

DUPLICATE

**BILL OF QUANTITIES FOR PROPOSED OPEN PYRE & SHAVING HUT AT BORELLA CEMETRY
COLOMBO-08**

BILL NO 05

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<p>Note: Prior to do pricing the Contractor is adviced to do a detail inspection of the site (existing building at hindu section is with similar decorative features of this proposal) related to all items mentioned under this Bill</p> <p>BILL NO. D EXCAVATION AND EARTH WORK</p> <p>Note: 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. • The earth shall be free of vegetation, roots, boulders easily decomposable materials, chemicals, industrial waste, plastic etc. <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>				

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	3. The measurement for earthwork shall be the net volume of earth after compaction.				
	Site preparation including clearing site vegetation, removing bushes, shrubs & top soil to a depth not exceeding 150mm and removing all debris away from site. For open pyres and hair remove hut.				
05.D.01	For Open pyre	150.00	m ²		
05.D.02	For Hair remove hut	20.00	m ²		
	Excavating pits for column footings depth n.e. 1.0m for following items.				
05.D.03	For Open pyre	10.80	m ³		
05.D.04	For Hair remove hut	2.50	m ³		
	Excavating trenches depth n.e 1.0m for following items.				
05.D.05	For Open pyre	35.00	m ³		
05.D.06	For Hair remove hut	6.00	m ³		
	Approved hard earth (available at site) spreading and compaction including watering in 150mm thick layers using machine Rammer in under floor. Rate include hire charges of the machine rammer.				
05.D.07	For Open pyre	30.00	m ³		
05.D.08	For Hair remove hut	6.00	m ³		
	Approved hard earth supplying spreading and compaction including watering in 150mm thick layers using machine Rammer rate shall include for floor preparation and foaming surrounding steps by cutting compacted soil fill . Rate include hire charges of the machine rammer.				
05.D.09	For Open pyre	40.00	m ³		

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	Approved hard earth supplying spreading and compaction including watering in 150mm thick layers using machine Rammer rate shall include for floor preparation and foaming surrounding steps by cutting compacted soil fill . Rate include hire charges of the machine rammer.				
05.D.10	For Hair remove hut	9.00	m ³		
05.D.11	Supply and filling sea sand filling in 225mm thick layers.in open pyer pits. In Open pyre.	7.00	m ³		
	Total carried over to summary				
	BILL NO.F				
	CONCRETE WORK				
	F1 - INSITU CONCRETE				
	Note:				
	Rates shall be included for				
	1. Mixing, handling, hoisting and depositing into position.				
	2. Packing around reinforcement and vibrating.				
	3. Curing and clearing as specified.				
	50mm thick Grade 15 concrete in following items				
05-F1.01	Under column footings. For open pyre.	9.75	m ²		
05-F1.02	Under column footings. For Hair remove hut	2.25	m ²		
05-F1.03	Under foundations. For open pyre	35.50	m ²		
05-F1.04	Under foundations. For Hair remove hut	5.10	m ²		
05-F1.05	In Concrete floor for Hair remove hut as per the drawings	0.75	m ³		
	RCC concrete grade 25 (maximum aggregate size 25mm) and column, for the following items				

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
05-F1.06	In Column footings. For open pyers	2.20	m ³		
05-F1.07	In Column footings. For Hair remove hut	0.50	m ³		
05-F1.08	In Decorative column approximate size 450mm.For open pyre.	4.60	m ³		
05-F1.09	In Decorative column approximate size 450mm.For Hair remove hut.	0.70	m ³		
05-F1.10	In Decorative column up to roof level approximate300mm size.For Hair remove hut	1.10	m ³		
05-F1.11	In Decorative column up to roof level approximate300mm size.For open pyre.	3.80	m ³		
05-F1.12	Column above roof level. For hair remove hut.	0.20	m ³		
05-F1.13	In roof beams. For hair remove hut.	1.40	m ³		
05-F1.14	In Beams above roof level.For hair remove hut.	1.00	m ³		
05-F1.15	Decorative beam 225X225mm size. For hair remove hut.	0.50	m ³		
05-F1.16	Decorative beam 225X225mm size.For open pyre.	1.50	m ³		
05-F1.17	In Curve concrete roof. For hair remove hut.	4.50	m ³		
05-F1.18	insitu Concrete Curb 450mmX250mm size ledge, with 4" dia & 300mm depth holes on approximately 1200mm and 1338mm center to center distance As per the detail drawing. For open pyre.	4.90	m ³		
05-F1.19	In Concrete steps for open pyre. as per the drawings	3.00	m ³		
05-F1.20	In Concrete steps for Hair remove hut as per the drawings	1.50	m ³		
	F2 - FORM WORK				
	Note: Quality of the form work should be approved by the engineer prior to erection.				
	A. Rates shall include for				

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<p>• All necessary boarding, supports, applications of mould oil as necessary, erecting, framing, cutting angles, cleaning, wetting and treatment before placing concrete and striking or removal etc.</p> <p>• Formwork to be measured net contact surface between concrete & formwork.</p> <p>• Formwork to beams, columns, and casings deemed to include ends.</p> <p>B. The contractor shall provide sufficient formwork and moulds to ensure the adequate progress of the work and the Engineer may direct the contractor to provide at Contractor's expense such additional formwork and moulds as they may deem necessary if in his opinion the proper progress of the work is retarded by their absence.</p> <p>C. Rate to be included erecting and dismantling of scaffolding and formwork.</p> <p>D. Formwork for footing, column, beams, lintel, walls, and slabs are of 15mm thick ply-boards and for curved roof shell formwork to be steel or approved equivalent to get curved roof shell.</p> <p>Formwork shall be properly designed formwork as described in specification and it should be sufficiently strong, rigid and should have an even smooth surface and grout tight and should provide a basic finish.</p>				
05-F2.01	In Column footings. For open pyres.	10.00	m ²		
05-F2.02	In Column footings. For Hair remove hut	3.00	m ²		
05-F2.03	In Decorative column approximate size 450mm.For open pyres	41.00	m ²		
05-F2.04	In Decorative column approximate size 375mm.For Hair remove hut.	3.50	m ²		
05-F2.05	In Decorative column up to roof level approximate 300mm size.For Hair remove hut	3.00	m ²		

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
05-F2.06	In Decorative column up to roof level approximate 300mm size. For open pyers	30.00	m ²		
05-F2.07	Column above roof level. For hair remove hut.	8.00	m ²		
05-F2.08	In roof beams. For hair remove hut.	6.00	m ²		
05-F2.09	In Beams above roof level. For hair remove hut.	4.50	m ²		
05-F2.10	Decorative beam 225X225mm size. For hair remove hut.	14.00	m ²		
05-F2.11	Decorative beam 225X225mm size. For open pyers	40.00	m ²		
05-F2.12	In Curve concrete roof (flat area). For hair remove hut.	25.00	m ²		
05-F2.13	In Curve concrete roof (curved area with specially cast formwork from approved material). For hair remove hut.	16.00	m ²		
05-F2.14	Concrete Curb 450mmX250mm ledge As per the drawing. For open pyer.	33.00	m ²		
05-F2.15	In Concrete steps for open pyer as per the drawings	12.00	m ²		
05-F2.16	In Concrete steps for Hair remove hut as per the drawings	11.00	m ²		
F3 - REINFORCEMENT IN INSITU CONCRETE Note: Rates shall be included for 1. Cleaning, cutting, bending, fabricating with gauge 18 binding wire and placing in position. 2. Holding and supporting including temporary fixing supports, hingers, binding wire spaces & tor steel stools. which is required for the proper completion of the work. 3. Providing all necessary laps. 4. Plain rounded Mild steel of characteristic strength 250 N/mm² to BS4449					

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	5. High Yield steel of characteristic strength 460 N/mm² to BS4449 & 4461				
	Mild steel round bar diameter n.e. 10mm for the following items				
05-F3.01	In Decorative column approximate size 450mm.For open pyers	62.00	kg		
05-F3.02	In Decorative column approximate size 450mm.For Hair remove hut.	20.60	kg		
05-F3.03	In Decorative column up to roof level approximate300mm size.For Hair remove hut	88.00	kg		
05-F3.04	In Decorative column up to roof level approximate300mm size.For open pyers	265.00	kg		
05-F3.05	Column above roof level. For hair remove hut.	6.50	kg		
05-F3.06	In roof beams. For hair remove hut.	43.50	kg		
05-F3.07	In Beams above roof level.For hair remove hut.	33.50	kg		
05-F3.08	Decorative beam 225X225mm size. For hair remove hut.	56.00	kg		
05-F3.09	Decorative beam 225X225mm size.For open pyers	168.00	kg		
	High-yield tor steel bars diameter 10-16mm for the following items.				
05-F3.10	In Column footings. For open pyers	40.00	kg		
05-F3.11	In Column footings. For Hair remove hut	36.00	kg		
05-F3.12	In Decorative column approximate size 450mm.For open pyers	13.00	kg		
05-F3.13	In Decorative column approximate size 450mm.For Hair remove hut.	13.00	kg		
05-F3.14	In Decorative column up to roof level approximate300mm size.For Hair remove hut	75.00	kg		
05-F3.15	In Decorative column up to roof level approximate300mm size.For open pyers	72.00	kg		
05-F3.16	Column above roof level. For hair remove hut.	25.00	kg		
05-F3.17	In roof beams. For hair remove hut.	160.00	kg		

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
05-F3.18	In Beams above roof level.For hair remove hut.	128.00	kg		
05-F3.19	Decorative beam 225X225mm size. For hair remove hut.	64.00	kg		
05-F3.20	Decorative beam 225X225mm size.For open pyers	64.00	kg		
05-F3.21	In Curve concrete roof. For hair remove hut.	685.00	kg		
04-F4.03	Supply and fixing pre-cast or insitu concrete crown design on concrete column top. Approximate height 560mm. As per the drawing	4.00	Nr.		
05-F4-06	Supply and fixing pre- cast concrete bench as per the drawing. For hair remove hut	02	Nr		
	Total carried over to summary				
	BILL NO G				
	MASONRY WORKS				
	G2 - RUBBLE WORK				
	Random rubble masonry in cement & sand mortar 1:5 in foundations .				
05.G2.01	Wall foundation in open pyre.	15.75	m ³		
05.G2.02	Steps foundation open pyre.	3.00	m ³		
05.G2.03	Wall foundation in hair rmove hut.	2.00	m ³		
05.G2.04	Steps foundation hair rmove hut.	2.20	m ³		
	Total carried over to summary				

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	BILL NO.S ELECTRICITY Note: (a) For the Full description of materials and "Specifications", "Preambles" and "Drawings". (b).Supply, wire, install and commissioning of the following items as per the latest Edition of the IEE Wiring Regulations. (c). All Materials and accessories shall be of high quality type subject to the approval of the Engineer. GENERAL		Note Note Note		
	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. PREAMBLES NOTES 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. Prices are deemed to include for the following, unless specifically excluded or provided separately; 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.		Note Note Note Note		

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	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.		Note		
	Prices for Under Ground Cable deemed to include for excavation, protection of cable with tiles, warning tapes, refilling with excavated earth, consolidation / compaction etc.		Note		
	Prices for Cable termination deemed to include for double compression glands, accessories for crimping / soldering, earth tags and earth connection lugs etc.		Note		
	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.		Note		
	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.		Note		
	Prices deemed to include for interviewing and connections between components and control gear within the board.		Note		
	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.		Note		
	Prices for conduits deemed to include for standard junction boxes and fittings and fixing conduits to or through all building surfaces.		Note		
	Prices deemed to include for all cable supports and fixings; providing draw wires, draw cables and similar items for drawing or hoisting cables.		Note		

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	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.		Note		
	Prices are also deemed to include the following unless specifically excluded or provided separately;		Note		
	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;		Note		
	Co-ordination of works between contractor and subcontractors and/or Principal		Note		
	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;		Note		
	Rectification and making good to services disturbed during construction; and chased walls plaster		Note		
	All chasings in walls, beams, column, slabs wherever required		Note		
	Complying with the relevant Acts, By-laws and regulations.		Note		
	Testing all installations as required and specified.		Note		
	Submit notices, obtaining permits and completion certificates, paying fees and charges in connection with the relevant installations.		Note		
	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		

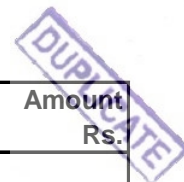
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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	Coordinating penetrations in connection with the installations.		Note		
	Maintaining operation of the existing buildings during the Contract.		Note		
	Submission of As Built Drawings		Note		
	Penetrations 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		
	All outdoor underground cables used for lamp point wiring shall be 3 core unless otherwise specified.		Note		
	All underground cables to be run in type uPVC pipes in standard trenches filled with sand, warning tapes and covering tiles.				
	All tread bars and supportive accessories should be HDG.		Note		

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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<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>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>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> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p> <p>Note</p>		

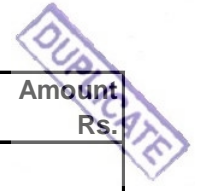
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Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
SUPPLY OF LAMP FITTINGS					
04.S.01	Supply & install approved type outdoor (IP65) surface mounted single spot lamps as shown in the layout & complete wiring by using necessary accessories as flexible cables, sunk switches, sunk nut boxes and conduits using 2 x 1.5mm ² cu/pvc/pvc cables. The wattage of one lamp shall be 35W-40W.	26	nr		
04.S.02	Supply 2x4 mm ² Cu/SWA/PVC 2 core cable + 1XC 4 mm ² earth cable(From MDB to lamps of Hair Remove Hut)	8	m		
04.S.03	Supply & install 4x6 mm ² Cu/SWA/PVC 4 core cable + 1XC 6 mm ² earth cable (From Feeder Pillar to Lamps of 3nos. Of Open Pyers)	110	Lm		
04.S.04	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.	60	Lm		
Total carried over to summary					

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	BILL NO: T FLOOR/ WALL AND CEILING FINISHES T1 - FLOOR FINISHES Titanium Finish Before commence the titanium flooring sub contractor , Manufacturer's method specification and material specifications should be approved by the Engineer. Supplying and laying 3mm thick titanium layer on the 3mm thick rough finish bed including 3mm thick glass expansions,after 24 hours wetting the floor for 4 -5 days, and cutting with 100 sanding grit while watering , then cut with 400 sanding grit & after that smooth the floor with 1000 sanding grit pads & apply two coats of sealer on dried clean floor. sealering should be carried out as per the manufacturer's specification. Finally polish with buffing pads to achieve good shine. Rendering 1/2" thick in cement and sand 1:3 in cement concrete. floors finished smooth with titanium cement. For following items.				
05-T1.01	For Open pyrer	75.00	m ²		
05-T1.02	For Hair remove hut	27.00	m ²		
	Interlock finish				
05-T1.03	Supply & paving 60mm thick square (Approx. size 100mm x 100mm) ash and black coloured precast interlocking paving blocks of 15 N/mm2 compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base as per the drawing and image (Image V) for open pyer. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying. Rate shall include hire charges of 1/2 - 1 ton vibrating roller coloured precast interlocking paving blocks,.	105.00	m ²		

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	T2 - WALL FINISHES				
	16mm thick plastering to internal walls with cement sand mortar 1:5 finish smooth with weatherproof skim coat for following items.				
05-T2.04	Decorative beam 225X225mm size.For open pyers	36.00	m ²		
05-T2.05	Decorative beam 225X225mm size. For hair remove hut.	18.00	m ²		
	10mm thick plastering side & soffit of following items in cement & sand 1:5 finished smooth.				
05-T2.06	In roof beams for Hair remove hut	5.50	m ²		
05-T2.07	In side and soffit of Curve concrete roof for Hair remove hut	25.00	m ²		
	16mm thick external plastering with cement and sand mortar 1:5 to a semi rough finish in top side of roof.				
05-T2.08	In top side Curve concrete roof. For hair remove hut.	25.00	m ²		
05-T2.10	In Beams above roof level.For hair remove hut.	4.20	m ²		



Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
05-T2.11	<p>Plaster mouldings.</p> <p>Rate shall include to complete the decoration work by a skilled person with relevant level of understanding about hindu decorations. prior approval shall take from the project engineer /Architect for the work by showing sample trial decoration work.</p> <p>Column decoration with smooth cement sand plaster and plaster mouldings from finish floor level to top and two horizontal arms with foaming hanging flower buds and flower arrangement, and all decorations as per given detail drawing In open PYRE. Rate includes cost of "Febmix"as a workability enhancer. and . (Approximate heigth of the column 2.875m).</p>	12.00	Nr.		
05-T2.12	<p>Column decoration with smooth cement sand plaster and plaster mouldings from finish floor level to top and two horizontal arms and foaming hanging flower buds and flower arrangement, special crown decoration at column top and all decorations as per given detail drawing In shaving hut. Rate includes cost of "Febmix"as a workability enhancer. and . (Approximate heigth of the column 4.2m). (CROWN structure paid seperately under concreter)</p>	4.00	Nr.		
	<p>Total carried over to summary</p> <p>BILL NO V</p> <p>PAINTING</p> <p>Application of weatherproof plaster coatings of thickness not less than 2mm using "Joint compound powder / Skimcoat ", or approved equivalent.Rate shall include for sand papering and surface preparation in sides & soffit of slab, beams.</p>				
05-V.01	In roof beams for Hair remove hut	5.50	m²		
05-V.02	In side and soffit of Curve concrete roof for Hair remove hut	28.00	m²		

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	Painting all surfaces with two coats of approved quality and colour weathershield paint after preparing surface and after applying one coat of primer for the following items, colours should match with existing building in drawing.				
05-V.03	In Decorative column up to roof level approximate size 375mm .For Hair remove hut	15.00	m ²		
05-V.04	In Decorative column approximate size 450mm.For open pyers	40.50	m ²		
05-V.05	In Decorative column up to roof level approximate 300mm size.For open pyers	28.50	m ²		
05-V.06	Decorative beam 225X225mm size.For open pyers	36.00	m ²		
05-V.07	Decorative beam 225X225mm size. For hair remove hut.	18.00	m ²		
05-V.08	In roof beams for Hair remove hut	5.50	m ²		
05-V.09	In side and soffit of Curve concrete roof for Hair remove hut	28.00	m ²		
05-V.10	Column above roof level. For hair remove hut.	7.50	m ²		
05-V.11	In Beams above roof level.For hair remove hut.	4.20	m ²		
05-V.12	Painting top side of the shell roof structure surfaces with two coats of approved quality colour weathershield paint and after applying relevent waterproofing layer .colours should match with existing building in drawing.	28.00	m ²		
05-V.13	Painting surfaces of crown with two coats of approved quality colour weathershield paint and after applying relevent waterproofing layer .colours should match with existing building in drawing.	4	no		
	Total carried over to summary				

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