

DUPLICATE

BILL OF QUANTITIES FOR RENOVATIONS TO ENTRANCE GATE OF BUDDHIST & HINDU SECTION AT BORELLA CEMETRY.

BILL NO 02

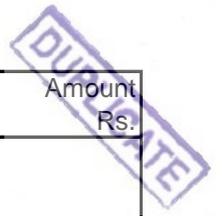
Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<p>Note: Prior to do pricing the Contractor is advised to do a detail inspection of the site related to all items mentioned under this Bill.</p> <p>BILL NO. C</p> <p>DEMOLITION</p> <p>Note:</p> <p>1. Rates for Demolition shall include demolishing, dismantling 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>2. Precautions should be taken during piling up of debris so as not to disrupt existing drainage pathways, pavements walkways etc</p> <p>3. Rate shall include for Disconnection or plugging water , sewer connection</p>				
02.C.01	Demolishing existing half wall and level the surface up to existing floor level. new door openings for toilets with necessary precautions.	26.00	m ²		
02.C.02	Chipping cement rendering and clearing debris away.	115.00	m ²		

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
02.C.03	Removing existing door and frame in existing toilet.	02	Nr		
02.C.04	Removing existing fanlight and frame in existing toilet..	02	Nr		
02.C.05	Removing 'bo" tree plant with all roots grown and cleaning fungus grown on slab, beam and walls		Item		
02.C.06	Removing 'bo" tree plant with all roots grown and cleaning fungus grown on slab, beam and walls		Item		
02.C.07	Removing existing water closet with plugging sewer connection and repairing the wall & floor.	01	Nr		
02.C.09	Removing existing wash basin including all fittings and making walls good.	01	Nr		
02.C.07	<p>Removing existing PVC rain water outlet pipes.</p> <p>Total carried over to summary</p> <p>BILL NO. D EXCAVATION AND EARTH WORK</p> <p>1. Unless otherwise measured separately rates shall include for :</p> <ul style="list-style-type: none"> • Part return fill in, well rammed and consolidated • Disposal of surplus earth away from the site • Compact bottom of excavations • Earth work supports • Working space • Dewatering of ground and other water • Dewatering of rain water and collecting water • Stacking of excavated earth for removal • Handling and re-handling of earth <p>2. Rate for Hard Earth Filling shall include for:</p> <ul style="list-style-type: none"> • Filling in layers, (not more than 1'0") well ramming and consolidating. 	20	Nr		

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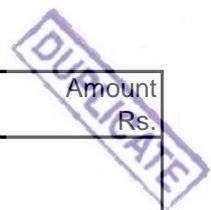
Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
02.D.01	<p>· The earth shall be free of vegetation, roots, boulders easily decomposable materials, chemicals, industrial waste, plastic etc.</p> <p>·The maximum size of particle shall not exceed 75mm.</p> <p>·The earth shall be well graded and contain silt and clay (fines) not more than 30%.</p> <p>3. The measurement for earthwork shall be the net volume of earth after compaction.</p> <p>Approved hard earth supplying spreading and compaction including watering in 150mm thick layers using machine Rammer rate shall include for floor preparation. Rate include hire charges of the machine rammer.</p>	2.00	m ³		
02.D.02	Excavating footings for steps in rest room, toilet and main hall depth n.e. 1.0m	12.00	m ³		
	<p>Total carried over to summary</p> <p>BILL NO.F CONCRETE WORK F1 - INSITU CONCRETE</p> <p>Note: Rates shall be included for</p> <ol style="list-style-type: none">1. Mixing, handling, hoisting and depositing into position.2. Packing around reinforcement and vibrating.3. Curing and clearing as specified. <p>In situ concrete grade 15 (maximum aggregate size 25mm), approved thickness in blinding layer, poured in to ground for the following item</p>				



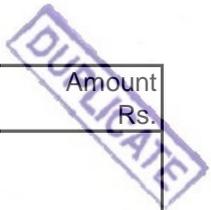
Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
02.F1.01	concrete sloping screed thickness varying from 50mm to 25 mm on existing slab.As per the detail for water proofing specifications.	11.80	m ³		
02.F1.02	50mm thick protective concrete screed with G.I wire mesh on existing slab. As per the detail for water proofing specifications.	12.00	m ³		
02.F1.03	50mm thick concrete screed for steps. Cement concrete grade 20 for the following items.	20.00	m ²		
02.F1.04	Lintols(150mmX150mm) in ground floor level	0.30	m ³		
02.F1.05	In steps (toilet entrance)	0.30	m ³		
	RCC concrete grade 25 (maximum aggregate size 25mm) and column, sectional area not exceeding 0.1m² for the following items				
02.F1.06	In floor concrete	0.10	m ³		
	Total carried over to summary				
	BILL NO G MASONRY WORKS				
	Note:				
	a. Brick should be of superior quality subject to take prior approval by the Engineer.				
	b.Mortar used for brick work shall be 1:5 cement and sand mixture unless otherwise specified.				
	G1 - BRICK WORK				
02.G1.01	225mm thick brick work in cement and sand mortar 1:5	4.50	m ²		
02.G1.02	brick fill work in cement and sand mortar 1:5 for foaming steps for main hall	3.50	m ³		

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
02.G2.01	<p>G2 - RUBBLE WORK Random rubble masonry in cement & sand mortar 1:5 in foundations</p> <p>Random rubble masonry in cement & sand mortar 1:5 for steps .</p> <p>Total carried over to summary</p> <p>BILL NO H WATER PROOFING</p> <p>Note: The water proofing contractor (or sub contractor) should be a registered specialist contractor at the ICTAD in the category of water proofing.</p> <p>The contractor shall submit a written warranty of at least 10 year to cover on the quality of the material, suitability of the material for the situation and the workmanship including water tightness.</p> <p>The water proofing material shall confirm to relevant British, Euro or ASTM specifications.</p>	10.50	m ³		
02.H.01	Repairing with refilling of spalled out or cracked concrete slab beam area including Chipping at about 10 mm beyond the inner surface of the reinforcement to form a regular shape so as to expose the sound concrete & all corroded reinforcements ,Cleaning the reinforcement using two coats of Rust Remover, Applying Protection coat for the reinforcement, Applying as epoxy bonding agent used to bond the fresh concrete to hardened concrete , Reconcreting with repair mortar (MasterEmaco S 5400 or approved equivalent), Applying one coat of concrete curing agent, Applying two coats of high performance anti carbonation coating.	10.00	m ²		



Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
02.H.02	<p>On roof slab surface preparation to slope, supplying, laying of Topseal 3 mm thick, Torch-on membrane on sloping screed and 1 : 3 cement,sand protective screed laid to slope. Rate shall include formation of edges, torch welding and fixing metal strip on vertical walls at termination edges as attached specification. (sloping screed and protective screed paid seperately)</p> <p>Total carried over to summary</p> <p>BILL NO K METAL WORK</p> <p>Note:</p> <p>The work shall include supplying, fabricating and installation of partition & doors etc. made of powder coated aluminium 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, aluminium hinges, bar hinges and push plates etc. (Extrusions to be of 1.8mm for minimum thickness for doors & 1.5mm for window frame). 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 & BS 3987.</p>	18.00	m ²		
02.K.01	<p>Supply and fix aluminium framed single sash powder coated aluminium panel door. as per detail. In ground floor level</p> <p>(D2 - 850mm x 2100mm)</p>	02	Nr.		
02.K.02	<p>Supply and fix aluminium framed fanlight with aluminium louvers. as per detail plan. In ground floor level.</p> <p>(F - 600mm x 1050mm)</p>	02	Nr.		
	Total carried over to summary				



Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
02.P.01	BILL NO. P ROOF AND ROOF PLUMBING Supply and fix proprietary coated zincaluminum gutter (minimum base metal thickness of sheet 0.4mm and minimum total thickness 0.47mm) complete with end caps, running joints etc. All joints to be properly connected with an adequate side laps not less than 225mm length and with sealant to ensure water tightness along the entire length of the gutter and including angle iron gutter brackets 25x25x3mm at 450mm centers with an adequate slope as directed and including application of two coats of each anticorrosive paint and enamel paint to all steel surfaces to match the gutter fix in position.(Inner size of 150mm x 175mm)	31.00	m		
02.P.02	Supply and fix proprietary coated zincaluminum (150mmx150mm)square down pipe (minimum base metal thickness of sheet 0.40mm and minimum total thickness 0.47mm) complete with necessary socket , elbow & bend. All joints to be properly connected and with sealant to ensure water tightness along the entire length. Down pipe brackets @ 1.0m c/c	25.00	m		
	Total carried over to summary				
	BILL NO: Q PLUMBING AND SANITARY INSTALLATIONS Note: Any other make/brand that has equivalent performance characteristics are considered as equivalent provided such fittings met with following criteria (a) Has an authorized local agent in Sri Lanka (b) The local agent has been in the trade of the offered make for not less than 5 years (c) The offered sanitary fittings has a 10 Year manufacturer's warranty issued by the agent.				

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<p>(d) 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/American standered" or any other approved make which prior approval to be obtained</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 & 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 & Drainage Board.</p> <p>(j) All water conduits shall be of standard quality PVC tubes of approved quality and approved by the National Water Supply & Drainage Board gauge to be 1000 UPVC quality.</p> <p>K. All control valves shall be genuine Pegler or equivalent and make to the approval of the Engineer.</p> <p>L. Rate for Sanitary Plumbing shall include:</p> <p>Screws, nails, pipe hooks, saddles, brackets, sockets, connections, short lengths, back nuts, nipples, all laps, straight cutting and waste.</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 & making good surface complete.</p>				

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
02.Q.01	Supply & fix 20 mm PVC pipes with necessary fitting.	10.00	Lm		
02.Q.02	Supply & fix 25 mm PVC pipes with necessary fitting.	5.00	Lm		
02.Q.03	Supplying and fixing 25mm stop valve "Pegler" Brand or approved equivalent.	02	Nr		
02.Q.04	Supplying and fix 20mm dia. chromium plated Angle valve "Pegler" Brand or approved equivalent..	03	Nr.		
02.Q.05	Supply and fix close couple dual flush ceramic water closet (Aquat) of "Rocell" new sibla "P" or approved equivalent. Rate to include Bracket , Soft closing seat cover and flexible connection.	01	Nr.		
02.Q.06	Supply and fix 12mm Chromium plated Bib tap of "American standered /Rocell" brand or approved equivalent.	01	Nr.		
02.Q.07	Supply and fix Chromium plated hand Bidet Spray of "American standered /Rocell" brand or approved equivalent complete to working order.	01	Nr.		
02.Q.08	Supply and fix stainless steel gully grating.	01	Nr.		
02.Q.09	Supply and fix stainless steel soap tray.	01	Nr.		
02.Q.10	Supply and fix porcelain vanity wash basin and pedestal with overflow hole and single tap hole in center of approved equivalent complete to working order inclusive of the necessary pillar tap & 1 1/4" chromium plated waste outlet and 1 1/4" chromium plated siphon cleanable bottale trap of approved equivalent including approved quality pillar tap and flexible connection.	01	Nr.		
Total carried over to summary					

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<p>BILL NO.S ELECTRICITY</p> <p>Note: (a) For the Full description of materials and workmanship refer "Specifications", "Preambles" and "Drawings".</p> <p>(b).Supply, wire, install and commissioning of the following items as per the latest Edition of the IEE Wiring Regulations.</p> <p>(c). All Materials and accessories shall be of high quality type subject to the approval of the Engineer.</p> <p>GENERAL</p>		<p>Note</p> <p>Note</p> <p>Note</p>		
	<p>The Bidders are requested to refer the General notes, Drawings and study the taxes, safety procedures, site conditions before the pricing. The Bidder shall provide all dimensions, and technical information, of all builders work to the Engineer/Consultant in accordance with the programme of work.</p> <p>PREAMBLES NOTES</p> <p>Not withstanding Preamble notes of the standard method of Measurement of Building Works, the Bidder shall refer to the specification and Drawings for full particulars and descriptions of workmanship and shall include prices for the full intent and meaning thereof in.</p> <p>Prices are deemed to include for the following, unless specifically excluded or provided separately;</p> <p>Prices for the panels boards deemed to include for finished enclosures, bus bars , panels locks , legend plates , danger boards , DB's , ACB's , MCB's and the required fixing materials like coach screws , bolts ,nuts and foundations etc.</p>		<p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p>		

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<p>Prices of Distribution boards deemed to include for finished enclosures, MCB's, ELCB's, Neutral links dummy plates if any and the required chipping, fixing of DB in walls etc.</p>		Note		
	<p>Prices for Under Ground Cable deemed to include for excavation, protection of cable with tiles, warning tapes, refilling with excavated earth, consolidation / compaction etc.</p>		Note		
	<p>Prices for Cable termination deemed to include for double compression glands, accessories for crimping / soldering, earth tags and earth connection lugs etc.</p>		Note		
	<p>Prices deemed to include for screws, nails, bolts, nuts, nipples, standard cable fixing or supporting clips, saddles brackets, straps, rivets, plugs and similar items and all incidental accessories.</p>		Note		
	<p>Prices for Earth pits deemed to include for excavation, backfilling, compaction, cable covers, warning tapes, GI/Cu pipes, charcoal, salt and other required materials etc.</p>		Note		
	<p>Prices deemed to include for interconnecting and connections between components and control gear within the board.</p>		Note		
	<p>Prices deemed to include for cutting and jointing cable for carriers at fittings together with cutting or forming openings in cable carriers for conduits, entries from equipment and control gear and similar items; cradles, pin racks for support.</p>		Note		
	<p>Prices for conduits deemed to include for standard junction boxes and fittings and fixing conduits to or through all building surfaces.</p>		Note		

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<p>Prices deemed to include for all cable supports and fixings; providing draw wires, draw cables and similar items for drawing or hoisting cables.</p> <p>Prices deemed to include for all items listed for conduits, cables and conduit sleeves; all cable joints and skinning ends and connecting cables to switches, outlets, accessories, light fittings and similar items.</p> <p>Prices are also deemed to include the following unless specifically excluded or provided separately;</p> <p>Any additional costs in complying with the programme such as staging and/or phasing, access limitations working in or adjacent occupied areas and maintenance of existing services as set out in the Bid Documents;</p> <p>Co-ordination of works between contractor and subcontractors and/or Principal</p>		Note Note Note Note		
	<p>Strict control to minimize the effects of noise, vibration, dust, mud, smoke, fumes, interruption or hindrance of access and other nuisance which could adversely affect the occupants of adjacent buildings;</p> <p>Rectification and making good to services disturbed during construction; and chased walls plaster</p> <p>All chasings in walls, beams, column, slabs wherever required</p> <p>Complying with the relevant Acts, By-laws and regulations.</p> <p>Testing all installations as required and specified.</p> <p>Submit notices, obtaining permits and completion certificates, paying fees and charges in connection with the relevant installations.</p>		Note Note Note Note Note		

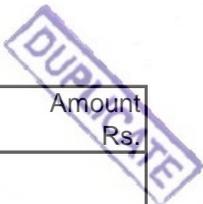
Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	Obtaining and submitting all guarantees and warranties as specified.		Note		
	Quality Assurance and control as specified.		Note		
	Providing plans, diagrams, manuals and similar items as required for the relevant installations.		Note		
	Coordinating penetrations in connection with the installations.		Note		
	Maintaining operation of the existing buildings during the Contract.		Note		
	Submission of As Built Drawings		Note		
	Penetrations and chases required through new existing walls, ceilings and floors for electrical services cable and fittings including additional support framing members where required.		Note		
	Providing holes and trimmings, suspension and trimming support for the installation of luminaries.		Note		
	Provision of rigid framework in stud walls for the fixing of cable support channels, distribution boards, control panels and similar equipment.		Note		
	Provision of structural support for the fixing of luminaries and examination luminaries.		Note		
	All back box to be deep type		Note		
	All socket outlets to be switched and shuttered type		Note		
	All socket outlets to be SLS approved 13A socket outlets to BS 1363 unless otherwise specified		Note		
	All underground cables to be armoured type.		Note		

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<p>All outdoor underground cables used for lamp point wiring shall be 3 core unless otherwise specified.</p> <p>All underground cables to be run in type uPVC pipes in standard trenches filled with sand, warning tapes and covering tiles.</p> <p>All tread bars and supportive accessories should be HDG.</p> <p>Light fittings should be Energy efficient light and include 2year warranty period.The poles should have minimum10 year warranty period. Samples should be approved by the Architect.</p> <p>Specification for Manufacturing and supplying of lighting fixtures</p> <p>Number of years in business must be 10 years or more</p> <p>Registration of the business must be relevant to industry</p> <p>Should submitted company profile with current reputed project</p>		<p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p>		
	<p>Product must be manufactured in a modular design enabling maintenance and must use E14 and E27 bulbs</p> <p>Switches, holders, wires and power sockets must be SLS certified/approved</p> <p>All brass items must be through and through brass and not plated brass</p> <p>All brass sheet items must be 18 gauge or 20 gauge</p> <p>Design must be according to CAD drawings submitted by Architect/Engineer</p>		<p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p>		

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<p>Finishes must be according to approved sample</p> <p>Samples to be provided by supplier cost and number of samples up to 3 to be supplied before approval</p> <p>Delivery, testing and setting up at site at supplier cost</p> <p>All items provided, supplied or given by a single supplier</p>		<p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p>		
02.S.01	<p>SUPPLY OF LAMP FITTINGS</p> <p>Supply & install approved type 170mm diameter x 35mm, 18W COB LED 1400lumen(Approx) surface mounted circular recessed light fitting (cool white) as shown in the layout & complete wiring by using items as round blocks, ceiling roses 2 x 1.5 mm² Cu/PVC/PVC cable, flexible cable, sunk switches, sunk nut boxes and conduits or plastic casings etc. where necessary. 2 year warranty is required .orange or similar shall be used.</p>	24	nr		
02.S.02	<p>Supply & install approved type pendent light fittings with 20W CFL bulbs as shown in the layout & complete wiring with round blocks, ceiling roses,1.5mm² Cu/PVC/PVC cable, flexible cable, sunk switches, sunk nut boxes and conduits or plastic casings etc. where necessary. 2 year warranty is required .Phillips,OSRAM or similar shall be used.</p>	3	Nrs.		
02.S.03	<p>Fans</p> <p>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 + 2.5mm² Cu/PVC earth cable as per the specification.</p> <p>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.</p> <p>KDK- MRG model or equivalent with warranty</p>	1	nr		

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	Socket outlets				
02.S.0`4	<p>Supply all materials and provide final sub circuit point wiring for the following outlets with PVC conduit, 10A switch and connectors Including other materials required to make complete installation as specified and as shown in the electrical drawings.</p> <p>Supply & install approved type 13A with switches as shown in electrical layouts & complete wiring by using 2.5mm² Cu/PVC/PVC cable + 2.5mm² Cu/PVC earth cable in PVC conduits with all fixing accessories</p> <p>Distributiob Boards</p> <p>Supply and installation of electrical panel board three (3) phase, neutral and earth complete with powder coated steel sheet enclosure, hinged and lockable door as per specification and drawings</p> <p>Electrical Panel shall include MCCB, Isolator, MCBs, RCDs, Surge protectors, bus bars, terminals and all required accessories.</p> <p>The doors of the MSB shall be lockable</p> <p>Surface Finish : Polyester Powder Coated Colour : Grey RAL 7032/35</p>	4	nr		
02.S.05	<p>Supply and install an approved recessed type Main Distribution Board (MDB) fabricated in zinc coated sheet not less than 1.5 mm thickness with indicator lights 03 nos. for three phases, bus bars, surge arrestors and all other necessary accesories, surface finish should be powder coated texured finish R.A.L.7032 and consists following items of approved type</p> <p>40A 4P MCCB (10kA) 01 No.</p> <p>40A 4P MCCB 01 No. (for new crematorium)</p> <p>40A 4P MCCB 01No (Breakers for Outdoor Feeder Pillar)</p> <p>40A 2P MCB 03 Nos.</p> <p>40A 2P RCCB(30mA) 03 Nos.</p>	01	Nr.		



Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
02.S.06	<p>10A 2P MCB 02Nos.(for 12 nos. of panel lights)</p> <p>10A 2P MCB 01Nos.(for toilet lamps)</p> <p>20A 2P MCB 01 No. (for socket outlets)</p> <p>40A 4P MCB 01 No. (Spare)</p> <p>40A 2P MCB 01 No. (Spare)</p> <p>20A 2P MCB 01 No. (Spare)</p> <p>10A 2P MCB 01Nos.(SPARE)</p> <p>Supply and install an approved recessed type Distribution Board (DB) for the other side of the entrance building, 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 of following of approved types.</p> <p>32A 2P MCB 01 Nr.</p> <p>40A (30mA) 2P RCD 01 Nrs.,</p> <p>10A 2P MCB 02Nos.(for 12 nos. of panel lights)</p> <p>20A 2P MCB 01Nos.(for rest room fan, socket outlets and lamps)</p> <p>20A 2P MCB 01 No. (for socket outlets)</p> <p>40A 2P MCB 01 No. (Spare)</p> <p>20A 2P MCB 01 No. (Spare)</p> <p>10A 2P MCB 01Nos.(SPARE)</p> <p>Supply & Installation</p> <p>Rate to include for supply and installation of cable terminations at both ends and necessary glands. All underground cables to be run in type uPVC pipes in standard trenches filled with sand, warning tapes and covering tiles.</p>	01	Nr.		
02.S.07	10 mm ² Earth Cable	8	m		
02.S.08	Supply 2x6 mm ² Cu/SWA/PVC + 1XC 6 mm ² earth cable(From MDB to DB)	33	m		

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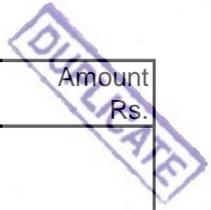
Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
02.S.09	Earth excavation for cable trenches, (width 300mm and height 600mm). Quarry dust layer of 50mm shall be laid at the bottom, then cable shall be laid and again covered with quarry dust layer of 50mm height. Cable shall be fully covered with grade 25 concrete, cable tiles of size 450mmx 200mmx50mm .Then the trench shall be backfilled with excavated soil. A red coloured warning tape with wordings "Electrical cable buried here" shall be laid near to the surface (app. 3" below ground level) and then finish back filling and reinstate surface.	180	Lm		
02.S.10	Supply and install earthing system with 50mm dia. GI pipe of length 1800mm earth electrodes near the feeder pillar. Each electrode underground should be covered by a gully of 1'x1' and shall be available for visual inspection. Number of rods required to obtain the necessary resistance shall be determined by the contractor. All metal parts of the building shall also be earthed. Testing of earth resistance after installation shall be done by the contractor in the presence of the project Electrical Engineer/Technical officer. All costs for testing shall be borne by the contractor.	1	Nrs		
02.S.11	Preparation of Shop Drawings, as-built drawings, Handover document in triplicates. This includes the total project scope.		Item		
02.S.12	Labelling of Lamp fittings Lamp circuits, power circuits and Returns numbering according to the final as-built drawings. This includes the total project scope.		Item		
02.S.13	Obtain a Chartered Electrical Engineer's Certificate for the final testing and commissioning report as per the BS7671 requirement. This includes the total project scope.		Item		
Total carried over to summary					

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
BILL NO: T FLOOR/ WALL AND CEILING FINISHES					
T1 - FLOOR FINISHES					
Note :					
Floor tile samples shall be submitted for the approved of Architect before use 2.the brandesthat may be considered as equivalent are Rocell/Lanka Tile or any other approved make.					
3.Homogenous porcelain floor tilling Water absorption to weight should be <0 5% Modulus of Runture (min)>25N/mm²					
02.T.1	Rendering 1/2" thick in cement and sand 1:3 on cooncreted floor steps including tread, rise & nosing finished semi rough with cement slurry and colour pigment. 300mm x 600mm approved quality non slip homogeneous Rocell/Lanka Tile or equvelant floor tiling bedded in cement and sand 1:3 and joints finished with coloured grout to match with colour of tiles.(Rate to be included the cost of 1:3 mortar levelling bed) for following items.	6	m ²		
02.T.2	In Hall area	115.00	m ²		
02.T.3	Granite floor slabs of 300mm x 300mm size 1" thick rough finish, laid on 1/2" thick cement sand 1:3 screed level off using cement slurry and 3mm joints to be absolutely in line and flush and grout. Size & colour should be decided by the Architect.	29.00	m ²		
02.T.4	Supply and fixing 100mm height flexible plastic skirting pasted on the wall with necesseary adhesive. Samples to be approved by the architect.	35.00	m		
T2 - WALL FINISHES					
02.T.5	Plastering 16mm thick to wall in cement and sand 1:5 finished smooth with two coats of skim coat. Rate includes cost of "Febmix"as a workability enhancer. (in walls for toilet & rest room)	9.00	m ²		



Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
02.T.6	Repair damaged portion of plaster with Plastering 5/8" thick in cement and sand 1:5 finished semi-rough. Rate includes cost of "Febmix" as a workability enhancer. Rate shall include for preparation the surfaces.	20.00	m ²		
02.T.7	Plastering 5/8" thick to column (unplastered portion due to demolition of half wall) in cement and sand 1:5 finished semi-rough. Rate includes cost of "Febmix" as a workability enhancer.	2.50	m ²		
Total carried over to summary					
BILL NO V					
PAINTING					
Painting external walls with two coats of approved quality and colour weathershield paint and one coat of Exterior wall primer including preparing surface for exterior application for the following items.					
02.V.1	In toilet & rest room outer walls	130.00	m ²		
02.V.2	In front wall	126.00	m ²		
02.V.3	In isolated columns	8.00	m ²		
02.V.4	In Columns and walls of Main entrance.	265.00	m ²		
02.V.5	Painting walls with two coats of weathershield paint including preparing surface. In roof	126.00	m ²		
Painting internal walls with two coats of approved quality and colour emulsion paint and one coat of interior wall primer including preparing surface for before application of emulsion paint. for the following items.					
02.V.6	In toilet & rest room inner walls	66.00	m ²		
02.V.7	In front inner wall	101.00	m ²		
02.V.8	Painting soffit with two coats of emulsion paint including preparing surface.	134.00	m ²		



Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
02.V.9	Allow for Painting steel gate with two coats of enamel paint and one coat anti-corrosive primer with turpentine or thinner including removing corroded scale and wire brushing.		Item		
Total carried over to summary					
BILL NO W DRAINAGE SYSTEMS					
02.W.1	Supply & fix/lay 63 mm dia. PVC Type 600 waste pipes.	5.00	m		
02.W.2	Supply & fix / lay 110mm dia PVC sewer pipes.	5.00	m		
02.W.3	Allow for connecting to existing gullies and manholes to work in order.		Item		
Total carried over to summary					