; hardware, accessories, trim and finishing, including anti corrosion coating finish painting; and all other related ancillaries as indicated or required Also include 3 layers of anti dust epoxy paint				
5.1.1	**Security Doors and Windows as shown on drawings** Steel, burglar proof, security door, window panel and fixed anti-dust steel louvres. louvre unit assemblies; fabricated and installed complete; INCLUDING for frames, hardware, operating devices, thresholds, trim and accessories. Refer to Drawing Note: 1- The cost of steel louvres to be included in door cost. 2- The cost of lock, hinges and handle to be included in the cost of the door. 3- the contractor should submit details shop drawing with all necessary accessories and ways of fixation to the approval of the architect and all needed items				
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
5.1.1.1	s01 - double leaf side hinged steel door (373x360cm)	No	1		
5.1.1.2	s02 - double leaf side hinged uneven steel door (for fan rooms) (130x220cm)	No	3		
5.1.1.3	s03 - new double leaf side hinged steel louver door galvanized steel louvers 25*3mm (403x240cm)	No	2		
5.1.1.4	s04 - double leaf side hinged steel door with upper and lower anti-dust steel louvers galvanized steel louvers 25*3mm (190x220cm)	No	5		
5.1.1.5	s05 - double leaf side hinged steel door with upper and lower anti-dust steel louvers galvanized steel louvers 25*3mm (150x240cm)	No	2		
5.1.1.6	s06 - double leaf side hinged steel door with upper and lower anti-dust steel louvers galvanized steel louvers 25*3mm (170x240cm)	No	1		
5.1.1.7	s07 - galvanized steel rolling shutter 3mm thick louver (300x240cm)	No	1		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
5.1.1.8	s08 - single leaf side hinged steel door with upper and lower anti-dust steel louvers galvanized steel louvers 25*3mm (90x240cm)	No	17		
5.1.1.9	s09 - double leaf side hinged steel door with upper and lower anti-dust steel louvers galvanized steel louvers 25*3mm (260x240cm)	No	1		
5.1.1.10	s10 - top rail sliding steel door with upper & lower anti-dust steel louvers (405x250cm)	No	1		
5.1.1.11	s11 - double leaf side hinged steel door with upper and lower anti-dust steel louvers galvanized steel louvers 25*3mm (180x240cm)	No	2		
5.1.1.12	s12 - single leaf side hinged steel door with upper and lower anti-dust steel louvers galvanized steel louvers 25*3mm (105x240cm)	No	4		
5.1.1.13	s13 - wall & floor mounted steel ladder (80x50cm)	No	1		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
5.1.1.14	s14 - double leaf side hinged steel door with upper & lower anti-dust steel louvers (210x240cm)	No	4		
5.1.1.15	s15 - single leaf side hinged steel door with upper and lower steel louvres galvanized steel louvers 25*3mm (80x240cm)	No	1		
5.1.1.16	s16 - rolling shutter steel panel (376x240cm)	No	3		
5.1.1.17	s17 - rolling shutter steel panel (454x240cm)	No	2		
5.1.1.18	s18 - rolling shutter steel panel (433x240cm)	No	1		
5.1.1.19	s19 - rolling shutter steel panel (433x240cm)	No	1		
5.1.1.20	s20 - double leaf side hinged steel with upper & lower steel louvers galvanized steel louvers 25*3mm (170x220cm)	No	3		
5.1.1.21	s21 - single leaf side hinged steel door with upper and lower steel louvres galvanized steel louvers 25*3mm (90x220cm)	No	6		
5.1.1.21a	s22 - double leaf side hinged steel with upper & lower steel louvers galvanized steel louvers 25*3mm (3000x220cm)	No	1		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
5.1.2	**Attic**				
	Supply and install the steel structure attic (level 6), includers plates, columns, beams, rafters, corrugated sheets, reinforced steel slab, similar to existing and as shown on drawings Attic works to include: - Check the steel columns/beams rafter and supply calculation - Change any defected member of the above - Provide any addition of steel reinforcement to ensure the proper design and to be approved by the Engineer - Change completely the steel floor and the floor finishing - Apply new floor finishing same to the existing - Rehabilitation all the handrails and stairs (trades + risers) - Provide any additional works needed for this attic and stairs - Supply and install gypsum partition for the attic (level 6) (low & high) to include doors, glass, ceiling and including application of paint, the item shall also include all necessary accessories stainless steel struts and fixing	m2	535.00		
5.1.3	**Metal Handrail**				
	Supply and install the steel fire escape stairs at the west and east side of the tower, complete as shown and detailed on drawings Cost to include: - Labour, material, protection, paint, fixation, testing and commissioning, handrails The Contractor should submit complete shop drawings and calculations for approval before manufacturing				
5.1.3.1	Stair 1	Item	1.00		
5.1.3.2	Stair 2	Item	1.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	DIVISION 6 - WOOD, PLASTICS AND COMPOSITES				
6.1	**ROUGH CARPENTRY** Composite counter units complete; plastic laminate faced blockboard and hardwood construction generally; including masonry backing and support walls, finishings and decoration; plinths, subframing; drawer units, shelves units, cabinet doors, etc. as shown on drawings				
6.1.1	Kitchen Counter 1-141b (160 x 60cm)	No	1.00		
6.1.2	Kitchen Counter 2-106 (105 x 60cm)	No	1.00		
6.1.3	Kitchen Counter 3-112 (300 x 60cm)	No	1.00		
6.1.4	Kitchen Counter 3-197 (300 x 60cm)	No	1.00		
6.1.5	Kitchen Counter 5-117 (160 x 60cm)	No	1.00		
6.1.6	Kitchen Counter 7-107 (300 x 60cm)	No	1.00		
6.1.7	Kitchen Counter 7-146 (170 x 60cm)	No	1.00		
6.1.8	Kitchen Counter L-Shape 228 x 60cm and 60 x 60cm For Kitchens: 10-117, 11-112, 12-117, 13-117, 14-117, 15-117, 16-117, 17-118, 18-117, 19-117, 20-119, 21-117, 22-117, 23-119	No	14.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
6.2	**HPL PARTITION** Supply and install high pressure laminate partitions (HPL) as per drawings and specifications works to include: - Shop drawings and details - Materials - Labors - All accessories (locks, hinges, … etc) - Special supports and hangers shall be heavy duty satin anodized aluminum - Stainless steel screws - All needed items as instructed by the Engineer	m2	263.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	DIVISION 7 - THERMAL AND MOISTURE PROTECTION				
7.1	**MEMBRANE ROOFING** SBS modified bituminous membrane roofing and deck assemblies as specified and detailed, installed in according to manufacturer instructions; INCLUDING for substrate preparation, primers, bonders, beds, fasteners and fixings; jointing and finishing; and all other related ancillaries as indicated or required with the necessary insulation and tiling as shown on drawing complete to be measured by square meter Roofing Type 2				
7.1.1	Tower Remove the existing built up proofing and put aside the existing gravel - Rehabilitate the existing screed laid to fall and make sure of its slopes - Apply double layer of modified bituminous membrane 4mm thick SBS - apply 5cm thick polyestyrene boards of 35 kg/m3 as thermal insulation - apply heavy duty geotextile layer - apply cement mortar bed - apply the gathered gravel - apply where needed dry cement tiles 40 x 40 cm at the passages for PV panels Cost to include all flashings and accessories	m2	1,005.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
7.1.2	Roof for the Lower Floors Remove the existing built up proofing - Rehabilitate the existing screed laid to fall and make sure of its slopes - Apply double layer of modified bituminous membrane 4mm thick SBS - apply 5vm thick polyestyrene boards of 35 kg/m3 as thermal insulation - apply heavy duty geotextile layer - apply tiling as shown on drawings rub and clean Cost to include all flashings and accessories	m2	5,770.00		
7.2	**EXPANSION JOINTS** **(Included in Part 1a in BOQ)**				
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
7.3	**THERMAL AND SOUND INSULATION** Thermal insulation as specified complete with identification, all mastics, adhesive, mechanical fixings, final coverings and protective and decorative finishes (Rockwool insulation and jacketing, thickness 75mm and Density 60kg/m3 The sound level at 2 m from sides of the generator should not exceed 70 DB Cost to include the concrete pads and all requested isolation as shown on drawings and the isolated doors and all openings **For Generator**				
7.3.1	Acoustic insulation for generators (Walls and Ceilings)	m2	600.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	DIVISION 8 - OPENING AND WOODEN DOOR SCHEDULES **Price of Fire Rated Doors and Frames shall be deemed to include in the price.**				
8.1	**METAL DOOR FRAMES FOR ALL DOORS AT THE LOWER PART FROM LEVEL 1 TO LEVEL 8** Pressed steel profile door frames as specified and detailed; fabricated, supplied and installed completely to suit individual door dimensions stated and various wall thicknesses indicated ; INCLUDING for supports, anchors, grout filling everywhere and behind the door frames, fasteners and fixings; protective coatings, sealants and finish painting powder coated; and all other related ancillaries as indicated or required to the consent of the engineer and to his approval. (Refer to drawing) Non-Rated Door Frames				
8.1.1	For single leaf door	No	395.00		
8.1.2	For double leaf door	No	32.00		
	One Hour Fire Rated Door Frame				
8.1.3	For single leaf door	No	61.00		
8.1.4	For double leaf door	No	4.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.2	**METAL DOOR FRAME FROM LEVEL 10TH TO LEVEL 23RD** Pressed steel profile door frames as specified and as detailed fabricated, supply and install completely to soil individual door dimensions stated and various wall thickness indicated including for supports, anchors, grout fitting fasteners and fixings, protection coating, sealants and finish painting and all other related ancillaries as indicated or required to the consent of the Engineer and to his approval (Refer to drawings)				
8.2.1	For single leaf door frame	No	340.00		
8.2.2	For double leaf door frame	No	46.00		
8.2.3	60 minutes fire rated door frame	No	135.00		
8.3	**WOOD DOOR FRAME (N/A)**				
8.4	**WOOD DOORS** Plastic laminate faced wood doors as specified, detailed and scheduled, installed complete; INCLUDING for door hardware sets; glass vision panels, and aluminium louvres; linings, edges, trim and accessories; intemescent strip; prefinishing or finish painting; and all other related ancillaries as indicated or required **Door Number**				
8.4.1	LEVEL 1				
8.4.1.1	1-111 Stair1 a	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.2	1-116 Control Office	No	1.00		
8.4.1.3	1-117 Store	No	1.00		
8.4.1.4	1-127a Store	No	1.00		
8.4.1.5	1-127b Stair 2	No	1.00		
8.4.1.6	1-119 Electrical Room	No	1.00		
8.4.1.7	1-109 Toilet	No	1.00		
8.4.1.8	1-133 J/C	No	1.00		
8.4.1.9	1-153 Electrical Room	No	1.00		
8.4.1.10	1-154 Stair	No	1.00		
8.4.1.11	1-139 Archives	No	1.00		
8.4.1.12	1-149 Room	No	1.00		
8.4.1.13	1-141g Toilets	No	1.00		
8.4.1.14	1-141 Toilets	No	1.00		
8.4.1.15	1-141a Store	No	1.00		
8.4.1.16	1-141b Kitchen	No	1.00		
8.4.1.17	1-141d J/C	No	1.00		
8.4.1.18	1-141e H/C Toilet	No	1.00		
8.4.1.19	1-141h Toilets	No	1.00		
8.4.1.20	1-141j Toilets	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.21	1-141k Toilets	No	1.00		
8.4.1.21a	1-152 Lobby	No	1.00		
8.4.1.21b	1-153a Sas	No	1.00		
8.4.1.21c	1-153aa Sas	No	1.00		
8.4.1.21d	1-161 Sas	No	1.00		
8.4.1.21e	1-162 Sas	No	1.00		
8.4.1.21f	1-162a Sas	No	1.00		
8.4.1.21g	1-165 Sas	No	1.00		
8.4.1.21h	1-165a Sas	No	1.00		
8.4.1.21i	1-167 Sas	No	1.00		
8.4.1.21j	1-167a Sas	No	1.00		
8.4.1.22	2-101 Stair	No	1.00		
8.4.1.23	2-106 Kitchen	No	1.00		
8.4.1.24	2-107 Toilets	No	1.00		
8.4.1.25	2-107a Toilets	No	1.00		
8.4.1.26	2-107b Toilets	No	1.00		
8.4.1.27	3-101 Office	No	1.00		
8.4.1.28	3-102 Waiting	No	1.00		
8.4.1.29	3-103 Lobby	No	1.00		
8.4.1.30	3-103a Lobby	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.31	3-104 Office	No	1.00		
8.4.1.32	3-105 Office	No	1.00		
8.4.1.33	3-105a Toilet	No	1.00		
8.4.1.34	3-105b Desk	No	1.00		
8.4.1.35	3-105d Director Office	No	1.00		
8.4.1.36	3-105e Lobby	No	1.00		
8.4.1.37	3-105f Office	No	1.00		
8.4.1.38	3-106 Office	No	1.00		
8.4.1.39	3-107 Office	No	1.00		
8.4.1.40	3-108 Office	No	1.00		
8.4.1.41	3-108a Lobby	No	1.00		
8.4.1.42	3-108b Office	No	1.00		
8.4.1.43	3-108c Office	No	1.00		
8.4.1.44	3-109 Office	No	1.00		
8.4.1.45	3-110 Office	No	1.00		
8.4.1.45a	3-111a Sas	No	1.00		
8.4.1.45b	3-111ab Sas	No	1.00		
8.4.1.46	3-112 Kitchen	No	1.00		
8.4.1.47	3-112a Lobby	No	1.00		
8.4.1.48	3-113 Secretary	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.49	3-113a Office	No	1.00		
8.4.1.50	3-114 Toilet	No	1.00		
8.4.1.51	3-114a Toilet	No	1.00		
8.4.1.52	3-114b Toilet	No	1.00		
8.4.1.53	3-114c Toilet	No	1.00		
8.4.1.54	3-115 Toilet	No	1.00		
8.4.1.55	3-115a Toilet	No	1.00		
8.4.1.56	3-115b Toilet	No	1.00		
8.4.1.57	3-115c Toilet	No	1.00		
8.4.1.58	3-115d Toilet	No	1.00		
8.4.1.59	3-116 Work Shop	No	1.00		
8.4.1.59a	3-116a Sas	No	1.00		
8.4.1.59b	3-116aa Sas	No	1.00		
8.4.1.60	3-117 Room	No	1.00		
8.4.1.61	3-117a Room	No	1.00		
8.4.1.62	3-118 Electrical Room	No	1.00		
8.4.1.62a	3-118a Elect/R	No	1.00		
8.4.1.63	3-120a J/C	No	1.00		
8.4.1.64	3-120b Stair 1	No	1.00		
8.4.1.65	3-121 Store	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.66	3-121a Store	No	1.00		
8.4.1.67	3-122 Office	No	1.00		
8.4.1.68	3-122a Office	No	1.00		
8.4.1.69	3-123 Office	No	1.00		
8.4.1.70	3-123a Office	No	1.00		
8.4.1.71	3-124 Office	No	1.00		
8.4.1.72	3-124a Office	No	1.00		
8.4.1.73	3-125 Office	No	1.00		
8.4.1.74	3-125a Office	No	1.00		
8.4.1.75	3-126 Office	No	1.00		
8.4.1.76	3-126a Office	No	1.00		
8.4.1.77	3-127 Office	No	1.00		
8.4.1.78	3-127a Office	No	1.00		
8.4.1.79	3-128 Office	No	1.00		
8.4.1.80	3-128a Office	No	1.00		
8.4.1.81	3-129 Office	No	1.00		
8.4.1.82	3-129a Office	No	1.00		
8.4.1.83	3-129b Office	No	1.00		
8.4.1.84	3-130 Store	No	1.00		
8.4.1.85	3-131 Office	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.86	3-133 Office	No	1.00		
8.4.1.87	3-134 Office	No	1.00		
8.4.1.88	3-136 lobby	No	1.00		
8.4.1.89	3-137 Office	No	1.00		
8.4.1.90	3-138 Office	No	1.00		
8.4.1.91	3-138a Office	No	1.00		
8.4.1.92	3-139 Office	No	1.00		
8.4.1.92a	3-140 Sas	No	1.00		
8.4.1.92b	3-140a Sas	No	1.00		
8.4.1.92c	3-142 Sas	No	1.00		
8.4.1.92d	3-142a Sas	No	1.00		
8.4.1.93	3-144 Lobby	No	1.00		
8.4.1.94	3-144a Electrical Room	No	1.00		
8.4.1.95	3-148 Office	No	1.00		
8.4.1.96	3-149 Corridor	No	1.00		
8.4.1.97	3-150 Office	No	1.00		
8.4.1.98	3-150a Office	No	1.00		
8.4.1.99	3-151 Office	No	1.00		
8.4.1.100	3-151a Office	No	1.00		
8.4.1.101	3-152 Office	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.102	3-152a Office	No	1.00		
8.4.1.103	3-153 Office	No	1.00		
8.4.1.104	3-153a Office	No	1.00		
8.4.1.105	3-154 Office	No	1.00		
8.4.1.106	3-154a Office	No	1.00		
8.4.1.107	3-155 Store	No	1.00		
8.4.1.108	3-155a Store	No	1.00		
8.4.1.109	3-156 Office	No	1.00		
8.4.1.110	3-156a Office	No	1.00		
8.4.1.111	3-157 Office	No	1.00		
8.4.1.112	3-157a Office	No	1.00		
8.4.1.113	3-158 Office	No	1.00		
8.4.1.114	3-159 Store	No	1.00		
8.4.1.115	3-160 Store	No	1.00		
8.4.1.116	3-160a Store	No	1.00		
8.4.1.117	3-161 Store	No	1.00		
8.4.1.118	3-161a Store	No	1.00		
8.4.1.119	3-162 Store	No	1.00		
8.4.1.120	3-163 Store	No	1.00		
8.4.1.121	3-164a Toilet	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.122	3-164b Toilet	No	1.00		
8.4.1.123	3-164c Toilet	No	1.00		
8.4.1.124	3-164d Toilet	No	1.00		
8.4.1.125	3-164e Toilet	No	1.00		
8.4.1.126	3-164aa Toilet	No	1.00		
8.4.1.127	3-164ab Toilet	No	1.00		
8.4.1.128	3-164ac Toilet	No	1.00		
8.4.1.129	3-164ad Toilet	No	1.00		
8.4.1.130	3-164ae Toilet	No	1.00		
8.4.1.131	3-165a Corridor	No	1.00		
8.4.1.132	3-165a LC Room	No	1.00		
8.4.1.133	3-165b Corridor	No	1.00		
8.4.1.134	3-166 Office	No	1.00		
8.4.1.135	3-167 Store	No	1.00		
8.4.1.136	3-168 Store	No	1.00		
8.4.1.137	3-168a Store	No	1.00		
8.4.1.138	3-168b Store	No	1.00		
8.4.1.139	3-169 Store	No	1.00		
8.4.1.140	3-176 Toilet	No	1.00		
8.4.1.141	3-176a Toilet	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.142	3-176b Toilet	No	1.00		
8.4.1.143	3-177a Toilet	No	1.00		
8.4.1.144	3-177b Toilet	No	1.00		
8.4.1.145	3-177c Toilet	No	1.00		
8.4.1.146	3-182 Lobby	No	1.00		
8.4.1.147	3-182a Toilet	No	1.00		
8.4.1.148	3-182b Toilet	No	1.00		
8.4.1.149	3-182c Toilet	No	1.00		
8.4.1.149a	3-184a Sas	No	1.00		
8.4.1.149b	3-184aa Sas	No	1.00		
8.4.1.150	3-189 Stair 4	No	1.00		
8.4.1.151	3-191 Electrical Room	No	1.00		
8.4.1.152	3-191a Electrical Room	No	1.00		
8.4.1.153	3-192 office	No	1.00		
8.4.1.154	3-193 Lobby	No	1.00		
8.4.1.155	3-193a Lobby	No	1.00		
8.4.1.156	3-193aa Corridor	No	1.00		
8.4.1.156a	3-194a Sas	No	1.00		
8.4.1.156b	3-194aa Sas	No	1.00		
8.4.1.157	3-195 Office	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.158	3-195a Office	No	1.00		
8.4.1.159	3-195b Central	No	1.00		
8.4.1.160	3-195d Office	No	1.00		
8.4.1.161	3-196 Workshop	No	1.00		
8.4.1.162	3-197 Kitchen	No	1.00		
8.4.1.163	3-198 Store	No	1.00		
8.4.1.164	3-199 Toilet	No	1.00		
8.4.1.165	3-200 Head Office	No	1.00		
8.4.1.166	3-200a Office	No	1.00		
8.4.1.167	3-200aa Head Office	No	1.00		
8.4.1.168	3-201a Lobby	No	1.00		
8.4.1.169	3-201 Lobby	No	1.00		
8.4.1.169a	3-209 Sas	No	1.00		
8.4.1.169b	3-209a Sas	No	1.00		
8.4.1.169c	3-211 Sas	No	1.00		
8.4.1.169d	3-211a Sas	No	1.00		
8.4.1.169e	3-212 Sas	No	1.00		
8.4.1.169f	3-212a Sas	No	1.00		
8.4.1.169g	3-213 Sas	No	1.00		
8.4.1.170	4-101 Rest	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.171	4-102 Store	No	1.00		
8.4.1.172	4-104 Store	No	1.00		
8.4.1.173	4-105 Store	No	1.00		
8.4.1.174	4-106 Store	No	1.00		
8.4.1.175	4-108 Store	No	1.00		
8.4.1.176	4-109 Stair	No	1.00		
8.4.1.177	4-109a Stair	No	1.00		
8.4.1.178	4-115 Racks Room	No	1.00		
8.4.1.179	4-115a Control Room	No	1.00		
8.4.1.180	4-118 Archives	No	1.00		
8.4.1.181	4-121 Stair 1	No	1.00		
8.4.1.181a	4-122 Sas	No	1.00		
8.4.1.181b	4-122a Sas	No	1.00		
8.4.1.181c	4-124 Sas	No	1.00		
8.4.1.181d	4-124a Sas	No	1.00		
8.4.1.181e	4-125 Sas	No	1.00		
8.4.1.182	5-103 Office	No	1.00		
8.4.1.183	5-104 Office	No	1.00		
8.4.1.184	5-105 Office	No	1.00		
8.4.1.185	5-106 Office	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.186	5-107 Office	No	1.00		
8.4.1.187	5-108 Office	No	1.00		
8.4.1.188	5-108a Office	No	1.00		
8.4.1.189	5-109 Office	No	1.00		
8.4.1.190	5-110 Office	No	1.00		
8.4.1.191	5-111 Office	No	1.00		
8.4.1.192	5-112 Corridor	No	1.00		
8.4.1.193	5-113 Office	No	1.00		
8.4.1.194	5-114 Office	No	1.00		
8.4.1.195	5-115 Toilet	No	1.00		
8.4.1.196	5-115a Toilet	No	1.00		
8.4.1.197	5-115b Toilet	No	1.00		
8.4.1.198	5-116 Toilet	No	1.00		
8.4.1.199	5-117 Lobby	No	1.00		
8.4.1.199a	5-117a Corridor	No	1.00		
8.4.1.200	5-118 Office	No	1.00		
8.4.1.201	5-118a Office	No	1.00		
8.4.1.202	5-120 Lobby	No	1.00		
8.4.1.203	5-121 Toilet	No	1.00		
8.4.1.204	5-121a Toilet	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.205	5-122 Office	No	1.00		
8.4.1.206	5-122a Office	No	1.00		
8.4.1.207	5-124 Lobby	No	1.00		
8.4.1.208	5-124a LC Room	No	1.00		
8.4.1.209	5-124b Lobby	No	1.00		
8.4.1.210	5-127 Corridor	No	1.00		
8.4.1.211	5-130 Office	No	1.00		
8.4.1.212	5-131 Office	No	1.00		
8.4.1.213	5-131a Office	No	1.00		
8.4.1.214	5-132 Corridor	No	1.00		
8.4.1.215	5-133 Office	No	1.00		
8.4.1.216	5-134 Office	No	1.00		
8.4.1.217	5-135 Office	No	1.00		
8.4.1.218	5-136 Office	No	1.00		
8.4.1.219	5-137 Office	No	1.00		
8.4.1.220	5-138 LC Room	No	1.00		
8.4.1.221	5-139 Office	No	1.00		
8.4.1.222	5-140 Store	No	1.00		
8.4.1.223	5-141 Data Entry Office	No	1.00		
8.4.1.224	5-142 Office	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.225	5-143 Lab	No	1.00		
8.4.1.225a	5-144 Corridor	No	1.00		
8.4.1.226	5-145 Office	No	1.00		
8.4.1.227	5-146 Lab	No	1.00		
8.4.1.228	5-147 Office	No	1.00		
8.4.1.229	5-148 Office	No	1.00		
8.4.1.230	5-149 Room	No	1.00		
8.4.1.231	5-150 Corridor	No	1.00		
8.4.1.232	5-153a Stair 2	No	1.00		
8.4.1.233	5-153 Corridor	No	1.00		
8.4.1.234	5-155 Toilet	No	1.00		
8.4.1.235	5-155a Toilet	No	1.00		
8.4.1.236	5-155b Toilet	No	1.00		
8.4.1.237	5-156 Office	No	1.00		
8.4.1.238	5-158 Office	No	1.00		
8.4.1.239	5-159 Office	No	1.00		
8.4.1.240	5-160 Office	No	1.00		
8.4.1.241	5-161 Office	No	1.00		
8.4.1.242	5-161a Office	No	1.00		
8.4.1.243	5-161b Office	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.244	5-164 Office	No	1.00		
8.4.1.245	5-165 Office	No	1.00		
8.4.1.246	5-167 Office	No	1.00		
8.4.1.247	5-168 Office	No	1.00		
8.4.1.248	5-170 Operation	No	1.00		
8.4.1.249	5-170a Operation	No	1.00		
8.4.1.250	5-171 Secretary	No	1.00		
8.4.1.251	5-172 Pantry	No	1.00		
8.4.1.252	5-173 Archives	No	1.00		
8.4.1.253	5-175 Toilet	No	1.00		
8.4.1.254	5-175a Toilet	No	1.00		
8.4.1.255	5-175b Toilet	No	1.00		
8.4.1.256	5-176 Store	No	1.00		
8.4.1.257	5-177a Office	No	1.00		
8.4.1.258	5-178 Office	No	1.00		
8.4.1.259	5-179 Store	No	1.00		
8.4.1.260	5-180 Office	No	1.00		
8.4.1.261	5-180a Office	No	1.00		
8.4.1.262	5-181 Office	No	1.00		
8.4.1.263	5-182 Office	No	1.00		
8.4.1.264	5-185 Office	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.265	5-184 Lobby	No	1.00		
8.4.1.266	5-186 Lobby	No	1.00		
8.4.1.267	5-187 J/C	No	1.00		
8.4.1.268	5-188 Toilet	No	1.00		
8.4.1.269	5-188a Toilet	No	1.00		
8.4.1.270	5-188b Toilet	No	1.00		
8.4.1.271	5-189 Lobby	No	1.00		
8.4.1.272	5-189a Lobby (Toilets)	No	1.00		
8.4.1.273	5-189b Lobby (Toilets)	No	1.00		
8.4.1.274	5-190 Toilet	No	1.00		
8.4.1.275	5-190a Toilet	No	1.00		
8.4.1.276	5-190b Toilet	No	1.00		
8.4.1.277	5-191 Stair 9a	No	1.00		
8.4.1.278	5-195 Cafeteria	No	1.00		
8.4.1.279	5-196 Office	No	1.00		
8.4.1.280	5-197 Office	No	1.00		
8.4.1.281	5-198a Electrical Room	No	1.00		
8.4.1.282	5-204 Room	No	1.00		
8.4.1.283	5-205 Lobby	No	1.00		
8.4.1.284	5-205a Lobby	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.284a	5-205b Lobby	No	1.00		
8.4.1.284b	5-205c Lobby	No	1.00		
8.4.1.285	5-206 Service Duct	No	1.00		
8.4.1.286	5-207 Lockers Room	No	1.00		
8.4.1.287	5-208 Office	No	1.00		
8.4.1.288	5-209 Corridor	No	1.00		
8.4.1.289	5-210 Office	No	1.00		
8.4.1.290	5-211 Office	No	1.00		
8.4.1.291	5-212 Office	No	1.00		
8.4.1.292	5-213 Office	No	1.00		
8.4.1.293	5-216 Office	No	1.00		
8.4.1.294	5-217a Office	No	1.00		
8.4.1.295	5-223a Office	No	1.00		
8.4.1.296	5-216 Office	No	1.00		
8.4.1.269a	5-216a Office	No	1.00		
8.4.1.297	5-217 Office	No	1.00		
8.4.1.298	5-217a Office	No	1.00		
8.4.1.299	5-218 Office	No	1.00		
8.4.1.300	5-220 Corridor	No	1.00		
8.4.1.301	5-225 Store	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.302	5-226 Store	No	1.00		
8.4.1.303	5-220a Special Vault Door	No	1.00		
8.4.1.304	5-226b Store	No	1.00		
8.4.1.304a	5-226c Store	No	1.00		
8.4.1.305	5-270 Office	No	1.00		
8.4.1.306	5-271 Office	No	1.00		
8.4.1.307	5-272 Office	No	1.00		
8.4.1.308	5-273 Office	No	1.00		
8.4.1.309	5-273a Office	No	1.00		
8.4.1.310	5-231c Corridor	No	1.00		
8.4.1.311	5-234 Office	No	1.00		
8.4.1.312	5-236 Lobby	No	1.00		
8.4.1.313	5-237 Electrical Room	No	1.00		
8.4.1.314	5-239 Store	No	1.00		
8.4.1.315	5-240 LC Room	No	1.00		
8.4.1.316	5-242 Office	No	1.00		
8.4.1.317	5-242a Office	No	1.00		
8.4.1.318	5-243 Office	No	1.00		
8.4.1.319	5-245 Toilets	No	1.00		
8.4.1.320	5-245a Toilets	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.321	5-245b Toilets	No	1.00		
8.4.1.322	5-245c Toilets	No	1.00		
8.4.1.323	5-246 Toilets	No	1.00		
8.4.1.324	5-246a Toilet	No	1.00		
8.4.1.325	5-246b Toilet	No	1.00		
8.4.1.326	5-247 Office	No	1.00		
8.4.1.327	5-247a Office	No	1.00		
8.4.1.328	5-247b Office	No	1.00		
8.4.1.329	5-248 Office	No	1.00		
8.4.1.330	5-249 Toilets	No	1.00		
8.4.1.331	5-249a Toilets	No	1.00		
8.4.1.332	5-249b Toilets	No	1.00		
8.4.1.333	5-249c Toilets	No	1.00		
8.4.1.334	5-249d Toilets	No	1.00		
8.4.1.335	5-250 Office	No	1.00		
8.4.1.336	5-252 Office	No	1.00		
8.4.1.337	5-252a Office	No	1.00		
8.4.1.338	5-254 Toilets	No	1.00		
8.4.1.339	5-254a Toilets	No	1.00		
8.4.1.340	5-254b Toilets	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.341	5-254c Toilets	No	1.00		
8.4.1.342	5-255 Corridor	No	1.00		
8.4.1.343	5-256 Office	No	1.00		
8.4.1.344	5-266 Lobby	No	1.00		
8.4.1.344a	5-275 Sas	No	1.00		
8.4.1.344b	5-275a Sas	No	1.00		
8.4.1.344c	5-276 Sas	No	1.00		
8.4.1.344d	5-277 Stair 17	No	1.00		
8.4.1.345	6-101 Hall	No	1.00		
8.4.1.346	6-103 Office	No	1.00		
8.4.1.347	6-105 Office	No	1.00		
8.4.1.348	6-107 Office	No	1.00		
8.4.1.349	6-108 Office	No	1.00		
8.4.1.350	6-109 Hall	No	1.00		
8.4.1.351	6-109a Hall	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.352	6-120 Office	No	1.00		
8.4.1.353	6-121 Office	No	1.00		
8.4.1.354	6-123 Office	No	1.00		
8.4.1.355	6-124 Office	No	1.00		
8.4.1.356	6-125 Office	No	1.00		
8.4.1.357	6-129 Office	No	1.00		
8.4.1.358	6-130a Office	No	1.00		
8.4.1.359	6-131 Office	No	1.00		
8.4.1.360	6-132 Office	No	1.00		
8.4.1.361	6-133 Office	No	1.00		
8.4.1.362	7-104 Room	No	1.00		
8.4.1.363	7-105 Stair	No	1.00		
8.4.1.364	7-105a Electrical room	No	1.00		
8.4.1.364a	7-105b Lobby	No	1.00		
8.4.1.364b	7-105c Lobby	No	1.00		
8.4.1.365	7-106 Service Duct	No	1.00		
8.4.1.366	7-107 Kitchen	No	1.00		
8.4.1.367	7-108 Toilet	No	1.00		
8.4.1.368	7-108a Room	No	1.00		
8.4.1.369	7-116 Dist	No	1.00		
8.4.1.370	7-117 Store	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.371	7-118 Lobby	No	1.00		
8.4.1.372	7-119 Toilet	No	1.00		
8.4.1.373	7-120 Toilet	No	1.00		
8.4.1.373a	7-123 Store	No	1.00		
8.4.1.374	7-129 Stair 13	No	1.00		
8.4.1.375	7-129b E/C Room	No	1.00		
8.4.1.376	7-130 Office	No	1.00		
8.4.1.377	7-131 Office	No	1.00		
8.4.1.378	7-132 Office	No	1.00		
8.4.1.379	7-133 Office	No	1.00		
8.4.1.380	7-134 Office	No	1.00		
8.4.1.381	7-135 Office	No	1.00		
8.4.1.382	7-136 Office	No	1.00		
8.4.1.383	7-137 Corridor	No	1.00		
8.4.1.384	7-138 Office	No	1.00		
8.4.1.385	7-139 Office	No	1.00		
8.4.1.386	7-140 Office	No	1.00		
8.4.1.387	7-141 Secretary	No	1.00		
8.4.1.388	7-142 Secretary	No	1.00		
8.4.1.389	7-144 Lobby	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.390	7-144a Room	No	1.00		
8.4.1.391	7-145 Toilet	No	1.00		
8.4.1.392	7-145a Toilet	No	1.00		
8.4.1.393	7-145b Toilet	No	1.00		
8.4.1.394	7-146 Kitchen	No	1.00		
8.4.1.395	7-147 Office	No	1.00		
8.4.1.396	7-148 Secretary	No	1.00		
8.4.1.397	7-149 Office	No	1.00		
8.4.1.398	8-102 Service Duct	No	1.00		
8.4.1.398a	8-104 Store	No	1.00		
8.4.1.398b	8-104a Store	No	1.00		
8.4.1.398c	10-101 Stair 3	No	1.00		
8.4.1.398d	10-101a Sas	No	1.00		
8.4.1.398e	10-107 Reception	No	1.00		
8.4.1.399	10-108 Reception	No	0.00		
8.4.1.400	10-109 Corridor	No	1.00		
8.4.1.401	10-110 Kitchen	No	1.00		
8.4.1.402	10-111 J/C	No	1.00		
8.4.1.403	10-112 Shaft	No	1.00		
8.4.1.404	10-113 F. Toilet	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.405	10-113a Toilet	No	0.00		
8.4.1.406	10-113b Toilet	No	0.00		
8.4.1.407	10-114 H.d.	No	1.00		
8.4.1.408	10-115 M. Toilet	No	1.00		
8.4.1.409	10-115a Toilet	No	0.00		
8.4.1.410	10-115b Toilet	No	0.00		
8.4.1.411	10-116 L/C Room	No	1.00		
8.4.1.412	10-117 Electrical Room	No	1.00		
8.4.1.413	10-118 UPS	No	1.00		
8.4.1.414	10-120 Staff Closet	No	1.00		
8.4.1.415	10-121 Offices	No	1.00		
8.4.1.416	10-122 Offices	No	1.00		
8.4.1.417	10-124 Store	No	1.00		
8.4.1.417a	10-124a Store	No	1.00		
8.4.1.417b	10-124b Store	No	1.00		
8.4.1.417c	10-124c Sas	No	1.00		
8.4.1.418	10-125 Fire Stair (2)	No	1.00		
8.4.1.419	10-126 Open Space Offices	No	1.00		
8.4.1.420	10-127 Offices	No	1.00		
8.4.1.421	10-128 Offices	No	1.00		
8.4.1.422	10-129 Offices	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.423	10-130 Offices	No	1.00		
8.4.1.424	10-131 Offices	No	1.00		
8.4.1.425	10-134a Meeting Room	No	1.00		
8.4.1.426	10-134b Meeting Room	No	1.00		
8.4.1.427	10-135 Principal Director	No	1.00		
8.4.1.428	10-136 Fire Stair (1)	No	1.00		
8.4.1.429	10-138 Archives	No	1.00		
8.4.1.429a	10-139a Sas	No	1.00		
8.4.1.429b	11-101 Stair 3	No	1.00		
8.4.1.429c	11-101a Sas	No	1.00		
8.4.1.429d	11-107 Reception	No	1.00		
8.4.1.430	11-108 Reception	No	0.00		
8.4.1.431	11-109 Corridor	No	1.00		
8.4.1.432	11-110 Kitchen	No	1.00		
8.4.1.433	11-111 J/C	No	1.00		
8.4.1.434	11-112 Shaft	No	1.00		
8.4.1.435	11-113 F. Toilet	No	1.00		
8.4.1.436	11-113a Toilet	No	0.00		
8.4.1.437	11-113b Toilet	No	0.00		
8.4.1.438	11-114 H.d.	No	1.00		
8.4.1.439	11-115 M. Toilet	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.440	11-115a Toilet	No	0.00		
8.4.1.441	11-115b Toilet	No	0.00		
8.4.1.442	11-116 L/C Room	No	1.00		
8.4.1.443	11-117 Electrical Room	No	1.00		
8.4.1.444	11-118 UPS	No	1.00		
8.4.1.445	11-120 Staff Closet	No	1.00		
8.4.1.446	11-123 Receipt Printing	No	1.00		
8.4.1.447	11-123a Receipt Printing	No	1.00		
8.4.1.448	11-124 Receipt Printing	No	1.00		
8.4.1.449	11-124a Sas	No	1.00		
8.4.1.449a	11-124b Fire Escape	No	1.00		
8.4.1.450	11-125 Receipt Printing	No	1.00		
8.4.1.451	11-126 Receipt Printing	No	1.00		
8.4.1.452	11-126a Receipt Printing	No	1.00		
8.4.1.452a	11-130a Corridor	No	1.00		
8.4.1.452b	11-130b Corridor	No	1.00		
8.4.1.452c	11-130c Corridor	No	1.00		
8.4.1.452d	11-130d Corridor	No	1.00		
8.4.1.453	11-131 Store	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.454	11-135 Head Office	No	1.00		
8.4.1.455	11-137 Office	No	1.00		
8.4.1.455a	11-138 Multy-Purpose Hall	No	1.00		
8.4.1.455b	11-138b Sas	No	1.00		
8.4.1.455c	11-138c Fire Escape	No	1.00		
8.4.1.455d	12-101 Stair 3	No	1.00		
8.4.1.455e	12-101a Sas	No	1.00		
8.4.1.455f	12-107 Reception	No	1.00		
8.4.1.456	12-108 Reception	No	0.00		
8.4.1.457	12-109 Corridor	No	1.00		
8.4.1.458	12-110 Kitchen	No	1.00		
8.4.1.459	12-111 J/C	No	1.00		
8.4.1.460	12-112 Shaft	No	1.00		
8.4.1.461	12-113 F. Toilet	No	1.00		
8.4.1.462	12-113a Toilet	No	0.00		
8.4.1.463	12-113b Toilet	No	0.00		
8.4.1.464	12-114 H.d.	No	1.00		
8.4.1.465	12-115 M. Toilet	No	1.00		
8.4.1.466	12-115a Toilet	No	0.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.467	12-115b Toilet	No	0.00		
8.4.1.468	12-116 L/C Room	No	1.00		
8.4.1.469	12-117 Electrical Room	No	1.00		
8.4.1.470	12-118 UPS	No	1.00		
8.4.1.471	12-120 Staff Closet	No	1.00		
8.4.1.472	12-123 Archives	No	1.00		
8.4.1.473	12-126 Fire Escape	No	1.00		
8.4.1.473a	12-126a Sas	No	1.00		
8.4.1.474	12-127 Head Office	No	1.00		
8.4.1.474a	12-131 Open Space Office	No	1.00		
8.4.1.474b	12-131a Open Space Office	No	1.00		
8.4.1.474c	12-132 Stair 15	No	1.00		
8.4.1.474d	12-132a Stair 15	No	1.00		
8.4.1.475	12-133 Head Office	No	1.00		
8.4.1.476	12-136 Offices	No	1.00		
8.4.1.477	12-137 Doctor	No	1.00		
8.4.1.478	12-138 Doctor	No	1.00		
8.4.1.479	12-140 Head Office	No	1.00		
8.4.1.480	12-142 Fire Escape	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.480aa	12-142a Sas	No	1.00		
8.4.1.481	12-144 Archives	No	1.00		
8.4.1.481a	13-101 Stair 3	No	1.00		
8.4.1.481b	13-101a Sas	No	1.00		
8.4.1.481c	13-107 Reception	No	1.00		
8.4.1.482	13-108 Reception	No	1.00		
8.4.1.483	13-109 Corridor	No	1.00		
8.4.1.484	13-110 Kitchen	No	1.00		
8.4.1.485	13-111 J/C	No	1.00		
8.4.1.486	13-112 Shaft	No	1.00		
8.4.1.487	13-113 F. Toilet	No	1.00		
8.4.1.488	13-113a Toilet	No	0.00		
8.4.1.489	13-113b Toilet	No	0.00		
8.4.1.490	13-114 H.d.	No	1.00		
8.4.1.491	13-115 M. Toilet	No	1.00		
8.4.1.492	13-115a Toilet	No	0.00		
8.4.1.493	13-115b Toilet	No	0.00		
8.4.1.494	13-116 L/C Room	No	1.00		
8.4.1.495	13-117 Electrical Room	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.496	13-118 UPS	No	1.00		
8.4.1.497	13-120 Staff Closet	No	1.00		
8.4.1.498	13-121 Office	No	1.00		
8.4.1.499	13-123 Archives	No	1.00		
8.4.1.500	13-126 Fire Escape	No	1.00		
8.4.1.500a	13-126a Sas	No	1.00		
8.4.1.500b	13-131 Open Space Office	No	1.00		
8.4.1.500c	13-131a Open Space Office	No	1.00		
8.4.1.500d	13-132 Stair 15	No	1.00		
8.4.1.500e	13-132a Stair 15	No	1.00		
8.4.1.501	13-133 Head Office	No	1.00		
8.4.1.502	13-135a Principal Director	No	1.00		
8.4.1.503	13-135b Principal Director	No	1.00		
8.4.1.504	13-139 Head Office	No	1.00		
8.4.1.505	13-141 Fire Escape	No	1.00		
8.4.1.505a	13-141a Sas	No	1.00		
8.4.1.506	13-143 Archives	No	1.00		
8.4.1.506a	14-101 Stair 3	No	1.00		
8.4.1.506b	14-101a Sas	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.506c	14-107 Reception	No	1.00		
8.4.1.507	14-108 Reception	No	0.00		
8.4.1.508	14-109 Corridor	No	1.00		
8.4.1.509	14-110 Kitchen	No	1.00		
8.4.1.510	14-111 J/C	No	1.00		
8.4.1.511	14-112 Shaft	No	1.00		
8.4.1.512	14-113 F. Toilet	No	1.00		
8.4.1.513	14-113a Toilet	No	0.00		
8.4.1.514	14-113b Toilet	No	0.00		
8.4.1.515	14-114 H.d.	No	1.00		
8.4.1.516	14-115 M. Toilet	No	1.00		
8.4.1.517	14-115a Toilet	No	0.00		
8.4.1.518	14-115b Toilet	No	0.00		
8.4.1.519	14-116 L/C Room	No	1.00		
8.4.1.520	14-117 Electrical Room	No	1.00		
8.4.1.521	14-118 UPS	No	1.00		
8.4.1.522	14-120 Staff Closet	No	1.00		
8.4.1.523	14-123 Archives	No	1.00		
8.4.1.524	14-126 Fire Escape	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.524a	14-126a Sas	No	1.00		
8.4.1.524b	14-131 Open Space Office	No	1.00		
8.4.1.524c	14-131a Open Space Office	No	1.00		
8.4.1.524d	14-132 Stair 15	No	1.00		
8.4.1.524e	14-132a Stair 15	No	1.00		
8.4.1.525	14-133 Head Office	No	1.00		
8.4.1.526	14-136 Head Office	No	1.00		
8.4.1.527	14-140 Head Office	No	1.00		
8.4.1.528	14-142 Fire Escape	No	1.00		
8.4.1.528a	14-142a Sas	No	1.00		
8.4.1.529	14-144 Archives	No	1.00		
8.4.1.529a	15-101 Stair 3	No	1.00		
8.4.1.529b	15-101a Sas	No	1.00		
8.4.1.529c	15-107 Reception	No	1.00		
8.4.1.530	15-108 Reception	No	1.00		
8.4.1.531	15-109 Corridor	No	1.00		
8.4.1.532	15-110 Kitchen	No	1.00		
8.4.1.533	15-111 J/C	No	1.00		
8.4.1.534	15-112 Shaft	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.535	15-113 F. Toilet	No	1.00		
8.4.1.536	15-113a Toilet	No	0.00		
8.4.1.537	15-113b Toilet	No	0.00		
8.4.1.538	15-114 H.d.	No	1.00		
8.4.1.539	15-115 M. Toilet	No	1.00		
8.4.1.540	15-115a Toilet	No	0.00		
8.4.1.541	15-115b Toilet	No	0.00		
8.4.1.542	15-116 L/C Room	No	1.00		
8.4.1.543	15-117 Electrical Room	No	1.00		
8.4.1.544	15-118 UPS	No	1.00		
8.4.1.545	15-120 Staff Closet	No	1.00		
8.4.1.546	15-122 Archives	No	1.00		
8.4.1.547	15-125 Fire Escape	No	1.00		
8.4.1.547a	15-125a Sas	No	1.00		
8.4.1.547b	15-131 Open Space Office	No	1.00		
8.4.1.547c	15-131a Open Space Office	No	1.00		
8.4.1.547d	15-132 Stair 15	No	1.00		
8.4.1.547e	15-132a Stair 15	No	1.00		
8.4.1.548	15-132 Head Office	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.549	15-134a Principal Director	No	1.00		
8.4.1.550	15-134b Principal Director	No	1.00		
8.4.1.551	15-138 Head Office	No	1.00		
8.4.1.552	15-140 Fire Escape	No	1.00		
8.4.1.552a	15-140a Sas	No	1.00		
8.4.1.553	15-142 Archives	No	1.00		
8.4.1.553a	16-101 Stair 3	No	1.00		
8.4.1.553b	16-101a Sas	No	1.00		
8.4.1.553c	16-107 Reception	No	1.00		
8.4.1.554	16-108 Reception	No	1.00		
8.4.1.555	16-109 Corridor	No	1.00		
8.4.1.556	16-110 Kitchen	No	1.00		
8.4.1.557	16-111 J/C	No	1.00		
8.4.1.558	16-112 Shaft	No	1.00		
8.4.1.559	16-113 F. Toilet	No	1.00		
8.4.1.560	16-113a Toilet	No	0.00		
8.4.1.561	16-113b Toilet	No	0.00		
8.4.1.562	16-114 H.d.	No	1.00		
8.4.1.563	16-115 M. Toilet	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.564	16-115a Toilet	No	0.00		
8.4.1.565	16-115b Toilet	No	0.00		
8.4.1.566	16-116 L/C Room	No	1.00		
8.4.1.567	16-117 Electrical Room	No	1.00		
8.4.1.568	16-118 UPS	No	1.00		
8.4.1.569	16-120 Staff Closet	No	1.00		
8.4.1.570	16-123 Archives	No	1.00		
8.4.1.571	16-126 Fire Escape	No	1.00		
8.4.1.571a	16-126a Sas	No	1.00		
8.4.1.571b	16-131 Open Space Office	No	1.00		
8.4.1.571c	16-131a Open Space Office	No	1.00		
8.4.1.571d	16-132 Stair 15	No	1.00		
8.4.1.571e	16-132a Stair 15	No	1.00		
8.4.1.572	16-133 Head Office	No	1.00		
8.4.1.573	16-135a Principal Director	No	1.00		
8.4.1.574	16-135b Principal Director	No	1.00		
8.4.1.575	16-139 Head Office	No	1.00		
8.4.1.576	16-141 Fire Escape	No	1.00		
8.4.1.576a	16-141a Sas	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.576b	17-101 Stair 3	No	1.00		
8.4.1.576c	17-101a Sas	No	1.00		
8.4.1.576d	17-107 Reception	No	1.00		
8.4.1.577	17-108 Reception	No	1.00		
8.4.1.578	17-109 Corridor	No	1.00		
8.4.1.579	17-110 Kitchen	No	1.00		
8.4.1.580	17-111 J/C	No	1.00		
8.4.1.581	17-112 Shaft	No	1.00		
8.4.1.582	17-113 F. Toilet	No	1.00		
8.4.1.583	17-113a Toilet	No	0.00		
8.4.1.584	17-113b Toilet	No	0.00		
8.4.1.585	17-114 H.d.	No	1.00		
8.4.1.586	17-115 M. Toilet	No	1.00		
8.4.1.587	17-115a Toilet	No	0.00		
8.4.1.588	17-115b Toilet	No	0.00		
8.4.1.589	17-116 L/C Room	No	1.00		
8.4.1.590	17-117 Electrical Room	No	1.00		
8.4.1.591	17-118 UPS	No	1.00		
8.4.1.592	17-120 Staff Closet	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.593	17-124 Archives	No	1.00		
8.4.1.594	17-126 Fire Escape	No	1.00		
8.4.1.594a	17-126a Sas	No	1.00		
8.4.1.595	17-127 Head Office	No	1.00		
8.4.1.596	17-129 Head Office	No	1.00		
8.4.1.596a	17-131 Open Space Office	No	1.00		
8.4.1.596b	17-131a Open Space Office	No	1.00		
8.4.1.596c	17-132 Stair 15	No	1.00		
8.4.1.596d	17-132a Stair 15	No	1.00		
8.4.1.597	17-135a Principal Director	No	1.00		
8.4.1.598	17-135b Principal Director	No	1.00		
8.4.1.599	17-139 Head Office	No	1.00		
8.4.1.600	17-140 Office # 1	No	1.00		
8.4.1.601	17-141 Store	No	1.00		
8.4.1.602	17-142 Fire Escape	No	1.00		
8.4.1.602a	17-142a Sas	No	1.00		
8.4.1.602b	18-101 Stair 3	No	1.00		
8.4.1.602c	18-101a Sas	No	1.00		
8.4.1.602d	18-107 Reception	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.603	18-108 Reception	No	1.00		
8.4.1.604	18-109 Corridor	No	1.00		
8.4.1.605	18-110 Kitchen	No	1.00		
8.4.1.606	18-111 J/C	No	1.00		
8.4.1.607	18-112 Shaft	No	1.00		
8.4.1.608	18-113 F. Toilet	No	1.00		
8.4.1.609	18-113a Toilet	No	0.00		
8.4.1.610	18-113b Toilet	No	0.00		
8.4.1.611	18-114 H.d.	No	1.00		
8.4.1.612	18-115 M. Toilet	No	1.00		
8.4.1.613	18-115a Toilet	No	0.00		
8.4.1.614	18-115b Toilet	No	0.00		
8.4.1.615	18-116 L/C Room	No	1.00		
8.4.1.616	18-117 Electrical Room	No	1.00		
8.4.1.617	18-118 UPS	No	1.00		
8.4.1.618	18-120 Staff Closet	No	1.00		
8.4.1.619	18-122 Tele Communication Hall	No	1.00		
8.4.1.620	18-123 Server Room	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.621	18-124 Fire Escape	No	1.00		
8.4.1.621a	18-124a Sas	No	1.00		
8.4.1.622	18-125 Store	No	1.00		
8.4.1.623	18-120 Panels	No	1.00		
8.4.1.624	18-127 UPS	No	1.00		
8.4.1.625	18-128 Store	No	1.00		
8.4.1.626	18-129 Batteries Store	No	1.00		
8.4.1.626a	18-131 Open Space Office	No	1.00		
8.4.1.626b	18-131a Open Space Office	No	1.00		
8.4.1.626c	18-132 Stair 15	No	1.00		
8.4.1.626d	18-132a Stair 15	No	1.00		
8.4.1.627	18-133 Head Office	No	1.00		
8.4.1.628	18-134 Secretary	No	1.00		
8.4.1.629	18-135 Secretary	No	1.00		
8.4.1.630	18-136 Office # 2	No	1.00		
8.4.1.631	18-140 Head Office	No	1.00		
8.4.1.632	18-142 Fire Escape	No	1.00		
8.4.1.632a	18-142a Sas	No	1.00		
8.4.1.633	18-144 Archives	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.633a	19-101 Stair 3	No	1.00		
8.4.1.633b	19-101a Sas	No	1.00		
8.4.1.633c	19-107 Reception	No	1.00		
8.4.1.634	19-108 Reception	No	1.00		
8.4.1.635	19-109 Corridor	No	1.00		
8.4.1.636	19-110 Kitchen	No	1.00		
8.4.1.637	19-111 J/C	No	1.00		
8.4.1.638	19-112 Shaft	No	1.00		
8.4.1.639	19-113 F. Toilet	No	1.00		
8.4.1.640	19-113a Toilet	No	0.00		
8.4.1.641	19-113b Toilet	No	0.00		
8.4.1.642	19-114 H.d.	No	1.00		
8.4.1.643	19-115 M. Toilet	No	1.00		
8.4.1.644	19-115a Toilet	No	0.00		
8.4.1.645	19-115b Toilet	No	0.00		
8.4.1.646	19-116 L/C Room	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.647	19-117 Electrical Room	No	1.00		
8.4.1.648	19-118 UPS	No	1.00		
8.4.1.649	19-120 Staff Closet	No	1.00		
8.4.1.650	19-123 Toilet	No	1.00		
8.4.1.651	19-125 Kitchen	No	1.00		
8.4.1.652	19-126 Corridor	No	1.00		
8.4.1.653	19-126a Corridor	No	1.00		
8.4.1.654	19-126b Corridor	No	1.00		
8.4.1.655	19-127 Hall	No	1.00		
8.4.1.656	19-127a Hall	No	1.00		
8.4.1.657	19-129 Fire Escape	No	1.00		
8.4.1.657a	19-129a Sas	No	1.00		
8.4.1.657b	19-131 Open Space Office	No	1.00		
8.4.1.657c	19-131a Open Space Office	No	1.00		
8.4.1.657d	19-132 Stair 15	No	1.00		
8.4.1.657e	19-132a Stair 15	No	1.00		
8.4.1.658	19-130 Offices	No	1.00		
8.4.1.659	19-133 Head Offices	No	1.00		
8.4.1.660	19-135 Principal Director	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.661	19-135a Principal Director	No	1.00		
8.4.1.662	19-139 Head Office	No	1.00		
8.4.1.663	19-141 Fire Escape	No	1.00		
8.4.1.663a	19-141a Sas	No	1.00		
8.4.1.664	19-143 Archives	No	1.00		
8.4.1.664a	20-101 Stair 3	No	1.00		
8.4.1.664b	20-101a Sas	No	1.00		
8.4.1.664c	20-107 Reception	No	1.00		
8.4.1.665	20-108 Reception	No	1.00		
8.4.1.666	20-109 Corridor	No	1.00		
8.4.1.667	20-110 Kitchen	No	1.00		
8.4.1.668	20-111 J/C	No	1.00		
8.4.1.669	20-112 Shaft	No	1.00		
8.4.1.670	20-113 F. Toilet	No	1.00		
8.4.1.671	20-113a Toilet	No	0.00		
8.4.1.672	20-113b Toilet	No	0.00		
8.4.1.673	20-114 H.d.	No	1.00		
8.4.1.674	20-115 M. Toilet	No	1.00		
8.4.1.675	20-115a Toilet	No	0.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.676	20-115b Toilet	No	0.00		
8.4.1.677	20-116 L/C Room	No	1.00		
8.4.1.678	20-117 Electrical Room	No	1.00		
8.4.1.679	20-118 UPS	No	1.00		
8.4.1.680	20-120 Staff Closet	No	1.00		
8.4.1.681	20-122 Office	No	1.00		
8.4.1.682	20-123 Corridor	No	1.00		
8.4.1.682a	20-123a Sas	No	1.00		
8.4.1.682a	20-123b Sas	No	1.00		
8.4.1.683	20-125 Corridor	No	1.00		
8.4.1.684	20-126 Offices	No	1.00		
8.4.1.685	20-127 Meeting Room	No	1.00		
8.4.1.686	20-127a Meeting Room	No	1.00		
8.4.1.687	20-128 Principal Room	No	1.00		
8.4.1.687a	20-128a Principle Director	No	1.00		
8.4.1.687b	20-129 Stair 15	No	1.00		
8.4.1.687c	20-129a Stair 15	No	1.00		
8.4.1.688	20-131 Secretary	No	1.00		
8.4.1.689	20-132 Secretary	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.690	20-133 Head Office	No	1.00		
8.4.1.691	20-136 Head Office	No	1.00		
8.4.1.692	20-138 Secretary	No	1.00		
8.4.1.693	20-139 Principal Director	No	1.00		
8.4.1.694	20-140 Fire Escape	No	1.00		
8.4.1.694a	20-140a Sas	No	1.00		
8.4.1.694b	21-101 Stair 3	No	1.00		
8.4.1.694c	21-101a Sas	No	1.00		
8.4.1.694d	21-107 Reception	No	1.00		
8.4.1.695	21-108 Reception	No	1.00		
8.4.1.696	21-109 Corridor	No	1.00		
8.4.1.697	21-110 Kitchen	No	1.00		
8.4.1.698	21-111 J/C	No	1.00		
8.4.1.699	21-112 Shaft	No	1.00		
8.4.1.700	21-113 F. Toilet	No	1.00		
8.4.1.701	21-113a Toilet	No	0.00		
8.4.1.702	21-113b Toilet	No	0.00		
8.4.1.703	21-114 H.d.	No	1.00		
8.4.1.704	21-115 M. Toilet	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.705	21-115a Toilet	No	0.00		
8.4.1.706	21-115b Toilet	No	0.00		
8.4.1.707	21-116 L/C Room	No	1.00		
8.4.1.708	21-117 Electrical Room	No	1.00		
8.4.1.709	21-118 UPS	No	1.00		
8.4.1.710	21-120 Staff Closet	No	1.00		
8.4.1.711	21-126 Fire Escape	No	1.00		
8.4.1.712	21-127 Head Office	No	1.00		
8.4.1.713	21-129 Offices	No	1.00		
8.4.1.713a	21-126a Sas	No	1.00		
8.4.1.713b	21-131 Open Space Office	No	1.00		
8.4.1.713c	21-131a Open Space Office	No	1.00		
8.4.1.713d	21-132 Stair 15	No	1.00		
8.4.1.713e	21-132a Stair 15	No	1.00		
8.4.1.714	21-133 Head Offices	No	1.00		
8.4.1.715	21-135 Principal Director	No	1.00		
8.4.1.716	21-135a Principal Director	No	1.00		
8.4.1.717	21-138 Offices	No	1.00		
8.4.1.718	21-139 Secretary	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.719	21-139a Secretary	No	1.00		
8.4.1.720	21-140 Principal Director	No	1.00		
8.4.1.721	21-141 Fire Escape	No	1.00		
8.4.1.721a	21-141a Sas	No	1.00		
8.4.1.722	21-143 Archives	No	1.00		
8.4.1.722a	22-101 Stair 3	No	1.00		
8.4.1.722b	22-101a Sas	No	1.00		
8.4.1.722c	22-107 Reception	No	1.00		
8.4.1.723	22-108 Reception	No	1.00		
8.4.1.724	22-109 Corridor	No	1.00		
8.4.1.725	22-110 Kitchen	No	1.00		
8.4.1.726	22-111 J/C	No	1.00		
8.4.1.727	22-112 Shaft	No	1.00		
8.4.1.728	22-113 F. Toilet	No	1.00		
8.4.1.729	22-113a Toilet	No	0.00		
8.4.1.730	22-113b Toilet	No	0.00		
8.4.1.731	22-114 H.d.	No	1.00		
8.4.1.732	22-115 M. Toilet	No	1.00		
8.4.1.733	22-115a Toilet	No	0.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.734	22-115b Toilet	No	0.00		
8.4.1.735	22-116 L/C Room	No	1.00		
8.4.1.736	22-117 Electrical Room	No	1.00		
8.4.1.737	22-118 UPS	No	1.00		
8.4.1.738	22-120 Staff Closet	No	1.00		
8.4.1.739	22-124 Archives	No	1.00		
8.4.1.740	22-126 Fire Escape	No	1.00		
8.4.1.740a	22-126a Sas	No	1.00		
8.4.1.740b	22-131 Open Space Office	No	1.00		
8.4.1.740c	22-131a Open Space Office	No	1.00		
8.4.1.740d	22-132 Stair 15	No	1.00		
8.4.1.740e	22-132a Stair 15	No	1.00		
8.4.1.741	22-133 Head Offices	No	1.00		
8.4.1.742	22-136 Offices	No	1.00		
8.4.1.743	22-141 Head Office	No	1.00		
8.4.1.744	22-143 Fire Escape	No	1.00		
8.4.1.744a	22-143a Sas	No	1.00		
8.4.1.745	22-145 Archives	No	1.00		
8.4.1.745a	23-101 Stair 3	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.745b	23-101a Sas	No	1.00		
8.4.1.745c	23-107 Reception	No	1.00		
8.4.1.746	23-108 Reception	No	1.00		
8.4.1.747	23-109 Corridor	No	1.00		
8.4.1.748	23-110 Kitchen	No	1.00		
8.4.1.749	23-111 J/C	No	1.00		
8.4.1.750	23-112 Shaft	No	1.00		
8.4.1.751	23-113 F. Toilet	No	1.00		
8.4.1.752	23-113a Toilet	No	0.00		
8.4.1.753	23-113b Toilet	No	0.00		
8.4.1.754	23-114 H.d.	No	1.00		
8.4.1.755	23-115 M. Toilet	No	1.00		
8.4.1.756	23-115a Toilet	No	0.00		
8.4.1.757	23-115b Toilet	No	0.00		
8.4.1.758	23-116 L/C Room	No	1.00		
8.4.1.759	23-117 Electrical Room	No	1.00		
8.4.1.760	23-118 UPS	No	1.00		
8.4.1.761	23-120 Staff Closet	No	1.00		
8.4.1.762	23-121 Ofices # 2	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.763	23-122 Ofices # 2	No	1.00		
8.4.1.764	23-123 Ofices # 2	No	1.00		
8.4.1.765	23-124 Ofices # 2	No	1.00		
8.4.1.766	23-125 Secretary	No	1.00		
8.4.1.767	23-126 Board Offices	No	1.00		
8.4.1.768	23-126a Board Offices	No	1.00		
8.4.1.769	23-127 Fire Escape	No	1.00		
8.4.1.770	23-128 Meeting Room	No	1.00		
8.4.1.771	23-128a Meeting Room	No	1.00		
8.4.1.772	23-129 Chairman of Board	No	1.00		
8.4.1.773	23-130 Toilet	No	1.00		
8.4.1.774	23-131 Lobby	No	1.00		
8.4.1.775	23-133 Office	No	1.00		
8.4.1.776	23-134 Office	No	1.00		
8.4.1.777	23-135 Head Office	No	1.00		
8.4.1.778	23-135a Head Office	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.4.1.778a	23-136 Stair 15	No	1.00		
8.4.1.778b	23-136a Stair 15	No	1.00		
8.4.1.779	23-137 Secretary	No	1.00		
8.4.1.780	23-138 Offices # 2	No	1.00		
8.4.1.781	23-142 General Director	No	1.00		
8.4.1.782	23-143 Corridor	No	1.00		
8.4.1.783	23-144 Toilet	No	1.00		
8.4.1.784	23-145 Meeting Room	No	1.00		
8.4.1.785	23-146 Fire Escape	No	1.00		
8.4.1.786	23-148 Secretary	No	1.00		
8.4.1.786a	23-148a Sas	No	1.00		
8.4.1.787	23-149 Office	No	1.00		
8.4.1.788	23-150	No	1.00		
8.4.2	**Bathrooms Partitions** Supply and install high pressure laminated partitions (HPL) as per drawings and specifications Work to include: Shop drawings and detailed drawings Materials Labors All accessories (locks, hinges, etc..) Special Supports and hangers shall be Stainless steel screws All needed items and as instructed by the	m2	280.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5	**ALUMINIUM WINDOWS (DOORS)** Aluminium powder coated framed door, window, entrance, partition and screen units as specified and detailed, installed complete; INCLUDING for sub-frames, transoms and mullions; glass, glazing and aluminium louvres; supports, anchors, fasteners and fixings; protective coatings and sealants; hardware, ironmongery, accessories and trim; and all other related ancillaries as indicated or required on drawings. **GENERAL NOTES FOR ALL ALUMINIUM WORKS** 1 - All aluminum section should be from available manufacturers, subject to compliance with requirements which may be incorporated in the work (Technal or equal). 2 - All dimensions are unit dimensions and are approximate, the contractor should take actual size measurements for all aluminium units before manufacturing. 3 - All aluminium sections should be of the heavy duty series of the factory and with high anodization rate to protect the aluminum from the sea effect minimum 22 micron				
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection 4 - The contractor should submit complete shop drawings showing: plans - sections - elevations for all parts of the aluminium units, in addition to full size actual details of the proposed sections. 5 - All accessories, screws….etc should be stainless steel 6 - A complete mock up sample of each system should be provided for approval before manufactutng 7 - The glass is clear drawn glass certified. 8 -The tempered glass should be clear and certified two layers as shown and specified tempered glass 9 - All aluminium units should have intermediate handrail and 15cm aluminium kick plate 3mm thick both sides as shown on drawings. 10 - The contractor shall submit complete shop drawing provided aluminium connection with adjacent finishing material				
8.5.1	W06 - side hinged double leafs aluminum panel with anti-dust aluminum louvers (190x220cm)	No	1.00		
8.5.2	W08 - one side hinged double leafs aluminum panel with anti-dust aluminum louvers (210x220cm)	No	4.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.3	W10 - fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (315x240cm)	No	2.00		
8.5.4	W11 - aluminum panels with aluminum flush side hinged glazed aluminum door with side fixed glazed glazing drawn clear glass color as per engineer instruction (330x240cm)	No	1.00		
8.5.5	W12 - side hinged glazed aluminum door with side fixed glazed glazing drawn clear glasscolor as per engineer instructionaluminum panels with aluminum flush (235x140cm) and (100x240cm)	No	1.00		
8.5.6	W13 - fixed aluminum panel with anti-dust aluminum louvers (130x100cm)	No	1.00		
8.5.7	W14 - fixed aluminum panel with anti-dust aluminum louvers (90x50cm)	No	1.00		
8.5.8	W15 - side hinged glazed aluminum door with side sliding glazed glazing drawn clear glass color as per engineer instruction (90x240cm) and side double sliding glazed aluminum window of (240x140cm)	No	1.00		
8.5.9	W16 - naco glazed aluminum panel glazing drawn clear glass color as per engineer instruction (95x185cm)	No	59.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.10	W16a - side-hinged double aluminum flush panelscolor as per engineer instructionaluminum flush drawn clear (140x230cm)	No	1.00		
8.5.11	W17 - top hinged double glazed aluminum panel glazing drawn clear glass color as per engineer instruction (80x60cm)	No	3.00		
8.5.12	W18 - naco glazed aluminum panelglazing drawn clear glasscolor as per engineer instruction (100x100cm)	No	10.00		
8.5.13	W19 - naco glazed aluminum panelglazing drawn clear glasscolor as per engineer instruction (100x130cm)	No	2.00		
8.5.14	W20 - glazing drawn clear glass fixed double glazed aluminum panels with sliding doublecolor as per engineer instruction(300x50cm)	No	11.00		
8.5.15	W21 - sliding double glazed aluminum panelglazing drawn clear glassfixed double glazed aluminum panels withcolor as per engineer instruction (340x50cm)	No	15.00		
8.5.16	W22 - sliding double glazed aluminum panelglazing drawn clear glassfixed double glazed aluminum panels with color as per engineer instruction (330x50cm)	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.17	W23 - sliding double glazed aluminum panelglazing drawn clear glassfixed double glazed aluminum panels with color as per engineer instruction (475x50cm)	No	1.00		
8.5.18	W24 - glazing drawn clear glassfixed double glazed aluminum panels color as per engineer instruction (90x260cm)	No	1.00		
8.5.19	W25 - sliding double glazed aluminum panelsglazing drawn clear glasscolor as per engineer instruction (155x50cm)	No	1.00		
8.5.20	W26 - naco glazed aluminum panelsglazing drawn clear glasscolor as per engineer instruction (105x150cm)	No	3.00		
8.5.21	W27 - naco glazed aluminum panelsglazing drawn clear glasscolor as per engineer instruction (115x150cm)	No	6.00		
8.5.22	W28 - double leaf side hinged glazed aluminum door with top and side fixed glazed aluminum panels glazing drawn tempered glass color as per engineer instruction (337.5x500cm)	No	1.00		
8.5.23	W29 - naco glazed aluminum panelsglazing drawn clear glasscolor as per engineer instruction (80x150cm)	No	3.00		
8.5.24	W30 - top hinged glazed aluminum panelsglazing drawn clear glasscolor as per engineer instruction (95x45cm)	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.25	W31 - sliding dbl-glazed aluminum panelsglazing drawn clear glasscolor as per engineer instruction (145x115cm)	No	1.00		
8.5.26	W32 - sliding double glazed aluminum panelsglazing drawn clear glasscolor as per engineer instruction (100x115cm)	No	6.00		
8.5.27	W33 - aluminum flush side hinged glazed aluminum door with side fixed glazed aluminum panels glazing drawn clear glass color as per engineer instruction (620.5x240cm)	No	1.00		
8.5.28	W34 - with aluminum flush side hinged glazed aluminum door with side fixed glazed aluminum panels glazing drawn clear glass color as per engineer instruction (750x240cm)	No	1.00		
8.5.29	W34a - with aluminum flush glazing drawn clear glass fixed glazed aluminum panels color as per engineer instruction (147x240cm)	No	2.00		
8.5.30	W34b - fixed aluminum panels with aluminum flush color as per engineer instruction (270x240cm)	No	1.00		
8.5.31	W35 - sliding double glazed aluminum panels with side fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (690x115cm)	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.32	W36 - with side fixed glazed aluminum panels sliding double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (305x115cm)	No	2.00		
8.5.33	W37 - naco glazed aluminum panel glazing drawn clear glass color as per engineer instruction (85x140cm)	No	10.00		
8.5.34	W38 - naco glazed aluminum panels glazing drawn clear glass color as per engineer instruction (100x140cm)	No	22.00		
8.5.35	W39 - glazing drawn clear glass color as per engineer instruction central pivoted double glazed aluminum panels (97.5x200cm)	No	21.00		
8.5.36	W40 - glazing drawn clear glass fixed double glazed aluminum panels color as per engineer instruction (97.5x200cm)	No	19.00		
8.5.37	W41 - glazing drawn clear glass color central pivoted double glazed aluminum panels as per engineer instruction (105x200cm)	No	538.00		
8.5.38	W42 - glazing drawn clear glass fixed double glazed aluminum panels color as per engineer instruction (105x200cm)	No	537.00		
8.5.39	W43 - side hinged double glazed paluminum panels glazing drawn clear glass color as per engineer instruction (30x180cm)	No	10.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.40	W44 - glazing drawn clear glass color as per engineer instruction central pivoted double glazed aluminum panels (105x150cm)	No	47.00		
8.5.41	W45 - glazing drawn clear glass fixed double glazed aluminum panels color as per engineer instruction (105x150cm)	No	44.00		
8.5.42	W46 - side hinged double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (150x205cm)	No	3.00		
8.5.43	W47 - glazing drawn clear glass fixed double glazed aluminum panels color as per engineer instruction (150x205cm)	No	3.00		
8.5.44	W48 - side hinged double glazed paluminum panels glazing drawn clear glass color as per engineer instruction (131.5x205cm)	No	3.00		
8.5.45	W49 - glazing drawn clear glass fixed double glazed aluminum panels color as per engineer instruction (131.5x205cm)	No	4.00		
8.5.46	W50 - side hinged double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (90x160cm)	No	1.00		
8.5.47	W51 - glazing drawn clear glass fixed double glazed aluminum panels color as per engineer instruction (90x150cm)	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.48	W52 - side hinged double glazed glazing drawn clear glass color as per engineer instruction aluminum panels (90x140cm)	No	2.00		
8.5.49	W53 - glazing drawn clear glass fixed double glazed aluminum panels color as per engineer instruction (90x130cm)	No	1.00		
8.5.50	W54 - side hinged double glazed glazing drawn clear glass color as per engineer instruction aluminum panels (90x120cm)	No	1.00		
8.5.51	W55 - glazing drawn clear glass fixed double glazed aluminum panels color as per engineer instruction (90x110cm)	No	1.00		
8.5.52	W56 - side hinged double glazed glazing drawn clear glass color as per engineer instruction aluminum panels (90x100cm)	No	1.00		
8.5.53	W57 - glazing drawn clear glass fixed double glazed aluminum panels color as per engineer instruction (90x80cm)	No	1.00		
8.5.54	W58 - side hinged double glazed glazing drawn clear glass color as per engineer instruction aluminum panels (90x70cm)	No	1.00		
8.5.55	W59 - side hinged double glazed glazing drawn clear glass color as per engineer instruction aluminum panels (90x90cm)	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.56	W60 - side hinged double glazed glazing drawn clear glass color as per engineer instruction aluminum panels (90x60cm)	No	1.00		
8.5.57	W61 - sliding double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (90x50cm)	No	1.00		
8.5.58	W62 - glazing drawn clear glass fixed double glazed aluminum panels color as per engineer instruction (90x40cm)	No	1.00		
8.5.59	W63 - side hinged double glazed glazing drawn clear glass color aluminum panels as per engineer instruction (35x425cm) small window is 150cm high window is 425 cm	No	16.00		
8.5.60	W64 - side hinged glazed aluminum door with side and top fixed glazed glazing drawn clear glass color aluminum panels with bottom aluminum flush as per engineer instruction (495x270cm)	No	1.00		
8.5.61	W65 - side hinged glazed aluminum door with side and top glazing drawn clear glass fixed glazed color aluminum panels with bottom aluminum flush as per engineer instruction (360x270cm)	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.62	W66 - side hinged glazed aluminum door with side and top glazing drawn clear glass fixed glazed color aluminum panels with bottom aluminum flush as per engineer instruction (366x270cm)	No	1.00		
8.5.63	W67 - side hinged glazed aluminum door with side and top glazing drawn clear glass fixed glazed color aluminum panels with bottom aluminum flush as per engineer instruction (240x270cm)	No	2.00		
8.5.64	W68 - side hinged glazed aluminum door with side and top glazing drawn clear glass fixed glazed color aluminum panels with bottom aluminum flush as per engineer instruction (485x270cm)	No	1.00		
8.5.65	W69 - side hinged glazed aluminum door with side and top glazing drawn clear glass fixed glazed color aluminum panels with bottom aluminum flush as per engineer instruction (700x270cm)	No	1.00		
8.5.66	W70 - side hinged glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (170x270cm)	No	1.00		
8.5.67	W71 - side hinged glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (456x270cm)	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.68	W72 - side hinged glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (221.2x590cm)	No	2.00		
8.5.69	W73 - fixed glazed aluminum panel with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (138.5x590cm)	No	2.00		
8.5.70	W74 - side hinged glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (410x270cm)	No	2.00		
8.5.71	W75 - side hinged glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (433.5x270cm)	No	1.00		
8.5.72	W76 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (62.5x150cm)	No	2.00		
8.5.73	W77 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (170x150cm)	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.74	W78 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (82.5x100cm)	No	2.00		
8.5.75	W79 - side hinged glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (927.5x270cm)	No	1.00		
8.5.76	W79a - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (460x270cm)	No	2.00		
8.5.77	W79b - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (430x270cm)	No	1.00		
8.5.78	W84 - side hinged glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (460x270cm)	No	1.00		
8.5.79	W84a - fixed glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (638x270cm)	No	1.00		
8.5.80	W84b - fixed glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (230x270cm)	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.81	W84c - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (225x270cm)	No	1.00		
8.5.82	W84d - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (80x270cm)	No	1.00		
8.5.83	W84e - side hinged glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (215x270cm)	No	1.00		
8.5.84	W84f - fixed double glazed aluminum panels aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (305x270cm)	No	1.00		
8.5.85	W92 - side hinged glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (536x270cm)	No	1.00		
8.5.86	W92a - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (730x270cm)	No	1.00		
8.5.87	W94 - side hinged glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (285x270cm)	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.88	W94a - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (415x270cm)	No	1.00		
8.5.89	W94b - side hinged glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (475x270cm)	No	1.00		
8.5.90	W94c - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (135x270cm)	No	1.00		
8.5.91	W94d - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (730x270cm)	No	1.00		
8.5.92	W98 - side hinged glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (536.5x270cm)	No	1.00		
8.5.93	W99 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (101x90cm)	No	51.00		
8.5.94	W100 - sliding double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (140x110cm)	No	3.00		
8.5.95	W101 - sliding double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (227x55cm)	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.96	W102 - side hinged glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (170x270cm)	No	2.00		
8.5.97	W103 - side hinged double glazed aluminum panel (54.4 x 90cm)	No	6.00		
8.5.98	W104 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (55x90cm)	No	5.00		
8.5.99	W105 - side hinged glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (304x270cm)	No	1.00		
8.5.100	W106 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (100x90cm)	No	15.00		
8.5.101	W107 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (117x80cm)	No	1.00		
8.5.102	W108 - side hinged glazed aluminum panels glazing drawn clear glass color as per engineer instruction (100x80cm)	No	1.00		
8.5.103	W109 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (110x80cm)	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.104	W110 - side hinged glazed aluminum panels glazing drawn clear glass color as per engineer instruction (85.7x80cm)	No	2.00		
8.5.105	W111 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (86.5x80cm)	No	1.00		
8.5.106	W112 - side hinged glazed aluminum panels glazing drawn clear glass color as per engineer instruction (101.5x80cm)	No	2.00		
8.5.107	W113 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (112x80cm)	No	1.00		
8.5.108	W114 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (115.4x80cm)	No	1.00		
8.5.109	W115 - side hinged dbl glazed aluminum panels glazing drawn clear glass color as per engineer instruction (125.4x80cm)	No	1.00		
8.5.110	W116 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (125.4x80cm)	No	1.00		
8.5.111	W117 - side hinged dbl glazed aluminum panels glazing drawn clear glass color as per engineer instruction (115.4x80cm)	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.112	W118 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (118.2x80cm)	No	2.00		
8.5.113	W119 - side hinged dbl glazed aluminum panels glazing drawn clear glass color as per engineer instruction (99x80cm)	No	1.00		
8.5.114	W120 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (100x90cm)	No	7.00		
8.5.115	W121 - side hinged dbl glazed aluminum panels glazing drawn clear glass color as per engineer instruction (100x90cm)	No	7.00		
8.5.116	W122 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (120x80cm)	No	2.00		
8.5.117	W123 - side hinged dbl glazed aluminum panels glazing drawn clear glass color as per engineer instruction (120x80cm)	No	1.00		
8.5.118	W124 - side hinged dbl glazed aluminum panels glazing drawn clear glass color as per engineer instruction (160x80cm)	No	1.00		
8.5.119	W125 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (82x80cm)	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.120	W126 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (104x80cm)	No	1.00		
8.5.121	W127 - side hinged dbl glazed aluminum panels glazing drawn clear glass color as per engineer instruction (104x80cm)	No	1.00		
8.5.122	W128 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (110x80cm)	No	1.00		
8.5.123	W129 - side hinged dbl glazed aluminum panels glazing drawn clear glass color as per engineer instruction (116.3x80cm)	No	1.00		
8.5.124	W130 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (35xvar. min: 150, max:450cm)	No	9.00		
8.5.125	W131 - side hinged dbl glazed aluminum panels glazing drawn clear glass color as per engineer instruction (50x90cm)	No	3.00		
8.5.126	W132 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (50x90cm)	No	4.00		
8.5.127	W133 - bottom hinged hopper double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (50x60cm)	No	4.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.128	W134 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (50x60cm)	No	1.00		
8.5.129	W135 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (50x200cm)	No	1.00		
8.5.130	W139 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (for dimensions refer to drawings)	No	1.00		
8.5.131	W142 - sliding glazed aluminum door aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (240x380cm)	No	8.00		
8.5.132	W143 - central pivoted double glazed aluminum panels with top fixed glazed glazing drawn clear glass color as per engineer instruction (105x300cm)	No	43.00		
8.5.133	W144 - fixed double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (105x300cm)	No	43.00		
8.5.134	W145 - side hinged glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (890x390cm)	No	2.00		
8.5.135	W146 - side-hinged double aluminum flush panels aluminum flush drawn clear color as per engineer instruction (140x230cm)	No	15.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.136	W147 - side-hinged double aluminum flush panels aluminum flush drawn clear color as per engineer instruction (155x230cm)	No	18.00		
8.5.137	W148 - side hinged glazed aluminum door with top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (170x340cm)	No	2.00		
8.5.138	W149 - side hinged glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (695x390cm)	No	1.00		
8.5.139	W150 - sliding glazed aluminum door aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (240x275cm)	No	112.00		
8.5.140	W151 - fixed & side hinged double glazed aluminum panels aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (3825x265cm)	No	1.00		
8.5.141	W152 - fixed & side hinged double glazed aluminum panels aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (1065x265cm)	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
8.5.142	W155 - fixed & side hinged double glazed aluminum panels aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (4070x265cm)	No	1.00		
8.5.143	W156 - fixed & side hinged double glazed aluminum panels aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (1310x265cm)	No	1.00		
8.5.144	W159 - side hinged double glazed aluminum panels glazing drawn clear glass color as per engineer instruction (170x240cm)	No	25.00		
8.5.145	W160 - side hinged glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (695x290cm)	No	13.00		
8.5.145a	W160 - side hinged glazed aluminum door with side and top fixed glazed aluminum panels with bottom aluminum flush glazing drawn clear glass color as per engineer instruction (635x290cm)	No	1.00		
8.6	**F/C UNIT ENCLOSURE**				
	Supplu and install F/C unit enclosure finish covering top and side as shown on drawings and details. Contractor should visit site for dimensions and determination of finish material similar to existing works complete The Contractor should submit complete shop drawings for approval of the Engineer before manufacturing All F/C unit enclosure should have side hinged leaf for the fan coil unit maintenance	m	1,380.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	DIVISION 9- FURNITURE **LIGHT PARTITION** **GYPSUM PARTITION**				
9.1	Location of Partions Clearance Clear and prepare the location of the light partition at Ground and at ceilings and place all rough grounds where the light partitions to be placed				
9.2	Supply and install low and high level partition in the location shown on drawings complete with class putty and first 3 coats of paints as requested by the engineer Cost to include: - Bases (timber) - Tops - Sluds - Transoms - Gypsum board 1 cm both sides - Doors jambs and lintels - wall finish - skirting 1 cm thick timber - all needed accessories - Stainless steel screws - complete ready to fix doors				
9.2.1	High Partition				
9.2.1.1	High partition to ceiling HP01 Length 760 cm with one double door leaf	No	1.00		
9.2.1.2	High partition to ceiling HP02 Length 6700 cm with one double door leaf and seven single door leaf	No	1.00		
9.2.1.3	High partition to ceiling HP03 Length 2150 cm with three single leaf door	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.2.1.4	High partition to ceiling HP04 Length 800 cm with one single leaf door	No	1.00		
9.2.1.5	High partition to ceiling HP05 Length 3300 cm with one door double leaf and six doors single leaf	No	1.00		
9.2.1.6	High partition to ceiling HP06 Length 1000 cm with one single door leaf	No	1.00		
9.2.1.7	High partition to ceiling HP07 Length 2400 cm with one single door leaf	No	1.00		
9.2.1.8	High partition to ceiling HP08 Length 1625 cm with one double door leaf	No	1.00		
9.2.1.8a	High partition to ceiling HP08a Length 1000 cm with one single door leaf	No	1.00		
9.2.1.9	High partition to ceiling HP09 Length 1670 cm with one single door leaf	No	1.00		
9.2.1.10	High partition to ceiling HP10 Length 2650 cm with three single doors	No	1.00		
9.2.1.11	High partition to ceiling HP11 Length 1670 cm with one single door leaf	No	1.00		
9.2.1.12	High partition to ceiling HP12 Length 9550 cm with one single door leaf	No	1.00		
9.2.1.13	High partition to ceiling HP13 Length 1625 cm with one double door leaf	No	1.00		
9.2.1.14	High partition to ceiling HP14 Length 1670 cm with one single door leaf	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.2.1.15	High partition to ceiling HP15 Length 9050 cm with one single door leaf	No	1.00		
9.2.1.16	High partition to ceiling HP16 Length 1385 cm with two single doors leaf	No	1.00		
9.2.1.17	High partition to ceiling HP17 Length 1670 cm with one single door leaf	No	1.00		
9.2.1.18	High partition to ceiling HP18 Length 9550 cm with one single door leaf	No	1.00		
9.2.1.19	High partition to ceiling HP19 Length 1625 cm with one double door leaf	No	1.00		
9.2.1.20	High partition to ceiling HP20 Length 1670 cm with one single door leaf	No	1.00		
9.2.1.21	High partition to ceiling HP21 Length 1070 cm with one single door leaf	No	1.00		
9.2.1.22	High partition to ceiling HP22 Length 1670 cm with one single door leaf	No	1.00		
9.2.1.23	High partition to ceiling HP23 Length 9550 cm with one single door leaf	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.2.1.24	High partition to ceiling HP24 Length 1625 cm with one double door leaf	No	1.00		
9.2.1.25	High partition to ceiling HP25 Length 1670 cm with one single door leaf	No	1.00		
9.2.1.26	High partition to ceiling HP26 Length 1385 cm with two single doors leaf	No	1.00		
9.2.1.27	High partition to ceiling HP27 Length 1670 cm with one single door leaf	No	1.00		
9.2.1.28	High partition to ceiling HP28 Length 9550 cm with one single door leaf	No	1.00		
9.2.1.29	High partition to ceiling HP29 Length 1625 cm with one double door leaf	No	1.00		
9.2.1.30	High partition to ceiling HP30 Length 1670 cm with one single door leaf	No	1.00		
9.2.1.31	High partition to ceiling HP31 Length 1385 cm with two single doors leaf	No	1.00		
9.2.1.32	High partition to ceiling HP32 Length 1670 cm with one single door leaf	No	1.00		
9.2.1.33	High partition to ceiling HP33 Length 8550 cm with one single door leaf	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.2.1.33a	High partition to ceiling HP33a Length 1000 cm with one single door leaf	No	1.00		
9.2.1.34	High partition to ceiling HP34 Length 1025 cm with one single door leaf	No	1.00		
9.2.1.35	High partition to ceiling HP35 Length 1385 cm with two single doors leaf	No	1.00		
9.2.1.36	High partition to ceiling HP36 Length 2750 cm with three single doors leaf	No	1.00		
9.2.1.37	High partition to ceiling HP37 Length 1955 cm with two single doors leaf	No	1.00		
9.2.1.37a	High partition to ceiling HP37a Length 3875 cm with five single doors leaf	No	1.00		
9.2.1.38	High partition to ceiling HP38 Length 1670 cm with one single door leaf	No	1.00		
9.2.1.39	High partition to ceiling HP39 Length 1670 cm with one single door leaf	No	1.00		
9.2.1.40	High partition to ceiling HP40 Length 1670 cm with one single door leaf	No	1.00		
9.2.1.41	High partition to ceiling HP41 Length 9550 cm with one single door leaf	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.2.1.42	High partition to ceiling HP42 Length 1670 cm with one single door leaf	No	1.00		
9.2.1.43	High partition to ceiling HP43 Length 1385 cm with two single doors leaf	No	1.00		
9.2.1.44	High partition to ceiling HP44 Length 1670 cm with one single door leaf	No	1.00		
9.2.1.45	High partition to ceiling HP45 Length 9550 cm with one single door leaf	No	1.00		
9.2.1.46	High partition to ceiling HP46 Length 2314 cm with four single doors leaf	No	1.00		
9.2.1.47	High partition to ceiling HP47 Length 1965 cm with two single doors leaf	No	1.00		
9.2.1.48	High partition to ceiling HP48 Length 6500 cm with one single door leaf	No	1.00		
9.2.1.49	High partition to ceiling HP49 Length 1120 cm with two single doors leaf	No	1.00		
9.2.1.50	High partition to ceiling HP50 Length 1000 cm with one single door leaf	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.2.1.51	High partition to ceiling HP51 Length 1025 cm with one single door leaf	No	1.00		
9.2.1.52	High partition to ceiling HP52 Length 1670 cm with one single door leaf	No	1.00		
9.2.1.53	High partition to ceiling HP53 Length 1385 cm with two single doors leaf	No	1.00		
9.2.1.54	High partition to ceiling HP54 Length 2240 cm with four single doors leaf	No	1.00		
9.2.1.55	High partition to ceiling HP55 Length 9550 cm with one single door leaf	No	1.00		
9.2.1.56	High partition to ceiling HP56 Length 8540 cm with one single door leaf	No	1.00		
9.2.1.57	High partition to ceiling HP57 Length 1670 cm with one single door leaf	No	1.00		
9.2.1.58	High partition to ceiling HP58 Length 1670 cm with one single door leaf	No	1.00		
9.2.1.59	High partition to ceiling HP59 Length 1670 cm with one single door leaf	No	1.00		
9.2.1.60	High partition to ceiling HP60 Length 9550 cm with one single door leaf	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.2.1.61	High partition to ceiling HP61 Length 2455 cm with four single doors leaf	No	1.00		
9.2.1.62	High partition to ceiling HP62 Length 3290 cm with four single doors leaf	No	1.00		
9.2.1.63	High partition to ceiling HP63 Length 1915 cm with two single doors leaf	No	1.00		
9.2.1.64	High partition to ceiling HP64 Length 2070 cm with three single doors leaf	No	1.00		
9.2.2	Low Partition All dimension are approximate Site dimension to be considered Level 10				
9.2.2.1	LP1 - Low partition Length 120 cm - Height 150 cm	No	3.00		
9.2.2.2	LP2 - Low partition Length 990 cm - Height 150 cm	No	1.00		
9.2.2.3	LP3 - Low partition Length 272 cm - Height 150 cm	No	1.00		
9.2.2.4	LP4 - Low partition Length 120 cm - Height 150 cm	No	1.00		
9.2.2.5	LP5 - Low partition Length 170 cm - Height 150 cm	No	2.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
	Level 11				
9.2.2.6	LP6 - Low partition Length 245 cm - Height 150 cm	No	1.00		
9.2.2.7	LP7 - Low partition Length 320 cm - Height 150 cm	No	2.00		
9.2.2.8	LP8 - Low partition Length 723 cm - Height 150 cm	No	1.00		
9.2.2.9	LP9 - Low partition Length 240 cm - Height 150 cm	No	2.00		
9.2.2.10	LP10 - Low partition Length 120 cm - Height 150 cm	No	1.00		
9.2.2.11	LP11 - Low partition Length 330 cm - Height 150 cm	No	4.00		
9.2.2.12	LP12 - Low partition Length 165 cm - Height 150 cm	No	1.00		
9.2.2.13	LP13 - Low partition Length 250 cm - Height 150 cm	No	1.00		
	Level 12				
9.2.2.14	LP14 - Low partition Length 230 cm - Height 150 cm	No	2.00		
9.2.2.15	LP15 - Low partition Length 170 cm - Height 150 cm	No	2.00		
9.2.2.16	LP16 - Low partition Length 1305 cm - Height 150 cm	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.2.2.17	LP17 - Low partition Length 365 cm - Height 150 cm	No	1.00		
9.2.2.18	LP18 - Low partition Length 320 cm - Height 150 cm	No	1.00		
9.2.2.19	LP19 - Low partition Length 125 cm - Height 150 cm	No	2.00		
9.2.2.20	LP20 - Low partition Length 990 cm - Height 150 cm	No	1.00		
9.2.2.21	LP21 - Low partition Length 165 cm - Height 150 cm	No	1.00		
9.2.2.22	LP22 - Low partition Length 106 cm - Height 150 cm	No	1.00		
9.2.2.23	LP23 - Low partition Length 170 cm - Height 150 cm	No	2.00		
9.2.2.24	LP24 - Low partition Length 245 cm - Height 150 cm	No	1.00		
9.2.2.25	LP25 - Low partition Length 415 cm - Height 150 cm	No	1.00		
9.2.2.26	LP26 - Low partition Length 415 cm - Height 150 cm	No	2.00		
	<u>Level 13</u>				
9.2.2.27	LP27 - Low partition Length 165 cm - Height 150 cm	No	2.00		
9.2.2.28	LP28 - Low partition Length 350 cm - Height 150 cm	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.2.2.29	LP29 - Low partition Length 230 cm - Height 150 cm	No	2.00		
9.2.2.30	LP30 - Low partition Length 905 cm - Height 150 cm	No	1.00		
9.2.2.31	LP31 - Low partition Length 1305 cm - Height 150 cm	No	1.00		
9.2.2.32	LP32 - Low partition Length 365 cm - Height 150 cm	No	1.00		
9.2.2.33	LP33 - Low partition Length 125 cm - Height 150 cm	No	1.00		
9.2.2.34	LP34 - Low partition Length 165 cm - Height 150 cm	No	1.00		
9.2.2.35	LP35 - Low partition Length 990 cm - Height 150 cm	No	1.00		
9.2.2.36	LP36 - Low partition Length 130 cm - Height 150 cm	No	2.00		
9.2.2.37	LP37 - Low partition Length 320 cm - Height 150 cm	No	2.00		
9.2.2.38	LP38 - Low partition Length 245 cm - Height 150 cm	No	1.00		
9.2.2.39	LP39 - Low partition Length 245 cm - Height 150 cm	No	1.00		
9.2.2.40	LP40 - Low partition Length 415 cm - Height 150 cm	No	1.00		
9.2.2.41	LP41 - Low partition Length 230 cm - Height 150 cm	No	2.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
	Level 14				
9.2.2.42	LP42 - Low partition Length 165 cm - Height 150 cm	No	1.00		
9.2.2.43	LP43 - Low partition Length 350 cm - Height 150 cm	No	1.00		
9.2.2.44	LP44 - Low partition Length 230 cm - Height 150 cm	No	2.00		
9.2.2.45	LP45 - Low partition Length 905 cm - Height 150 cm	No	1.00		
9.2.2.46	LP46 - Low partition Length 1305 cm - Height 150 cm	No	1.00		
9.2.2.47	LP47 - Low partition Length 365 cm - Height 150 cm	No	1.00		
9.2.2.48	LP48 - Low partition Length 125 cm - Height 150 cm	No	2.00		
9.2.2.49	LP49 - Low partition Length 165 cm - Height 150 cm	No	1.00		
9.2.2.50	LP50 - Low partition Length 990 cm - Height 150 cm	No	1.00		
9.2.2.51	LP51 - Low partition Length 1315 cm - Height 150 cm	No	1.00		
9.2.2.52	LP52 - Low partition Length 320 cm - Height 150 cm	No	2.00		
9.2.2.53	LP53 - Low partition Length 170 cm - Height 150 cm	No	4.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.2.2.54	LP54 - Low partition Length 245 cm - Height 150 cm	No	1.00		
9.2.2.55	LP55 - Low partition Length 415 cm - Height 150 cm	No	1.00		
9.2.2.56	LP55a - Low partition Length 230 cm - Height 150 cm	No	2.00		
	Level 15				
9.2.2.57	LP56 - Low partition Length 350 cm - Height 150 cm	No	1.00		
9.2.2.58	LP57 - Low partition Length 230 cm - Height 150 cm	No	2.00		
9.2.2.59	LP58 - Low partition Length 905 cm - Height 150 cm	No	1.00		
9.2.2.60	LP59 - Low partition Length 1305 cm - Height 150 cm	No	1.00		
9.2.2.61	LP60 - Low partition Length 365 cm - Height 150 cm	No	1.00		
9.2.2.62	LP61 - Low partition Length 125 cm - Height 150 cm	No	2.00		
9.2.2.63	LP62 - Low partition Length 165 cm - Height 150 cm	No	2.00		
9.2.2.64	LP63 - Low partition Length 990 cm - Height 150 cm	No	2.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.2.2.65	LP64 - Low partition Length 125 cm - Height 150 cm	No	2.00		
9.2.2.66	LP65 - Low partition Length 365 cm - Height 150 cm	No	2.00		
9.2.2.67	LP66 - Low partition Length 170 cm - Height 150 cm	No	5.00		
9.2.2.68	LP67 - Low partition Length 245 cm - Height 150 cm	No	1.00		
9.2.2.69	LP68 - Low partition Length 415 cm - Height 150 cm	No	1.00		
9.2.2.70	LP69 - Low partition Length 230 cm - Height 150 cm	No	1.00		
9.2.2.71	LP70 - Low partition Length 165 cm - Height 150 cm	No	1.00		
	<u>Level 16</u>				
9.2.2.72	LP71 - Low partition Length 165 cm - Height 150 cm	No	1.00		
9.2.2.73	LP72 - Low partition Length 350 cm - Height 150 cm	No	1.00		
9.2.2.74	LP73 - Low partition Length 230 cm - Height 150 cm	No	2.00		
9.2.2.75	LP74 - Low partition Length 905 cm - Height 150 cm	No	1.00		
9.2.2.76	LP75 - Low partition Length 1305 cm - Height 150 cm	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.2.2.77	LP76 - Low partition Length 365 cm - Height 150 cm	No	1.00		
9.2.2.78	LP77 - Low partition Length 125 cm - Height 150 cm	No	2.00		
9.2.2.79	LP78- Low partition Length 165 cm - Height 150 cm	No	1.00		
9.2.2.80	LP79 - Low partition Length 990 cm - Height 150 cm	No	1.00		
9.2.2.81	LP80 - Low partition Length 1065 cm - Height 150 cm	No	1.00		
9.2.2.82	LP81 - Low partition Length 365 cm - Height 150 cm	No	2.00		
9.2.2.83	LP82 - Low partition Length 170 cm - Height 150 cm	No	8.00		
9.2.2.84	LP83 - Low partition Length 1285 cm - Height 150 cm	No	1.00		
9.2.2.85	LP84 - Low partition Length 240 cm - Height 150 cm	No	1.00		
	<u>Level 17</u>				
9.2.2.86	LP85 - Low partition Length 245 cm - Height 150 cm	No	1.00		
9.2.2.87	LP86 - Low partition Length 295 cm - Height 150 cm	No	1.00		
9.2.2.88	LP87 - Low partition Length 130 cm - Height 150 cm	No	2.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.2.2.89	LP88 - Low partition Length 165 cm - Height 150 cm	No	2.00		
9.2.2.90	LP89 - Low partition Length 990 cm - Height 150 cm	No	2.00		
9.2.2.91	LP90 - Low partition Length 125 cm - Height 150 cm	No	6.00		
9.2.2.92	LP91 - Low partition Length 1235 cm - Height 150 cm	No	1.00		
9.2.2.93	LP92 - Low partition Length 250 cm - Height 150 cm	No	2.00		
9.2.2.94	LP93 - Low partition Length 365 cm - Height 150 cm	No	2.00		
9.2.2.95	LP94 - Low partition Length 985 cm - Height 150 cm	No	1.00		
9.2.2.96	LP95 - Low partition Length 603 cm - Height 150 cm	No	1.00		
9.2.2.97	LP96 - Low partition Length 165 cm - Height 150 cm	No	5.00		
9.2.2.98	LP97 - Low partition Length 1605 cm - Height 150 cm	No	1.00		
	Level 18				
9.2.2.99	LP98 - Low partition Length 85 cm - Height 150 cm	No	4.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.2.2.100	LP99 - Low partition Length 990 cm - Height 150 cm	No	2.00		
9.2.2.101	LP100 - Low partition Length 165 cm - Height 150 cm	No	4.00		
9.2.2.102	LP101 - Low partition Length 365 cm - Height 150 cm	No	2.00		
9.2.2.103	LP102 - Low partition Length 170 cm - Height 150 cm	No	8.00		
9.2.2.104	LP103 - Low partition Length 250 cm - Height 150 cm	No	2.00		
9.2.2.105	LP104 - Low partition Length 415 cm - Height 150 cm	No	1.00		
	Level 19				
9.2.2.106	LP105 - Low partition Length 125 cm - Height 150 cm	No	2.00		
9.2.2.107	LP106 - Low partition Length 165 cm - Height 150 cm	No	1.00		
9.2.2.108	LP107 - Low partition Length 990 cm - Height 150 cm	No	1.00		
9.2.2.109	LP108 - Low partition Length 1235 cm - Height 150 cm	No	1.00		
9.2.2.110	LP109 - Low partition Length 365 cm - Height 150 cm	No	2.00		
9.2.2.111	LP110 - Low partition Length 170 cm - Height 150 cm	No	4.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.2.2.112	LP111 - Low partition Length 250 cm - Height 150 cm	No	2.00		
9.2.2.113	LP112 - Low partition Length 415 cm - Height 150 cm	No	1.00		
	Level 20				
9.2.2.114	LP113 - Low partition Length 90 cm - Height 150 cm	No	4.00		
9.2.2.115	LP114 - Low partition Length 990 cm - Height 150 cm	No	2.00		
9.2.2.116	LP115 - Low partition Length 170 cm - Height 150 cm	No	2.00		
9.2.2.117	LP116 - Low partition Length 170 cm - Height 150 cm	No	2.00		
9.2.2.118	LP117 - Low partition Length 120 cm - Height 150 cm	No	2.00		
9.2.2.119	LP118 - Low partition Length 495 cm - Height 150 cm	No	2.00		
9.2.2.120	LP119 - Low partition Length 240 cm - Height 150 cm	No	3.00		
9.2.2.121	LP120 - Low partition Length 865 cm - Height 150 cm	No	1.00		
	Level 21				
9.2.2.122	LP121 - Low partition Length 245 cm - Height 150 cm	No	2.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.2.2.123	LP122 - Low partition Length 875 cm - Height 150 cm	No	1.00		
9.2.2.124	LP123 - Low partition Length 990 cm - Height 150 cm	No	2.00		
9.2.2.125	LP124 - Low partition Length 125 cm - Height 150 cm	No	4.00		
9.2.2.126	LP125 - Low partition Length 165 cm - Height 150 cm	No	1.00		
9.2.2.127	LP126 - Low partition Length 240 cm - Height 150 cm	No	4.00		
9.2.2.128	LP127 - Low partition Length 160 cm - Height 150 cm	No	2.00		
9.2.2.129	LP128 - Low partition Length 365 cm - Height 150 cm	No	2.00		
9.2.2.130	LP129 - Low partition Length 1235 cm - Height 150 cm	No	1.00		
9.2.2.131	LP130 - Low partition Length 130 cm - Height 150 cm	No	1.00		
9.2.2.132	LP131 - Low partition Length 415 cm - Height 150 cm	No	1.00		
9.2.2.133	LP132 - Low partition Length 240 cm - Height 150 cm	No	1.00		
	Level 22				
9.2.2.134	LP133 - Low partition Length 170 cm - Height 150 cm	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.2.2.135	LP134 - Low partition Length 350 cm - Height 150 cm	No	1.00		
9.2.2.136	LP135 - Low partition Length 230 cm - Height 150 cm	No	1.00		
9.2.2.137	LP136 - Low partition Length 295 cm - Height 150 cm	No	1.00		
9.2.2.138	LP137 - Low partition Length 130 cm - Height 150 cm	No	5.00		
9.2.2.139	LP138 - Low partition Length 990 cm - Height 150 cm	No	2.00		
9.2.2.140	LP139 - Low partition Length 170 cm - Height 150 cm	No	2.00		
9.2.2.141	LP140 - Low partition Length 905 cm - Height 150 cm	No	1.00		
9.2.2.142	LP141 - Low partition Length 1305 cm - Height 150 cm	No	1.00		
9.2.2.143	LP142 - Low partition Length 365 cm - Height 150 cm	No	1.00		
9.2.2.144	LP143 - Low partition Length 365 cm - Height 150 cm	No	2.00		
9.2.2.145	LP144 - Low partition Length 1235 cm - Height 150 cm	No	1.00		
9.2.2.146	LP145 - Low partition Length 170 cm - Height 150 cm	No	4.00		
9.2.2.147	LP146 - Low partition Length 240 cm - Height 150 cm	No	3.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.2.2.148	LP147 - Low partition Length 415 cm - Height 150 cm	No	1.00		
	Level 23				
9.2.2.149	LP148 - Low partition Length 130 cm - Height 150 cm	No	2.00		
9.2.2.150	LP149 - Low partition Length 240 cm - Height 150 cm	No	1.00		
9.3	**PAINTING** NOTE: Finish painting, where required, to metalwork, woodwork and joinery, doors and door frames and similar prefabricated assemblies and installed components, is included as an associated and integral part of the work of completion of such items, by reference to the relevant work descriptions in other sections of the Bill of Quantities. Finish paint and painting, complete as specified and detailed; INCLUDING for surface preparation, rubbing and puttying, (Minimum 3 layers putty) primers, undercoats, finish coats; and all other related ancillaries as indicated or required to:				
9.3.1	**Exterior Surfaces** Plaster render and Paint:				
9.3.1.1	Repair and clean exterior walls, plaster, ceiling, partition generally, including soffits and margin (all types, colors and fixtures) (the building) water proofing part	m2	1,550.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.3.1.2	Remove and repaint all exterior paint plaster, ceiling, partition generally, including soffits and margin (all types, colors and fixtures) (the building) water proofing part for the whole exterior surfaces	m2	1,550.00		
9.3.1.3	External Fairfaced Concrete Rubbed, cleaned and made smooth surfaces with any durable heavy duty material and repaint with waterproof paint as specified	m2	6,194.00		
9.3.1.4	External Marble Cladding Existing marble cladding finish to be refurbished and replace broken tiles with new	m2	429.00		
9.3.1.4a	External Marble Cladding New Marble tiles similar to existing	m2	700.00		
9.3.1.5	Remove the damaged building sign board and reinstall at the south side. The EDL name in Arabic similar to the existing. Cost to include: - Labour - Materials - Electrical installation and wiring an all accessories and timer	No	1.00		
9.3.1.6	Remove the damaged building sign board and reinstall at the north side. The EDL name in Latin similar to the existing. Cost to include: Labour Materials Electrical installation and wiring an all accessories and timer	No	1.00		
9.3.1.7	Building Name Sign (Small Size) in latin and arabic similar to the existing at the entrance level 8 - bronze letters to be fixed EDL in Latin name to be determined by Owner the cost of the lettering is included with the cost of construction	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.3.2	**Interior Surfaces** Plaster render and Paint (including all paint layers (undercoat, putty, paint layers…ect)				
9.3.2.1	Repair interior walls, plaster, ceiling, partition generally, including soffits and margin (all types, colors and fixtures) (the building) water proofing part .	m2	41,383.00		
9.3.2.2	Repair Interior paint walls, ceiling, partition generally, including soffits and margin (all types, colors and fixtures) (the building) water proofing part for the whole interior surfaces	m2	41,383.00		
9.3.2.3	New plaster for wall surfaces	m2	13,000.00		
9.3.2.4	New plaster for ceiling surfaces	m2	520.00		
9.4	**STAIRS** Rehabilitate, complete all the stairs and their handrail and posts - Treads to be 3 cm thick carrara first choice marble - Riser to be 2 cm thick carrara first choice - All vertical supports to be stainless steel - All horizontal rails to be Ø 5cm stainless steel tube otherwise indicated on plans. Number and dimension of stairs are only indicative stairs to be executed are as existing				
9.4.1	Stair 1 Complete new stair Fire espcape, the work should be done by high skill labour and work to include all steel and concrete works and fixation at ground and at the side wall of the Tower included with steel	Item	included in 5.1.3.1 above		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.4.2	Stair 2 Complete new stair Fire espcape, the work should be done by high skill labour and work to include all steel and concrete works and fixation at ground and at the side wall of the Tower included with steel	Item	included in 5.1.3.2 above		
9.4.3	Stair 1a Rehabilitate and provide stainless steel handrail on all walls width of stairs as per site dimension Number of treads and risers: 54 units Accumulated area of landings: 21m2 Accumulated length of base: 70m	Item	1.00		
9.4.4	Stair 2a Rehabilitate and provide stainless steel handrail on all walls width of stairs as per site dimension Number of treads and risers: 37units Accumulated area of landings: 14m2 Accumulated length of base: 47m	Item	1.00		
9.4.5	Stair 3 Provide wall hung timber rail on stainless steel post support change all tread and risers width of stairs as per site dimension Number of treads and risers: 482 units Accumulated area of landings: 25m2 Accumulated length of base: 332m	Item	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.4.6	Stair 4 Provide wall hung stainless steel handrail on both sides change all tread and risers width of stairs as per site dimension Number of treads and risers: 5 units Accumulated area of landings: 3m2 Accumulated length of base: 9m	Item	1.00		
9.4.7	Stair 5 Provide wall hung stainless steel handrail on both sides change all tread and risers width of stairs as per site dimension Number of treads and risers: 13units Accumulated area of landings: 7m2 Accumulated length of base: 21m	Item	1.00		
9.4.8	Stair 6 Provide wall hung stainless steel handrail on both sides change all tread and risers width of stairs as per site dimension Number of treads and risers: 13 units Accumulated area of landings: 0m2 Accumulated length of base: 9m	Item	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.4.9	Stair 7 Rehabilitate and repaint the steel stair with all handrail after removal of all rust and old paint Number of treads and risers: 7 units Accumulated area of landings: 0m2 Accumulated length of base: 0m	Item	1.00		
9.4.10	Stair 8 Rehabilitate and provide stainless steel handrail on all walls width of stairs as per site dimension Number of treads and risers: 18 units Accumulated area of landings: 5m2 Accumulated length of base: 0m	Item	1.00		
9.4.11	Stair 9 Rehabilitate completely the stair and provide on both side new stainless steel handrail for the stair and balcony width of stairs as per site dimension Number of treads and risers: 18 units Accumulated area of landings: 0m2 Accumulated length of base: 0m	Item	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.4.12	Stair 9a Rehabilitate and provide stainless steel handrail on all walls width of stairs as per site dimension Number of treads and risers: 11 units Accumulated area of landings: 4m2 Accumulated length of base: 12m	Item	1.00		
9.4.13	Stair 10 Rehabilitate and change the broken tiles tread and riser by similar ; and rehabilitate the both stair walls also :change all broken tiles by similar new tiles width of stairs as per site dimension Number of treads and risers: 33 units Accumulated area of landings: 7m2 Accumulated length of base: 0m	Item	1.00		
9.4.14	Stair 11 Rehabilitate and change all broken tiles tread and riser by similar ; also change all broken tiles at both side of wall stair by similar tiles width of stairs as per site dimension Accumulated area of treads: 276m2 Accumulated area of risers: 45m2 Accumulated area of landings: 0m2 Accumulated length of base: 0m	Item	1.00		
9.4.15	Stair 12 Provide wall hung stainless steel handrail on both sides change all tread and risers width of stairs as per site dimension Number of treads and risers: 18 units Accumulated area of landings: 5m2 Accumulated length of base: 0m	Item	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.4.16	Stair 13 provide wall hung stainless steel handrail change all tread and risers width of stairs as per site dimension Number of treads and risers: 17 units Accumulated area of landings: 0m2 Accumulated length of base: 12m	Item	1.00		
9.4.17	Stair 14 Rehabilitate completely the stair and provide on both side new stainless steel handrail for the stair width of stairs as per site dimension Number of treads and risers: 19 units Accumulated area of landings: 3m2 Accumulated length of base: 0m	Item	1.00		
9.4.18	Stair 15 Provide new oak wood balustrade same to existing width of stairs as per site dimension Number of treads and risers: 216 units Accumulated area of landings: 5m2 Accumulated length of base: 127m	Item	1.00		
9.4.18a	Stair 16 Construct completely the stair including reinforced concrete works and steel reinforcements, and provide on both side new stainless steel handrail for the stair width of stair is 120 cm Number of treads and risers: 68 units Accumulated area of landings: 24 m2 Accumulated length of base: 72m	Item	1.00		
9.4.18a	Stair 17 Construct completely the stair including reinforced concrete works and steel reinforcements, and provide on both side new stainless steel handrail for the stair width of stair is 120 cm Number of treads and risers: 41 units Accumulated area of landings: 24 m2 Accumulated length of base: 60m	Item	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.5	**LIGHT PARTITION**				
	Repair and supply flooring similar to existing including for substrade, preparation all materials setting joints and grouting and all needed works (Mock-up sample to be provided on site during construction for approval) Work to include:				
9.5.a	Floor Finish for Levels 1 - 8				
9.5.a.1	Concrete (C)	m2	325.00		
9.5.a.2	Ceramic Flooring (CEO)	m2	1,237.00		
9.5.a.3	Marble (M)	m2	300.00		
9.5.a.4	Rub the Concrete and paint Epoxy (RC)	m2	19,258.00		
9.5.a.5	Repair Ceramic Flooring (RCE)	m2	3,062.00		
9.5.a.6	Repair Marble (RM)	m2	1,219.00		
9.5.a.7	Repair Terrazo (RT)	m2	7,324.00		
9.5.a.8	Repair Terrazo and Complete for Terrazo (RT + CT)	m2	387.00		
9.5.a.9	Repair Terrazo and (RT + LT)	m2	4.00		
9.5.a.10	Repair Existing Miscellaneous Tiles (RTE) and not stated above	m2	2,101.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.5.a.11	(STEEL)	m2	3.00		
9.5.a.12	Terrazo (T)	m2	197.00		
9.5.a.13	Timber Flooring (TI) - thickness 18 mm as manufactured by USA or West Europe factories	m2	524.00		
9.5.a.14	Rehabilitate Existing Stair Landings	m2	75.00		
9.5.a.15	Rehabilitate Existing Stair Tread included in the cost of Steel	m	0.00		
9.5.a.16	Rehabilitate Existing Stair Riser included in the cost of Steel	m	0.00		
9.5.b	Floor Finish for Levels 10 - 23				
9.5.b.1	Ceramic Flooring (CEO)	m2	11,231.00		
9.5.b.2	Ceramic Flooring for Services (CE)	m2	514.00		
9.5.b.3	Marble (M)	m2	151.00		
9.6.a	Base Finish for Levels 1 - 8				
9.6.a.1	Concrete © included in the cost of Flooring	m	0.00		
9.6.a.2	Ceramic Flooring (CEO)	m	1,002.00		
9.6.a.3	Marble (M)	m	400.00		
9.6.a.4	Rub the Concrete and paint Epoxy (RC) included in the cost of Flooring	m	0.00		
9.6.a.5	Repair Ceramic Flooring (RCE)	m	2,492.00		
9.6.a.6	Repair Marble (RM)	m	395.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.6.a.7	Repair Terrazo (RT)	m	3,393.00		
9.6.a.8	Repair Terrazo and Complete for Terrazo (RT + CT)	m	173.00		
9.6.a.9	(RT + LT)	m	9.00		
9.6.a.10	Repair Existing Miscellaneous Tiles (RTE) and not mentioned	m	886.00		
9.6.a.11	(STEEL) included in the cost of Flooring	m	7.00		
9.6.a.12	Terrazo (T)	m	205.00		
9.6.a.13	Timber Flooring (TI)	m	456.00		
9.6.a.14	Rehabilitate Existing Skirtings for Stairs on Steps	m	212.00		
9.6.a.15	Rehabilitate Existing Skirtings for Stairs on Landings	m	137.00		
9.6.b	Base Finish for Levels 10 - 23 + 9				
9.6.b.1	Ceramic Flooring (CEO)	m	5,430.00		
9.6.b.2	Ceramic Flooring for Services (CE)	m	817.00		
9.6.b.3	Marble (M)	m	331.00		
9.7.a	Wall Finishes for Levels 1 - 8				
9.7.a.1	Repair Marble Walls, add new Tiling similar to existing where needed	m2	390.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.7.b	Wall Finishes for Levels 10 - 23 + 9				
9.7.b.1	Repair Marble Walls, add new Tiling similar to existing where needed	m2	974.00		
9.8.a	Ceiling Finish for Levels 1 - 8				
9.8.a.1	Acrylic emulsion paint on sand cement plaster (P)	m2	192.00		
9.8.a.2	Fairfaced Concrete (RC)	m2	3,952.00		
9.8.a.3	Repair Plaster (RP)	m2	21,674.00		
9.8.a.4	Repair Suspended Ceiling (RSC)	m2	1,115.00		
9.8.a.5	Suspended ceiling (SC)	m2	3,764.00		
9.8.b	Ceiling Finish for Levels 10 - 23 + 9				
9.8.b.1	Repair Plaster (RP)	m2	158.00		
9.8.b.2	P.P - Base Paint on Cement Plaster	m2	250.00		
9.8.b.3	A.C - 60cm x 60cm Acoustic Tiles. Suspended Ceiling with Special Adjustable Hangers	m2	8,764.00		
9.8.b.4	A.C.E - 60cm x wall to wall accoustic panels suspended ceiling with special heavy-duty adjustable hangers	m2	1,545.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
9.8.b.5	S.A.S - 20cm Aluminum Strips for suspended Ceilings for services areas 0.8mm thick with insulation of rockwool on top	m2	755.00		
9.8.b.6	D.C - Decorative Ceiling (refer to plans and details)	m2	151.00		
9.8.b.7	F.A.C - One Hour Fire Resistant Acoustic Tile Suspended Ceiling	m2	430.00		
9.8.b.8	S.A.P - Sound Absorption Panels	m2	175.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	DIVISION 10- SPECIALITIES				
10.1	Toilet Accessories: Supply and install all needed accessories Place all frame, cover joints (stainless steel) Install items and their contact with the All works should be done as per the				
10.1.1	Paper Roller Holder Supply and install paper holder no rust, no All works should be done as the Engineer	No	131.00		
10.1.2	Soap Dispenser Supply and install stainless steel 316 no All works should be done as the Engineer	No	152.00		
10.1.3	Paper Holder Box Supply and install paper holder box from The box should be from a good All works should be done as the Engineer	No	57.00		
10.1.4	Mirror for Lavatories Supply and install 6mm glass mirror for The mirror should be placed on 3mm thick All works should be done as the Engineer				
10.1.4.1	Mirror (Dimension as per site conditions and	No	152.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
10.1.5	Handicapped Toilet Accessories Supply and install all needed bars for the Work to include: Materials Labors and all needed items as per the Engineer				
10.1.5.1	Supply and install vertical grab rail 60cm	No	15.00		
10.1.5.2	Supply and install Horizontal grab rail 60cm	No	15.00		
10.1.5.3	Supply and install Drop Down Rail	No	15.00		
10.1.5.4	Alarm pull cord for emergency	No	15.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
PART-1	**CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS**				
Division	**SUMMARY**				
1	GENERAL REQUIREMENTS				
2	SITE WORK AND PREPARATION				
3	CONCRETE WORK				
4	MASONRY				
5	METALS				
6	WOOD, PLASTICS AND COMPOSITES				
7	THERMAL AND MOISTURE PROTECTION				
8	OPENING AND WOODEN DOOR SCHEDULES				
9	FURNITURE - LIGHT PARTITION GYPSUM BOARD				
10	SPECIALITIES				
CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS CARRIED TO PRICE SUMMARY					

PART 1a
STRENGTHENING WORKS
(Prepared by EDL)

REHABILITATION OF EDL CENTRAL BUILDING
MAR MICHAEL ROAD
BEIRUT – LEBANON

PART-1a
STRENGTHENING WORKS
(Prepared by EDL)

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
1	**DEMOLITION AND REMOVAL OF HAZARDIOUS MATERIAL**				
1.1	**INTERNAL DEMOLITION**				
	A] Demolition works needed for hazardious materials inside the building - Rockwool - Loose suspended elements (Ducts. Lighting fixtures, false ceiling...) - Finishing items (Partition walls, Aluminum panels, wooden cabinets...) - The contractor shall deliver any usefull dismantled items (Electrical fixtures, doors, boards, partitions, cameras, speakers...) to the building administration. - The Contractor has to remove the debris completely to an approved dumps.	m2	185.00		
	B] Demolition works of tiles and existing SOG around columns/walls to be jacketed (as indicated in the drawing) - The Contractor has to remove the debris completely to an approved dumps.	m2	90.00		
	C] Demolition works of part of Existing slabs, drop beams and walls to allow the enlargment of the elevator core wall "core 1" as per details and drawings. - The Contractor has to remove the debris completely to an approved dumps.	m3	91.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
	D] Demolition works of part of Existing slabs, and drop beams to allow the construction of fire escape stairs in basement floors as per details and drawings. - The Contractor has to remove the debris completely to an approved dumps.	m2	105.00		
1.2	**EXTERNAL DEMOLITION** Demolition works needed for hazardious materials outside the building - Loose suspended elements - Price including Scaffolding with all needed accesories - The Contractor has to remove the debris completely to an approved dumps.	m2	625.00		
1.3	**EXCAVATION:** Excavation in soil under existing SOG to reach existing foundation top face level to allow vertical concrete jacketing to be done.	m3	70.00		
1.4	**BACKFILLING:** Backfill works should include all necessary tasks to accomplish the required job, as per specifications and to the notes of the consultant engineer and his approval.	m3	70.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
1.5	**FOUNDATION CONCRETE TESTING:** Contractor will be responsible for checking the existing foundations properties: - Concrete compressive strength - Steel tensile strength - Footing dimensions (Length, width and thikness) - Footing locations - All needed works as per the Engineer instructions	LS	1.00		
1.6	**PRECAST AND POST TENSION BEAMS TESTING:** Contractor will be responsible for checking and testing the existing beams properties: - Concrete compressive strength - Steel tensile strength - Calculation Note - All needed works as per the Engineer instructions	LS	1.00		
1.7	**STEEL REINFORCEMENT TESTING AND ASSESSMENT:** Contractor will be responsible for checking and testing the existing steel reinforcement properties such as Steel tensile strength etc. - All needed works as per the Engineer instructions	LS	1.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
2	**CONCRETE WORKS**				
2.1	**A] REINFORCED CONCRETE SLAB AND BEAMS:** Supply, cast and vibrate concrete for new slab in Bas.1 " Drawing number S5-10 " and new beams with a compressive strength 450 kg/cm2, cost to include: - Formwork, Grooves and coring in existing concrete - Drilling and cleaning for epoxy anchored dowels, epoxy grout and epoxy anchored steel bars - Curing the concrete - Labors - Item excludes main steel reinforcement - All needed items as per the Engineer instructions	m3	100.00		
	B] REINFORCED CONCRETE SLAB ON GRADE: Supply, cast and vibrate concrete for SOG Thickness = 16 cm with one layer steel reinforcement in both direction with a compressive strength 350kg/cm2, cost to include: - Formwork - Item excludes steel reinforcement - Curing the concrete - Labors - All needed items as per the Engineer instructions	m2	90.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
2.2	**REINFORCED CONCRETE JACKETING (REFER TO METHOD STATMENT IN DRAWINGS)** The following procedure to be followed: 1. Adding steel connectors into the existing element at spaces 15 cm to 25cm (Fixed: 16 bars each 1m2).Those connectors are added into the element by making holes 2-4mm larger than the diameter of the used steel connectors and 15cm depth. 2. Filling the holes with an appropriate epoxy material then inserting the connectors into the holes. 3. Adding vertical/horizontal steel connectors to fasten the vertical/horizontal steel bars. 4. Installing the new vertical steel bars and stirrups of the jacket according to the designed dimensions and diameters. 5. Grooves in existing concrete 6. Rinsing the element with water to remove dust and debris. 7. Installation of the wooden or metal formwork 8. Pouring the concrete of the jacket, while using vibrator. The concrete used should be of low shrinkage and consists of fine aggregates, sand, cement and additional materials to prevent shrinkage.				
2.2.1	Reinforced Concrete Jacketing: F'c = 50 Mpa **(Vertical Elements)**	m3	1885.00		
2.2.2	Reinforced Concrete Jacketing: F'c = 45 Mpa **(Horizontal Elements)**	m3	80.00		
2.3	**STEEL REINFORCEMENT** High yield steel reinforcing bars, as specified and detailed, installed complete; INCLUDING scheduling; cutting, bending, fabricating, lapping and splicing; chairs, spacers, supports and tie wires; and all other related ancillaries as indicated or required on drawings	Ton	433.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
2.4	**<u>CONCRETE SURFACE REPAIR</u>** Work to include: - Determine the location of the crack - Remove all loose items and widen the crack (10 cm or as per engineer instruction) - Check the steel reinforcement - Rub the steel reinforcement properly to remove all rust - Paint the steel with anti-corrosion layer - Fill the places with anti-shrinkage cement/concrete - Apply sand cement plaster where applied All needed items as per the Engineer instructions				
2.4.1	Rehabilitate Cracks in Concrete **(surfaces)**	m2	353.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
	From Collection				
2.5	**EPOXY INJECTION FOR CONCRETE CRACKS** **PREPARATION:** Clean the surface well and remove any dust and paint around the crack, provide V groove along the crack using the grinder and the V groove will be cleaned properly using water. Provide injection holes with drilled as standard and drawing as per approval straight into the crack. Carry out the injection port. Fixing injection packers the injection packers shall be inserted into pre-drilled holes at intervals along the length of each cracks. The distance between each packer will depend upon the width and depth of the crack. Spacing shall be close enough to ensure that the resin will penetrate along the crack to the next point of injection. In the case of a wall or slab cracked all the way through, packers, shall be located on both sides with those at the back placed at midway points beteen those at the front. To carried sealing activity of the V groove with Sikadur 31 CF or equivalent. **Injection of Epoxy Resin** To injecting Sikadur 52 or equivilant into the V groove injection line (Low viscosity epoxy				
2.5.1	Epoxy Injection in Beam	lm	96.00		
2.5.2	Epoxy Injection in Walls	lm	225.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
3	**EXPANSION JOINTS & ANTI-CARBONATE PAINT**				
3.1	**REHABILITATE THE EXISTING EXPANSION JOINTS** works to include: - Remove all materials and elements installed on the expansion joint. - Clean the surface to accept the new filling and flashing. - Placement of compressive fills for joints in walls and ceiling. - All related accessories and materials - New covers (aluminum flashing) - All need works as per the Engineer instructions				
3.1.1	**VERTICAL EXPANSION JOINTS (WALLS ,COLUMNS AND CORES)**	lm	2650.00		
3.1.2	**EXPANSION JOINTS (IN SLABS)**	lm	2275.00		
3.2	**ANTI-CARBONATE PAINT** works to include: - Remove existing plaster. - Fill all gaps and cracks with non-shrinkage structural grout. - Clean the surface to accept the paint layer. - Apply anti-carbonate paint (2 layers minimum) - All need works as per the Engineer instructions	m2	1500.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US.$.	Total Price US.$.
PART-1a	**STRENGTHENING WORKS**				
	SUMMARY				
1	DEMOLITION AND REMOVAL OF HAZARDIOUS MATERIAL				
2	CONCRETE WORKS				
3	EXPANSION JOINTS & ANTI-CARBONATE PAINT				
STRENGTHENING WORKS CARRIED TO PRICE SUMMARY					

PART 2
MECHANICAL ENGINEERING SERVICES

PART 2

MECHANICAL ENGINEERING SERVICES

Preambles

Mechanical equipment has been measured in complete items unless otherwise stated in the specification and bill item. The rates for all items shall include for supplying all materials, fixing, terminating and connecting all accessories and components for a complete and functional item.

The Contractor shall consult the relevant sections of the specification if he has any query, or doubt, as to the extent of any item.

The Contractor shall consult with, and employ specialist sub-contractors for specific items of work as identified in the specification. All costs associated with such works shall be included in the tender. Specialist sub-contractors will be of recognized expertise, acceptable to the engineer.

All items of mechanical plant shall be connected to the control and power systems by wiring out from the mechanical control centres. All wiring shall be carried out by competent and qualified electricians under the mechanical scope of works.

Rates and prices entered against the items shall include for all costs in connection with the following :

* Connection items of plant and equipment as necessary to the control and power systems.

* Provision of starter's, protective devices, automatic change over/load shedding facilities, remote and local isolation/emergency shut off as appropriate, control functions and alarms to achieve the intent outlined in the Control Section of the Specification. All motors to be of the 'Low Energy' type as outlined in the Specification.
* Off loading, storing, connecting up, protecting as necessary, testing, flushing, cleaning, charging, balancing, commissioning and testing individual items of plant as well as complete systems installations all as specified and directed by the Engineer.
* Supports, brackets and fixings of every description required to complete the works.
* Cutting or forming all holes, mortises, chases and the like in the structure to facilitate the various works and making good in all trades as necessary;
* Coordination with other associated trades, designers and specialists.

REHABILITATION OF EDL CENTRAL BUILDING
MAR MICHAEL ROAD
BEIRUT – LEBANON

PART-3
MECHANICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 1 - GENERAL TECHNICAL REQUIREMENTS - Dismantle and remove outside all existing damaged Mechanical system and piping and take it out of the building as per the Engineer instructions. Any good that can be reused is included in the refund in the Summary. - Allow for compliance in full with the General Technical Requirements section of the specification - Scope regulations and standards. - Installation general. - Electrical Services installation. - Noise and vibration control. - Preparation of shop drawings - Preparation of as built drawings - Inspection testing and commissioning. - Handover procedures and documentation.				
1.1	All above	item	1.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 2 - BELOW GROUND DRAINAGE				
	Sewage,Storm &Vent Pipe Works				
2.1	**SURFACE WATER**				
	Ductile iron grating and frame complete as specified and detailed; include fittings and accessories,excavaion, disposal,concrete bed and all civil work as shown on drawings including all nessecary accessories as detailed and specified.				
2.1.1	Rehabilitate and clean existing channel drains including covers bolted down to frame bars with stainless steel bolts,self-locking type	Item	10.00		
2.1.2	CHD-3000*300*300	No	2.00		
2.2	**DRAINAGE**				
	Below ground drainage pipe water installation complete as specified; invert levels as required; include all clean outs sleeves, fittings and accessories; excavation and disposal; bedding and surround to pipe work and all required accessories and works as detailed and specified.				
	UPVC pipes and fittings to BS. 4514 or equal				
	pipe diameter				
2.2.1	Ø 75 mm	m	5.00		
2.2.2	Ø 110 mm	m	38.00		
2.2.3	Ø 160 mm	m	15.00		
2.2.4	Ø 200 mm	m	40.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
2.3	**DRAINAGE SUMP PITS AND PUMPS**				
	Drainage sump pits and pumps as scheduled and specified; include macerator type pump with inlet guards, guide rails and chains, structural concrete works and sealed access cover, include control panel, power and control wiring with all necessary required accessories as detailed and specified. Drainage sump pit complete with medium duty frame, and cover as specified, detailed and shown on drawings.				
2.3.1	Sump Pit (800 x 800 x 1000)	No	1.00		
2.3.2	600 x 600 medium duty cover	No	2.00		
2.3.3	Rehabilitate and clean existing pit and make it operational Sumersible pumps materials degree of protection shall be IP68	Item	1.00		
2.3.4	P-W-01 (6 m3/h @ 150 Kpa) (1 Duty/1 Standby)	Set	1.00		
2.3.5	Testing and Rehabilitating existing submersible pumps number as per site conditions	Item	2.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
2.4	**DRAINAGE MANHOLES** Drainage manholes complete as specified; invert levels as required; include manhole covers, channels, fittings and accessories as required, include excavation disposal and all civil work as detailed & specified.				
2.4.1	Rehabilitate and clean existing manholes	Item	3.00		
2.5	**DRAINAGE VALVE BOX** Drainage Valve Box including gate valve & piping complete with fitting & accessories, gaskets, bolts, locks and all civil & mechanical works as detailed and specified.				
2.5.1	Rehabilitate existing valves and clean related boxes and change if needed.	Item	2.00		
2.6	**UNDER GROUND OIL INTERCEPTOR/GREASE INTERCEPTOR** Under ground oil interceptor/grease interceptor complete with all excavation, pipe works, including fittings, accessories and all required mechanical & civil works as detailed and specified.				
2.6.1	500 x 500 x 400 mm oil interceptor 3.5 kg oil retention	No	0.00		
2.6.2	Rehabilitate and clean existing oil interceptor	Item	0.00		
2.6.3	700 x 700 x 700 mm oil interceptor	No	1.00		
2.6.4	1000 x 1000 x 1000 mm oil interceptor	No	1.00		
2.6.5	1500 x 1500 x 1200 mm oil interceptor	No	1.00		
2.6.6	2000 x 2000 x 2000 mm oil interceptor	No	2.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
2.7	**Connection to existing network and/or manholes (only connection) including all excavation, pipe work, bedding, backfilling, paving, testing, commissioning and all required mechanical works as per site determination.**	Item	4.00		
2.8	**Spare Parts:**				
2.8.1	**Gate Valves**				
2.8.1.1	ø 65mm	No	2.00		
2.8.2	**Check Valve**				
2.8.2.1	ø 65mm	No	2.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 3 - SANITARY, VENT, WASTE AND RAINWATER PIPEWORK INSTALLATION				
3.1	**Sanitary Waste, Vent & Rainwater Pipe Works** Sanitary fittings complete as specified; include all necessary support, hangers, hoses, valves, traps, accessories and connections to services and wastes; Contractor to select appropriate tap sand thermostatic mixing unit, where required. Sanitary pipe work complete as specified; include all necessary supports, hanger, clean out, sleeves, openings, fittings and accessories as detailed and specified.				
3.1.1	UPVC pipes & fitting to BS 4514 or equal: pipe diameter				
3.1.1.1	Ø 50 mm (MUPVC to BS 5255)	m	862.00		
3.1.1.2	Ø 75 mm	m	1,345.00		
3.1.1.3	Ø 110 mm	m	1,267.00		
3.1.1.4	Ø 125 mm	m	235.00		
3.1.1.5	Ø 160 mm	m	880.00		
3.1.1.6	Ø 200 mm	m	286.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
3.1.2	**Pressure Line: Polypropylene pipes (PN20) Multi-Layer with Aluminum Confirm to DIN 7087/7088 Standard or approved equal**				
3.1.2.1	Ø 63 mm	m	10.00		
3.1.2.2	Rehabilitate and fix properly existing pressure pipes	Item	1.00		
3.2	**ROOF VENT CAP**				
	All roof vent cap shall be installed with all necessary accessories as specified				
3.2.1	RVC-01 - Ø 75 dia. Roof Vent Cap (Not less than 15 cm above finish level)	No	2.00		
3.3	**GULLIES DRAIN**				
3.3.1	**Floor Drain & Floor Cleanouts**				
	Floor drains complete as specified; include all necessary supports, flashings strainers and accessories; and 20x20cm floor drain cover and all as detailed and specified.				
	FD-01/FD-02 (Stainless steel or chrome plated cover)				
3.3.1.1	Ø 75 mm Outlets with PVC body	No	122.00		
3.3.1.2	FCO (only cover)	No	44.00		
3.3.2	**Grating Floor Drain**				
	GFD-01 (300 x 300 heavy duty stainless steel or chrome plated grating cover + PVC body)				
3.3.2.1	Ø 110 mm Outlets	No	8.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
3.3.3	**RAINWATER ROOF DRAIN** Rainwater roof drains complete as specified; include elevated dome strainer, flashing clamp collar, integral gravel guard, fittings and necessary accessories as detailed and specified. RD - 01 (Dome Type PVC cover + PVC body)				
3.3.3.1	Ø 110 mm Outlets	No	44.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 4 - PIPED SYSTEMS (LIQUIDS)				
4.1	**DOMESTIC HOT AND COLD WATER** Domestic hot and cold water, pipe work as specified; include all fittings bends, tees, vents and drains well, isolating and non return valves, strainers, expansion joints, commissioning sets, temperature and pressure gauges, flexible connections and other accessories, fire stops, sleeves, joints, brackets and hangers for a complete installation; include attendance to automatic control specialist and fitting of control devices; and all necessary accessories as detailed and specified.				
4.1.1	**Cold water polypropylene PN20 confirm to DIN 8077/8078 or approved equal Monolayer PPR pipes**				
4.1.1.1	Ø 20 mm	m	1,440.00		
4.1.1.2	Ø 25 mm	m	512.00		
4.1.1.3	Ø 32 mm	m	214.00		
4.1.1.4	Ø 40 mm	m	189.00		
4.1.1.5	Ø 50 mm	m	569.00		
4.1.1.6	Ø 63 mm	m	409.00		
4.1.1.7	Ø 75 mm	m	173.00		
4.1.1.8	Ø 90 mm	m	23.00		
4.1.1.9	Ø 110 mm	m	79.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
4.1.2	**Hot Water Polypropylene PN20 confirm to DIN 8077/8078 or approved equal**				
4.1.2.1	Ø 20 mm	m	7.00		
4.1.2.2	Ø 25 mm	m	1.00		
4.1.2.3	Ø 32 mm	m	3.00		
4.1.3	**Cold Water Polypropylene PN20 confirm to DIN 8077/8078 or approved equal** **Multilayer with Aluminum and UV Protections**				
4.1.3.1	Ø 75 mm	m	10.00		
4.1.3.2	Ø 110 mm	m	175.00		
4.1.4	**Water Hummer Arrestors** Supply and install Water Hummer Arrestors complete with oil necessary accessories as required				
4.1.4.1	WHA (at the end of pipes entering each toilet)	No	50.00		
4.1.5	**Angle Valves** Supply and install Angle Valves complete with all necessary accessories as required				
4.1.5.1	Ø 20 mm - Ø 25 mm	No	350.00		
4.1.6	**Pressure Reducing Valve** Supply and install PRV complete with all necessary accessories as required				
4.1.6.1	Ø 50 mm	No	3.00		
4.1.6.2	Ø 63 mm	No	8.00		
4.1.6.3	Ø 90 mm	No	2.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
4.2	**ELECTRICAL WATER HEATERS**				
	Electrical Water Heater as specified and scheduled; include pipe work connections, temperature and pressure gauges, control and power wiring from control panel, hot water and pipe work connections, control and high limit control valves, isolation and safety valves, thermal insulation, valve boxes, bonding and identification and all necessary accessories as detailed and specified.				
	- Contractor shall provide 5 years limited warranty - Electrical water heater degree of protection shall not be less than IP55				
4.2.1	EWH-01 (75 liters)	No	1.00		
4.2.2	EWH-02 (150 liters)	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
4.3	**BOOSTER COLD WATER AND WATER TRANSFER PUMP** Packaged pump as specified and scheduled; include, external control and power wiring to the control panel, pipe work connections with anti-vibration flexible connections, anti-vibration bases and mounts, isolating and non return valves, test points, temperature and pressure tapings, bonding, identification and thermal insulation and all related civil works and all necessary accessories as detailed and specified. - Impeller (S.S.316) - Duplex (S.S.) - Contractor shall provide 5 years limited warranty - pumps degree of protection shall not be less than IP55 - Exposed pumps degree of protection shall not be less than IP68				
4.3.1	P-CW-01 [10 m3 / h @ 950 kpa] (1Duty/1Standby)	Set	1.00		
4.4	**WATER METER** Intake water meter unit in concrete housing as required complete with all valves, fittings, box cover, and all required accessories as detailed & specified.				
4.4.1	Flow meter valve box 300 x 300 x 300 mm	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
4.5	**WATER TANKS**				
	Polyethylene cold water tanks to include all interconnections, valves, drain, vent, overflow and controls as necessary and all required fittings as detailed and specified.				
	- water tanks degree of protection shall not be less than IP68				
4.5.1	10000 liters vertical tank (Triple Layer)	No	4.00		
4.5.2	Float valves	No	5.00		
4.5.3	Float switches	No	1.00		
4.6	**Spare Parts:**				
4.6.1	**Gate Valves**				
4.6.1.1	Ø 20mm	No	5.00		
4.6.1.2	Ø 25mm	No	5.00		
4.6.1.3	Ø 32mm	No	2.00		
4.6.1.4	Ø 50mm	No	5.00		
4.6.1.5	Ø 65mm	No	5.00		
4.6.1.6	Ø 80mm	No	1.00		
4.6.2	**Angle Valves**				
4.6.2.1	Ø 20mm - Ø 25mm	No	35.00		
4.6.3	**Check Valves**				
4.6.3.1	Ø 80mm	No	2.00		
4.6.4	**Globe Valves**				
4.6.4.1	Ø 80mm	No	2.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
4.6.5	**Y-Strainers**				
4.6.5.1	Ø 80mm	No	2.00		
4.6.6	**Float Valves**				
4.9.6.1	Ø 32 - Ø 40 mm	No	2.00		
4.6.7	**Water Hummer Arrestors**				
4.6.7.1	WHA	No	8.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 6 - FUEL OIL INSTALLATION				
6.1	**FUEL OIL INSTALLATION** Oil storage tanks as specified & detailed; include oil fill points, power and control wiring; include all valves & valve boxes, anti-vibration flexible connections, fittings, bonding and identification, including covers and frames. - Main black steel tank degree of protection shall not be less than IP 68				
6.1.1	Main black steel storage tank serving generators 30 m3 burried type chassis at 0.5 m above FFL on steel scaffolding and columns complete with digital level indicator Ø 65 relief venting, flame arrestor, control panel, fill alarm system, medium duty cover and all required civil works as shown on drawings and detailed System number oil fill cabinets Fill outlet should be protected with hood complete with control panel connected with level sensor by control wiring and LED indicator for high level switch including all necessary accessories as detailed and specified.	No	2.00		
6.1.2	CAB-01	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
6.2	**FUEL OIL PIPEWORKS**				
	Fuel oil pipeworks as specified; include isolating and drain valves and connections to generators, all pipes double wrapped in protective tape running in trenches or where buried; include priming vents, control and power wiring, all fittings, accessories, bonding and identification and all as specified.				
6.2.1	Ø 40 mm (Seamless black steel)	m	15.00		
6.2.2	Ø 50 mm (Seamless black steel)	m	75.00		
6.2.3	Ø 65 mm (Seamless black steel)	m	65.00		
6.3	**Exhaust Pipes of Generators**				
	Supply and install exhaust seamless black steel pipes confirm to ASTM A53/A106 schedule 40, Grade B or approved equal				
6.3.1	Ø 200mm	m	450.00		
6.4	**Spare Parts (Fuel Oil)**				
6.4.1	Ø 40mm, Gate Valves	No	2.00		
6.4.2	Ø 50mm, Gate Valves	No	1.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 8 - AIR CONDITIONING AND VENTILATION INSTALLATION				
8.1	**DUCT WORK**				
8.1.1	Galvanized steel sheet ducting for air conditioning and ventilation system, complete with flexible connections, access panels, hangers, supports, reducers, elbows, T fittings, and all necessary accessories, as specified and shown on drawings for complete instalation.	Kg	70,567.00		
8.1.2	**Fire Damper (FDR)**				
	Supply and install Fire dampers as specified and detailed, complete with all necessary accessories as required.				
8.1.2.1	200 x 150 mm	No	1.00		
8.1.2.2	200 x 200 mm	No	2.00		
8.1.2.3	250 x 250 mm	No	14.00		
8.1.2.4	300 x 250 mm	No	2.00		
8.1.2.5	350 x 250 mm	No	1.00		
8.1.2.6	400 x 500 mm	No	2.00		
8.1.2.7	500 x 500 mm	No	2.00		
8.1.2.8	800 x 500 mm	No	2.00		
8.1.2.9	1000 x 200 mm	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
8.1.3	**Motorized Fire Damper (MFDR)** Supply and install motorized fire dampers as specified, complete with all necessary accessories as detailed to provide complete instalation.				
8.1.3.1	600 x 250 mm	No	14.00		
8.1.3.1a	900 x 700 mm	No	2.00		
8.1.3.2	1000 x 600 mm	No	1.00		
8.1.3.2a	1200 x 500 mm	No	2.00		
8.1.3.3	1200 x 900 mm	No	9.00		
8.1.3.3a	1500 x 700 mm	No	1.00		
8.2	**AIR OUTLETS** Supply and install air outlets as specified, complete with all required fittings and accessories as specified, detailed & as shown on the drawings.				
8.2.1	**Air Louver complete with Filter (FAL + Filter), (GAL + Filter)**				
8.2.1.1	400 x 500 mm	No	1.00		
8.2.1.2	500 x 500 mm	No	1.00		
8.2.1.2a	900 x 700 mm	No	2.00		
8.2.1.3	1000 x 350 mm	No	28.00		
8.2.1.4	1000 x 2000 mm	No	2.00		
8.2.1.4a	1200 x 500 mm	No	2.00		
8.2.1.5	1500 x 2000 mm	No	2.00		
8.2.1.5a	1500 x 700 mm	No	1.00		
8.2.1.6	1800 x 2000 mm	No	1.00		
8.2.1.7	2000 x 400 mm	No	1.00		
8.2.1.8	2200 x 500 mm	No	1.00		
8.2.1.9	2500 x 600 mm	No	1.00		
8.2.1.10	3000 x 400 mm	No	9.00		
8.2.1.11	3000 x 500 mm	No	2.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
8.2.2	**EXHAUST GRAVITY LOUVER (EGL)**				
8.2.2.1	400 x 500 mm	No	1.00		
8.2.2.2	500 x 500 mm	No	1.00		
8.2.2.3	600 x 250 mm	No	1.00		
8.2.2.4	650 x 900 mm	No	1.00		
8.2.2.5	1500 x 800 mm	No	1.00		
8.2.2.6	3000 x 400 mm	No	1.00		
8.2.2.7	3000 x 600 mm	No	1.00		
8.2.2.8	3000 x 750 mm	No	3.00		
8.2.2.9	3000 x 3000 mm	No	1.00		
8.2.3	**Extract Air Register (EAR)**				
8.2.3.1	Ø 150 mm	No	190.00		
8.2.3.1a	600 x 500 (including motorized damper normaly closed)	No	42.00		
8.2.3.2	800 x 500mm	No	1.00		
8.2.3.3	1500 x 400mm	No	3.00		
8.2.4	**Supply Air Registers (SAR)** **Return Air Grilles (RAG)**				
8.2.4.1	150 x 150 mm	No	308.00		
8.2.4.2	200 x 200 mm	No	8.00		
8.2.4.3	250 x 250 mm	No	14.00		
8.2.4.4	300 x 150 mm	No	1.00		
8.2.4.4a	350 x 350 mm	No	34.00		
8.2.4.5	500 x 500 mm	No	30.00		
8.2.4.5a	450 x 450 mm	No	28.00		
8.2.4.6	600 x 200 mm	No	4.00		
8.2.4.6a	500 x 400 (including motorized damper normaly closed)	No	14.00		
8.2.4.7	600 x 250 mm	No	2.00		
8.2.4.8	600 x 300 mm	No	1.00		
8.2.4.8a	600 x 500 (including motorized damper normaly closed)	No	46.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
8.2.4.9	800 x 500 mm	No	1.00		
8.2.4.10	1000 x 400 mm	No	1.00		
8.2.4.11	1200 x 300 mm	No	7.00		
8.2.4.12	1200 x 350 mm	No	5.00		
8.2.4.13	1400 x 250 mm	No	14.00		
8.2.4.14	1500 x 300 mm	No	3.00		
8.2.4.15	1500 x 500 mm	No	10.00		
8.2.4.16	1800 x 200 mm	No	20.00		
8.2.5	**Transfer Air Grilles (TAG) Complete with FDR**				
8.2.5.1	200 x 100 mm	No	77.00		
8.2.5.2	200 x 150 mm	No	16.00		
8.2.5.3	200 x 200 mm	No	2.00		
8.2.5.4	250 x 100 mm	No	4.00		
8.2.5.5	250 x 150 mm	No	7.00		
8.2.5.6	250 x 200 mm	No	4.00		
8.2.5.7	300 x 150 mm	No	11.00		
8.2.5.8	300 x 200 mm	No	4.00		
8.2.5.9	300 x 250 mm	No	4.00		
8.2.5.10	450 x 150 mm	No	2.00		
8.2.5.11	600 x 150 mm	No	8.00		
8.2.5.12	600 x 200 mm	No	10.00		
8.2.5.13	600 x 250 mm	No	2.00		
8.2.5.14	600 x 300 mm	No	4.00		
8.2.5.15	1000 x 350 mm	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
8.3	**FANS** Fans as specified and scheduled, including all ductwork connections via flexible connections, local isolators, power and control wiring to the control panel, dampers, attenuators, acoustic cladding to connections ductwork, and inspection doors, identification and bonding and all sundry items including testing and commissioning. Fans degree of protection shall not be less than IP 68				
8.3.1	**Wall Mounted Fans** **Complete with Louver Shutters**				
8.3.1.1	(80-170) m3/h, 25 Pa	No	6.00		
8.3.1.2	(250-350) m3/h, 25 Pa	No	3.00		
8.3.1.3	425 m3/h, 25 Pa	No	2.00		
8.3.1.4	(650-750) m3/h, 25 Pa	No	5.00		
8.3.2	**Ducted Inline Fans**				
8.3.2.1	(250-350) m3/h, 30 Pa	No	4.00		
8.3.2.2	(500-600) m3/h, 30 Pa	No	3.00		
8.3.2.3	765 m3/h, 30 Pa	No	1.00		
8.3.2.4	(850-1000 m3/h, (50-70) Pa	No	2.00		
8.3.2.5	(1600-1700 m3/h, (80-100) Pa	No	2.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
8.3.3	**Axial Mounted Fans**				
8.3.3.1	(1300-1600) m3/h, (45-60) Pa	No	5.00		
8.3.3.2	3000 m3/h, 20 Pa	No	2.00		
8.3.3.3	10000 m3/h, 135 Pa	No	1.00		
8.3.3.4	10000 m3/h, 295 Pa	No	1.00		
8.3.4	**Fire Rated-Impulse Fans**				
8.3.4.1	3000 m3/h: Normal Speed 6000 m3/h: High Speed	No	8.00		
8.3.4.2	4200 m3/h: Normal Speed 8400 m3/h: High Speed	No	20.00		
8.3.4.3	5400 m3/h: Normal Speed 10800 m3/h: High Speed	No	5.00		
8.3.5	**Fire Rated-Axial Mounted Fans**				
8.3.5.1	3000 m3/h: Normal Speed 30Pa 6000 m3/h: High Speed	No	1.00		
8.3.5.2	8000 m3/h: Normal Speed 70Pa 16000 m3/h: High Speed	No	1.00		
8.3.5.3	8000 m3/h, 125Pa	No	1.00		
8.3.5.4	9000 m3/h: Normal Speed 145Pa 18000 m3/h: High Speed	No	1.00		
8.3.5.5	9000 m3/h, 165Pa	No	1.00		
8.3.5.6	12000 m3/h: Normal Speed 155Pa 24000 m3/h: High Speed	No	1.00		
8.3.5.7	15000 m3/h, 215Pa	No	1.00		
8.3.5.8	16000 m3/h: Normal Speed 95Pa 28000 m3/h: High Speed	No	3.00		
8.3.5.9	16000 m3/h, 110Pa	No	3.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
8.3.5.10	19000 m3/h, 90Pa	No	3.00		
8.3.5.11	19000 m3/h, 175Pa	No	3.00		
8.3.5.12	20500 m3/h: Normal Speed 50Pa 41000 m3/h: High Speed	No	4.00		
8.3.5.13	20500 m3/h, 85Pa	No	4.00		
8.3.5.14	27000 m3/h: Normal Speed 50Pa 54000 m3/h: High Speed	No	1.00		
8.3.5.15	27000 m3/h, 165Pa	No	1.00		
8.3.5.16	57000 m3/h: Normal Speed 90Pa 114000 m3/h: High Speed	No	1.00		
8.3.5.17	57000 m3/h, 175Pa	No	1.00		
8.3.5.18	4080 m3/h, 100Pa	No	1.00		
8.3.5.19	5000 m3/h, 100Pa	No	1.00		
8.3.5.20	2000 m3/h, 150Pa	No	2.00		
8.3.5.21	14000 m3/h, 160Pa	No	1.00		
8.3.5.22	14000 m3/h, 175Pa	No	1.00		
8.4	**SOUND ATTENUATIONS**				
	Supply and install attenuations complete with all necessary accessories as detailed and specified.				
	- Attenuations degree of protection shall not be less than IP 68				
8.4.1	Attenuation: 800 x 800 x 800 mm	No	3.00		
8.4.2	Attenuation:1000 (500 to 700) x 1000 mm	No	5.00		
8.4.3	Attenuation:1200 (800 to 1000) x 1200 mm	No	38.00		
8.4.4	Attenuation:1500 (1200 to 1500) x 1500 mm	No	3.00		
8.4.5	Attenuation: 2000 x 1600 x 2000 mm	No	1.00		
8.4.6	Attenuation: 2000 x 2000 x 2000 mm	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
8.5	**CONDENSATE DRAIN PIPE WORKS** Supply and install condensate drain pipes complete as specified; include all necessary fittings, supports, hangers, sleeves, openings and all required accessories as detailed and specified.				
8.5.1	Ø 50mm	m	3,210.00		
8.6	**VRF SYSTEM** VRF system complete with condensing unit, supports, anti-vibration mounts, insulated refrigerant piping, controls & power wiring, and indoor units complete with thermostats, condensate drain connections, blower unit, controls & power wiring, and all required fittings and accessories all as specified and shown on drawings - Indoor units degree of protection shall not be less than IP 55 - Outdoor units degree of protection shall not be less than IP 68				
8.6.1	System to include: OU-L3 (#1) 179.2kw, serving: IU-W-01 (#2): 1.6KW IU-W-02 (#1): 2.2KW IU-W-03 (#2): 2.8KW IU-W-04 (#2): 3.6KW IU-W-06 (#2): 6KW IU-CA-01 (#8): 1.6KW IU-CA-02 (#24): 2.2KW IU-CA-03 (#12): 2.8KW IU-CA-04 (#2): 3.6KW IU-CA-05 (#1): 4.5KW IU-CA-06 (#1): 5.6KW IU-CS-01 (#1): 2.8KW IU-CS-02 (#1): 3.6KW IU-CS-03 (#3): 5.6KW IU-CS-05 (#1): 10.6KW	Set	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
8.6.2	System to include: OU-L5-Z01 (#1): 196kw, serving: IU-CA-02 (#5): 2.2KW IU-CA-03 (#7): 2.8KW IU-CA-04 (#16): 3.6KW IU-CA-05 (#19): 4.5KW IU-CA-06 (#3): 5.6KW IU-CA-07 (#2): 6KW	Set	1.00		
8.6.3	System to include: OU-L5-Z02 (#1): 134.4kw, serving: IU-CA-02 (#24): 2.2KW IU-CA-03 (#12): 2.8KW IU-CA-04 (#2): 3.6KW IU-CA-05 (#1): 4.5KW IU-CA-06 (#1): 5.6KW IU-CS-05 (#1): 10.6KW	Set	1.00		
8.6.4	System to include: OU-L5-Z03 (#1): 117.6kw, serving: IU-W-03 (#7): 2.8KW IU-W-04 (#2): 3.6KW IU-W-05 (#2): 4.5KW IU-W-06 (#2): 6KW IU-W-07 (#1): 7.1KW IU-CA-02 (#7): 2.2KW IU-CA-03 (#3): 2.8KW IU-CA-04 (#3): 3.6KW IU-CA-05 (#2): 4.5KW IU-CS-03 (#2): 5.6KW IU-CS-05 (#1): 10.6KW	Set	1.00		
8.6.5	System to include: OU-L6 (#1): 89.6kw, serving: IU-CA-02 (#5): 2.2KW IU-CA-03 (#7): 2.8KW IU-CA-04 (#16): 3.6KW IU-CA-05 (#19): 4.5KW IU-CA-06 (#3): 5.6KW IU-CA-07 (#2): 6KW IU-CS-04 (#1): 7.1KW IU-CS-05 (#2): 10.6KW	Set	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
8.6.6	System to include: OU-L7 (#1): 84kw, serving: IU-CA-01 (#1): 1.6KW IU-CA-02 (#2): 2.2KW IU-CA-03 (#4): 2.8KW IU-CA-04 (#3): 3.6KW IU-CA-05 (#9): 4.5KW IU-CA-06 (#3): 5.6KW	Set	1.00		
8.6.7	System to include: OU-L7 & L8 (Lobby) (#1): 56kw, serving: IU-CA-06 (#10): 5.6KW	Set	1.00		
8.6.8	System to include: OU-L10 (#1): 145.6kw, serving: IU-F-02 (#2): 2.9KW IU-F-03 (#5): 3.6KW IU-F-04 (#14): 4.5KW IU-F-05 (#10): 5.6KW IU-CA-05 (#1): 4.5KW IU-CA-06 (#1): 5.6KW	Set	1.00		
8.6.9	System to include: OU-L11 (#1): 134.4kw, serving: IU-F-02 (#4): 2.9KW IU-F-03 (#2): 3.6KW IU-F-04 (#12): 4.5KW IU-F-05 (#6): 5.6KW IU-F-06 (#5): 6.3KW IU-CA-05 (#1): 4.5KW	Set	1.00		
8.6.10	System to include: OU-L12 (#1): 117.6kw, serving: IU-F-02 (#10): 2.9KW IU-F-03 (#8): 3.6KW IU-F-04 (#9): 4.5KW IU-F-05 (#2): 5.6KW IU-F-07 (#1): 7.1KW IU-CA-05 (#1): 4.5KW	Set	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
8.6.11	System to include: OU-L13 (#1): 117.6kw, serving: IU-F-02 (#6): 2.9KW IU-F-03 (#12): 3.6KW IU-F-04 (#8): 4.5KW IU-F-05 (#2): 5.6KW IU-F-07 (#1): 7.1KW IU-CA-05 (#1): 4.5KW	Set	1.00		
8.6.12	System to include: OU-L14 (#1): 117.6kw, serving: IU-F-02 (#9): 2.9KW IU-F-03 (#10): 3.6KW IU-F-04 (#9): 4.5KW IU-F-05 (#1): 5.6KW IU-F-06 (#1): 6.3KW IU-CA-05 (#1): 4.5KW	Set	1.00		
8.6.13	System to include: OU-L15 (#1): 117.6kw, serving: IU-F-02 (#8): 2.9KW IU-F-03 (#10): 3.6KW IU-F-04 (#8): 4.5KW IU-F-05 (#2): 5.6KW IU-F-07 (#1): 7.1KW IU-CA-05 (#1): 4.5KW	Set	1.00		
8.6.14	System to include: OU-L16 (#1): 117.6kw, serving: IU-F-02 (#7): 2.9KW IU-F-03 (#11): 3.6KW IU-F-04 (#7): 4.5KW IU-F-05 (#3): 5.6KW IU-F-06 (#1): 6.3KW IU-CA-05 (#1): 4.5KW	Set	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
8.6.15	System to include: OU-L17 (#1): 117.6kw, serving: IU-F-02 (#5): 2.9KW IU-F-03 (#11): 3.6KW IU-F-04 (#10): 4.5KW IU-F-05 (#2): 5.6KW IU-F-07 (#1): 7.1KW IU-CA-05 (#1): 4.5KW	Set	1.00		
8.6.16	System to include: OU-L18 (#1): 89.6kw, serving: IU-F-02 (#6): 2.9KW IU-F-03 (#6): 3.6KW IU-F-04 (#8): 4.5KW IU-F-05 (#2): 5.6KW IU-F-06 (#1): 6.3KW IU-F-07 (#1): 7.1KW IU-CA-05 (#1): 4.5KW	Set	1.00		
8.6.17	System to include: OU-L19 (#1): 89.6kw, serving: IU-F-02 (#5): 2.9KW IU-F-03 (#8): 3.6KW IU-F-04 (#6): 4.5KW IU-F-05 (#2): 5.6KW IU-F-07 (#1): 7.1KW IU-CA-05 (#1): 4.5KW	Set	1.00		
8.6.18	System to include: OU-EL (#1): 39.2kw, serving: IU-F-02 (#2): 2.9KW IU-F-03 (#2): 3.6KW IU-F-05 (#1): 5.6KW IU-F-07 (#1): 7.1KW IU-CA-05 (#2): 4.5KW	Set	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
8.6.19	System to include: OU-L20 (#1): 123.2kw, serving: IU-F-02 (#12): 2.9KW IU-F-03 (#3): 3.6KW IU-F-04 (#3): 4.5KW IU-F-05 (#6): 5.6KW IU-CA-05 (#3): 4.5KW IU-CA-06 (#4): 5.6KW	Set	1.00		
8.6.20	System to include: OU-L21 (#1): 117.6kw, serving: IU-F-02 (#5): 2.9KW IU-F-03 (#11): 3.6KW IU-F-04 (#9): 4.5KW IU-F-05 (#4): 5.6KW IU-CA-05 (#1): 4.5KW	Set	1.00		
8.6.21	System to include: OU-L22 (#1): 117.6kw, serving: IU-F-02 (#5): 2.9KW IU-F-03 (#12): 3.6KW IU-F-04 (#9): 4.5KW IU-F-05 (#1): 5.6KW IU-F-07 (#2): 7.1KW IU-CA-05 (#2): 4.5KW	Set	1.00		
8.6.22	System to include: OU-L23 (#1): 123.2kw, serving: IU-F-02 (#13): 2.9KW IU-F-03 (#5): 3.6KW IU-F-04 (#9): 4.5KW IU-F-06 (#2): 6.3KW IU-CA-04 (#1): 3.6KW IU-CA-05 (#4): 4.5KW	Set	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
8.6.23	System to include: OU-FA-01 (#1): 61.6kw, serving: IU-01 (#1): 18.5KW IU-02 (#2): 20.5KW	Set	1.00		
8.6.24	System to include: OU-FA-02 (#1): 100.8kw, serving: IU-01 (#1): 18.5KW IU-02 (#3): 20.5KW IU-03 (#1): 22KW	Set	1.00		
8.6.25	System to include: OU-FA-03 (#1): 128.8kw, serving: IU-02 (#3): 20.5KW IU-03 (#2): 22KW IU-04 (#1): 24KW	Set	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
8.7	**DX Split Unit** DX split system complete with condensing unit, supports, anti-vibration mounts, refrigerant piping, power & control wiring to the control panel, and indoor unit complete with condensate drain, blower unit power & control wiring to the control panel, thermostats and all required fittings and accessories all as specified and shown on drawings Indoor units degree of protection shall not be less than IP 55 Outdoor units degree of protection shall not be less than IP 68				
8.7.1	OU-DX-01 / IU-DX-01 (65 KW cooling capacity)	No	3.00		
8.8	**Spare Parts:**				
8.8.1	Filters for intake outdoor air units	No	4.00		
8.8.2	Filters for ceiling concealed units	No	10.00		
8.8.3	Thermostats	No	75.00		
8.8.4	Spare parts for indoor units related to VRF system shall be as per manufacturer recommendations not less than 2 years and not to exceed 10%	Item	1.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 9 - FIRE PROTECTION				
9.1	**HOSE REEL SYSTEM** Hose Reel System to be complete with PRV, all interconnecting pipework, valves, hoses cabinets and all items to provide a complete system incompliance with NFPA14 and all necessary accessories as detailed and specified. FHC degree of protection shall not be less than IP 55 FHC-01				
9.1.1	Fire hose cabinet, complete with 30m length hose Ø 40 mm, 30 m length Ø 65 mm landing valve, 6 kg ABC dry chemical fire extinguisher as detailed.	No	65.00		
9.2	**WATER SPRINKLER SYSTEM INSTALLATION**				
9.2.1	Upright standard response sprinkler head, plain brass, NPT Ø 20, K factor 161, all as per NFPA 13 and complete with all necessary accessories as detailed and specified.	No	760.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
9.3	**PIPEWORK**				
	Pipework including all connections, supports, hangers, expansion joints, valves, drain valves, and all required accessories all as per NFPA code sealmess black steel to ASTM A53 sch. 40 or BS 1387 suitable for groove system installation complete with all necessary accessories as detailed and specified.				
	pipe diameter				
9.3.1	Ø 25 mm	m	951.00		
9.3.2	Ø 32 mm	m	277.00		
9.3.3	Ø 40 mm	m	799.00		
9.3.4	Ø 50 mm	m	645.00		
9.3.5	Ø 65 mm	m	212.00		
9.3.6	Ø 80 mm	m	1,913.00		
9.3.7	Ø 90 mm	m	46.00		
9.3.8	Ø 100 mm	m	73.00		
9.3.9	Ø 125 mm	m	205.00		
9.3.10	Ø 150 mm	m	3,508.00		
9.3.11	Ø 200 mm	m	236.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
9.4	**FIRE DEPARTMENT**				
9.4.1	Fire Department complete with all necessary accessories as specified and detailed. Fire Department degree of protection shall not be less than IP 68	No	2.00		
9.5	**Valves** Supply and install necessary valves packages at sprinklers main pipes as specified, as detailed and as shown on the drawings				
9.5.1	Ø (125 - 150) mm, PRV	No	3.00		
9.5.2	Ø (125 - 150) mm, ZCV	No	3.00		
9.5.3	Ø 200 mm alarm check valves	No	1.00		
9.6	**FIRE PUMPS** Fire pumps shall be completed with control panel including power & control wiring, valves, check valves, pressure gauge, isolating switch, electrical fire rated cables, control cables and all necessary electrical and mechanical accessories, all as per NFPA code, and all necessary accessories as detailed and specified. Impeller & shaft are stainless steel Fire pumps degree of protection shall not be less than IP 55				
9.6.1	EP-FF-01 (135 m3/h @ 1350 kpa) (1 Duty/1 Standby)	Set	1.00		
9.6.2	JP-FF-01 (4 m3/h @ 1500 kpa) Jockey pump	No	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
9.7	**AUTOMATIC FM-200 CEILING MOUNTED CONTAINER** Automatic FM-200 ceiling mounted container, complete with nozzle, detector and all required accessories as detailed and specified.				
9.7.1	4 kg	No	28.00		
9.7.2	8 kg	No	26.00		
9.7.3	12 kg	No	12.00		
9.8	**AUTOMATIC FIRE EXTINGUISHER CEILING MOUNTED CONTAINER** Automatic Fire Extinguisher ceiling mounted container, complete with nozzle, detector and all required accessories as detailed and specified.				
9.8.1	6 kg Class "C"	No	17.00		
9.9	**FIRE EQUIPMENT** Supply and install fire equipment complete with all required accessories for complete installations.				
9.9.1	FE-01 (6 kg portable fire extinguisher)	No	120.00		
9.9.2	SB-01 (100 L sand box with bucket)	No	6.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
9.9	**TOTAL FLOODING CO2 System** Total Flooding CO2 System Installation complete with all wiring, valves, cylinders, heat detectors, pipeworks, controls and controls wiring, panels board interfaced with heat detectors and FACP, all as specified and shown on drawing including necessary accessories as detailed and specified. Installation shall be done as per NFPA code				
9.9.1	Fuel Tank Room (L1-115a): 5 x 45 kg including 7 nozzles	Item	1.00		
9.9.2	Generator Room (L1-118): 15 x 45 kg including 20 nozzles	Item	1.00		
9.9.3	Transformer Room (L1-103): 6 x 45 kg including 8 nozzles	Item	1.00		
9.9.4	Main Electrical Room (L1-104): 5 x 45 kg including 7 nozzles	Item	1.00		
9.9.5	Electrical Room (L1-106): 1 x 45 kg including 3 nozzles	Item	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
9.10	**TOTAL FLOODING FM200 System** Total Flooding FM200 System Installation complete with all wiring, valves, heat detectors, pipeworks, controls and controls wiring, panels board interfaced with heat detectors and FACP all as specified and shown on drawing including necessary accessories as detailed and specified. Installation shall be done as per NFPA code				
9.10.1	Telecommunication Hall (L18-122): 2 x 45 kg including 8 nozzles	Item	1.00		
9.9.2	Server Room (L18-123): 1 x 45 kg including 4 nozzles	Item	1.00		
9.9.3	Server Room (L19-128): 1 x 45 kg including 2 nozzles	Item	1.00		
9.11	**FIRE INTUMESCENT MATERIAL**				
9.11.1	Provide and installation all fire intumescent insulation materials & components as specified, detailed & necessarily required, (including but not limited to openings & penetration through fire rated enclosures at mechanical shafts, ducts, sleeves), complete with supports, anchors and fasteners, mastic sealer; and all other related ancillaries as indicated or required.	L.s.	1.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
9.12	**Spare Parts:**				
9.12.1	Fire Hose Cabinet	No	7.00		
9.12.2	Sprinklers	No	80.00		
9.12.3	FM200 ceiling mounted	No	3.00		
9.12.4	Automatic FE ceiling mounted	No	2.00		
9.12.5	FM200 Cylinders	No	2.00		
9.12.6	CO2 Cylinders	No	3.00		
9.12.7	Ø 200mm Gate Valve	No	1.00		
9.12.8	Ø 200mm OS & Y Valve	No	1.00		
9.12.9	Ø 200mm Alarm Check Valve	No	1.00		
9.12.10	Ø 150mm Zone Control Valve	No	1.00		
9.12.11	Ø 150mm Pressure Reducing Station	No	1.00		
9.12.12	Ø 200mm Check Valve	No	1.00		
9.12.13	Ø 40mm Pressure Reducing Vlave	No	7.00		
9.12.14	Ø 40mm Isolating Valve	No	7.00		
9.12.15	Ø 65mm Landing Vlave	No	7.00		
9.12.16	Ø 65mm Pressure Reducing Vlave	No	7.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 11 - THERMAL INSULATION AND IDENTIFICATION OF SERVICES				
	THERMAL INSULATION				
	Thermal insulation as specified complete with identification, all mastics, adhesive, mechanical fixings, final coverings and protective and decorative finishes. Thickness and density shall be as specified.				
11.1	**Insulation for air conditioning & treated fresh air ducts**				
11.1.1	Insulation (Rigid fiber glass for duct works installation and rock wool insultation for generator room)	m2	1,555.00		
11.2	**For Domestic hot water polypropylene without Aluminum Jacketting**				
	Pipe diameter				
11.2.1	Ø 20 mm	m	7.00		
11.2.2	Ø 25 mm	m	1.00		
11.2.3	Ø 32 mm	m	3.00		
11.3	**For Condensate Drain Pipes**				
	Pipe diameter				
11.3.1	Ø 50 mm	m	3,210.00		
11.4	**For Exhaust Steel Pipes of Generators**				
11.4.1	Ø 200 mm	m	450.00		
11.5	**For Generators' Room**				
11.5.1	Floor area	m2	included in Arch. item 7.3.1		
11.5.2	Ceiling area	m2	included in Arch. item 7.3.1		
11.5.3	Wall area	m2	included in Arch. item 7.3.1		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 12 - AUTOMATIC CONTROLS AND MONITORING INSTALLATION				
12.1	**MOTOR CONTROL CENTER** (Refer to Electrical BOQ)				
12.2	**CONTROL PANEL** Control Panel as specified complete including panel, circuit breakers, contactors, relays, timer push buttons, indication lamps, switches, bus bar, wiring cables, cable tray, conduits and wiring control elements and power cables to pumps, capacities and rating shall be as per equipment requirement as described and specified.				
12.2.1	CP-01 (controls of P-CW-01 and Low/High level switches of PE tanks)	No	1.00		
12.2.2	CP-02 (controls of Low/High level switches of concrete fire water tank at L1)	No	1.00		
12.2.3	CP-03 (controls of submersible pumps P-W-01)	No	1.00		
12.2.4	CP-04 (controls for Low/High level switches of concrete domestic water tank at L25)	No	1.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 13 - CONTROL, INSTRUMENTATION & BUILDING MANAGEMENT SYSTEM (BMS) Supply, install, connect and test a complete central, monitoring and control system for electrical / electro-mechanical equipment operation as intended, specified and shown on BMS point schedule drawings for selected project including conduits, special conductors, junction, derivation and outlet boxes, connectors, fittings, accessories, controllers, terminal cabinets, modems, wires, software, sensors, etc... inclusive of power supply transfer and connection from normal to emergency and vice versa and the like to the satisfaction of the engineer				
13.1	BMS	Item	1.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 16 - SANITARY FIXTURES				
	SANITARY FIXTURES				
	To be complete with all interconnecting pipe-work, valves, installation and all necessary required accessories and fittings as specified				
16.1	**LAVATORIES**				
16.1.1	LAV-01 (semi-pedetal)	No	157.00		
16.1.2	LAV-02 (wall hung - handicapped)	No	1.00		
16.2	**WATER CLOSETS**				
16.2.1	EWC-01 (wall hung)	No	135.00		
16.2.2	EWC-02 (wall hung - handicapped)	No	1.00		
16.3	**JANITOR SINK**				
16.3.1	JS-01	No	17.00		
16.4	**SHOWER**				
	Shower mixers & shower head complete with all required accessories as specified.				
16.4.1	SH-01	No	4.00		
16.5	**KITCHEN SINK**				
16.5.1	KS-01 (Resin type - Heavy duty materials)	No	21.00		
16.6	**Hose Bib Taps**				
	Hose bib taps complete with all required accessories as specified				
16.6.1	HB-01	No	21.00		
	Carried To Collection				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
16.7	**Urinal**				
16.7.1	UR-01	No	41.00		
16.8	**Spare Parts:** Spare Parts shall be as per manufacturer recommendation and not less than 2 years				
16.8.1	LAV-01	No	20.00		
16.8.2	LAV-02	No	1.00		
16.8.3	EWC-01	No	16.00		
16.8.4	EWC-02	No	1.00		
16.8.5	Mixers for LAV	No	25.00		
16.8.6	Mixers for Sink	No	3.00		
16.8.7	Mixers for Shower	No	1.00		
16.8.8	Hose bib taps	No	2.00		
	Carried To Summary				

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
PART 2	**MECHANICAL ENGINEERING SERVICES**				
CHAPTER	**SUMMARY**				
1	GENERAL TECHNICAL REQUIREMENTS				
2	BELOW GROUND DRAINAGE				
3	SANITARY, VENT, WASTE AND RAINWATER PIPEWORK INSTALLATION				
4	PIPED SYSTEMS (LIQUIDS)				
5	COMPRESSED AIR (NOT USED)				
6	FUEL OIL INSTALLATION				
7	GENERAL BOILER PLANT (NOT USED)				
8	AIR CONDITIONING AND VENTILATION INSTALLATION				
9	FIRE PROTECTION				
10	TREATMENT PLANT (NOT USED)				
11	THERMAL INSULATION AND IDENTIFICATION OF SERVICES				
12	AUTOMATIC CONTROLS AND MONITORING INSTALLATION				
13	CONTROL, INSTRUMENTATION & BUILDING MANAGEMENT SYSTEM (BMS)				
14	KITCHEN EQUIPMENT (NOT USED)				
15	LAUNDRY EQUIPMENT (NOT USED)				
16	SANITARY FIXTURES				
	MECHANICAL ENGINEERING SERVICES TOTAL CARRIED TO PRICE SUMMARY				

PART 3
ELECTRICAL ENGINEERING SERVICES AND PASSIVE IT WORKS

PART 3

ELECTRICAL ENGINEERING SERVICES

Preambles

GENERAL

Rates for all items of equipment and materials shall be inclusive of all labor,electric power during installation and testing oxygen, acetylene, water, transport, rigging, temorary works, stores, offices, instruments insurance, customs, duties, overhead, profit certificates, samples, tests, supply of all information and data, supply of catalogues, charts, curves, submittals, certified drawings and all other information and services called for in the specification, all fully connected up and good working order. Rates shall also include for:

a. All builders work in connection with fixing of supports brackets, clips as required

b. Cutting or forming all openings, mortises, chases, etc., in floors, walls and ceiling required for the installation and making good after

c. Construction of manholes , handholes and the like

d. Fitting of access doors in walls and ceilings.

e. Supplying and fixing supports, brackets and clips as required.

f. Cutting away and making good after all trades for frames, sleeves, cables, cable trays, chases for conduits and fixing of electrical boxes, conduits, accessories.

g. Excavating and back filling trenches for cables, pipes and providing and laying precast concrete protective tiles.

h. Repair, repaint and generally make good and leave in perfect condition all the work executed by him under the contract.

I. All other work in connection with the installation that is not measured separately.

j. Electrical equipment is enumerated unless otherwise stated and the rates shall include for

k. All the feeder cables (PVC/PVC & PVC/SWA/PVC) are measured in linear meters from the boards to the boards to the equipment or from the distribution board to Submain or from board etc. The rates shall include for the supply of materials, laying, terminating, trenching, cable trays, ducting, etc.

l. Lighting points are enumerated and the rates shall include all necessary wires, conduits, boxes and accessories, etc., required to provide power from the LP boards switch panels and switches are measured separately.

m. Lighting fittings are enumerated and the rates shall include the supply, installation and connections.

n. Disconnecting/Isolating switches are enumerated and the rates shall include all necessary wires, conduits, boxes etc. If the switches are fed by cables, then the cables are measured separately.

o. Lighting switches, sockets, fan/coil unit spur boxes, fused spurs for fans, kitchen, laundry equipment outlets, toilet fans points are enumerated and the rates for each shall include all wiring, conduits, accessories etc.

p. Earthing systems are to include for all materials labour, fixing and terminating, earthpits, rods, conductors, excavations.

q. Main distribution board, submains, lighting and power panels (LP's & PP's) boards, panels (LP'S & pp'S) boards, etc., are enumerated items and rates shall include all the board installed completely as specified and as shown on drawings PVC/PVC or PVC/SWA/PVC cables are measured separately.

r. Telephone system points are enumerated and they shall include all conduits, wires, boxes, multicore cables, distribution boxes, cabinets etc.

s. Fire alarm system including all control annunciator panels, charger and battery power supply, manual initiating points heat detectors, photoelectric somke detectors, flame detectors, etc., are enumerated and the rates shall include all necessary accessories.

t. End of session bell system is one item.Bells and bell push button, are enumerated and include all conducting, wiring, controls, and all necessary accessories.

u Computer system including data outlets patch panels and empty conduits with all necessary accessories are enumerated.

v Lightning protection system, roof conductors, tie conductors down conductors are measured in linear meters completely installed. Earthpits are enumerated. Thecost shall include all materials, wiring, fixing, supportsetc., and bolting copper conductors to Rebars to have a complete working system.

w UPS supply shall include the unit with charger and batteries and all necessary accessories complete and ready to supply the UPS board.

x The rates of generators shall include the generators completely installed with main breakers, of accessories, boards, controls, control panel paralleling switch boards synchronizers, fuel tanks, and fuel pumps etc., to give a completely working generating station as described.

y The rates for automatic transfer switches include the switches completely installed with all ancillary equipment, control, modules to have a complete working system.

aa. Lighting poles and bollards are enumerated and the rates shall included material, labour, column base, fixing, connectors fuses, wiring, conduits etc.

REHABILITATION OF EDL CENTRAL BUILDING
MAR MICHAEL ROAD
BEIRUT – LEBANON

PART-3
ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 1 - GENERATING POWER PLANT				
1.1	**TRANSFORMERS** Provide transformers as described 15 KV/400V as per EDL requirements with complete installation and testing				
1.1.1	630 KVA	No	1.00		
1.1.2	1000 KVA	No	2.00		
1.2	**EMERGENCY GENERATOR** Provide emergency generator set complete as described including, breakers, accessories, controls, control panel, room insulation,daily fuel tanks, main fuel tank, exhausts, mufflers, supply and exhaust air ducts,electric and manual fuel pumps and all accessories for complete system as shown on drawings as per Tender Specifications and to the satisfaction of the engineer.				
1.2.1	500 KVA (prime Ratings)	No	3.00		
1.2.2	All above mentioned controls included above				
1.2.3	Spare parts shall be as per manufacturer recommendation and not less than 2 years included above				
1.2.4	Synchroization + totalizing panel suitable for 3 generators (500+500+500) KVA and 3 output	No	1.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 2 - POWER TRANSFORMER				
2.1	**Automatic Transfer Switches** Supply, install, connect and test the following ATS boards in perfect operating conditions as shown on drawings and specified inclusive of enclosure, all bus bars, metering devices, power factor correction, anticondensation heaters, protective devices, all necessary components, requirements of command and monitoring controls local and remote from BMS center, as shown on drawings as per Tender Specifications and the like to the satisfaction of the Engineer.				
2.1.1	ATS-1: (4 X 300 A) 4P	No	1.00		
2.1.2	ATS-2: (4 X 400 A) 4P	No	2.00		
2.1.3	ATS-3: (4 X 800 A) 4P	No	0.00		
2.1.4	ATS-4: (4 X 500 A) 4P	No	1.00		
2.1.5	ATS-5: (4 X 630 A) 4P	No	3.00		
2.1.6	ATS-6: (4 X 250 A) 4P	No	1.00		
2.1.7	ATS-7: (4 X 80 A) 4P	No	1.00		
2.1.8	ATS-8: (2 X 40 A) 2P	No	1.00		
2.1.9	ATS-9: (4 X 125 A) 4P	No	2.00		
2.1.10	ATS-10: (4 X 32 A) 4P	No	3.00		
2.1.11	ATS-11: (4 X 160 A) 4P	No	1.00		
2.1.12	ATS-12: (4 X 200 A) 2P	No	1.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 3 - UPS				
	Supply and install, test and operate as shown in drawings and specs and remote from BMS Center. The UPS must be complete with all required accessories for complete installation with the following description				
3.1	UPS 1: 20 KVA,400V, 3 phase, back uptime 30 min at full loadand 0.8 out put power factors.	No	1.00		
3.2	UPS 5: 40 KVA,400V, 3 phase, back uptime 30 min at full loadand 0.8 out put power factors.	No	1.00		
3.3	UPS 10: 30 KVA,400V, 3 phase, back uptime 30 min at full loadand 0.8 out put power factors.	No	1.00		
3.4	UPS 14: 40 KVA,400V, 3 phase, back uptime 30 min at full loadand 0.8 out put power factors.	No	1.00		
3.5	UPS 18: 50 KVA,400V, 3 phase, back uptime 30 min at full loadand 0.8 out put power factors.	No	1.00		
3.6	UPS 20: 40 KVA,400V, 3 phase, back uptime 30 min at full loadand 0.8 out put power factors.	No	1.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 4 - DISTRIBUTION BOARDS AND CIRCUIT BREAKERS				
4.1	**MAIN DISTRIBUTION BOARD**				
	Supply, install, connect and test the following main boards in perfect operating conditions as shown on drawings and specified inclusive of enclosure, all bus bars, metering devices, power factor correction, anticondensation heaters, protective devices, mechanical & electrical interlock, all necessary components, requirements of command and monitoring controls local and remote from BMS center, as shown on drawings, as per Tender Specifications and the like to the satisfaction of the engineer				
4.1.1	MSB-1	No	1.00		
4.1.2	MSB-2	No	1.00		
4.1.3	MSB-3	No	1.00		
4.2	**SUBMAIN DISTRIBUTION BOARDS**				
	Supply, install, connect and test the following sub-main distribution boards in perfect operating conditions as shown on drawing and specified inclusive of enclosure, all bus bars, protective devices, all necessary components and requirements of command and monitoring controls local and remote from BMS center, as shown on drawings, as per Tender Specifications and the like to the satisfaction of the engineer				
4.2.1	SMDB - Solar	No	1.00		
4.2.2	SMDB - 10	No	1.00		
4.2.3	SMDB - 16	No	1.00		
4.2.4	ESMDB - 1	No	1.00		
4.2.5	ESMDB - 3	No	1.00		
4.2.6	ESMDB - 5	No	1.00		
4.2.6a	ESMDB - 1.2	No	1.00		
4.2.6b	ESMDB - 3.2	No	1.00		
	Carried To Collection				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
4.2.7	EMSB - 1	No	1.00		
4.2.8	EMSB - 2	No	1.00		
4.2.9	EMSB - 3a	No	1.00		
4.2.10	EMSB - 3b	No	1.00		
4.2.11	EMSDB - 10	No	1.00		
4.2.12	EMSDB - 16	No	1.00		
4.2.13	EMSDB - 18	No	1.00		
4.2.14	SMB-UPS - 1	No	1.00		
4.2.15	SMB-UPS - 2	No	1.00		
4.2.16	SMB-UPS - 10	No	1.00		
4.2.17	SMB-UPS - 14	No	1.00		
4.2.18	SMB-UPS - 18	No	1.00		
4.2.19	SMB-UPS - 20	No	1.00		
4.3	**SECONDARY DISTRIBUTION BOARDS** Supply, install, connect and test the following secondary boards in perfect operation conditions as shown on drawings and specified inclusive of enclosure, all bus bars, protective devices, all necessary components and requirements of command and monitoring controls local and remote from BMS center, as shown on drawings, as per Tender Specifications and the like to the satisfaction of the engineer				
4.3.1	EDB - 1.1	No	1.00		
4.3.2	EDB - 1.2	No	1.00		
4.3.3	ELP - 3.1	No	1.00		
4.3.4	EPP - 3.1	No	1.00		
4.3.5	EDB - 3.2	No	1.00		
4.3.6	EDB - 3.3	No	1.00		
4.3.7	EDB - 5.1	No	1.00		
	Carried To Collection				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
4.3.8	EDB - 5.2	No	1.00		
4.3.9	ELP - 5.3	No	1.00		
4.3.10	EPP - 5.3	No	1.00		
4.3.11	EDB - 5.4	No	1.00		
4.3.12	EDB - 5.5	No	1.00		
4.3.13	EDB - 5.6	Nos	1.00		
4.3.14	EDB - 7.1	Nos	1.00		
4.3.15	EDB - 7.2	Nos	1.00		
4.3.16	EDB - 10.1	No	1.00		
4.3.17	EDB - 11.1	No	1.00		
4.3.18	EDB - 12.1	Nos	1.00		
4.3.19	EDB - 13.1	No	1.00		
4.3.20	EDB - 14.1	No	1.00		
4.3.21	EDB - 15. 1	No	1.00		
4.3.22	EDB - 16.1	No	1.00		
4.3.23	EDB - 17.1	No	1.00		
4.3.24	EDB - 18.1	No	1.00		
4.3.25	EDB - 19.1	No	1.00		
4.3.26	EDB - 20.1	No	1.00		
4.3.27	EDB - 21.1	No	1.00		
4.3.28	EDB - 22.1	No	1.00		
4.3.29	EDB - 23.1	No	1.00		
4.3.30	EDB - ELV	No	1.00		
	Carried To Collection				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
4.3.31	DB - 10.1	No	1.00		
4.3.32	DB - 11.1	No	1.00		
4.3.33	DB - 12.1	No	1.00		
4.3.34	DB - 13.1	No	1.00		
4.3.35	DB - 14.1	No	1.00		
4.3.36	DB - 15.1	No	1.00		
4.3.37	DB - 16.1	No	1.00		
4.3.38	DB - 17.1	No	1.00		
4.3.39	DB - 20.1	No	1.00		
4.3.40	DB - 21.1	No	1.00		
4.3.41	DB - 22.1	No	1.00		
4.3.42	DB - ELV	No	1.00		
4.3.43	UDB - 1.2	No	1.00		
4.3.44	UDB - 3.1	No	1.00		
4.3.45	UDB - 3.2	No	1.00		
4.3.46	UDB - 3.3	No	1.00		
4.3.47	UDB - 4.1	No	1.00		
4.3.48	UDB - 5.1	No	1.00		
4.3.49	UDB - 5.2	No	1.00		
4.3.50	UDB - 5.3	No	1.00		
4.3.51	UDB - 5.4	No	1.00		
4.3.52	UDB - 5.5	No	1.00		
4.3.53	UDB - 7.1	No	1.00		
	Carried To Collection				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
4.3.54	UDB - 10.1	No	1.00		
4.3.55	UDB - 11.1	No	1.00		
4.3.56	UDB - 12.1	No	1.00		
4.3.57	UDB - 13.1	No	1.00		
4.3.58	UDB - 14.1	No	1.00		
4.3.59	UDB - 15.1	No	1.00		
4.3.60	UDB - 16.1	No	1.00		
4.3.61	UDB - 17.1	No	1.00		
4.3.62	UDB - 18.1	No	1.00		
4.3.63	UDB - 19.1	No	1.00		
4.3.64	UDB - 20.1	No	1.00		
4.3.65	UDB - 21.1	No	1.00		
4.3.66	UDB - 22.1	No	1.00		
4.3.67	UDB - 23.1	No	1.00		
	Carried To Collection				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
4.4	**MECHANICAL EQUIPMENT SWITCH BOARDS** Supply, install, connect and test the following motor control centers in perfect operation conditions as shown on drawings and specified inclusive of enclosure, bus bars, starters, protective devices, metering devices, anticondensation heaters, all necessary components and requirements of command and monitoring controls local and remote from BMS center, as shown on drawings, as per Tender Specifications and the like to the satisfaction of the engineer				
4.4.1	MCC - 1.1	No	1.00		
4.4.2	MCC - 1.2	No	1.00		
4.4.3	MCC - 3.1	No	1.00		
4.4.4	MCC - 3.2	No	1.00		
4.4.5	MCC - 3.3	No	1.00		
4.4.6	MCC - 4.1	No	1.00		
4.4.7	MCC - 5.1	No	1.00		
4.4.8	MCC - 7.1	No	1.00		
4.4.9	MCC - 24.1	No	1.00		
4.4.10	MCC - 24.2	No	1.00		
4.4.11	MCC - 24.3	No	1.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 5 - AUTOMATIC POWER FACTOR CORRECTION EQUIPMENT				
	Supply and install the following automatic power factor correction equipment and ancillary equipment complete all as described, as shown on drawings, to improve power factor (pf) to 0.95				
5.1	PFC	No	3.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 6 - CABLES AND WIRES				
	FEEDER CABLES Supply, install, connect and test the following insulated cables, including trenches with covers, pipes, sleeves, cable trays, cable ladders, tagging, glands, terminations as shown on drawings, as per Tender Specifications and the like to the satisfation of the engineer				
6.1	**CU/XLPE/PVC Cables, Multicore Cables:**				
6.1.1	4 x 6mm2 + E = 6mm2	m	850.00		
6.1.2	4 x 10mm2 + E = 10mm2	m	250.00		
6.1.3	4 x 16mm2 + E = 16mm2	m	780.00		
6.1.4	4 x 25mm2 + E = 16mm2	m	450.00		
6.1.5	4 x 50mm2 + E = 25mm2	m	130.00		
6.1.6	4 x 70mm2 + E = 35mm2	m	160.00		
6.1.7	4 x 95mm2 + E = 50mm2	m	160.00		
6.1.8	4 x 120mm2 + E = 70mm2	m	160.00		
6.1.9	4 x 150mm2 + E = 70mm2	m	350.00		
6.1.10	4 x 185mm2 + E = 95mm2	m	200.00		
6.1.11	4 x 240mm2 + E = 120mm2	m	340.00		
6.2	**Fire Rated Cables:**				
6.2.1	4 x 6mm2 + E = 6mm2	m	120.00		
6.2.2	4 x 10mm2 + E = 10mm2	m	1,300.00		
6.2.3	4 x 50mm2 + E = 25mm2	m	150.00		
6.2.4	4 x 70mm2 + E = 35mm2	m	60.00		
6.2.5	4 x 95mm2 + E = 50mm2	m	100.00		
6.2.6	4 x 185mm2 + E = 95mm2	m	160.00		
6.3	**Bus Duct** Supply, install, connect and test				
6.3.1	Bust duct 800A 480/2770 3 phases 4 wires	m	100.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 7 - WIRING DEVICES, SWITCHES, SOCKETS, ETC				
7.1	**DISCONNECTING SWITCHES** Supply, install, connect and test diconnecting switches complete in perfect operating conditions, including conduits, trays, trenches, boxes, wiring, wiring cabe (measured separately) as shown on drawings, as per Tender Specifications and the like to the satisfaction of the engineer				
7.1.1	6 x 30 A 6 POLE WP	No	40.00		
7.1.2	6 x 40 A 6 POLE WP	No	9.00		
7.1.3	6 x 80 A 6 POLE WP	No	1.00		
7.1.4	6 x 250 A 4 POLE WP	No	1.00		
7.1.5	4 x 200 A 4 POLE WP	No	2.00		
7.1.6	4 x 160 A 4 POLE WP	No	9.00		
7.1.7	4 x 120 A 4 POLE WP	No	3.00		
7.1.8	4 x 100 A 4 POLE WP	No	11.00		
7.1.9	4 x 80 A 4 POLE WP	No	4.00		
7.1.10	4 x 60 A 4 POLE WP	No	3.00		
7.1.11	4 x 40 A 4 POLE WP	No	7.00		
7.1.12	4 x 30 A 4 POLE WP	No	15.00		
7.1.13	4 x 20 A 4 POLE WP	No	3.00		
7.1.14	2 x 30 A 2 POLE	No	9.00		
7.1.15	2 x 20 A 2 POLE WP	No	32.00		
7.1.16	2 x 20 A 2 POLE	No	660.00		
	Carried To Collection				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
7.2	**ELECTRICAL DEVICES/ACCESSORIES**				
	Supply, install, connect and test wiring devices complete in perfect operating conditions, including conduits, trays, trenches, boxes, wiring,(up to panel boards or to nearest wiring device or lighting fixture) for all items listed below as shown on drawings, as per Tender Specifications and the like to the satisfaction of the engineer				
7.2.1	One way One gang lighting switch, 10 A. rated	No	257.00		
7.2.2	One way Two gang lighting switch, 10 A. rated	No	297.00		
7.2.3	One way Three gang lighting switch, 10 A. rated	No	10.00		
7.2.4	Two way One gang lighting switch, 10 A rated	No	12.00		
7.2.5	Two way Two gang lighting switch, 10 A rated	No	36.00		
7.2.6	Motion Sensor	No	492.00		
7.2.7	Lighting switch panel	No	37.00		
7.2.8	One way One gang lighting switch, 10 A. rated, pilot switch	No	4.00		
	Carried To Collection				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
7.2.9	Single socket outlet 3 pin 10/16A rated	No	444.00		
7.2.10	Single socket outlet 3 pin 10/16A rated WP	No	167.00		
7.2.11	Duplex socket outlet 3 pin 10/16A rated	No	1,067.00		
7.2.12	Duplex socket outlet 3 pin 10/16A rated on UPS	No	828.00		
7.2.13	Electric outlet	No	71.00		
7.2.14	Electric outlet LCD	No	3.00		
7.2.15	Floor Mounted Box	No	270.00		
7.2.16	Duplex socket outlet 3 pin 10/16A rated with GFCI protection	No	41.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 8 - LIGHTING INSTALLATION				
8.1	**LIGHTING POINTS** Supply and install the following points complete with all necessary wires conduits, boxes and accessories required to provide power to the lighting fittings from LP (lighting panel including earth wire all as described) as shown on drawings, as per Tender Specifications and the like to the satisfaction of the engineer				
8.1.1	Lighting points	No	6,851.00		
8.2	**LIGHTING FITTINGS** Lighting fittings shall be complete with suspension/ rods, tubes, ballast's and accessories. All LED fixtures shall have a power factor correction greater than 0.9 Supply and install the following lighting fittings.				
8.2.1	Type A1	No	2,330.00		
8.2.2	Type AIE	No	622.00		
8.2.3	Type C1	No	166.00		
8.2.4	TypeC1E	No	62.00		
8.2.5	Type C2	No	170.00		
8.2.6	Type C2E	No	83.00		
8.2.7	Type C3	No	594.00		
8.2.10	Type C3E	No	219.00		
	Carried To Collection				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
8.2.11	Type D1	No	973.00		
8.2.12	Type D1E	No	293.00		
8.2.13	Type D2	No	12.00		
8.2.14	Type D2E	No	4.00		
8.2.15	Type D3	No	64.00		
8.2.16	Type D3E	No	35.00		
8.2.17	Type D4	No	93.00		
8.2.18	Type D4E	No	33.00		
8.2.19	Type D5	No	18.00		
8.2.20	Type D5E	No	3.00		
8.2.21	Type F3	No	327.00		
8.2.22	Type F3E	No	133.00		
8.2.23	Type W1	No	31.00		
8.2.24	Type W1E	No	12.00		
8.2.25	Type W2	No	55.00		
8.2.26	Type W2E	No	11.00		
8.2.27	Type W3	No	7.00		
8.2.28	Type F	No	153.00		
8.2.29	Type WW	No	16.00		
8.2.30	Type O	No	76.00		
8.2.31	Type O1	No	56.00		
8.2.32	Outlet for lighting	No	40.00		
8.2.33	Exit	No	201.00		
8.2.34	Type O2	No	76.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 10 - MAIN EARTHING SYSTEM				
	Supply, install, connect and test, complete in perfect operating conditions, including earth pits, earth test links, earth bar, earth continuity conductor to all panels in compliance with IEE regulations including interconnection of all earthing systems as shown on drawings, as per Tender Specifications and to the satisfaction of the engineer				
10.1	Earthing System	L.S.	1.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 11 - LIGHTNING PROTECTION				
	Supply, install, connect and test in perfect operating condition to ensure the safety as intended, a complete lightning system comprised of FARADAY cage on the building roof including earth termination network, horizontal conductors down and bonding conductorts ground earth network (earth rods, earth pits, etc...) as shown on drawings, as per Tender Specifications and the like to the satisfaction of the engineer				
11.1	Lightning protection system (direct strike)	L.S.	1.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 12 - FIRE ALARM AND DETECTION				
12.1	**FIRE ALARM SYSTEM** Supply ,install,testing, commissioning and put into operation expandable fire alarm intelligent addressable control panel class A, UL and FL as per riser diagram, Event printer, auto dialer, control modules, relays, wiring, printer, power supplies, fire pumps monitoring, emergency generator monitoring and alarm, interface units with HVAC, MDBs, elevators,MDF, with built in SLA (Sealed Lead Acid) battery and battery charger all interface with other trades, cabling, conduits etc....., and all necessery ancillary works and accessories required For complete installation as per drawings and specs include control module.				
12.1.1	Addressable fire alarm control panel (FACP) including but not limited to: 6 Loops	No.	1.00		
12.1.2	Fire alarm manual breakglass station	No	131.00		
12.1.3	Fire alarm bell + Strobe Light	No	202.00		
12.1.4	Heat detector	No	123.00		
12.1.5	Photoelectric smoke detector	No	1,174.00		
12.1.6	Control modules	No	119.00		
12.1.7	Monitor modules	No	32.00		
12.1.8	fire alarm repeater panel (FARP)	No	7.00		
12.1.9	Fire phone jack	No	181.00		
12.1.10	Carbon Monoxide Detector	No	10.00		
12.1.11	Combined heat and smoke detector	No	25.00		
12.1.12	Isolation module as per riser diagram	L.S.	1.00		
	Carried To Collection				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	From Collection				
12.2	**EMERGENCY CALL SYSTEM** Supply and install all necessary fitting, wires, conduits, boxes devices, control panels as described and shown on drawings as per tender and specifications and to the satisfaction of the Engineer and all necessary connections and interface with FA system				
12.2.1	Emergency call control panel (ECP)	L.S.	1.00		
12.2.2	Emergency pull cord (EPC)	No.	21.00		
12.2.3	Reset Buttom (rb)	No.	21.00		
12.2.4	Door indicator with sound and lighting (di)	No.	14.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 13 - DATA NETWORK Supply, install, connect and test data system complete with conduits installations from patch panel to the data socket outlets, including pull or draw or junction boxes and derivation boxes, gate cables, 19 inch Rack mount for data and all necessary connections and accessories as shown on drawings as per Tender Specifications and the like to the satisfaction of the engineer.				
13.1	Data Rack 42U (including Active Components)	No	17.00		
13.2	Data Rack 24U (including Active Components)	No	8.00		
13.3.1	Patch panel 42U	No	90.00		
13.3.2	Patch panel 24U	No	5.00		
13.4	Data socket outlets (including RJ 45 connectors, Cat6A STP cable and faceplate)	No	719.00		
13.5	Data backbone, including wiring and conduiting from the internal provider connection to the patch panel	L.S.	1.00		
13.6	(Wifi) access point	No	141.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 14 - TELEPHONE AND PABX IP TELEPHONE SYSTEM Supply, install, connect and test telephone system (and the billing system softawer and hardware) complete with conduits installations from MDF to the Telephone socket outlets, including pull or draw or junction boxes and derivation boxes, gate cables, 19 inch Rack mount for Telephone and all necessary connections and accessories as shown on drawings as per Tender Specifications and the like to the satisfaction of the engineer				
14.1	EPABX and Billing System compatible with it.	L.S.	1.00		
14.2	MDF-main including all incoming and outgoing cables, and surge arrestors protecting devices on incomimg cables side and patch panel	L.S.	1.00		
14.3	Telephone outlet (including Cat6a cable; faceplate and RJ 45 connectors)	No	670.00		
14.4	Telephone backbone, including wiring and conduiting from the selected MDF to the connection Box from Telephone Authorities	L.S.	1.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 15 - IP CCTV SYSTEM Supply, install, connect and test CCTV system complete with conduits installations from the location of the NVR through the different CCTV camera outlets, including the pull or draw boxes and derivation boxes, the junction and outlet boxes, the cameras, the NVR, rack mount 19 inch suitable for selected applications, the wiring (Cat6A) and all necessary connections to the management station as shown on drawings as per Tender Specifications and the like to the satisfaction of the engineer.				
15.1	The NVR cabinet including the NVR's, the speed dome controller, the software, the interface with the security systems, the wiring and all necessary connections and accessories.	No	1.00		
15.2	IP camera fixed Indoor Day + Night	No	163.00		
15.3	IP outdoor camera (IP=54)	No	73.00		
15.4	CCTV LCD Screen Monitor with cabinet	No	2.00		
15.5	Power supply for CCTV with back-up power for 3 hours	L.S.	1.00		
15.6	Backbone, including wiring and conduiting from each NVR to the monitoring room	No	1.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 16 - IPTV SYSTEM				
16.1	The UHF antenna (Q=1), the satellite dishes (Q=3), the coaxial cables RG 11 from the antennas and satellites to the derivation box via the SMATV cabinet, including all necessary amplifiers, multi-switches, splitters, top-offs, decoder	L.S.	1.00		
16.2	Wall mounted socket outlet for TV + SAT + FM in SMATV system	No	99.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 17 - IP ACCESS CONTROL SYSTEM Supply, install, connect and test access control system complete with conduits installation from the main access control system to the location of the control, the door frame, card readers and exit push buttons located on the drawings including pull & draw boxes, wiring and all necessary connection and accessories, as shown on drawings, as per Tender Specifications and the like to the satisfaction of the engineer				
17.1	Main security control panel	No	1.00		
17.2	Security control panel	No	25.00		
17.3	Card access reader	No	118.00		
17.4	Card access push button	No	118.00		
17.5	Magnetic door and frame contact	No	118.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 18 - PUBLIC ADDRESS SYSTEM				
18.1	Public address system including but not limited to: - Main processor module - Programmable module with multi-outputs - AM/FM tuner - CD player (6 CD's) - 1 Power amplifyer 240W - Digital microphone (stand type) - Cabinet	L.S.	1.00		
18.2	Speakers Supply, installation,testing and handing over the following:				
18.2.1	Ceiling mounted loudspeaker (6W)	No	331.00		
18.3	Microphone	No	2.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 19 - SOLAR SYSTEM				
	Supply, install, connect and test the below off-grid solar system complete with connections & necessary accessories to PV-MDB as shown on drawings and as per specifcations & the like to the satisfaction of the supervision engineer.	L.S.	1.00		
19.1	**SOLAR SYSTEM COMPONENT**				
19.2	**PV PANELS**				
	155 PV panels to with Nominal Max. Power (Pmax) 545 W to supply cost included in the system				
	Hybrid inverter for batteries 90 KW cost included in the system				
	BATTERIES				
	48 # Lithium 51.2 VDC, 100 Ah for 2 hours operating and 1 day storage cost included in the system				
	Cables and cable trunk and all necessary accessories cost included in the system				
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 20 - CLOCK SYSTEM				
	Including clock control panel, clock, cable and cable trays	L.S.	1.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
	CHAPTER 21 - ELEVATORS				
	Supply, install, connect and test the lifts as described in specification, including all coordination, design, execution drawing and details, security of the personnel, scaffodling, labor and equipments necessary for the perfect operation of the lift and to the satisfaction of the engineer				
21.1	Lift No. 2,3, 4 & 5: All the floor lifts work toghether (Duplex System) for the four lifts	No	4.00		
	Supply and install the lifts as described in specification, including all coordination, design, execution drawing and details, security of the personnel, scaffodling, labor and equipments necessary for the perfect operation of the lift and to the satisfaction of the engineer				
21.2	Lift No. 1: Hoistway at basement floors	No	1.00		
	Carried To Summary				

ELECTRICAL ENGINEERING SERVICES

Item	Description	Unit	Quantity	Unit Price US$	Total Price US$
PART 3	**ELECTRICAL ENGINEERING SERVICES**				
CHAPTER	**SUMMARY**				
1	GENERATING POWER PLANT				
2	POWER TRANSFORMER				
3	UPS				
4	DISTRIBUTION BOARD AND CIRCUIT BREAKERS				
5	AUTOMATIC POWER FACTOR CORRECTION EQUIPMENT				
6	CABLES AND WIRES				
7	WIRING DEVICES, SWITCHES, SOCKETS, ETC				
8	LIGHTING INSTALLATION				
9	AFTER LIGHTING SYSTEM (NOT USED)				
10	MAIN EARTHING SYSTEM				
11	LIGHTING PROTECTION				
12	FIRE ALARM AND DETECTION				
13	DATA NETWORK				
14	TELEPHONE AND PABX IP TELEPHONE SYSTEM				
15	IP CCTV SYSTEM				
16	IPTV SYSTEM				
17	IP ACCESS CONTROL SYSTEM				
18	PUBLIC ADDRESS/SYSTEM				
19	SOLAR SYSTEM				
20	CLOCK SYSTEM				
21	ELEVATORS				
ELECTRICAL ENGINEERING SERVICES TOTAL CARRIED TO PRICE SUMMARY					