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**ORIGINAL**

• Section - 7

• **BILLS OF QUANTITIES**

- 1. Include Preliminary Bill items as Bill No. 1**
- 2. VAT Component shall be filled in Bills of Quantities and it shall not be carried to Form of Bid.**
- 3. Any discount offered will not be considered for Provisional Sum Items**

**Proposed Renovation and Interior Design for Legal Department, Colombo Municipal Council, Colombo 07.**

**Bid number: ME/LG/BR/113/2021**

**Bill Number 01 - Preliminaries**

Serial No	Description	Unit	Amount in Rs.
1	Provincial sum for providing a Performance security.	Provisional sum	39,000.00
2	Provincial sum for providing a Advance Payment security.	Provisional sum	155,000.00
3	Provincial sum for insurance of works, Machinery & Equipment, Plant, Material, third party persons & property and Employer's personnel & property at site as per the Contract.	Provisional sum	57,000.00
4	Provincial sum for insurance against accidents and injury to Contract's personnel as per the contract.	Provisional sum	57,000.00
	<b>Contract's Facilities</b>		
5	Allow lump sum for constructing, maintaining, dismantling and removal on completion of the Works, a temporary site office of adequate size including staff rest room and toilets and other facilities for the Contractor's site management staff in accordance with the plans prepared by the contractor and concurred by the Engineer.	Item	
6	Allow lump sum for constructing, maintaining, dismantling and removal on completion of the Works, building to be used as workshops and stores for perishable materials. Buildings shall be constructed in accordance with the drawings prepared by the contractor and concurred by the Engineer. The Lump sum shall also include for altering, modifying, or dismantling and re-erecting within the site all temporary buildings/structures if required.	Item	
7	Allow lump sum for constructing, maintaining, dismantling and removal on completion of the Works, temporary building in accordance with the plans prepared by the contractor and concurred by the Engineer to accommodate the following:  1. Worker's rest room, canteen facilities, kitchen 2. Toilet and wash areas. 3. Sick/First - Aid room 4. Accommodation for contractor's staff and workmen including sanitary facilities on site of applicable. facilities to workman shall conform to the latest public health and industrial regulations.	Item	
8	Allow lump sum for providing accommodation including sanitary facilities and transport for contractor's staff and workmen off site.	Item	

Serial No	Description	Unit	Amount in Rs.
9	Allow lump sum for providing telephone and facsimile facilities, electricity and water servicers for contractor's site office for their use in connecting with the works.	Item	
10	Allow lump sum for maintenance, rental, consumption chargers etc. For telephone and facsimile facilities, electricity and water servicers for contractor's site office for their use in connecting with the works.	Item	
11	Allow lump sum for contractor's transport facilities at site.	Item	
12	Allow lump sum for employing a licensed land surveyor to define the building site work etc., check levels and carry out such other surveys as may be necessary to establish accurately the placing of forms and pouring of concrete and all other setting out in both vertical and horizontal plane.	Item	
13	Allow lump sum for setting out of works in accordance with drawings and other written information given by the Engineer.	Item	
	<b>Quality, Standards and progress</b>		
14	Allow lump sum for provision of provision of progress reports including photographic records and other schedules included in the ICTAD publication Guidelines for effective construction management. (ICTAD/CM/01), relevant to contract administration as directed by Engineer	Item	
15	Allow lump sum for all cost in connection with preparing samples for testing, making arrangement for testing of Materials, goods etc, as stipulated in the specification, obtaining test reports and submitting the same to the Engineer.	Item	
16	Allow lump sum for provision of shop drawings, bar schedules etc for Engineer's approval.	Item	
17	Allow lump sum for provision of 2 sets of (hard copies and soft copies) as-built drawings of all services, for Engineer's approval.	Item	
	<b>Health, Safety and Environment</b>		
18	Allow lump sum for following services throughout the period of construction for the Engineer's Office, contractor's site office and worker's rest room and other facilities; a. Employing workmen to clean and maintain all areas to be in good hygienic conditions including toilets, wash areas, kitchen etc. b. Supplying adequate drinking water, water for washing purposes, soap, detergent, etc. throughout the period of construction.	Item	

Serial No	Description	Unit	Amount in Rs.
19	Allow lump sum for providing all necessary safety measures to workmen at site conforming to the latest industrial safety regulations and as directed by the Engineer.	Item	
20	Allow lump sum for making adequate provisions against air and noise pollution of surrounding areas. Hoarding and dust screens shall be provided to control dust escaping to surrounding areas.	Item	
21	Allow lump sum for maintaining the site clean and orderly manner at all times and during the entire contract period.	Item	
22	Allow lump sum for demobilization, removal of all rubbish & debris and clearing up site on completion, leaving all in good order and handing over.	Item	
23	Allow lump sum for employing and adequate number of security personnel and security systems on full time basis throughout the period of construction, and providing for necessary security lighting and warning system.	Item	
24	Allow lump sum for providing and maintaining necessary fencing, hoarding and gates for safeguarding the works, materials and plant, as directed by the Engineer	Item	
25	Allow lump sum for protection of public and private services at site. The Contractor shall take due care to protect, water supply and drainage systems, telephone and over head/ buried electrical cable etc. Whose locations are identified and make available to bidders at the time of bidding, unless earmarked for demolition, during the execution of the works. The contractor is to make good any damage due to any cause within his control at his own expenses or pay any cost and charges in connection therewith.	Item	
26	Allow lump sum for supply of water for the works and paying all charges and other expenses in connection with the supply from water mains or any other alternative method of water mains or any other alternative method of water supply, storage and reticulation.	Item	
27	Allow lump sum for supplying temporary electricity for the Works including connection, distribution system for the works, internal arrangements and all payments to the authorities for consumption.	Item	
28	Allow lump sum for providing hoisting equipment and other plants for the use of the works on site (dry Hire)		
29	Allow lump sum for providing small machinery and equipment for the use of the works at site	Item	

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Serial No	Description	Unit	Amount in Rs.
30	Allow lump sum for erecting and maintaining scaffolding and / or self climbing platform. Such scaffolding etc. shall be removed on completion and all works disturbed shall be made good.	Item	
31	Allow lump sum for stamp duty in accordance with the prevailing regulations of the Government	Item	
32	Allow lump sum for providing and maintaining a name board to the specification and/ as directed by the engineer	Item	
33	Allow lump sum for excavating for trial pits/ trial trenchers as specified or as directed by the Engineer as for locating services etc. and reinstating the ground and making good disturbed work to the satisfaction of the Engineer.	Item	
	<b>Total carried over to summary</b>		

**BILL OF QUANTITIES FOR PROPOSED RENOVATION AND INTERIOR DESIGN FOR LEAGAL DEPARTMENT,  
COLOMBO MUNICIPAL COUNCIL, COLOMBO 07.**

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<p>1. Prior to do pricing the Contractor is advised to do a detail inspection of the site related to all items mentioned under this bill.</p> <p><b>BILL NO. C</b></p> <p><b>DEMOLISHER/REPAIR WORK</b></p> <p><b>Note:</b></p> <p>1. Temporary support incidental to demolitions</p> <p>2. Rate shall include carting away all unusable materials</p> <p>3. Rates for Demolition shall include demolishing, dismantling and removing etc. with the minimum damage to the material in the process of dismantling, temporary supporting and protecting existing work and adjacent properties against damage, dust and weather and stacking and transport to specified location all serviceable materials as directed and disposal of debris from site including spraying water periodically to reduce the amount of dust.</p> <p><b>C1- DEMOLISHION</b></p>				
2C1-01	Purchasing of reusable items by the contractor. (Contractor has to offer a price for this marked as negative).	Allow	Item	Sum	
2C1-02	Removing existing suspended ceiling & carting away debris. (Ground and Mezzanine floor). Supply and fixing of new ceiling paid separately	188.0	m <sup>2</sup>		
	<p><b>C2-ALTERATION</b></p> <p><b>Note -</b></p> <p>Following item allow for disconnection or plugging water, sewer connections and making good all damages to walls and floor etc. (Rate to be included necessary con. &amp; cement &amp; sand mortar)</p>				
2C2-03	Removing existing water closet and carting away debris, at ground floor Chief legal officers room. (1 nr) Fixing of new water closet paid separately.	1	nr		
2C2-04	Removing existing sinks at pantry carting away debris. (Ground and Mezzanine floor) Fixing of new sink and pantry paid separately.	2	nr		

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
2C2-05	Removing existing plumbing and engineering installation in ground floor and mezzanine floor if any carting away debris. New plumbing paid separately.	Allow	Item	Sum	
2C2-06	Removing existing electrical installation in ground and mezzanine floor including points and wiring if any carting away debris. Rewiring and electrical installation paid separately.	Allow	Item	Sum	
2C2-07	Removing existing lime plastering in walls including bath room and carting away debris. Re plastering paid separately.(Internally and externally)	478.0	m <sup>2</sup>		
2C2-08	Removing existing floor carpet on cement rendered floor including preparing surface and carting away debris.(Ground floor). Re-carpeting paid separately.	87.0	m <sup>2</sup>		
2C2-09	Removing existing floor carpet on timber floor including preparing surface and carting away debris. Mezzanine floor. Re-carpeting paid separately.	92.0	m <sup>2</sup>		
2C2-10	Removing of necessary aluminum partition in ground floor for plastering and refixing as it is .	Allow	Item	Sum	
2C2-11	Removing of existing partition at Mezzanine floor .	Allow	Item	Sum	
2C2-12	Removing floor and wall tile in ground floor bath room.	Allow	Item	Sum	
2C2-13	Removing of existing soffit plaster in first floor slab and beams undamaged area including corner moulding.( removing of soffit plaster including corner moulding in damage area shall deemed to include in item no 2C3.01.01.01)	120.0	m <sup>2</sup>		
2C2-14	Carefully Removing of existing timber floor in mezzanine floor including all accesories. And stack within the site safely and protected from the weather for refixing.	92.0	m <sup>2</sup>		

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
<b>2C3-01</b>	<b>2C3-REPAIR WORK</b>  <b>REPAIR OF CONCRETE SLAB AND BEAM</b>  Note : The rate shall deemed to include a) Clear the work space including removing debris away b) Remove loose concrete c) Clean reinforcement d) Introduce new reinforcement for corroded ones e) Apply epoxy bonding agent on concrete surface  e) Apply single component zinc rich epoxy primer on reinforcement f) Apply cementitious single component polymer modified concrete repair mortar. g) Apply laminated adhesive on bottom of slab and beam h) Stick unidirectional glass fiber fabric sheet on the slab bottom and around the beam g) For beam structural repair work carbon fiber strip lamination for strength improvement and wrap the carbon fiber for shear improvement.				
2C3.01.01	<b>Slab Soffit Repair Work</b>				
2C3.01.01.01	Remove plaster and loose concrete to expose sound concrete and steel reinforcements, rust removing on corroded reinforcements, apply of single component zinc rich epoxy primer (X-Roc Galzinc or equivalent) on cleaned R/F bars , soffit repair with epoxy bonding agent (X- Roc Epoxy bond or equivalent) and concrete surface repair with single component polymer modified concrete repair mortar by 25mm thk layer(X-Roc Ultra Patch or equivalent) ).	28.0	m <sup>2</sup>		
2C3.01.01.02	<b>GFRP Work</b>  Installation of high strength glass fiber unidirectional fabric ( X-shield glass fiber fabric or equivalent) layers using (X wrap lamination adhesive or equivalent) with silica sand spreading on surface for whole area of 10 nr slab panels.	28.0	m <sup>2</sup>		



Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
2C3.01.02	<b>Beam Repair Work</b>				
2C3.01.02.01	Remove plaster and loose concrete to expose sound concrete and steel reinforcements, rust removing on corroded reinforcements, apply of single component zinc rich epoxy primer (X-Roc Galzinc or equivalent) on cleaned R/F bars , soffit repair with epoxy bonding agent (X- Roc Epoxy bond or equivalent) and concrete surface repair with single component polymer modified concrete repair mortar by 25mm thk layer(X-Roc Ultra Patch or equivalent) ).				
2C3.01.02.01.01	For Beam , girth not exceeding 1200mm	32.0	m		
2C3.01.02.01.02	For Beam , girth not exceeding 2000mm	4.0	m		
2C3.01.02.02	<b>Reinforcement Replacing Work</b> Replacing corroded R/F bars (if required) with lapping to existing R/F bars including anchoring.	250.0	kg		
2C3.01.02.03	<b>CFRP Laminate Installation</b> Installation of 100 mm wide & 1.2 mm thick carbon fiber polymer plates for structural reinforcement ( S&P C-LAMINATES 100/1.2 or equivalent) on soffit of beams with high performance solvent free two component high strength and modulus epoxy resin adhesive (S&P RESIN 220 strips or equivalent) including high build thixotropic epoxy resin for filling bug holes ( X-Shield Bug Fill or equivalent)	36.0	m		
2C3.01.06	<b>CFRP Work</b> Installation of unidirectional carbon fiber fabric sheet (S & P C-SHEET 300 mm wide (300 gsm) (CS240300300) or equivalent) single layer with high performance , solvent free two component high strength high modulus epoxy resin adhesive ( S & P RESIN 55 HP or equivalent) for beams including 20 mm X 20 mm chamfer formation on				
2C3.01.06.01	For Beam , girth not exceeding 1200mm	32.0	m		
2C3.01.06.02	For Beam , girth not exceeding 2000mm	4.0	m		
2C3.01.07	<b>MARGEL INJECTION WORK</b>				
2C3.01.07.01	Installation of vapour based corrosin inhibitor QED Margel VPI 580or approved equivalent injection with one capsule per square meter for slab and beam.	120.0	nr		
2C3-02	<b>REPAIR OF METAL WORK</b>				
2C3-02-01	Repair existing sliding door ( SD - 1350mm X 2100mm ) in ground floor chief legai officer's room.	1	nr		

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
<b>2C3-03</b>	<b>REPAIR OF TIMBER</b>				
2C3-03-01	<b>Stair case</b> Removing of existing staircase wooden rise, tread and frame ( L angles only) and refixing new wooden planks as per the detail drawing. Item shall deemed to include repainting of existing steel frame and hand rail.	Allow	Item	Sum	
<b>2C3-04</b>	<b>REPAINT OF STEEL SECTIONS</b>  <b>Note : The rate shall deemed to include</b> a) Clear the work space including removing debris away b) Remove rust, corrosion, mill scale, dust, etc to expose the parent material to the best satisfaction of the Engineer c) The surface treatment shall be suitable to the C3 corrosivity category as defined in ISO 12944-1 with a durability period not less than 15 years. The details of the proposed painting system, justification of its suitability to the C3 corrosivity category, method statement for surface preparation and surface treatment along with method of measurement of dry film thicknesses (DFTs) shall be submitted for Engineer's prior approval.				
2C3-04-01	In I section Columns ( approximate size 350 x 175 X 41.4 kg/m UB)	45.0	m <sup>2</sup>		
2C3-04-02	In I section Beam ( approximate size 200 x100 X 21.3 kg/m UB)	74.0	m <sup>2</sup>		
2C3-04-03	In I section Columns ( approximate size 150 x 75 x 14 kg/m UB)	109.0	m <sup>2</sup>		
<b>2C3-05</b>	<b>STRCTURAL STABILITY REPORT</b>				
2C3-05-01	Submit the structural calculation report for structural strengthen work of beam and slab. Using glass fiber fabric and carbon fiber fabric applicable to beam and slab in legal department and beams at entrance of across upper floor main corridor.	Allow	Item	Sum	
<b>Total carried over to summary</b>					

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<b>BILL NO G</b>  <b>MASONRY WORKS</b>  <b>Note</b> a. Bricks and Blocks should be of superior quality subject to take prior approval by the engineer. b. Mortar used for block work shall be 1:5 cement and sand mixture unless otherwise specified.  <b>G1 - BRICK/BLOCK WORKS</b>  <b>112.5mm thick brick work in cement and sand mortar 1:5 for the following items</b>  2G1/1 In mezzanine floor	3.7	m <sup>2</sup>		
	<b>Total carried over to summary</b>				

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<b>BILL NO H</b>				
	<b>WATER PROOFING</b>				
	<b>Note:</b>				
	The water proofing contractor (or sub contractor) should be a registered specialist contractor at the ICTAD in the category of water proofing.				
	The contractor shall submit a written warranty of at least 5 year to cover on the quality of the material, suitability of the material for the situation and the workmanship including water tightness.				
	The water proofing material shall confirm to relevant British, Euro or ASTM specifications.				
	Applying of cementitious single layer water proofing material "Marplastic or equivalent over the plastered Masonry surface over the water/waste water/Hot water pipes and protective plaster act as base for the wall/ floor tile for the following items				
02H-01	In ground floor bath room walls and floor ( wall up to 300mm height)	3.5	m <sup>2</sup>		
02H-02	In ground floor pantry walls ( up to 600mm height)	2.0	m <sup>2</sup>		
02H-03	In Mezzanine floor pantry walls	1.1	m <sup>2</sup>		
	<b>Apply single component hybrid polyurethane liquid applied water proofing membrane (X-Pruf PU1 Plus or equivalent).</b>				
02H-04	External wall	300.0	m <sup>2</sup>		
02H-05	<b>Crack Injection Work</b>				
02H-05-01	Fixing of Steel injection packers at 150 mm c/c and injecting with low-viscosity epoxy resin( X-Inject EP200 or equivalent )for crack sealing of soffit of slab with sealing at one side with galvanized or stainless steel bonded anchor (Mungo MIT VE Tropical or MIT 600 RE or equivalent).(epoxy resin paid separately)	100	nr		
02H-05-02	Supply of low-viscosity epoxy resin material for structural sealing of cracks in concrete and walls( X-Inject EP200 or equivalent )	50.0	l		
	<b>Total carried over to summary</b>				

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<b>BILL NO K</b>				
	<b>METAL WORK</b>				
	The work shall include supplying, fabricating and installation of doors & windows etc. made of powder coated aluminum sections having a minimum powder coating of 60+ 5 microns thickness & colour bonded. Rate shall be included for 5mm thick clear glass, rubber beadings, stainless steel screws, rawl plugs, neoprene gaskets, locks, aluminum hinges, bar hinges and push plates etc. (Extrusions to be of 1.8mm for doors & 1.5mm for window frame ). Samples shall be submitted for the approved of Engineer before use				
	The Aluminum alloy to be used shall conform to the requirements of BS 1474:1987 - AA 6063 surface treatment shall conform to BS 1615 & BS 3987.				
	Supply and fix powder coated Al framed, Al composite panel with 5mm clear glass with sticker door as per detail plan.(D1- 800mmx2100mm) for the following items.				
2K.01	In Ground floor	01	nr		
2K.02	In Mezzanine floor	01	nr		
	Supply and fix powder coated Al framed, Al composite panel with 5mm clear glass with sticker door as per detail plan.(D2- 900mmx2800mm) for the following items.				
2K.03	In Mezzanine floor	04	nr		
	<b>SAND BLASTING</b> <i>SLICKER</i>				
2K.4	Sand blasting of existing doors and partition wall at Ground floor .	22.0	m <sup>2</sup>		
2K.5	Supply and fix door closer In ground floor existing door.-D2	1	nr		
	<b>Pantry cupboards</b>				
2K.6	Supply and fix a uminum composite pannel pantry cupboard & sashes under Granite work top as per the detail drawing . (Size - 2150mm x600mmx875mm)]in ground floor	1	nr		

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
2K.7	Supply and fix aluminum composite pannel pantry cup board & sashes under Granite work top as per the detail drawing (Size - 1825mm x600mmx875mm)]in mezzanine floor	1	nr		
2K.8	Supply and fix aluminum composite pannel top cupboard with aluminum framed (1370mm above floor level) finished with all necessary accessories as per the detail drawing (Size - 912mm x600mmx762mm)] in ground floor.	1	nr		
	<b>Sundries</b>				
2K.9	Supply and place 450mm height porcelain statue on 1350x300x300 sized cement cube. Colour and sample should be approved by the Engineer.	1	nr		
2K.10	Supply and fix stainless steel name board with leaser jet black colour letters in Ground floor.(SIZE 600 X150)	3	nr		
2K.11	Supply and fix stainless steel name board with leaser jet black colour letters in Mezzanine floor.(SIZE 600 X150)	4	nr		
<b>Total carried over to summary</b>					

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<b>BILL NO L</b>  <b>WOOD WORK</b>  <b>Note:</b>  <b>a. Timber usage</b> The purpose of timber shall be structural and furniture use.  <b>b. General requirement</b> Timber for the structural purpose shall be in the density range of 800 to 900kg/m <sup>3</sup> and the same applicable to timber for furniture is 600 to 750 kg/m <sup>3</sup> at moisture content at service condition. <b>c. Seasoning by preservative treatment</b> The timber should be made durable by preservative treatment. Thus low hazard and non poisonous timber protection shall be adopted to achieve the moisture content under service environment. Timber shall be seasoned to achieve the specified moisture content under service environment with a suitable drying method. <b>d. Rates shall be include the Brass hinges, locks, handles &amp; all necessary accessories which should equal to exiting accessories and prior approval to be taken from the project Architect to finished the work.</b>  • Sample dimensions • Type of Seasoning <b>e. All cupboard frame and sashes to be finished with applying auto paint.</b>  <b>f. Rate shall be included for timber doors windows and fanlight finished sizes of 100mm 75mm frames, mullions etc. and 1 1/8" thick sashes.</b>				
2L-01	Supply and fix 3600mm X 535mmX2400mm size cupboard As per the detail drawing in ground floor chief legal officers room (Detail- Cupboard-01)	1	nr		
2L-02	Supply and fix 3100mm X 600mmX2400mm size cupboard As per the detail drawing in ground floor chief legal officers room (Detail- Cupboard-01)	1	nr		
2L-03	Supply and place fabric single seater visitor chair. Colour and sample should be approved by the architect(C1)	5	nr		
2L-04	Supply and place 1220x610x760mm sized dining table with two chairs.	2	nr		



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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
2L-05	Supply and fix 4147mm X 450mmX2400mm size cupboard As per the detail drawing in mezzanine floor.	1	nr		
2L-06	Supply and fix 2400mm X 450mmX1852mm size cupboard As per the detail drawing in mezzanine floor.	1	nr		
2L-07	Supply & fix tongued & grooved timber flooring with 40mm x 200mm timber planks for the following items	92.0	m <sup>2</sup>		
Total carried over to summary					



Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<b>BILL NO. M</b>				
	<b>CLADDINGS</b>				
2M.1	Supply and fix Timber colour mat finished 4 mm thick Aluminum composite cladding board cut to 600x150 mm sized on wall as per the detail drawing. Item shall deemed to necessary frame work in ground floor .	5.0	m <sup>2</sup>		
2M.2	Supply and place 900mm height plant pot finish with Timber colour mat finished 4 mm thick Aluminum composite cladding board cut to 600x150 mm sized on wall as per the detail drawing. Item shall deemed to necessary frame work in ground floor ( as per the detail P1))	1	nr		
	<b>Total carried over to summary</b>				

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<p><b>BILL NO - N</b></p> <p><b>PARTITION</b></p> <p><b>Note</b></p> <p>The work shall include supplying, fabricating and installation of doors and windows etc. made of powder coated aluminum sections having a minimum powder coating of 60+5 microns thickness &amp; colour bonded for the repair works and new door and windows as mention in the relevant item itself. Rate shall be included for 5mm thick clear glass, 3mm thick frosted glass rubber beadings, stainless steel screws, rawl plugs, neoprene gaskets, locks, aluminum hinges, bar hinges and push plates etc. (Extrusions to be of 1.2mm for minimum thickness for partition). Samples shall be submitted for the approved of Engineer before use.</p> <p>The Aluminum alloy to be used shall conform to the requirements of BS 1474:1987 - AA 6063 surface treatment shall conform to BS 1615 &amp; BS 3987.</p> <p>Supply &amp; fix powder coated aluminum partition frame, panelled with aluminum composite cladding panel of total thickness 4mm, with both sides aluminum sheets, two boards kept back to back (total thickness 5mm) with necessary pop rivets, gasket and GI channels &amp; etc. as per detail plan. For the following items</p>				
2N.01	<p>In Ground Floor</p> <p>Supply &amp; fix powder coated aluminum partition frame, one part panelled with aluminum composite panel of total thickness 4mm, with both sides aluminum sheets, two boards kept back to back (total thickness 5mm) and other portion panelled with 5mm thick clear glass panes with necessary pop rivets, gasket and GI channels &amp; etc. as per detail plan. For the following items</p>	3.0	m <sup>2</sup>		
2N.02	<p>In Mezzanine floor</p>	108.0	m <sup>2</sup>		

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<p><b>BILL NO. Q</b></p> <p><b>PLUMBING AND SANITARY INSTALLATIONS</b></p> <p><b>Note:</b></p> <p>Any other make/brand that has equivalent performance characteristics are considered as equivalent provided such fittings met with following criteria</p> <p>(a) Has an authorized local agent in Sri Lanka</p> <p>(b) The local agent has been in the trade of the offered make for not less than 5 years</p> <p>(c) The offered sanitary fittings and plumbing appliances (valves, taps, showers) should have 10 Year manufacturer's warranty issued by the agent.</p> <p>(d) Sanitary fittings ceramic parts should have 10 years warranty and flushing part should have one year warranty, Seat cover should have three years warranty.</p> <p>The cistern mechanism shall have an assurance for the availability of spares for the next 3 years.</p> <p>(e) The fittings are manufactured in conformity to BS, JIS, A.S.T.M., A.S. or S.L.S. standards</p> <p>(f) The dimensions are and performance characteristics are in par with the stated model.</p> <p>(g) The brands that may be considered as equivalent are "Rocell" brand, or "American standarder" brand or any other approved make which prior approval to be obtained from the engineer.</p> <p>(h) Plumbing work should be carried out by a plumber licensed by the CMC and executed in accordance with the specifications and requirement of the Water Supply &amp; Drainage Division of C.M.C.</p> <p>(i) Provisions should be made by the tenderers to submit the necessary plans and the payment of service connection fee to the National Water Supply &amp; Drainage Board.</p>				

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<p>(j) All water conduits shall be of standard quality PVC tubes of approved quality and approved by the National Water Supply &amp; Drainage Board gauge to be 1000 UPVC quality.</p> <p>(k) Rates shall be inclusive of bends, valves, reduces joints, end caps etc. Necessary for the installation of service including excavation, laying, testing, refilling of trench &amp; making good surface complete.</p> <p>(l) All valves, taps and showers shall be chromium plated brass unless other wise stated</p> <p>(m) After completing the plumbing work it should be certified by the building service engineer (Who are in drainage discipline) and as built drawing also submitted.</p> <p>Supply &amp; fix/lay 20mm dia PVC pipes in following items.</p>				
02-Q-01	Supply & fix 20 mm PVC pipes with necessary fitting.	10.0	m		
02-Q-02	Supply & fix 25 mm PVC pipes with necessary fitting.	10.0	m		
02-Q-03	Supplying and fixing 25mm stop valve "Pegler" Brand or approved equivalent.	2	nr		
02-Q-04	Supplying and fix 20mm dia. chromium plated Angle valve "Pegler" Brand or approved equivalent.	3	nr		
02-Q-5	Catch pit - 100mmx100mmx100mm fixed complete.	1	nr		
02-Q-6	Supply and fix floor standing wash basin and pedestal with overflow hole and single tap hole in center of approved equivalent complete to working order nclusive of the 1 1/4" chromium plated waste outlet of approved equivalent and 1 1/4" chromium plated siphon cleanable bottle trap of including approved quality pillar tap.	1	nr		
02-Q-7	Supply and fix close couple dual flush ceramic water closet (Aquat) of "Rocell" brand & model AP 3L013/AP44013 new sibla "P" or approved equivalent. Rate to include Bracket , Soft closing seat cover Duraplex sc 11013 concealed cistern and flexible connection.	1	nr		

**ORIGINAL**

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
02-Q-8	Supply and fix Chromium plated hand Bidet Spray of "American standered /Rocell" brand or approved equivalent complete to working order	1	nr		
02-Q-9	Supply and fix 12mm Chromium plated Bib tap	1	nr		
02-Q-10	Supply and fix Chromium plated bath room gully	1	nr		
02-Q-11	Removing and refixing of existing mirror in ground floor.	Allow	Item	Sum	
02-Q-12	Supply and fix chromium plated 600mm long Single Towel Bar of "American standered /Rocell" or approved equivalent.	1	nr		
02-Q-13	Supply and fix stainless steel soap tray.	1	nr		
02-Q-14	Supply and fix 12mm Chromium plated sawn neck kitchen tap	02	nr		
02-Q-15	Supply and fix stainless steel single bowl Kitchen sink.	02	nr		
Total carried over to summary					

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<b>BILL NO.S</b> <b>ELECTRICITY</b> <b>Note:</b> All electrical constructions should be according to IEE regulations (18th edition or later) and subject to the instructions of the electrical officer concerned. Jobs attend beyond condition will not be approved please.  All light fittings shall be approved by the project architect/ electrical engineer prior to the installation and follow the attached specifications and drawings				
2S.1	Supply & install approved type 600mm x 600mm x 35mm, 40W COB LED, 3600lumen light output ceiling surface mounted light fitting (cool white) as shown in the electrical layout & complete wiring by using items as round blocks, ceiling roses, 1.5 mm <sup>2</sup> Cu/PVC/PVC cable, flexible cable, sunk switches, sunk nut boxes and conduits or plastic casings etc. where necessary -2 year warranty .orange or similar shall be used.	46	nr		
2S.2	Supply & install approved type 56" sweep ceiling fans with dimmer type regulators with a switch - according to the electrical layout & complete wiring by using the same items as in No. 01 above + 2.5mm <sup>2</sup> Cu/PVC earth cable as per the specification. Fans shall not disturb the lights and aligned Air flow rate shall be 225 cu.m/min @ RPM 270 with tolerance as per SLS 814 and three star energy label as per SLS 1600. KDK MRG model or equivalent	12	nr		
2S.3	Supply & install approved type wall fans with regulators with a switch according to the electrical layout & complete wiring with same items as in No. 01 above and 2.5mm <sup>2</sup> Cu/PVC earth cable.KDK or equivalent	1	nr		
2S.4	Supply & install approved type 13A with switches as shown in electrical layouts & complete wiring by using 2.5mm <sup>2</sup> Cu/PVC/PVC cable + 2.5mm <sup>2</sup> Cu/PVC earth cable	50	nr		
2S.5	Supply & install approved type telephone sockets as shown in electrical layouts & complete wiring	6	nr		



Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
2S.6	Supply and install two compartment High Impact Resistant uPVC trunking for power and data, intercom as per the specifications approved by the architect and the Engineer. Shall use the accessory boxes, flat angles, bends, tees of the same cable management system and adapt a smooth finish to the cabling in the area and terminate near to the table or table separation decided by the architect	75.0	m		
2S.7	Supply and install 4x16mm <sup>2</sup> Cu/PVC/PVC +16mm <sup>2</sup> Cu/PVC/PVC in conduits/flexible conduits and all other necessary accessories. All conduits/casing shall be camouflaged	22.0	m		
2S.8	Supply and install 4x10mm <sup>2</sup> Cu/PVC/PVC +10mm <sup>2</sup> Cu/PVC/PVC in conduits/flexible conduits and all other necessary accessories. All conduits/casing shall be camouflaged	2.0	m		
2S.9	Supply and install an approved type distribution board in fabricated in zinc coated sheet not less than 1.5 mm thickness and all other necessary accessories, surface finish should be powder coated textured finish R.A.L.7032 and consists following and connect supply from MDB 100A 4P MCB 01 Nr. Bus bars & Indicators core balance EFR 40A 4P MCB 01 Nrs. (to DB_GF) 63A 4P MCB 01 Nrs. (to DB_UF) 40A 4P MCB 01 Nrs. (Spare) 40A 2P MCB 01 Nrs. 40A 2P RCCB 01 Nr.(30mA) 20A 1P MCB 02 Nrs.(spare) 16A 1P MCB 02 Nrs.(spare)	1	Item		
2S.10	Supply and install an approved type distribution board in fabricated in zinc coated sheet not less than 1.5 mm thickness and all other necessary accessories, surface finish should be powder coated textured finish R.A.L.7032 and consists following and connect supply from MDB (DB_GF)  40A 4P MCCB 01 Nr. Bus bars & Indicators 40A 2P MCB 03Nrs. (For 3 Phases) 40A 2P RCCB 03 Nr.(30mA) (For 3 Phases) 20A 1P MCB 4 Nrs. (For ACs) 16A 1P MCB 03 Nrs. (For Lighting & Fan Circuits)  20A 1P MCB 07 Nrs.(For Socket Outlets) 20A 4P MCB 02 Nrs. (Spare) 16A 1P MCB 03 Nrs (spare for 3 phases) 10A 1P MCB 03 Nrs (spare for 3 phases)	1	Item		



Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
2S.11	Supply and install an approved type distribution board in fabricated in zinc coated sheet not less than 1.5 mm thickness and all other necessary accessories, surface finish should be powder coated textured finish, R.A.L.7032 and consists following and connect supply from MDB (DB_UF)  63A 4P MCB 01 Nr. Bus bars & Indicators 40A 2P MCB 03Nrs. (For 3 Phases) 40A 2P RCCB 03 Nr.(30mA) (For 3 Phases) 20A 1P MCB 6 Nrs. (For ACs) 16A 1P MCB 03 Nrs.(For Lighting & Fan Circuits)  20A 1P MCB 08Nrs.(For Socket Outlets) 20A 4P MCB 02 Nrs. (Spare) 16A 1P MCB 03 Nrs (spare for 3 phases) 10A 1P MCB 03 Nrs (spare for 3 phases)	1	Item		
2S.12	Chartered Engineer's certificate for the installation. Shall be done in presence of the Engineer  <u>Air conditioning ( Power supply points)</u>	1	Item		
2S.13	Supply &install power supply points for Air conditioner units with switches & complete wiring by using 2 x 2.5mm <sup>2</sup> Cu/PVC/PVC cable + 2.5mm <sup>2</sup> Cu/PVC earth cable with conduits or casing etc. where necessary. Use dedicated MCB for each air conditioner	8	nr		
2S.14	Supply &install 3 phase power supply points for Air conditioner units with switches & complete wiring by using 4x2.5mm <sup>2</sup> Cu/PVC/PVC cable + 2.5mm <sup>2</sup> Cu/PVC earth cable with conduits or casing etc. where necessary. Use dedicated MCB for each air conditioner	2	nr		
	<b>Total carried over to summary</b>				

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<b>BILL NO: T</b>				
	<b>FLOOR/ WALL AND CEILING FINISHES</b>				
	<b>Note :</b>				
	Floor tile samples shall be submitted for the approved of Architect before use				
	1.the brand that may be considered as equivalent are Rocell/Lanka Tile or any other approved equalent.				
	2.Homogenous porcelain floor tilling Water absorption to weight should be <0.5%,Modulus of Rupture (min)>25N/mm <sup>2</sup> .				
	<b>T1 - FLOOR FINISHES</b>				
2T1.1	Supply & lay timber finished 1850x 125 X 12mm sized bamboo flooring . Item shall deemed to include necessary backing in ground floor	29.0	m <sup>2</sup>		
2T1.2	Supply & lay timber finished 1850x 125 X 12mm sized bamboc flooring for skirting in ground floor .	23.0	m		
2T1.3	Suupply and lay 5mm thick Vinyl sheet flooring with necessary adhesive. In Ground floor	63.0	m <sup>2</sup>		
2T1.4	Suupply and lay 5mm thick Vinyl sheet flooring with necessary adhesive. In mezzanine floor	92.0	m <sup>2</sup>		
2T1.5	300mmx600mm approved quality matt homogeneous Tile Rocell/Lanka or equivalent floor tiling bedded in cement and sanc 1:3 and joints finished with coloured grout to match with colore of tiles.(Rate to be included the cost of 1:3 mortar levelling bed) .In Toilet	2.3	m <sup>2</sup>		
	<b>Sundries</b>				
2T1.6	Supply & lay 20 mm thick Polished Granite for Vanity counter top. colour and quality should be approved by the Engineer in ground floor.(600 mm Width)	1.0	m <sup>2</sup>		
2T1.7	Supply & lay 20 mm thick Polished Granite for Vanity counter top. co our and quality should be approved by the Engineer in mezzanine floor.(600 mm Width)	1.2	m <sup>2</sup>		

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<b>T2 - WALL FINISHES</b>  <b>Note ;</b>  <b>Wall tile samples shall be submitted for the approved by Engineer for quality and Architect for design before use</b> <b>1. Water absorption to weight should be 10%-20%, Modulus of Rupture (min) &gt; 25N/mm².</b>  <b>300mm x 600mm approved quality glazed wall tilling on plastered surface of walls joints finished with coloured grout to match with colour of tiles. Wall plaster measured separately.</b>				
2T2.1	In ground floor bath room	12.0	m²		
2T2.2	In ground floor pantry	0.7	m²		
2T2.3	In mezzanine floor pantry	1.2	m²		
	<b>16mm thick external wall and column plastering with cement and sand mortar 1:5 to a smooth finish for the following item. Rate shall include bonding agent ( baralastic or equivalent) and workability enhancer( febmix or equivalent)</b>				
2T2.4	In total reservation area	300.0	m²		
	<b>External Reveals (width n.e 300mm) for the following items following items.</b>				
2T2.5	In ground floor	57.0	m		
2T2.6	In Mezzanine floor	50.0	m		
	<b>16mm thick internal plastering in walls and columns with cement and sand mortar 1:5 finish smooth with skim coat for the following items. Rate shall include workability enhancer( febmix or equivalent)</b>				
2T2.7	In ground floor	86.0	m²		
2T2.8	In Mezzanine floor	80.0	m²		

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<b>Internal Reveals (width n.e 300mm) for the following items</b>				
2T2.9	In ground floor	57.0	m		
2T2.10	In Mezzanine floor	50.0	m		
	<b>12mm thick plastering to internal walls with cement and sand mortar 1:3 to a rough finish (screed backing to receive wall tiles) in toilet for the following items</b>				
2T2.11	In ground floor bath room and pantry	12.7	m <sup>2</sup>		
2T2.12	In mezzanine floor bath room and pantry	1.2	m <sup>2</sup>		
<b>2T3-02</b>	<b>SOFFIT FINISHES</b>				
	Plastering 10 mm thick to soffit of slab and soffit of beams in cement & sand 1:3 & finished smooth with two coats of skim coat Rate shall include workability enhancer( febmix or equivalent).				
2T3-02-01	In First floor soffit	191.00	m <sup>2</sup>		
	Plastering 10 mm thick to moulding in cement & sand 1:3 & finished smooth with two coats of skim coat. Rate shall include workability enhancer( febmix or equivalent).( New moulding shall be match to the existing moulding in first floor slab)				
2T3-03-02	In First floor	170.00	m		
	<b>Total carried over to summary</b>				



Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<b>BILL NO W</b>				
	<b>DRAINAGE SYSTEMS</b>				
	<b>Note:</b>				
	1. The work should be carried out by a contractor licensed by the CMC and in accordance with the regulations of the CMC for soil drainage.				
	2. Backfilling of excavations in trenches and pits for drains and manholes must be compacted and excess to be disposed as directed at expenses of the contractor. Rate to be included for dewatering, pumping, shoring and cleaning the site on completion.				
	3. The gauge of pipes to be 600 UPVC.				
	4. Rates shall be inclusive of bends, valves, reduces joints, end caps etc. necessary for the installation of service.				
02-W-01	40mm dia UPVC waste water pipes fixed complete with necessary fitting where necessary in toilet areas. [ (approx.)	20.0	m		
02-W-02	63mm dia UPVC waste water pipes fixed complete with necessary fitting where necessary in toilet areas. [ (approx.)	10.0	m		
02-W-03	110mm dia. UPVC sewer pipes (type 600) Including cement concrete hunching Grade 15( aggregate 25mm) including bends and fixing to manholes. Rate to include excavation, backfilling and removing excess earth from site. (approx.)	10.0	m		
02-W-04	Allow for connection of proposed lines to existing waste and sewer manholes.	Allow	Item	Sum	
	<b>Total carried over to summary</b>				

**ORIGINAL**

**BILL OF QUANTITIES FOR PROPOSED RENOVATION AND INTERIOR DESIGN FOR LEAGAL  
DEPARTMENT , COLOMBO MUNICIPAL COUNCIL, COLOMBO 07.**

**SUMMARY**

BILL NO	DESCRIPTION	AMOUNT RS.
BILL NO. 01	PRELIMINARIES	
BILL NO. C	DEMOLISHER/REPAIR WORK	
BILL NO. G	MASONRY WORKS	
BILL NO. H	WATER PROOFING	
BILL NO. K	METAL WORK	
BILL NO. L	WOOD WORK	
BILL NO. M	CLADDING	
BILL NO. N	PARTITION	
BILL NO. Q	PLUMBING AND SANITARY INSTALLATIONS	
BILL NO. S	ELECTRICAL INSTALLATION	
BILL NO. T	FLOOR / WALL AND CEILING FINISHES	
BILL NO. V	PAINTING	
BILL NO. W	DRAINAGE SYSTEMS	
	SUB TOTAL	
	ADD 10% CONTINGENCIES	
	TENDER PRICE (BID PRICE)	
	ADD 08% VAT	
	FINAL COST (WITH TAXES)	

**TENDRES SIGNATURE**

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**DATE**

**ORIGINAL**

**Section -8**  
**DRAWINGS**