

DUPLICATE

BILL NO 04

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 (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:</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. · The earth shall be free of vegetation, roots, boulders easily decomposable materials, chemicals, industrial waste, plastic etc. ·The maximum size of particle shall not exceed 75mm. ·The earth shall be well graded and contain silt and clay (fines) not more than 30%. <p>3. The measurement for earthwork shall be the net volume of earth after compaction.</p>				

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
04.D.01	Site preparation including clearing site vegetation, removing bushes, shrubs & top soil to a depth not exceeding 150mm and removing all debris away from site.	236.00	m ²		
04.D.02	Excavating pits for column footings depth n.e. 1.0m	10.80	m ³		
04.D.03	Excavating trenches depth n.e 1.0m	24.50	m ³		
04.D.04	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.	20.00	m ³		
04.D.05	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.	90.00	m ³		
04.D.06	Approved hard earth supplying spreading and compaction including watering in 150mm thick layers using machine Rammer rate shall include for floor preparation and foaming steps by cutting compacted soil fill . Rate include hire charges of the machine rammer.	10.00	m ³		
04.D.07	Supply and filling sea sand filling height 225mm layer in pyre pits. As per the drawing.	10.00	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					

DUPLICATE

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
04-F1.01	Under column footings.	10.50	m ²		
04-F1.02	Under foundations	28.50	m ²		
	RCC concrete grade 25 (maximum aggregate size 25mm) and column, for the following items				
04-F1.03	In Column footings.	2.80	m ³		
04-F1.04	In decorative column approximate size 450mm.	5.00	m ³		
04-F1.05	In decorative column up to roof level approximate size 300mm.	6.20	m ³		
04-F1.06	In decorative Column above roof level.	0.75	m ³		
04-F1.07	In Intermediate level beams.	9.00	m ³		
04-F1.08	In roof beams.	13.00	m ³		
04-F1.09	In Beams above roof level.	9.00	m ³		
04-F1.10	Decorative beam 225X225mm size.	2.50	m ³		
04-F1.11	In Curve concrete roof.	35.00	m ³		
04-F1.12	Concrete Curb 450mmX250mm ledge, with 4" dia & 300mm depth holes on 1125mm center to center distance. As per the drawing.	5.00	m ³		
04-F1.13	In Concrete steps as per the drawings.	2.00	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				
	· 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.				
	· Formwork to be measured net contact surface between concrete & formwork.				
	· Formwork to beams, columns, and casings deemed to include ends.				

DUPLICATE

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	<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.</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>				
04-F2.01	In Column footings.	10.50	m ²		
04-F2.02	In column size 450mm.	41.00	m ²		
04-F2.03	In column up to roof level 300mm size.	75.00	m ²		
04-F2.04	Column above roof level.	8.00	m ²		
04-F2.05	In Intermediate level beams.	75.00	m ²		
04-F2.06	In roof beams.	106.00	m ²		
04-F2.07	In Beams above roof level.	75.00	m ²		
04-F2.08	Decorative beam 225X225mm size.	41.50	m ²		
04-F2.09	In Curve concrete roof (flat area). For hair remove hut.	175.00	m ²		
04-F2.10	In Curve concrete roof (curved area with specially cast formwork from approved material).	145.00	m ²		
04-F2.11	Sides of concrete Curb ledge.	35.00	m ²		
04-F2.12	In Concrete steps.	8.50	m ²		

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	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				
	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				
04-F3.01	In column up to intermediate level	265.00	kg		
04-F3.02	In column up to roof level	138.50	kg		
04-F3.03	Column above roof level	78.50	kg		
04-F3.04	In Intermediate level beams	310.00	kg		
04-F3.05	In roof beams	410.00	kg		
04-F3.06	In Beams above roof level	310.00	kg		
04-F3.07	Decorative beam 225X225mm size	68.00	kg		
	High-yield tor steel bars diameter 10-16mm for the following items.				
04-F3.08	In column footings	118.00	kg		
04-F3.09	Column, sectional area n.e. 0.1m ² up to intermediate beam level.	225.00	kg		
04-F3.10	Column, sectional area n.e. 0.1m ² intermediate beam level to roof level.	138.00	kg		
04-F3.11	Column, sectional area n.e. 0.1m ² above roof level.	35.50	kg		
04-F3.12	In Intermediate level beams	485.00	kg		
04-F3.13	In roof beams	670.00	kg		
04-F3.14	In Beams above roof level	485.00	kg		

DUPLICATE

DUPLICATE

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
04-F3.15	Decorative beam 225X225mm size	768.00	kg		
04-F3.16	In Curve concrete roof	2180.00	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	12	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 .					
04.G2.01	Wall foundation	12.00	m ³		
04.G2.02	Steps foundation.	1.50	m ³		
Total carried over to summary					
BILL NO.S ELECTRICITY					
Note:					
(a) For the Full description of materials and workmanship refer "Specifications", "Preambles" and "Drawings".			Note		
(b).Supply, wire, install and commissioning of the following items as per the latest Edition of the IEE Wiring Regulations.			Note		
(c). All Materials and accessories shall be of high quality type subject to the approval of the Engineer.			Note		
GENERAL					
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.			Note		

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<p>PREAMBLES NOTES</p> <p>Notwithstanding 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>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> <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> <p>Prices for Cable termination deemed to include for double compression glands, accessories for crimping / soldering, earth tags and earth connection lugs etc.</p> <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> <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> <p>Prices deemed to include for interviewing and connections between components and control gear within the board.</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>		

DUPLICATE

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	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		
	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		

DUPLICATE

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	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		
	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		

DUPLICATE

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<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>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>		

DUPLICATE

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
03.S.01	<p>SUPPLY OF LAMP FITTINGS</p> <p>Supply & install approved type outdoor (IP65) ceiling mounted double 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 1.5mm² cu/pvc/pvc cables. The wattage of one lamp shall be 35W-40W.</p> <p>Supply & Installation 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>	8	nr		
03.S.02	<p>Supply & install 4x6 mm² Cu/SWA/PVC 4 core cable + 1XC 6mm² earth cable (From Feeder Pillar to Closed Pyre Lamps) The three phases should be balanced after wiring the lamp .</p>	50	Lm		
03.S.03	<p>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.</p> <p>Total carried over to summary</p>	30	Lm		

DUPLICATE

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	<p>BILL NO: T</p> <p>FLOOR/ WALL AND CEILING FINISHES</p> <p>T1 - FLOOR FINISHES</p> <p>Titanium Finish</p> <p>Before commence the titanium flooring sub contractor , Manufacturer's method specification and material specifications should be approved by the Engineer.</p> <p>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.</p> <p>04-T1.01 Rendering 1/2" thick in cement and sand 1:3 in cement concrete steps and plinth finished smooth with titanium cement.</p> <p>Interlock finish</p> <p>04-T1.02 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,.</p>	70.00	m ²		
		105.00	m ²		

DUPLICATE

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
	T2 - WALL FINISHES				
	16mm thick plastering to internal walls with cement sand mortor 1:5 finish smooth with skim coat for following items.				
04-T2.02	In intermediate level beam	37.00	m ²		
04-T2.03	Top and sides of concrete ledge 10mm thick plastering side & soffit of following items in cement & sand 1:5 finished smooth.	34.00	m ²		
04-T2.04	In roof beams	105.00	m ²		
04-T2.05	In side and soffit of Curve concrete roof .	250.00	m ²		
	16mm thick external plastering with cement and sand mortar 1:5 to a semi rough finish .				
04-T2.06	In top and curved surfaces of roof.	265.00	m ²		
04-T2.07	In Beams above roof level	74.00	m ²		
	Plaster mouldings.				
	Rate shall include to complete the decoration work by a skilled person with relevant level of understanding about hindu decoretions. prior approval shall take from the project engineer /Architect for the work by showing sample trial decoration work.				
04-T2.08	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. Rate includes cost of "Febmix"as a workabirlity enhancer. and . (Approximate heigth of the column 8.0 m). (CROWN structure paid seperately under concreter)	12.00	Nr.		
04-T2.09	Beam decoration with smooth cement sand plaster and plaster mouldings and complete plaster with plaster decorations mouldings as per given detail drawing. Rate includes cost of "Febmix"as a workabirlity enhancer.	58.00	m		

DUPLICATE

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
04-T2.10	Slab valance decoration with smooth cement sand plaster mouldings and all decorations as per given detail drawing. Rate includes cost of "Febmix" as a workability enhancer.	66.00	m		
04-T2.11	Slab top level side decoration with smooth cement sand plaster mouldings and all decorations as per given detail drawing. Rate includes cost of "Febmix" as a workability enhancer.	55.00	m		
Total carried over to summary					
BILL NO V					
PAINTING					
Application of 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.					
04-V.01	In roof beams	105.00	m ²		
04-V.02	In side and soffit of roof	250.00	m ²		
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.					
04-V.03	In column up to roof level	125.00	m ²		
04-V.04	Column above roof level	8.00	m ²		
04-V.05	In Intermediate level beams	47.00	m ²		
04-V.06	In roof beams	105.00	m ²		
04-V.07	In Beams above roof level	74.00	m ²		
04-V.08	Decorative beam 225X225mm size	45.00	m ²		
04-V.09	In Curve concrete roof	250.00	m ²		
04-V.10	In crowns	12	no		

DUPLICATE

DUPLICATE

Item	Description	Qty.	Unit	Rate Rs.	Amount Rs.
04-V.10	Painting of top and curved surfaces 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.	250.00	m ²		
Total carried over to summary					